Warning, patrons ahead!

A development assessment framework for public space for landscape architects drawing on lessons from the Festival City of Adelaide, Australia.

Janelle L. Arbon

B. Design Studies, B. Landscape Architecture (Hons I)
Fellow Registered Landscape Architect (FAILA)
AILA SA Vice President
Associate, JPE Design Studio

Thesis submitted in fulfillment of the requirements for the Degree of Doctor of Philosophy

School of Architecture and Built Environment University of Adelaide

September 2021

EVENT NOTICE Adelaide Fringe will be installing considerable infrastructure from 7 February - 15 February Please be aware that access to certain paths and sections of the parklands may be restricted Figure T-1: Adelaide Fringe Festival event signage in the Adelaide Park Lands. (Photo by author 2019)

To Adelaide...our most liveable city!

Table of Contents

Abstract		p. ix
Thesis Declaration		p. xi
Acknowledgement	s	p. xiii
List of Figures		p. xv
List of Tables		p. xxv
Abbreviations		p. xxvii
Public Space Hono	urs and Awards	p. xxix
Chapter One	Introduction	p. 1
1.1	Warning, Patrons Ahead!	P. 3
1.2	Research questions	p. 16
1.3	Aims and method	p. 17
1.4	Contribution	p. 18
1.5	Scope and structure	p. 22
Part A	Defining public space	p. 25
Chapter Two	Urban public space: definitions	p. 29
2.1	A contested space	p. 31
2.2	Significance	p. 35
2.3	Definitions	p. 38
2.4	Public space	p. 41
2.5	Public realm	p. 49
2.6	Public sphere	p. 51
2.7	Public domain	p. 54
2.8	Summary	p. 55
Chapter Three	Urban public space: typologies	p. 57
3.1	Typologies of urban public space	p. 59
3.2	Five new public space typologies	p. 65
3.3	Summary	p. 75
Chapter Four	Is it private?	p. 77
4.1	Is it private? Is it exclusive?	p. 79
4.2	What makes a successful public space?	p. 80
4.3	The erosion of public space in theory and practice	p. 85
4.4	Events and private - social exchange	p. 99
4.5	Summary	p.102

Chapter Five	Diverse publics	p. 105
5.1	Degrees of access	p. 107
5.2	Diverse types of public	p. 109
5.3	The defined public	p. 111
5.4	The appropriating public	p. 120
5.5	The transitory public	p. 122
5.6	The illegitimate public	p. 123
5.7	Measures of public accessibility	p. 134
5.8	Summary: A diversity of spaces and a typology of publics	p. 138
Part B	Public Space analysis and assessment	p. 141
Chapter Six	Analysing urban public space	p. 147
6.1	Methods, techniques, and tools	p. 150
6.2	Summary	p. 173
Chapter Seven	Proposing a design assessment framework	p. 177
7.1	Introduction	p. 179
7.2	Aim and objectives	p. 181
7.3	Research approach	p. 182
7.4	Approach and data analysis	p. 183
7.5	Methodological procedure and data collection	p. 186
7.6	Summary	p. 201
Chapter Eight	The Adelaide Laboratory	p. 203
8.1	Adelaide as a case study	p. 205
8.2	Site selection	p. 211
8.3	Case study sites	p. 213
8.4	Summary	p. 250
Chapter Nine	Data analysis of urban public space	p. 253
9.1	Parameters for site data collection	p. 256
9.2	DAF rating and publicness	p. 261
9.3	Site elements and publicness	p. 285
9.4	Site surfaces, structures and publicness	p. 305
9.5	Site activities and publicness	p. 316
9.6	Site context, conditions and publicness	p. 329
9.7	Summary	p. 338

Chapter Ten	Discussion: Insights from Adelaide	p. 341
10.1	Questioning Publicness and Publics	p. 344
10.2	Improving assessment methods	p. 349
10.3	Events are opportunities not threats	p. 352
10.4	The DAF for effective design	p. 357
10.5	Public space reflections	p. 359
Chapter Eleven	Concluding reflections	р. 363
11.1	Contribution of the Research	p. 365
11.2	Directions for further research	p. 366
11.3	Conclusion	p. 367
11.4	Afterword	p. 370
Reference List		p. 375
Bibliography		p. 405
Appendices		p. 419



Abstract

A deceptively simple and benign sign placed in a public park states, 'Warning: You may find event equipment and patrons on the pathway' (Figure T-2). The sign hints at the complexity and contradictions of public space and poses a curious question that continues to gain currency in multidisciplinary discourse: How public is public space? This thesis poses a further question by asking, Do temporary events pose a threat to public space? To answer both questions, the thesis draws on the historic trajectory of urban public space, culminating in an extensive appraisal of 20th century forms and programs. In doing so, the thesis examines definitions of 'public space' and 'public', and considers how a more rigorous understanding of these terms can inform the practice of landscape architecture. As a result, the thesis proposes a new definition of public space, focusing on the value of publicly accessible space. It also proposes a new typology of publics—the defined public, the appropriating public, the transitory public and the illegitimate public—to better understand perceived and actual threats to public space.

To test these definitions, the thesis critically reviews existing assessment methods, techniques and tools, and their application in landscape architectural assessments. It asks if current approaches adequately depict the typology of publics and the diversity of private use. As a result, the thesis proposes an integrated approach termed the Design Assessment Framework as a guide for alternative design strategies and policy formation for publicly accessible landscapes. The framework measures the degree of 'publicness' in public space by comprehensively capturing and assessing public space elements. The perceived conflict between public space and private use is explored through 16 case study sites in Adelaide, Australia. The city is recognised internationally for its urban plan, which includes a generous provision of public space and it is celebrated for the many festivals and events held within the city.

The thesis offers an important and timely counter point to the majority voice that laments the future of public space, concluding that publicness is a spectrum, not an absolute. It positions landscape architects in a pivotal role to influence the effective design of public space and create a richer place for publics to interact. The typology of publics and the Design Assessment Framework are presented as new tools for landscape architects to assess public spaces and implement a spectrum of inclusivity. Finally, the thesis argues that events are not a threat to the publicness of public space, and should instead be viewed as opportunities to bring the community together for social exchange. Without social exchange, the question of threats to the publicness of public space may be a moot point.



Thesis Declaration

NAME: Janelle Lea Arbon

PROGRAM: Doctor of Philosophy, Landscape Architecture

I certify that this work contains no material which has been accepted for the award of any other degree or diploma in my name, in any university or other tertiary institution and, to the best of my knowledge and belief, contains no material previously published or written by another person, except where due reference has been made in the text. In addition, I certify that no part of this work will, in the future, be used in a submission in my name, for any other degree or diploma in any university or other tertiary institution without the prior approval of the University of Adelaide and where applicable, any partner institution responsible for the joint-award of this degree.

I give permission for the digital version of my thesis to be made available on the web, via the University's digital research repository, the Library Search and also through web search engines, unless permission has been granted by the University to restrict access for a period of time.

SIGNATURE:

DATE: 01 October 2021



Acknowledgements

A PhD is a journey that takes unexpected twists and turns and rarely ends where you would expect. It's a journey of passion, sometimes loneliness, with moments of brightness leading to achievement. It's a journey that doesn't end, just one that opens up new lines of investigation and questions. I acknowledge that the journey isn't a solo path and that there are many people to be thanked for their contribution, no matter how small. I apologise if I have missed names.

I would like to thank my family—parents Karen and Peter, sisters Melanie and Nicole and brother-in-law Matt—for their understanding and unconditional support. Nicole, your willingness to act as a sounding board, your reading of countless drafts and your responses to many random questions over the years are very much appreciated.

I would like to thank my supervisory team. At the outset, my supervisors included Professor Nancy Pollock-Ellwand, Dr David Jones and Dr Heike Rahmann, whose careers took them to different institutions during the course of the thesis. Thank you, too, to Professor Makoto Yokohari for your early supervisory role. Thank you to Dr Katharine Bartsch and Dr Jo Russell-Clarke, who shared the senior supervisory role in the latter part of the thesis. Thank you for helping me to see that there was an end to the journey and when needed, for providing tough love, which sustained me when I lacked confidence. Kathy, thank you for being there from the beginning, for your patience, persistence and support. It means a great deal to me.

I also thank the PhD and master's students at Tsukuba University and the University of Tokyo. Although the thesis took a different turn, I cherish the time I spent in Japan; this journey was enjoyable, eye-opening and extremely amusing. Never say goodbye; always say 'see you next year'.

Thank you, also to Athena Kerley for assistance with a editing early chapter and Elite Editing for your assistance with the final editing. Editorial intervention was restricted to Standards D and E of the *Australian Standards for Editing Practice*.

I am grateful to my former enthusiastic colleagues at the City of Adelaide, particularly Angela, Daniel and Keith. Your ongoing support for this research project, which I pursued while continuing my professional role as a senior landscape architect and Team leader, was immeasurable. I am also thankful for the early support of my colleagues at Swanbury Penglase, particularly Peter. While our career paths led us to different firms and practice styles, you gave me the confidence to start the journey, knowing that it would be hard and long but valuable to maintain my passion for landscape architecture.

I would also like to extend my thanks to my peers at the Australian Institute of Landscape Architects (AILA). Thank you for the opportunities to present my research in public forums and for constantly reminding me of the pragmatic significance of this research project.

Thank you to my friends whose support was always positive. Thank you for asking 'how are things going?', for your offers to read chapters and for reminding me that I 'have got this'. Thank you for also limiting the number of times you asked 'when are you going to finish that thesis?'. Deanne, thank you for the countless cups of tea, pizza, cheese, Pebble visits, memes and hugs. Nick, thank you for not skipping ahead in House of Cards; we will finish the series soon. A final thank you to the Nicole, Chris, Matt, Karloskar, Jean, Stephanie, Jared, Sooz and Deanne, for reminding me to have a break, head to a gig, see live music and experience public space as a member of the public and not as a data collector, even when I was taking photos which formed part of this thesis.

This project may be coming to a close but the city awaits.

List of Figures

Figure T-1	Adelaide Fringe Festival event signage in the Adelaide Park Lands	p.ii
Figure T-2	Pelzer Park/Pityarilla (Park 19) event signage	p.viii
Figure T-3	Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) event signage	p.x
Figure T-4	Never Ending Tour, Bob Dylan concert tent in Bonython Park/Tulya Wodli (Park 27), Adelaide	p.xii
Figure T-5	Tidlangga Playspace and Pocket Orchard FORM Journal awards	p.xxviii
Figure T-6	Adelaide Fringe Festival event signage on Grenfell Street, Adelaide	p.xxxii
Chapter One		
Figure 1-1	Pelzer Park/Pityarilla (Park 19) Adelaide, South Australia, event signage	p.2
Figure 1-2	Pelzer Park/Pityarilla (Park 19) bird's eye view	p.5
Figure 1-3	Pelzer Park/Pityarilla (Park 19) central plaza	p.5
Figure 1-4	Pelzer Park/Pityarilla (Park 19) Karuna smoking ceremony	p.7
Figure 1-5	Pelzer Park/Pityarilla (Park 19) ribboncCutting	p.7
Figure 1-6	Examples of signage in Adelaide's public spaces	p.9
Figure 1-7	Examples of signage in Melbourne's public spaces	p.9
Figure 1-8	Examples of signage in Japan's public spaces	p.10
Figure 1-9	Examples of signage in Century Park, Shanghai, China	p.10
Figure 1-10	Examples of signage in Vancouver, Canada's public spaces	p.10
Figure 1-11	Original 1837 plan of the City of Adelaide	p.11
Figure 1-12	Australian Institute of Landscape Architects, South Australian Chapter, open-air lecture by Lawn Solutions, held in the South Park Lands, Adelaide	p.13
Figure 1-13	Public protest in the City of Melbourne, 20 March 2016, crossing Flinders and Swanston Street intersection to Federation Square	p.13
Figure 1-14	Street Art & Craft Beer Tour, run by Toonie Tours Vancouver, explores the back streets of Vancouver, promoting street art and local breweries	p.13
Figure 1-15	Example of an ephemeral public space. During set timeframes this street in Tokyo, Japan, is closed to vehicle traffic and becomes an outdoor dining area	p.14
Figure 1-16	Advance notice of events and restriction of park use	p.14

Figure 1-17	Iterative research framework	p.17
Part A		
Figure A- 1	Victoria Square/Tarntanyangga used as an event hub for Open State, a festival of innovation, collaboration, ideas and enterprise, held 28 September to 8 October 2017	p.26
Chapter Two		
Figure 2-1	Moseley Square, pre-eminent Adelaide public space, acts as a common, waterfront and event space	p.30
Figure 2-2	Bethesda Fountain, Central Park, in early spring	p.33
Figure 2-3	Federation Square subtle activation activity	p.33
Figure 2-4	Adelaide Parking Day 2013 combining protest for more public space, freedom of speech, urban regeneration and design creativity to transform vehicle-dominated spaces for one day a year	p.36
Figure 2-5	Global Strike 4 Climate protest and march departing from Victoria Square/Tarntanyangga, Adelaide	p.37
Figure 2-6	Public Space terminology classification	p.40
Figure 2-7	Examples of public space. Top left: Hindley Street, Adelaide, streetscape. Top right: Meiji Jingu Tokyo, Japan, public park, garden and shrine. Bottom left: Gardens by the Bay, Singapore, park and garden. Bottom right: Passeig de Gràcia, Barcelona, streetscape.	p.42
Figure 2-8	Fushimi Inari-taisha Shrine, Kyoto, Japan	p.44
Figure 2-9	Boston Common is a central public park in downtown Boston, Massachusetts	p.45
Figure 2-10	Media call for the netball court opening at Josie Agius Park/Wikaparntu Wirra (Park 22)	p.46
Figure 2-11	Privately owned spaces regulating the public use. Left: Building facade on Pirie Street, Adelaide, Australia. Right: Signage in public plaza at Tokyo Midtown, Minato, Tokyo	p.48
Figure 2-12	The University of Adelaide, public realm, the Barr Smith Lawns.	p.50
Figure 2-13	Melbourne's Flemington Racecourse acting as the public realm during the 2019 Download music festival through the provision of common public goals and facilitating temporary bonds between unrelated publics	p.51
Figure 2-14	Outlook of Victoria Square/Tarntanyangga, Adelaide during the 2020 Global Strike 4 Climate.	p.52
Chapter Three		
Figure 3-1	Gluttony Adelaide Fringe Festival hub set in Rymill Park/Murlawirrapurka (Park 14) transforms yearly from a park and garden public space typology to commercial event space	p.58

Figure 3-2	Public space typology classification system flow chart	p.63
Figure 3-3	Tonsley Innovation District - Central Forest 4	p.66
Figure 3-4	Victoria Square/Tarntanyangga, Adelaide, event setup during the Santos Tour Down Under.	p.68
Figure 3-5	Highline, New York	p.70
Figure 3-6	Shibuya Crossing, Tokyo, Japan	p.71
Figure 3-7	Christopher Columbus Waterfront Park in Boston	p.73
Figure 3-8	Adelaide Zoo, South Australia, entrance forecourt	p.74
Chapter Four		
Figure 4-1	Day on the Green, Rochford Wines, Victoria, Australia	p.78
Figure 4-2	Tokyo Disneyland entrance plaza	p.83
Figure 4-3	Overt security signage on Hindley Street, Adelaide, informing the public of security presence and site regulations	p.86
Figure 4-4	Signage displaying ownership of the public plaza at The District, Newquay, Victoria Harbour and Waterfront City, Melbourne, tucked in among the entertainment zone	p.88
Figure 4-5	Tokyo Midtown event celebrating the film release of Godzilla in 2014	p.91
Figure 4-6	City of Adelaide bikeway	p.93
Figure 4-7	Artificial beach at South Bank, Brisbane, Queensland	p.94
Figure 4-8	Westernland, Tokyo Disneyland, Chiba, Japan	p.97
Figure 4-9	Splash Adelaide event, Hindmarsh Square, Adelaide.	p.99
Figure 4-10	Physical controls place in Vardon Avenue, Adelaide during the Adelaide Fringe Festival to designate commercial event spaces.	p.101
Figure 4-11	Private security patrolling Tokyo Midtown, Japan, public plaza, and entrance.	p.102
Chapter Five		
Figure 5-1	Diverse users, Rundle Street, Adelaide	p.106
Figure 5-2	Keep off the grass, Tokyo Midtown, Japan	p.108
Figure 5-3	Pelzer Park/Pityarilla (Park 19) defined user group included children and families	p.111
Figure 5-4	Skateboards, as defined public, when located in temporary city skate park in King Rodney Park/Ityamai-itpina (Park 15) and excluded from the defined public on North Terrace, Adelaide	p.113

Figure 5-5	Busker on Rundle Street as part of the 2020 Adelaide Fringe Festival claims the street for their fringe show	p.120
Figure 5-6	Food trucks at Victoria Square/Tarntanyangga, Adelaide	p.122
Figure 5-7	Transitory public walking along Rundle Street through temporary outdoor dining as part of the 2020 Adelaide Fringe street closure	p.123
Figure 5-8	Blue Tent Village, Ueno Park, Japan	p.124
Figure 5-9	Old man sitting at the edge of the Tidlangga/Park 9 Playspace	p.125
Figure 5-10	Belongings of a rough sleeper outside of the City of Adelaide offices	p.127
Figure 5-11	Example methods used to remove or discourage perceived illegitimate individuals or group	p.133
Figure 5-12	Profiles of two public places	p.135
Figure 5-13	Németh & Schmidt's tri-axial model	p.136
Figure 5-14	Varna & Tiesdell (2010) Star model's hypothetical public place	p.136
Part B		
Figure B-1	Public space analysis with experts in planning, landscape architecture and placemaking, Adelaide CBD	p.142
Chapter Six		
Figure 6-1	Park(ing) Day Park, Adelaide 2014, called on the public to question single use areas such as car parks and appropriate the space for public use	p.148
Figure 6-2	Study design flow chart	p.153
Figure 6-3	Example of observational methods. City of Adelaide and Project for Public Spaces placemaking assessment of Hindley Street, Adelaide	p.159
Figure 6-4	Example of a design workshop. City of Adelaide staff design	p.167
	workshop for Pelzer Park/Pityarilla (Park 19)	
Figure 6-5		p.170
Figure 6-5 Chapter Seven	workshop for Pelzer Park/Pityarilla (Park 19) Example of altered photos. 'Before' and 'proposed' streetscape	
	workshop for Pelzer Park/Pityarilla (Park 19) Example of altered photos. 'Before' and 'proposed' streetscape	
Chapter Seven	workshop for Pelzer Park/Pityarilla (Park 19) Example of altered photos. 'Before' and 'proposed' streetscape improvements for Hindley Street, Adelaide	p.170
Chapter Seven Figure 7-1	workshop for Pelzer Park/Pityarilla (Park 19) Example of altered photos. 'Before' and 'proposed' streetscape improvements for Hindley Street, Adelaide Signage warning pedestrians after a public space upgrade	p.170 p.178

Figure 8-2	Original 1837 plan of the City of Adelaide	p.207
Figure 8-3	March 2015 satellite photo	p.208
Figure 8-4	North Terrace activation.	p.212
Figure 8-5	Adelaide study area and case study site locations	p.214
Figure 8-6	Parks & Gardens case study site locations	p.216
Figure 8-7	Castle Street is one of many nodes along the City of Adelaide Bikeway.	p.219
Figure 8-8	Glover Playground entry gate	p.219
Figure 8-9	Himeji Gardens school tour group	p.219
Figure 8-10	Spirited: A Studio Ghibli inspired pop-up exhibition at Himeji Gardens	p.220
Figure 8-11	Glover Playground weekend use	p.220
Figure 8-12	Himeji Gardens maintenance inspection	p.220
Figure 8-13	Streets & Promenades case study site locations	p.222
Figure 8-14	North Terrace, example of everyday use	p.228
Figure 8-15	Peel Street outdoor dining and small bar activity	P.228
Figure 8-16	Public begging on Rundle Street	p.228
Figure 8-17	North Terrace Lights - Adelaide Festival art work	p.229
Figure 8-18	Moonta Street Chinese New Year	p.229
Figure 8-19	Peel Street and Hindley Street	p.229
Figure 8-20	Plazas & Squares case study site locations	p.231
Figure 8-21	Whitmore Square/Ivarrityi used as designed for passive recreation	p.235
Figure 8-22	Hindmarsh Square/Mukata food truck	p.235
Figure 8-23	Hajek Plaza on a typical week day afternoon	p.235
Figure 8-24	Ride to Work Day 2014 event set up in Hindmarsh Square/Mukata (free event)	p.236
Figure 8-25	Whitmore Square/Ivarrityi Community engagement event run by the City of Adelaide in 2018 to shape the next masterplan for the square	p.236
Figure 8-26	Adelaide Railway Station	p.236
Figure 8-27	Private security at Adelaide Railway Station patrols the publicly accessible concourse while the station is in operation.	p.237
Figure 8-28	Waterfronts case study site location	p.238

Figure 8-29	Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) during the annual Union Cycliste linternationale (UCI) world tour, the Santos Tour Down Under	p.242
Figure 8-30	Outdoor fitness groups (in background) and film crew (foreground)	p.243
Figure 8-31	Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) during the Adelaide Festival 2017 opening	p.243
Figure 8-32	Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) maintenance	p.243
Figure 8-33	Example of the appropriating public in Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26)	p.244
Figure 8-34	Commercial Spaces case study site locations	p.244
Figure 8-35	Gilles Street School frontage on a weekday	p.248
Figure 8-36	Rundle Place	p.249
Figure 8-37	Silent Disco 2014 Adelaide Fringe Event in the Adelaide Central Market	p.249
Figure 8-38	Adelaide Central Market maintenance	p.249
Figure 8-39	Gilles Street School Day	p.250
Figure 8-40	Adelaide Central Market defined use	p.250
Chantan Nina		
Chapter Nine		
Figure 9-1	Design Assessment Framework data analysis	p.254
Figure 9-2	Adelaide study area and case study site locations	p.258
Figure 9-3	DAF rating (alphabetical order) across all sites	p.263
Figure 9-4	DAF rating non-event and event site visits	p.265
Figure 9-5		p.203
	User numbers (average) compared with public space typologies during non-event site visits	p.266
Figure 9-6	User numbers (average) compared with public space typologies	
Figure 9-6 Figure 9-7	User numbers (average) compared with public space typologies during non-event site visits User numbers (average) compared with public space typologies	p.266
	User numbers (average) compared with public space typologies during non-event site visits User numbers (average) compared with public space typologies during event site visits	p.266 p.266
Figure 9-7	User numbers (average) compared with public space typologies during non-event site visits User numbers (average) compared with public space typologies during event site visits User age variation (average) across all sites User age variation (average) compared with public space	p.266 p.266 p.268
Figure 9-7 Figure 9-8	User numbers (average) compared with public space typologies during non-event site visits User numbers (average) compared with public space typologies during event site visits User age variation (average) across all sites User age variation (average) compared with public space typologies during non-event site visits User age variation (average) compared with public space	p.266 p.266 p.268 p.269

Figure 9-12	Typology of public presence variation (average) compared with public space typologies during event site visit	p.273
Figure 9-13	Riverbank Pedestrian Bridge usage after an event at Adelaide Oval	p.275
Figure 9-14	FAD Walking Tour representing appropriating North Terrace for a study tour of the city	p.275
Figure 9-15	Mix of Defined publics (bike riders), appropriating publics (users under umbrellas and family in foreground) and transitory users (group walking in background) adjacent Himeji Gardens during the Studio Ghibli/Espionage Gallery pop-up event.	p.275
Figure 9-16	Rundle Place during filming of a television commercial, with blocked access and changed movement patterns of the transitory publics for the duration of the event.	p.276
Figure 9-17	Example of Transitory publics and Illegitimate publics cohabiting Rundle Street.	p.276
Figure 9-18	Activities considered illegitimate at the time of study due to the location.	p.276
Figure 9-19	Gender variation (%) across all site visits	p.278
Figure 9-20	Gender variation (%) compared with public space typologies during non-event site visits	p.278
Figure 9-21	Gender variation (%) compared with public space typologies during event site visits	p.279
Figure 9-22	Whitmore Square/Ivarrityi non-event day, minimal to no interaction between groups	p.279
Figure 9-23	Individuals or groups presence (%) compared with public space typologies during non-event site visits	p.280
Figure 9-24	Individuals or groups presence (%) compared with public space typologies during event site visits	p.280
Figure 9-25	Whitmore Square/Ivarrityi event day, interaction between individuals and groups during community consultation	p.281
Figure 9-26	Interaction (average) across all site visits	p.281
Figure 9-27	Interaction (average) compared with public space typologies	p.282
Figure 9-28	Comparison of length of stays (average) across all site visits	p.283
Figure 9-29	Length of Stay (%) compared with public space typologies during non-event site visits	p.284
Figure 9-30	Length of Stay (%) compared with public space typologies	p.284
Figure 9-31	during event site visits Moonta Street during the Lunar New Year Street Party	p.287
Figure 9-32	Site elements (average) for non-event site visits	p.293

Figure 9-33	Site elements (average) for event site visits	p.293
Figure 9-34	Barrier installed on North Terrace for an evening at the Art Gallery of South Australia	p.298
Figure 9-35	Barrier installed outside (Stella Bowen Park/Tarntanya Wama, Park 26) to distinguish access between two events, Carols by Candlelight (free public event) and Christmas Proms (ticketed private event)	p.298
Figure 9-36	Food Trucks in (Stella Bowen Park/Tarntanya Wama, Park 26) during Tour Down Under	p.298
Figure 9-37	Pop-up Coffee Vendor on North Terrace during Tour Down Under	p.299
Figure 9-38	Additional bins and beverage access in Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) during the 2017 Neil Finn free open-air concert	p.297
Figure 9-39	Additional bins installed in Himeji Gardens for the Studio Ghibli/Espionage Gallery pop-up event	p.299
Figure 9-40	Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) event lighting during the 2017 Neil Finn free open-air concert during the Adelaide Festival	p.300
Figure 9-41	Combined temporary lighting and Public art on North Terrace during the Adelaide Festival	p.300
Figure 9-42	Maintenance activities in (Stella Bowen Park/Tarntanya Wama, Park 26)	p.300
Figure 9-43	Maintenance activities in Whitmore Square/Ivarrityi.	p.301
Figure 9-44	Outdoor dining seating in Peel Street during a non event day	p.301
Figure 9-45	Additional seating in (Stella Bowen Park/Tarntanya Wama, Park 26) during Tour Down Under	p.301
Figure 9-46	Security camera signage on Hindley Street	p.303
Figure 9-47	Additional security presence during the Neil Finn free open-air concert in Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) as part of the 2017 Adelaide Festival	p.303
Figure 9-48	Event signage on Rundle Street providing advance notice for pedestrians and vehicles. Regulatory signage adjacent Rundle Street in a popular busking area	p.304
Figure 9-49	Advanced notice event signage placed throughout Adelaide City to highlight road closures in place for the annual Zombie Walk between 2014 and 2019	p.304
Figure 9-50	Example of additional surfaces and structures provided in Whitmore Square/Ivarrityi for a community consultation event in 2018	p.306
Figure 9-51	Site surfaces and structures (average) for non-event site visits	p.311
Figure 9-52	Site surfaces and structures (average) for event site visits	p.311

Figure 9-53	Shade options provided for publics at Gillies Street School during one of the markets	p.314
Figure 9-54	Shade (built, additional) at Himeji Gardens for the Studio Ghibli/Espionage Gallery pop-up event	p.315
Figure 9-55	Activity recorded at Castle street was limited to cyclists or pedestrians (transitory publics)	p.317
Figure 9-56	Site activities (average) for non-event site visits	p.322
Figure 9-57	Example of prohibited activities – Street Art paste up - in Hindmarsh Square/Mukata during non-event time	p.322
Figure 9-58	Site activities (average) for event site visits	p.323
Figure 9-59	Example of a tolerated prohibited activity – Street Art installation - spilling onto Hindley Street outside of the event designated area during West End After Dark Event	p.323
Figure 9-60	Construction site setup for the Riverbank Bridge in Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26)	p.326
Figure 9-61	Free public concert and the stage show 'dirtsong' during the 2014 Adelaide Festival event setup (bump out) in Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26)	p.326
Figure 9-62	Dog walkers in Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26)	p.326
Figure 9-63	Rundle Street street party during Adelaide Fringe 2014	p.328
Figure 9-64	Movement through the Adelaide Railway Station from North Terrace to Adelaide Riverbank	p.328
Figure 9-65	Clothing drying in Hindmarsh Square/Mukata as part of an event back of house	p.328
Figure 9-66	Site context and conditions (average) for non-event site visits	p.334
Figure 9-67	Site context and conditions (average) for event site visits	p.335
Figure 9-68	North Terrace typical movement patterns during non-event times	p.337
Figure 9-69	North Terrace during an Art Gallery exhibition opening with speeches, live music and performances for a 2 hour period - event mode	p.337
Figure 9-70	Example of a restorative place	p.338
Chapter Ten		
Figure 10-1	Die-in activation by the landscape architects during The International Festival of Landscape Architecture 2019, Main Stage, Federation Square, Melbourne VIC	p.342
Figure 10-2	Pelzer Park/Pityarilla (Park 19) Adelaide, South Australia, event signage	p.343

Figure 10-3	Spectrum of Publicness	p.348
Figure 10-4	Morton Road Skate Park in construction	p.351
Figure 10-5	Neil Finn free open-air concert in Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) as part of the 2017 Adelaide Festival	p.354
Figure 10-6	The Summerhouse in Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) as part of the 2021 Adelaide Festival	p.354
Figure 10-7	Fork in the Road - The Forkening- Unley-sh Your Hunger!	p.356
Figure 10-8	Bowden Fringe at Bowden Park	p.356
Figure 10-9	Hajek Plaza as designed by Otto Hajek	p.359
Figure 10-10	Adelaide Festival Plaza Concept design 2015	p.360
Figure 10-11	Adelaide Festival Plaza stage 1 of the redevelopment open to the public	p.360
Chapter Eleven		
Figure 11-1	Neil Finn free open-air concert in Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) as part of the 2017 Adelaide Festival	p.364
Figure 11-2	Chalk Art around the City of Unley created as a way for neighbours to connect during lockdowns	p.369
Figure 11-3	King Rodney Park/Ityamai-Itpina (Park 15) Skatepark	p.370
Figure 11-4	King Rodney Park/Ityamai-Itpina (Park 15) Glover East Playspace	p.371
Figure 11-5	Peel Street transformation from a busy outdoor dining venue on a Friday night to an empty street	p.371
Figure 11-6	Chalk Art around the City of Unley created as a way for neighbours to connect and interact	p.371

List of Tables

Chapter Two		
Table 2-1	Public space terminology by discipline	p. 40
Chapter Three		
Table 3-1	Public space recognised from traditional and ambiguous	p.61
Chapter Four	perspectives	
Table 4-1	Successful public space components	p.81
Table 4-2	Successful public space perceptual qualities	p.81
Table 4-3	Necessary and optional activities that occur in public space	p.82
Chapter Five		
Table 5-1	List of necessary and optional activities that occur in public space, identifying which publics undertake the activities and which are seen to be desirable or undesirable	p.129
Part B	Which are seen to be desirable of anaeshable	
Table Part B-1	Summary of Adelaide case study sites	p.144
Chapter Six		
Table 6-1	Overview of assessment methods	p.155
Table 6-2	Overview of assessment methods and disciplines employing observation (descriptive) methods	p.161
Table 6-3	Overview of assessment methods and disciplines employing interview methods	p.165
Table 6-4	Overview of assessment methods and disciplines employing infrastructure methods	p.171
Chapter Seven	initastructure metrious	
Table 7-1	Design assessment framework site assessment checklist	p.188
Table 7-2	Site visit information	p.190
Table 7-3	Public measures	p.192
Table 7-4	Site elements	p.195
Table 7-5	Site surfaces and structures	p.197
Table 7-6	Site activities	p.198
Table 7-7	Site context and conditions	p.200
Chapter Eight		
Table 8-1	Summary of Adelaide case study sites - Parks & Gardens	p.217
Table 8-2	Summary of Adelaide case study sites - Streets & Promenades	p.223
Table 8-3	Summary of Adelaide case study sites - Plazas & Squares	p.233

Table 8-4	Summary of Adelaide case study sites – Waterfronts	p.239
Table 8-5	Summary of Adelaide case study sites – Commercial Space	p.245
Chapter Nine		
Table 9-1	Case study site visit time and duration	p.259
Table 9-2	DAF rating of case studies sites (least to most public) across all site visits	p.262
Table 9-3	DAF rating of case studies sites for non-event site visits (least to most public)	p.264
Table 9-4	DAF rating of case studies sites for event site visits (least to most public)	p.264
Table 9-5	User Numbers (average) across all site visits	p.267
Table 9-6	Typology of publics presence (average) across all site visits	p.272
Table 9-7	Length of stays (non-event vs event) across all site visits	p.282
Table 9-8	Length of stays (public space typology) across all site visits	p.283
Table 9-9	DAF rating of Case Studies Sites (ranked least to most public) compared with site elements across all site visits	p.288
Table 9-10	DAF rating of case studies sites (ranked least to most public) for non-event site visits compared with site elements	p.290
Table 9-11	DAF rating of case studies sites (ranked least to most public) for event site visits compared with site elements	p.291
Table 9-12	Comparison of presence of site elements during non-events and events site visits	p.292
Table 9-13	DAF rating of case studies sites (ranked least to most public)	p.307
Table 9-14	compared with site surfaces and structures across all site visits DAF rating of case studies sites (ranked least to most public) for non-event site visits compared with site surfaces and structures	p.308
Table 9-15	DAF rating of case studies sites (ranked least to most public) for event site visits compared with site surfaces and structures	p.309
Table 9-16	Descriptive comparison of presence of statistics of site surfaces and structures during non-event and event site visits	p.310
Table 9-17	DAF rating of case studies sites (ranked least to most public) compared with site activities across all site visits	p.318
Table 9-18	DAF rating of case studies sites (ranked least to most public) for non-event site visits compared with site activities	p.319
Table 9-19	DAF rating of case studies sites (ranked least to most public) for event site visits compared with site activities	p.319
Table 9-20	Descriptive comparison of presence of statistics of Site Activities during non-event and event site visits	p.321
Table 9-21	DAF rating of case studies sites (ranked least to most public) compared with site context and conditions across all site visits	p.331
Table 9-22	DAF rating of case studies sites (ranked least to most public) for non-event site visits compared with site context and conditions	p.332
Table 9-23	DAF rating of case studies sites (ranked least to most public) for event site conditions compared with site context and	p.333
Table 9-24	conditions Descriptive comparison of presence of statistics of site context and conditions during non-events and events site visits	p.334

Abbreviations

AILA: Australian Institute of Landscape Architects

APPA: Adelaide Park Lands Preservation Association

BDLA: Federation of German Landscape Architects

CABE: Commission for Architecture and the Built Environment

CAD: Computer Aided Design

CBD: Central Business District

COVID-19: Coronavirus disease of 2019

CPTED: Crime prevention through environmental design

DAF: Design Assessment Framework

FAILA: Registered Landscape Architect (Fellow)

GIS: Geographic Information System

GPS: Geographic Positioning System

IDC: Integrated Design Commission

IFLA: International Federation of Landscape Architects

NIMBY: Not In My Back Yard

ODASA: Office for Design and Architecture SA

OED: Oxford English Dictionary

PPS: Project for Public Spaces

PSPL: Public Spaces Public Life

RCC: Royal Croquet Club

SMA: Stadium Management Authority

UCI: Union Cycliste Iinternationale



Public Space Honours and Awards

2021 AILA SA Landscape Architecture Award for Play Spaces Wilfred Taylor Reserve Nature Playspace

Australian Institute of Landscape Architects

2021 Healthy Parks Healthy People SA Commendation Wilfred Taylor Reserve Nature Playspace

Australian Institute of Landscape Architects

2020 Fellowship

Australian Institute of Landscape Architects

The membership category of 'Fellowship' is an honour that Australian Institute of Landscape Architects may bestow upon Registered members, and is made in recognition of distinguished service and/or the profession in Australia.

2020 Commercial Landscape Construction Exceeding \$500,000 Wilfred Taylor Reserve Nature Playspace

Master Landscapers of South Australia

2019 Commercial Landscape Over \$1,000,000—Construction Only Pelzer Park/Pityarilla Activity Hub, Adelaide

Master Landscapers of South Australia

2019 AILA SA Parks and Open Space Award of Excellence Pelzer Park/Pityarilla (Park 19) Activity Hub

Australian Institute of Landscape Architects

2019 City of Adelaide Prize Commendation Pelzer Park/Pityarilla (Park 19) Activity Hub

Australian Institute of Architects

2019 Park of the Year Award

Pelzer Park/Pityarilla (Park 19) Activity Hub

Parks & Leisure Australia SA/NT

2019 Playspace Award (>\$0.5M)

Pelzer Park/Pityarilla (Park 19) Activity Hub

Parks & Leisure Australia SA/NT

2018 Great Places Award

Pelzer Park/Pityarilla (Park 19) Activity Hub

Planning Institute of South Australia

2018 Planning Minister's Award—Commendation

Pelzer Park/Pityarilla (Park 19) Activity Hub

Planning Institute of South Australia

2018 Kidsafe National Playspace Design Awards Category C (over \$1M)

Commendation

Pelzer Park/Pityarilla (Park 19) Activity Hub

Kidsafe National

2017 Award for Innovation in Landscape Architecture

Tidlangga Playspace and Pocket Orchard

FORM Journal

2017 People's Choice Award for Innovation in Landscape Architecture

Tidlangga Playspace and Pocket Orchard

FORM Journal

2017 AILA SA Parks and Open Space Award of Excellence

Tidlangga Playspace and Pocket Orchard

Australian Institute of Landscape Architects

2016 Heart Foundation Local Government Awards

Ityamai-Itpina (Park 15) Skate Park and Community Courts

Development and the Adelaide Design Manual

Heart Foundation Highly Commended Award for their contribution to tackling heart disease and to a healthy community

2016 City of Adelaide Achievement Award

Tidlangga Playspace and Pocket Orchard Project Team

City of Adelaide

2015 AILA SA President's Award

City Design and Transport Team

Australian Institute of Landscape Architects

2015 City of Adelaide Prize 'People's Choice' Award

Princess Elizabeth Playspace

Australian Institute of Architects and The Adelaide Review

2015 Adelaide City Council Project Team Award—Princess Elizabeth Playspace

Adelaide City Council

2013 AILA SA Design in Landscape Architecture—M² AND THE PLASSO

Australian Institute of Landscape Architects

2013 National Commendation Public Domain Awards—M² AND THE PALASSO

CCAA Public Domain Awards

2013 Architect's for Health IHEEM 2013 Gold Award—Glenside Health Services

Architect's for Health

2013 PIA SA—Princess Elizabeth Playspace Community Engagement (Joint with Jensen Planning & Design)

Planning Institute Australia, SA group

2012 The Jack McConnell Award for Public Architecture—M² AND THE PLASSO

Australian Institute of Architects

2010 South Australian Engineering Infrastructure Project Commendation— South Road Upgrade—Glenelg Tram Overpass Project

Engineers Australia, South Australia Division

2009 Mawson Lakes Fellowship

University of Adelaide

The Mawson Lakes Fellowship Program provides three scholarships each year for South Australian postgraduate students, whose research focuses on urban innovation and innovative urban development practice, to study in Japan.

2007 AILA SA Commendation—Sturt River Masterplan

Australian Institute of Landscape Architects SA Chapter

2005 Hassell Travelling Scholarship Nomination

Hassell

2004 Match: Creative Design Disciplines Collaboration Tournament Stage 4 Group Win

Match Creative Group Design Challenge



Chapter One Introduction



1.1 Warning, Patrons Ahead!

A deceptively simple and benign sign placed in a public park states, 'Warning: You may find event equipment and patrons on the pathway' (Figure 1-1). The sign was placed by the City of Adelaide, South Australia, in Pelzer Park (Park 19)—also known by its Aboriginal name of Pityarilla—during the park's community opening. The placement of the sign raises myriad questions about the differentiation of patrons from users, the relationship between events and the everyday function of the park, and circulation versus obstruction. Accordingly, the sign hints at the complexity and contradictions of public space and poses a curious question that continues to gain currency in multidisciplinary discourse on public space: *How public is public space?*

The Pelzer Park/Pityarilla (Park 19) sign displays terms that feature in current public space debates—such as those discussed by Beauregard (2004), De Backer et al. (2016), Gaffney (2014), Kling (2020) Low and Smith (2006), Minton (2018), Mitchell (2003), Poynter, Viehoff and Li (2015) and Tovey (2020). First, this sign refers to an 'event'. An event, as described in the Oxford English Dictionary Online (OED Online 2020), can be an occasion or occurrence, including 1. Something that happens or takes place, especially something significant or noteworthy; an incident, an occurrence, 2. A planned public or social occasion and 3. The industry or profession of planning and coordinating public, social or sporting occasions. In the example of Pelzer Park/Pityarilla (Park 19), the event was a free, non-ticketed public celebration of the reopening of the park's Activity Hub on 29 April 2018. The event, planned by the City of Adelaide, offered free activities (including live music and speeches) and commercial paid activities (such as food trucks and face painting). Activities were planned with the intent to draw a crowd for the duration of the event and to encourage the crowd to leave at its conclusion. Once the event concluded, Pelzer Park/Pityarilla (Park 19) reverted to its usual function—as distinct from the unusual, planned event—as a community hub for passive recreation, accessible to all, for which it was designed. When the event concluded, no trace remained of its occurrence.

Second, the unlikely term of 'patron' is introduced in the context of a public event. Patron is described in the OED Online (2020) as 1. A person standing in a role of oversight, protection or sponsorship to another, 2. A person or organisation that uses money or influence to advance the interests of a person, cause, art, etc. 3. A person who supports or frequents a business or other institution, a customer of a shop, restaurant, theatre, etc. The definitions of patron include ideas of financial transaction and private benefit. In the example of Pelzer Park/Pityarilla (Park 19), the event was free, celebrating the space instead of an individual, and the commercial offerings were optional. The use of the term 'patron' in Pelzer Park/Pityarilla (Park 19) was at odds with its main

definition of those who attended the event. By common definition, 'patron' is exclusive, the antonym of 'public', which is inclusive, defined as 1. Open to general observation, view or knowledge; existing, performed or carried out without concealment, so that all may see or hear, 2. Of or relating to the people as a whole; that belongs to, affects or concerns the community or the nation, 3. Open or available to all members of a community or all who are legally or properly qualified (as by payment); not restricted to the private use of a particular person or group; (of a service, amenity, etc.) provided by local or central government for the community and supported by rates or taxes, 5. Of or relating to a person in the capacity in which he or she comes into contact with society, as opposed to his or her private or personal capacity; official, professional (OED Online 2020).

The definitions presented above for the terms 'event', 'patron' and 'public' underscore the complexity and contradictions of terms used within public space. Given these definitions, the juxtaposition of terms to warn users in Pelzer Park/Pityarilla (Park 19) suggests tension between exclusive or private patronage and free public access. Here, the 'patrons' are presented to the public park user as a threat or danger. Pelzer Park/Pityarilla (Park 19) is thus temporarily transformed from a public space to an exclusive, regulated space with potential conflict.

So, how public is public space? Spanish architect and urban planner, Manuel De Solà-Morales, remarked that the distinction between public space and private space has been defined in terms of opposites since the late 19th century (De Solà-Morales 1992, p. 1). Yet, his own practice suggested that a nuanced approach to design outcomes is required. He debated whether the attributes of public space, being publicly owned and freely accessible, are becoming obsolete or if the notion of public space should be extended. Similarly, Dutch architect Rem Koolhaas, American architect Michael Sorkin and Belgian philosopher Lieven De Cauter, questioned the state of public space in the 2007 Delft Lecture Series. They presented a theoretical discourse on lost public space, 'lamenting the increasingly one-dimensional character of public spaces' created 'exclusively for leisure, tourism and shopping' (Avermaete & Teerds 2007, p. 36). To combat similar concerns, the government of New South Wales, Australia, introduced a public space charter, recommending the formation of an international peer review panel and setting out 10 principles to foster 'more and better' public spaces (Architecture AU 2020). As the example of activities at Pelzer Park/Pityarilla (Park 19) demonstrates, 'public' and 'private' activities can co-exist during events, suggesting that a polarised representation of public and private open spaces in the city is problematic.



Figure 1-2: Pelzer Park/Pityarilla (Park 19) bird's eye view. (Image courtesy of LCS Landscapes 2018)



Figure 1-3: Pelzer Park/Pityarilla (Park 19) central plaza. (Photo by author 2018)

Again, how public is public space? More recently, Dr Georgiana Varna, a lecturer in planning and urbanism, has explored this question through ongoing debates about the erosion of public space (2014). Varna, along with De Backer, Melgaço and Menichelli (2016), position this quandary within discussions of management, use and transgression. They remark that public space is a 'slippery concept' (De Backer et al. 2016, p. 1) requiring a pluralistic 'contemporary reading of order, of social interaction', dissent and disruption (De Backer et al. 2016, p. 3). Likewise, Myriam Houssay-Holzschuch, Professor of Geography, proposes that public space—as a constructed narrative of Western society—is a myth formed from concepts of race, class and gender embedded in an ideal of democracy. Houssay-Holzschuch asks whether we 'should ditch the notion' entirely and challenge established 'binaries' that 'frame our knowledge of public space' and the state-centric use of the adjective 'public' (Houssay-Holzschuch 2016 in De Backer et al. 2016, p. 217).

Events are commonplace and are becoming a key activation component of public spaces. With paid access or otherwise, they represent a form of temporary privatisation, regardless of duration, management or commercial participation. As highlighted by Madanipour (2017), events provide an opportunity for government or developers to test changes in the urban environment, promote potential change to funding partners and create opportunities for community interaction (i.e. social exchange). Events can challenge established binaries of public space by temporarily altering levels of control and freedom, negotiation and compromise, commercialisation and charity, within one space during a given timeframe. Events, too, can be ambiguous; they act as a magnet for visitors, encouraging social exchange while simultaneously alienating regular users. An event can be both a magnet and a menace, simultaneously offering public access and privatised activities, for a defined period.

Such a simultaneous offering was on display when Pelzer Park/Pityarilla (Park 19) Activity Hub reopened to the public on 29 April 2018. Initiated and delivered by the City of Adelaide (by the author), designed by Aspect Studios, a design firm specialising in landscape architecture and urban design (Aspect Studios 2020), and funded by the State Government of South Australia, the park was planned and designed as a hub of community interaction, a place for recreation and an opportunity to take a break from city life. The design of Pelzer Park/Pityarilla (Park 19) (Figure 1-2 and Figure 1-3) included a central plaza, community courts, play space, Aboriginal cultural meeting space, dog park, promenade, bikeway, shared-use paths, lighting, public artwork, public toilets, realignment of the creek line and 14,500 new plants.



Figure 1-4: Pelzer Park/Pityarilla (Park 19) Kaurna smoking ceremony. (Image courtesy of City of Adelaide 2018)



Figure 1-5: Pelzer Park/Pityarilla (Park 19) ribbon cutting. (Image courtesy of City of Adelaide 2018)

To celebrate the reopening of Pelzer Park/Pityarilla (Park 19), the City of Adelaide held a free community event. The reopening was celebrated with live music, face painting, food trucks, a Kaurna (traditional Aboriginal owners) Welcome to Country (Figure 1-4) and an official opening by the former Lord Mayor of Adelaide, Martin Haese, and the former Minister for Planning, Stephan Knoll MP (Figure 1-5). During the event, over 600 people visited the park for one to three hours. The opening was considered a success by the City of Adelaide, attracting media coverage by local network television stations, radio stations, print media and numerous play space blogs.

There are many logistical requirements for staging an open-air event such as the Pelzer Park/Pityarilla (Park 19) Activity Hub opening. The minimum requirements set out by the City of Adelaide's (2020) *Adelaide Park Lands Events Management Plan 2016–2020* typically include fencing, signage (regulatory and wayfinding), security and the provision of additional temporary public toilets, seating and bins. In this case, the logistical requirements were complicated since the City of Adelaide aimed to maintain access to all users, irrespective of whether they were attending the opening, using the bikeway, visiting the dog park or accessing the community courts. As a result, the event was unfenced. The City of Adelaide events team was required by their own guidelines, as set out in the *Adelaide Park Lands Events Management Plan 2016–2020* (City of Adelaide 2020), to place signage in key pedestrian areas leading to the event space, warning users that an event was taking place (Figure 1-1). Additional warning signage was placed throughout the park, stating that a photographer would be present and photos would be taken.

The event signage in Pelzer Park/Pityarilla (Park 19) is not an anomaly. Similar signage can be found throughout central business districts including Adelaide (Figure 1-6 and Chapter Eight) and Melbourne, Australia (Figure 1-7), Tokyo and Kyoto, Japan (Figure 1-8), Shanghai, China (Figure 1-9) and Vancouver, Canada (Figure 1-10). The signage appears in different types of urban public spaces including laneways, city squares, playgrounds, gardens, public parks, train stations, riverbanks and streetscapes. These examples represent warning and regulatory signage found in a small cross-section of public spaces. The selection suggests there is an interrelationship between the public, the intentional activation of the public space (events) and the expectation for public space to perform differently throughout the day or the year. Therefore, events—even public ones—might be considered threats to expected public rights of access. The Pelzer Park/Pityarilla (Park 19) example and the examples shown in Figure 1-6 to Figure 1-10 are indicative of the current contestation of public space where temporary and permanent users are subject to varying degrees of access, surveillance, instruction and control, where the expected right to public space is taken for granted.

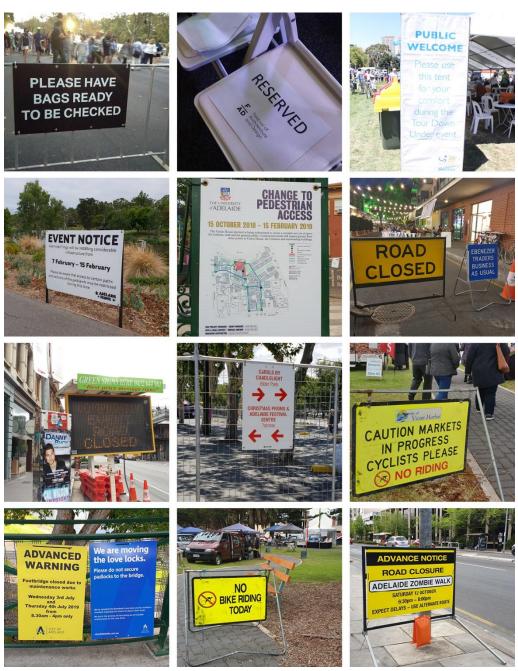


Figure 1-6: Examples of signage in Adelaide's public spaces.
(Photos by author 2008–2019)



Figure 1-7: Examples of signage in Melbourne's public spaces. (Photos by author 2014–2018)







Figure 1-8: Examples of signage in Japan's public spaces. (Photos by author 2017–2019)







Figure 1-9: Examples of signage in Century Park, Shanghai, China. (Photos by author 2013)





Figure 1-10: Examples of signage in Vancouver, Canada's public spaces. (Photos by author 2019)

The contest and expected right to public space are further evident in the wider context of Adelaide, South Australia, and the 1837 city plan set out by Colonel William Light (Figure 1-11 and Chapter Eight). Of significance in the city plan is the 7.6 km² of Park Lands and six city squares, which were dedicated for the provision of public space. The plan received national heritage status (National Heritage List Place ID: 105758) in 2008 because of the grid layout of the city, which is a rare and complete exemplar of 19th century colonial planning, reflecting early theories and ideas of the Garden City movement (Adelaide City Council 2015; Australian Government Department of the Environment 2015; DASH Architects 2018; Summerling 2011).

The use of and ownership of the Park Lands has been contentious since the 1870s, with calls to preserve the public space and statements such as 'hands off' continually being raised (Morton 1996, p. 147) in the face of private development encouraged by the state government. In the 1800s, the calls were

from the city council, which sought and received 'care, control and management' of the Park Lands through the Municipal Corporation Act in 1849. The Act was revised in 1928 to manage competing uses and prevent private development. Prior to 1928, key institutions such as the West Terrace Cemetery, Adelaide Zoo, Adelaide Festival Theatre, Adelaide Railway Station, Royal Adelaide Hospital, Government House, Adelaide University and Adelaide Botanic Gardens were established on Park Lands. Since 1928, the public status of 'Park Lands' has been retained by issuing and managing private restrictive leases for sporting clubs and commercial vendors for events.

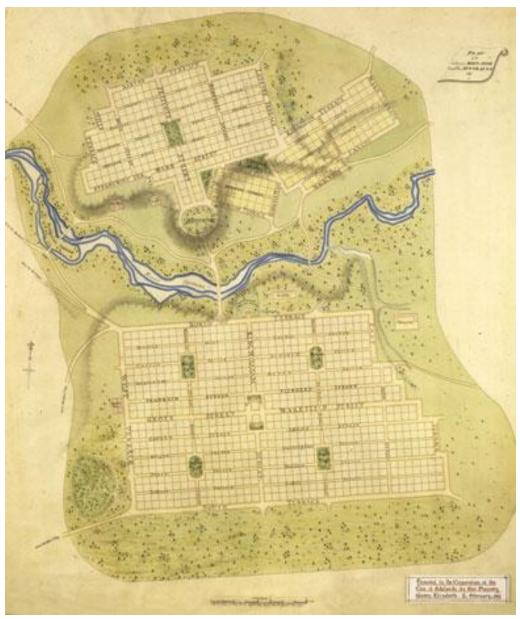


Figure 1-11: Original 1837 plan of the City of Adelaide. (Image courtesy of Department of the Environment, Water, Heritage and the Arts)

The 'hands off' call is now spearheaded by the Adelaide Park Lands Preservation Association (APPA 2020), which objects to privatisation, commercialisation and the fencing in of the Park Lands other than for short-term events. Its concern parallels the City of Adelaide's from 1928; however, it is now directed at the City, which is seen to be privatising the Park Lands for commercial use. The City of Adelaide sought public feedback in 2019 regarding the number of events taking place in the Park Lands and whether the number of events should be increased. The outcomes of this engagement noted the importance of striking 'a balance between supporting events in the Park Lands and on roads as well as the needs and wellbeing of City residents and businesses' (City of Adelaide 2019), thereby balancing the magnet and menace, so to speak.

The contentious use of the Park Lands since the 1870s is comparable to the concerns of many Western democratic cities (Mitchell 1995; Parkinson 2009). Again, this brings us to the question, how public is public space? when events are commonplace with a historic record of varying access, surveillance, instruction and control. Interestingly, events that temporarily privatise public space have received little scholarly attention (see Smith 2018), compared with permanent threats. Yet, temporarily privatised public space significantly influences how public spaces are used and appreciated.

While private land or commercial development is clearly demarcated and zoned, the boundary with public space is increasingly ambiguous. Privatisation of public space is not always a fixed, measurable effect of built interventions. It is increasingly layered and structured in varying degrees of subtle or overt demonstrations of use, ownership and management. For instance, events (temporary activation and private-social exchange) that regularly occur as part of everyday life are often overlooked or misinterpreted as privatisation by being linked to legal ownership and management. Privatisation in these instances may be a once-off private event, for example, lectures (Figure 1-12), a child's birthday party in a playground or a public protest (Figure 1-13). Alternatively, these events could be programmed to take place on a regular schedule for an extended period of time such as fashion weeks, royal shows, circuses, food trucks, tours such as street art walking tours (Figure 1-14) or street closures for outdoor dining (Figure 1-15). Within this thesis, privatisation includes private or public activation of public space that excludes the user or alters how the space is expected to function.



Figure 1-12: Australian Institute of Landscape Architects, South Australian Chapter, open-air lecture by Lawn Solutions, held in the South Park Lands, Adelaide. (Photo by author 2017)

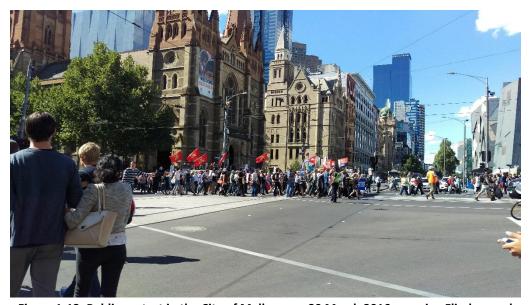


Figure 1-13: Public protest in the City of Melbourne, 20 March 2016, crossing Flinders and Swanston Street intersection to Federation Square. The protest in support of refugees blocked traffic and disrupted pedestrian access to civic institutions and commercial businesses. The protest was closely monitored by police. (Photo by author 2016)



Figure 1-14: Street Art & Craft Beer Tour, run by Toonie Tours Vancouver, explores the back streets of Vancouver, promoting street art and local breweries. (Photo by author 2019)



Figure 1-15: Example of an ephemeral public space. During set timeframes this street in Tokyo, Japan, is closed to vehicle traffic and becomes an outdoor dining area.

(Photo by author 2017)



Figure 1-16: Advance notice of events and restriction of park use. (Photo by author 2019)

The simultaneous offering of public and private activities, before, during and after events, requires further in-depth discussion (Figure 1-16). Debates are typically founded on a polarised representation of space as being publicly and freely accessible or a private commodity (Hayward 2016 in De Backer et al. 2016; Raymen 2016). This was evident at the 2019 International Festival of Landscape Architecture, which adopted the public space typologies of the Square and the Park to explore how landscape architects conceive, design, fund, construct and manage urban open space. Swiss designer Günther Vogt, North American academic and critic Julia Czerniak and South Korean academic and designer Kyung-Jin Zoh's critical reflections of urban space alluded to the 'slippery' concept and simultaneous offerings of public space. Yet, the language throughout their presentations was decisive, placing urban open space in one of two conditions—public or private (Australian Institute of Landscape Architects [AILA] 2019).

Debates about public space are located in disciplines that range from practical applications in surveillance or the policing of public space in metropolitan areas (architecture, criminology, political geography, law, political theory) to questions of policy and governance (planning, urban planning, urban design, geography, new urbanism, sociology), to debates regarding the social and health benefits of exposure to green space (anthropology, social anthropology, environmental psychology, planning, psychology, social science, political sciences, health science), to the characteristics and accessibility of public space (landscape architecture, architecture, political geography). These findings are examined at length in this dissertation. Key themes explored include representations of public space as a fragmented area of dysfunction, exclusion, authority and control (Davis 1992; Harvey 1992; Iveson 1998, 2003, 2007; Houssay-Holzschuch 2016 in De Backer et al. 2016; Mitchell 1995); a space that is eroded for commercial and security interests (De Backer et al. 2016); and the diminishing social life of public space (Gaffikin et al. 2010).

This dissertation demonstrates that there is a significant body of literature that demonises the temporary privatisation of public space and laments the future of public space. Such studies are predicated on the value of public space as a necessary site of social exchange, whereby public space is an integral and inescapable dimension of civic and civilised life, lending identity and meaning to our experiences (Alexander 1979; Canter 1977; Charlesworth 2005; Daniere & Douglass 2009; Dempsey 2008; Frumkin 2002, 2003; Jayne et al. 2006; Kıvanç Ak 2013; Matsuoka & Kaplan 2008; Norberg-Schulz 1980; Ortega 2004; Relph 1976, 1981, 1993; Sotoudehnia & Comber 2011; Tuan 1974). The thesis then questions whether predominant appreciations of such temporary, exclusionary occupations of public space are as damaging to the bigger picture of their publicness as is supposed.

1.2 Research questions

Concerns for the use and role of public space coincide with the researcher's professional experience as a landscape architect working in the public realm within local government. The City of Adelaide offers an opportune laboratory to investigate these concerns, given the history of its city plan and its recognition internationally. Both scholarly and professional perspectives have led to the formulation of research questions, which provide direction for the thesis.

The main research question is:

• Do temporary events pose a threat to public space and, if so, how can landscape architects assess these spaces for effective design?

The following hypothesis has been developed:

This study identifies interdisciplinary concerns about public space and perceived conflicts between public space and the private use of this space. Events are an example of such use. This is significant for landscape architects and the role they play in the design of public space. Interrogation of the concept of the public is critical for an awareness and understanding of a perceived erosion of publicness. Current design theory is inadequate in capturing the range of publics—the typologies identified in this thesis—who use public spaces. This identification of publics (in the plural) is necessary to make assessments about publicness. The increasing presence of diverse publics is inversely proportional to levels of privatisation. Current methodologies, techniques and tools used by landscape architects to assess public space are inadequate to capture this range of publics and assess the value of events in increasing the publicness of public space.

To investigate this hypothesis, five subsidiary research questions are defined.

- How public is public space?
- Is there a blurring of public and private space and what consequences does this have?
- How do temporary events affect the use of public space?
- What are the implications of temporary events for the effective design of urban public space?
- What analytical methods, techniques and tools are missing in the design of public spaces?

1.3 Aims and method

This study navigates between theory and practice to investigate contemporary understandings of publicness, dominant and polarised views of how the 'public' and 'private' operate in the public realm, the impacts of events and the role of landscape architects to better assess and design urban public space. The research questions are examined through a multidisciplinary literature review (theory) and physical site analysis (practice).

The thesis approach is a practice-based research paradigm using descriptive methods. The paradigm was developed as an iterative research framework in which data collection, interpretation and analysis are informed by the literature review (Figure 1-17). The framework and area of research required staged reflection and analysis, as queries and insights were uncovered.

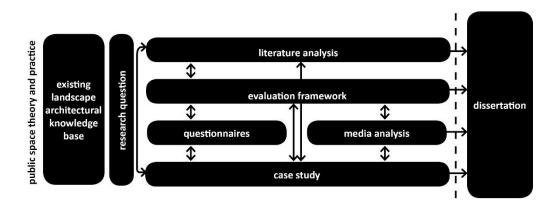


Figure 1-17: Iterative research framework

The Iterative Research Framework is underpinned by a number of assumptions:

- People relate to their environments and therefore, influence how their environments are used;
- Theories in the field of the built environment are not objective and should be considered as providing a set of general principles (Allmendinger 2002); and
- Adelaide, South Australia, Australia, is an appropriate case study. Adelaide is an international standard benchmark because of its historical and contemporary patterns of planning, governance and the City of Adelaide's ongoing dedication to the provision of public space. The city is recognised internationally for its arts festivals and events that are staged in public spaces.

The goal of the research is to expand the practice and theory of landscape architecture by:

 challenging notions of privatisation that are linked solely to ownership, management, use and accessibility;

- presenting a spectrum of uses that challenge notions of privatisation, particularly with regard to the exclusivity of events;
- examining the diverse groups that use public space and defining a typology of publics; and
- identifying the responsibility of landscape architects to design public spaces for a diverse spectrum of use. This responsibility is particularly important within agencies driven by market privatisation and economic rationalism.

Taking into consideration these assumptions, the study addresses the research questions through an analysis of current theory and a rigorous examination of 16 public spaces throughout Adelaide, recording people, site and weather conditions across various times of day and night, on weekdays and weekends. The following are considered:

- analysing current practice and theories pertaining to public space and critically examining their application or lack of application in the discipline of landscape architecture;
- examining the range of publics who use public space and proposing a new typology of publics;
- analysing current methods, techniques and tools used to assess and evaluate public space and proposing a new design assessment framework;
- investigating, documenting and comparing the use of public spaces in Adelaide, South Australia; and
- investigating the varied forms of events within public space and the associated implications for landscape architects.

1.4 Contribution

The example of Pelzer Park/Pityarilla (Figure 1-1 to Figure 1-5) and the examples shown in Figure 1-6 to Figure 1-16 immediately highlights the disciplinary focus of this dissertation in the profession of landscape architecture. Landscape architects have long been recognised for their contributions to public space design. This recognition can be traced in part to the influential work of Frederick Law Olmsted, widely regarded as the founder of American landscape architecture (Schnadelbach 2001 in Cooper & Palmer 2001), for his contribution to the design of metropolitan public parks, including Central Park in New York City, in collaboration with Calvert Vaux.

Landscape architecture is a professional discipline that focuses on the spatial design of built environments to enhance the amenity and ambience of place (AILA n.d.; Federation of German Landscape Architects [BDLA] n.d.; International Federation of Landscape Architects [IFLA] World n.d.) through the

manipulation of objects on the land and the 'creation of unique spaces' (Cook 2000, p. 23). Landscape architecture appropriates and shares theories, methodologies and frameworks with other disciplines, primarily architecture, urban planning and urban design as well as the bio-physical sciences of ecology and geography and the human sciences of sociology, psychology and anthropology. As a discipline, it is not bound to one type of place, one environment, one specialisation nor is it tied to specific cities and sites. As a profession, it is responsible for interventions—from small domestic gardens to large-scale infrastructure projects, theoretical works and cultural constructs, from the local level to global strategies (Desimini 2014; Meyer 2011, para. 6).

The difference between landscape architecture and other disciplines is evident in the approach to design. Conventional landscape architectural approaches are predominantly process-based understandings of space that conceptualise the relationship between spaces and contexts over an extended period (Balassiano 2013; Cook 2000; Desimini 2014; Dung 2009; Meyer 2011). A typical approach is 'from a physical perspective' and involves a formal intervention based on 'social necessity' (Balassiano 2013, p. 491), considering the spatial nature of the site (Cook 2000; Cooper Marcus & Francis 1998; Gaffikin et al. 2010; Gehl 2001) and balancing the conflicting interests of clients and users. Planner Katia Balassiano (2013, p. 492) argues that the various means to 'circumscribe uses' and methods to establish any 'alternative uses' for sustaining spaces for the public lie within the remit of landscape architecture. Desimini (2014) further elaborates on the role of landscape architects compared with other disciplines. While her statements are related to shrinking cities, they are applicable to all landscapes:

They [landscape architects] recognize value in the abundant, cleared land; are comfortable with the slow process of its transformation; understand land management and maintenance as tools of design; and routinely operate across the multiple scales, from parcel to region, required for visionary restructuring. (Desimini 2014, p. 17)

The diverse roles that landscape architects can play distinguish them from others working with public space. 'Landscape architects work for planning consultancies, for companies in the gardening and landscape industry, for government agencies and for local governments in public works and parks departments, water authorities or nature conservation bodies' (IFLA World n.d, para. 2). 'They plan the design of all types of [open] green and external spaces; they supervise the construction and implementation of projects and ensure their long-term maintenance' (BDLA n.d, para. 2). 'Landscape Architects research, plan, design and advise on the stewardship, conservation and sustainability of development of the environment and spaces, both within and beyond the built environment' (AILA n.d.a, para. 9). The diverse professional

roles of landscape architects are again reflected in Olmsted's role in the design, management and fundraising for Central Park. His role is still representative of a landscape architect's, and highlights the importance of how landscape architects are trained to recognise the place, understand its history and contribute to placemaking. Similarly, Olmsted's role underscores the importance of landscape architects in negotiating with diverse stakeholders, often with competing interests and priorities.

Another continuing professional trend, starting with Olmsted, is the presence of landscape architects in the public sector, working for federal, state or local governments, designing public spaces or engaging and managing private practitioners. In Australia, the roles are diverse; '25% of landscape architects are self-employed, another 20% work for government and the rest tend to be in private practices' (AILA n.d.b, para. 7).

The professional role of a landscape architect influences how they approach or research public space. An individual's role is of particular importance for South Australia, given the size of the profession and a landscape architect's ability to directly effect positive outcomes for public spaces. In September 2019, there were 300 landscape architects working in South Australia. One hundred of those were registered with AILA and 26 of those registered members worked in local or state government sectors. The position of these landscape architects in local or state government offers them considerable influence in shaping Adelaide through developing institutional briefs and regulatory planning instruments or creating strategic directions, setting style guides or design principles and finally, advocating for better design. As identified in a study conducted by the Centre for Urban Design and Mental Health (2019), institutional briefs are of concern for many design practitioners, with shortfalls in the brief creating barriers to achieving optimal outcomes. The study highlighted the importance that practitioners placed on their involvement in developing briefs and therefore being considered 'as relevant contributors to a problem solution from the beginning of a project' (2019, n.p.).

How landscape architects identify public space has been influenced by other design professions and disciplines. Their approach to the design and planning of public space is based on the shared views of public benefit and public interest (AILA n.d.; BDLA n.d.; IFLA World n.d.). Yet, some authors, including landscape architect Kevin Thwaites (2001, p. 245), argue that in the decision-making process, landscape architects may not give public space 'the level of attention' and importance required'; consequently, he asks landscape architects to draw from 'environmental psychology' to address users' perceptions of space. Within these discussions, the voice and contribution of landscape architecture is largely lost, which landscape architect Jill Desimini suggests 'stems from both an alternative, cyclical reading of the urban condition within the discipline and

a failure to develop theory and practice specific to different political, economic and demographic situations' (2014, p. 17). This lack of attention and lost voice is of importance and may result from a disconnect between place context and use and the professional roles of landscape architects.

As a Fellow of the Australian Institute of Landscape Architects and practising senior landscape architect who has worked in local government and private practice, the researcher's personal experience suggests there is a distinct difference between how landscape architects in government and those in private practice approach public space. This difference is that landscape architects in government play multiple roles, including client, designer and asset owner. As the asset owner, they also have greater experience and willingness to acknowledge the temporal nature of activities and users by considering the landscape as an asset with a lifespan of 10 to 50 years.

To further understand the challenges of public space, we must also understand the complexity that landscape architects face when designing spaces that are open to 'public scrutiny' (Busquest 2005 in Charlesworth 2005, p. 5) and shifting priorities for use. The complexity demonstrated throughout this thesis is related to the 'city and its inherent contradictions' (Charlesworth 2005, p. 3) of access and rights of access, in particular the inclusion of different members of the public. Inclusion is fundamental to public space and the 'name of the game' according to architect Charles Jencks (in Gaventa 2006, p. 9). How then is this discipline informed by interdisciplinary discourse, which problematises public space? And what insights can a study that draws on such interdisciplinary perspectives offer for the improved professional design of public space? To what degree can these perspectives inform professional understanding of the complex interrelationships between the public (users of space), events (the various means to activate public space) and the expected performance of public space (a potential site of social interaction or exchange)? These are the concerns of this thesis.

This thesis extends the discourse of contemporary landscape architectural design practice by examining the role landscape architecture plays in the design of public space, social constructs of place and the governance of space. By proposing an approach that contemplates the temporary activation of public space events as a positive outcome of urban liveliness questioning perceptions of public space privatisation, it contributes to the discourse of contemporary landscape architectural design practice in local government and private practice. Or as landscape architect Greg Grabasch proposed, research and design within our expanding profession 'is up to us, as practitioners' and our profession can lead by example 'educating and raising the public expectation of 'landscape', including how it can encompass the broader term, 'place'' (AILA n.d.a para 2). The role of landscape architects is examined in the following

chapters by questioning how they can produce new knowledge and effect social change through the applied rethinking of physical space.

As highlighted above, landscape architects play a leading role in the design of public space in the city. Landscape architects have a responsibility to improve the quality of public space. They are in a good position to do so, yet they need to be equipped with an understanding of who the public is and *how public is public space*.

The study devises and proposes a Design Assessment Framework as a starting point for landscape architects to generate analysis-driven, inclusive designed environments. The Design Assessment Framework provides an integrated methodological approach to measure public spaces pre- and post-design and to inform practice. The thesis highlights how assessments of public space are hindered by methods, techniques and tools that tend to overlook events and temporary activation. The assessment of public space must take into consideration more than just the physical space and consider the connections between spaces, users (public), activities and changing attitudes towards space. To demonstrate the requirement of an assessment that enables awareness of public space connections, the study recommends integrating interdisciplinary methods, techniques and tools.

This thesis contributes to debates about public space through a review of multidisciplinary positions that are brought to bear on the discipline of landscape architecture, a people focused discipline, through the literature review, detailed analysis of different publics and the development of a design assessment framework. This framework is tested in an analysis of public spaces in the ideal urban laboratory of Adelaide, with its considerable history as a planned city with generous provision of public space. The healthy contemporary debate and activation of Adelaide's public spaces provides rich data to propose the future of public space design.

1.5 Scope and structure

This thesis is divided into two parts. Part A identifies the historic trajectory of urban public space development, which culminated in a broad establishment of 20th century forms and programs and the theories that support them. The thesis illustrates these with reference to planned 20th century contemporary Western democratic cities recognised for their provision of public space. The efficacy of current theoretical critiques is then reviewed. A focus is placed on Australia for pragmatic reasons, and Adelaide in particular, which provided a useful laboratory to test the study hypothesis.

The effects of temporary events on public space are outlined, drawing on an extensive review of literature on the urban environment. Challenges facing designers are assessed while considering change in contemporary public life not as lamentable, but as a series of new challenges from a range of disciplinary viewpoints, including urban planning, planning, sociology, anthropology, political geography and political science.

Part A continues by exploring scholarship that seeks to mitigate the perceived and actual erosion of public space, noting how solutions can become new problems. A new typology of publics—the defined public, the appropriating public, the transitory public and the illegitimate public—is proposed to better grasp the range of contemporary theoretical and disciplinary perspectives on threats to public space. It concludes by questioning contemporary agreements on terminology, meaning and the received need for public spaces.

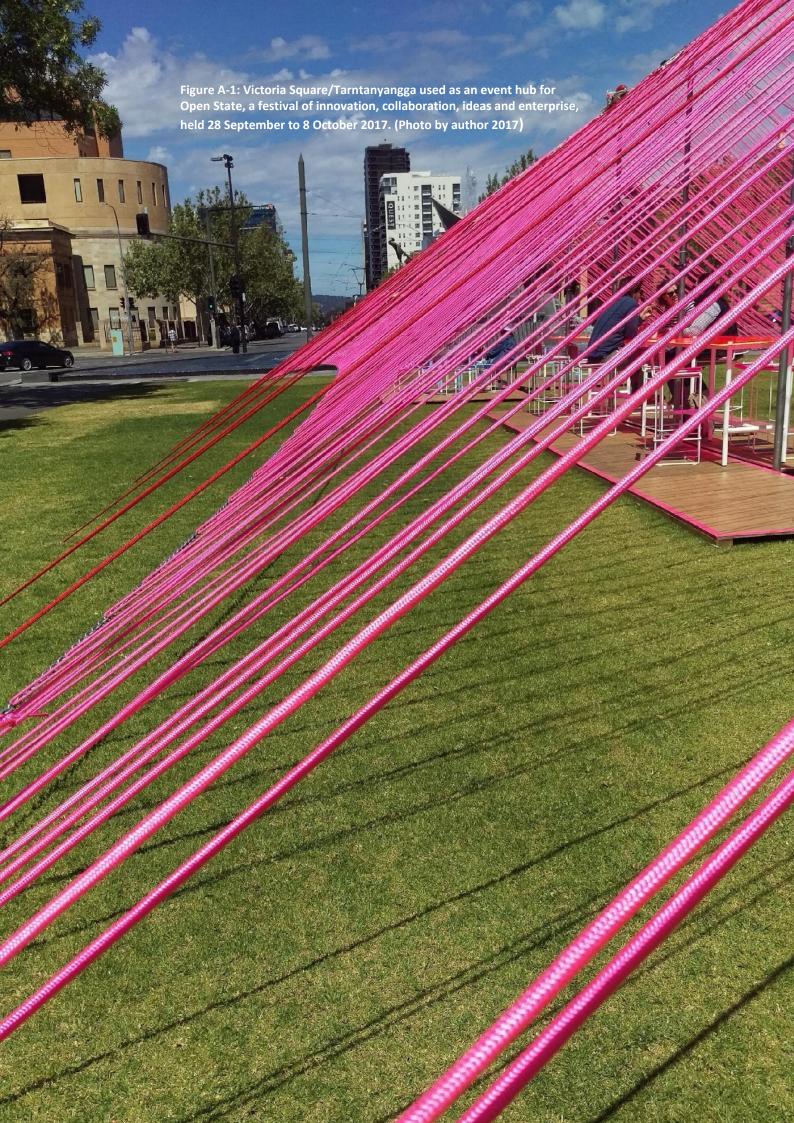
Part B critically reviews existing assessment methods, techniques and tools regarding their relevance and application in landscape architecture. It asks if the current methods, techniques and tools used by landscape architects to assess and minimise the erosion of public space are adequate to capture the range of publics and the degree of publicness in public space. This review highlights a practical need for insights into how public space functions and is activated by social activities and events that temporarily or actively exclude certain publics, informed by reliable data allowing predictions of user demand. This need emphasises that landscape architects are currently lacking a clear framework that can assist specifically with setting parameters for crafting design approaches for temporary events in public urban spaces. To assess public space and associated contemporary publics, Part B recommends modifications and a reconfiguration of a range of existing methods, tools and techniques, proposing an integrated approach: the Design Assessment Framework. Using the Design Assessment Framework can generate a unique database of public space measurements that considers how forms of privatisation are responsible for the performative value (accessibility) of public space and how this might then be used to inform designs that ensure new means of social exchange (access and equity).

The Design Assessment Framework is demonstrated in the context of Adelaide, recognised internationally for its urban plan, which included a generous provision of public space. Adelaide's public spaces are analysed to identify the role that landscape architects could play in designing public spaces. This is followed by a discussion of how the research contributes to more nuanced and relevant decision-making by design professionals.

This study concludes that much of current design theory inadequately appreciates the range of publics within public spaces, consequently offering generalised assumptions and models of successful public space. This thesis does not propose an overarching design solution for all public spaces, nor does it conclude that publicly accessible spaces should always be public. Rather, it asks how can landscape architects assess the publicness of public spaces for effective design? And, should we be warned about the patron? Few authors—or designers, for that matter—are asking these questions when considering the public and their relationship to public space. To ask and answer these questions, the thesis proposes that landscape architects should assess the performative value (accessibility) of public space to understand the relationship between private and public use of space. The thesis is motivated by the need for a more rigorous assessment of public space and the influence of various forms of exclusion.

The thesis offers an important and timely counter point to the majority voice that laments the future of public space research. The thesis offers a new typology of publics and a Design Assessment Framework to inform and generate designed environments for contemporary evolving publics.

Part A Defining public space



Part A examines the concepts of 'public space' and 'public', which are highly contested and loaded with social expectations and prejudices.

Chapter Two explores the complexities of 'public space' through an examination of how public space is contested, its significance and its varied definitions. Chapter Three continues with a categorisation of five different types of public space, historically, which have held significance for different publics in different urban contexts. The categories are illustrated with reference to planned Western democratic cities recognised not just for the provision of public space but also for their high-quality design.

Chapter Four reviews literature, which presents an erosion of public space. The effects of this erosion are examined, drawing on an extensive review of literature focusing on the urban environment. Emphasis is placed on activities that are perceived to erode public accessibility and social exchange, have an observable influence on the use of public space or result in public spaces being considered hostile to public activity. The chapter also identifies the challenges facing designers based on this review of disciplinary viewpoints, including urban planning, planning, sociology, anthropology, political geography and political science.

Chapter Five proposes a new typology of publics to counter the homogenous notions of 'public' and 'private' that pervade the disciplines of landscape architecture and urban design. The new typology of publics—the defined public, the appropriating public, the transitory public and the illegitimate public—is proposed to better grasp the range of contemporary theoretical and disciplinary perspectives that identify threats to public space. This new typology of publics enables the analysis and discussion of specific case studies in Part B.

Chapter Two
Urban public space:
Definitions



2.1 A contested space

The definitions used by the authors have considerable differences and cause one to question whether what one author considers public space would be considered so by the other author.

Jan Gehl & Anne Matan 2009, p. 107.

Definitions of public space as a spatial and physical asset in the city are proffered in a wide range of disciplines. Such definitions are important to determine how urban society has divided social life into various spheres of activity and to determine how current public and private spheres adjoin and overlap. As Gehl and Matan (2009) maintain, there are considerable differences in definitions in these disciplines. Talen (2000) argues that public space is complex and difficult to define. This chapter examines how the notion of *public* space emerges as a highly contested concept, hampered by a simplistic nature-culture binary vocabulary (Walliss 2012) which is not as encompassing as assumed, in a wide range of disciplines, including landscape architecture and urban design.

From the ancient agora in Athens to Central Park in New York City or Federation Square in Melbourne, people throughout history have been drawn to the square and the common for social exchange and interaction (Balassiano 2013; Charlesworth 2005; Cybriwsky 1999; Kostof 1991; Lefebvre 1974; Low & Smith 2006; Thwaites 2001; Tuan 1979; Varnelis & Friedberg 2008; Whyte 1980; Young 1990). These conventional ideals of public space, hard and softscape, play an important role in creating opportunities for social interaction, which has a wider effect on the health of cities, which in turn are 'a grand collaboration involving many players and forces' (6° Urban 2013, p. 8). At the same time, these complexities add to the difficulty of pinning down a definition of public space. These three public spaces, examined below, are generally considered preeminent examples of democratic spaces accessible to all, yet, the Athenian democracy was not all encompassing, Central Park was created at the expense and exclusion of the residents of Seneca Village and further crowded with private institutions and Federation Square is a magnet for corporate, commercial and institutional entities' private events, and is routinely fenced off. Accessibility is rarely universal and these examples immediately trigger considerations about the contest for public space, which troubles any assumptions about the 'public' and, in turn, 'public' space.

Athens is considered the birthplace of democracy (Fleck & Hanssen 2006) and its *agora* offers an important precedent for urban public space, both in antiquity and in neo-classical experiments from the Renaissance to the Enlightenment (acknowledging the many and varied hurdles to citizenship

during these different epochs). However, it is Olmsted's vision for Central Park and his seminal role in the profession of landscape architecture that is most widely celebrated in this discipline, notably, his creation of an urban public space, specifically a city park (acknowledging, again, British forerunners such as Birkenhead Park in Liverpool). Central Park was conceived as a democratic place for city dwellers to thrive, to find respite and as a place of moral improvement—an antidote to the widespread criminality and depravity of New York's slums, poignantly immortalised in the photography of Jacob Riis. The design is a demonstration of Olmsted's belief that parks should be 'a meeting ground for citizens' (Olmsted 1995, p. 48), providing benefits to the poor and the rich alike where 'all classes would meet and mix' (p. 49). According to Carol J. Nicholson, Professor of Philosophy, Olmsted maintained that 'nature is a civilizing force' with the power to 'democratize a society', attitudes that were 'the primary inspiration for his work on Central Park' (Nicholson 2004, p. 337). The project was hailed as 'revolutionary in a social response, power and control, in layout and organisation and emotional content' (Schnadelbach 2001 in Cooper & Palmer 2001, p. 123).

Yet, the original inhabitants of Seneca Village (1825-1857), comprising predominantly African-Americans as well as Irish and German immigrants, were effectively evicted from the site under the banner of eminent domain. From the outset, Central Park was home to private event spaces and institutions. While Olmsted was concerned about proposals for advertising displays, restaurants, steeple chases and circuses, which would ruin the landscape experience (Olmsted 1995, p. 51), critics today decry Fashion Week, protests, further private development or ticketed events to exclude the public and compromise this public space, and not least, exclusive events, such as the 2018 Ralph Lauren 50th Anniversary Celebration held near the iconic Bethesda Fountain (Figure 2-2). The formal design language of the fountain itself was against Olmsted's design sensibility and desire to create a rural space in the city. The Ralph Lauren event also contradicted all Olmsted stood for when designing this park. His concerns about commercial encroachments on urban public space also spurred his petitions for the protection of wilderness areas like Yosemite or Niagara Falls (Cooper & Palmer 2001; Nicholson 2004; Rybczynski 1999).

Federation Square (Figure 2-3), which hosts numerous free public events, is an award-winning civic space, celebrated as Melbourne's public square, symbolic of a pluralistic democracy (Carter 2005; Gilson 2018). The space is highly monitored by security and heavily programmed by Fed Square (appointed management team), who work closely with the Victorian State Government and Melbourne City Council. The community's expectation of the Square as a democratic public space has been sorely tested since its inception, with

numerous proposals for high-profile commercial development. The most recent was the 2018 Apple flagship store proposal, which many interpreted as the State privatising the square for commercial gain (Gilson 2018; Heritage Council of Victoria 2019; Lucas 2019). This proposal represents a global trend whereby commercial enterprises, like Mix 102.3 (Figure 2-1), Samsung, Starbucks or Marvel, market or seek to capitalise on the prominence of public spaces to increase foot traffic (Raco 1993; Sircus 2001). The character and form of marketed public spaces create a particular desirable vision of social life (Cybriwsky 1999; Zukin 1995) linked to the social image (further discussed in Chapter Four).



Figure 2-2: Bethesda Fountain, Central Park, in early spring. (Photo courtesy of Matt Gaetjens 2018)



Figure 2-3: Federation Square subtle activation activity. (Photo by author 2019)

Following Apple's proposal for Federation Square, outrage and debate ensued. The public, critics and design professionals lamented the commercialisation of the square, loss of heritage and loss of 'cultural and creative tenancy' (Citizens

for Melbourne in Gilson 2018). These concerns were played out in the media in three stages.

First, Apple was challenged regarding its relevance for the public of Melbourne. Second, the management, maintenance and financial woes of public spaces were presented as a reason to accept Apple into the square. Donald Bates, from the Office of the Victorian Government Architect and Federation Square's coarchitect, supported the move to ensure the ongoing operation of the square for the people (Gilson 2018). Last, the debate turned to the use of the square. Bates argued that activation of the square by events was required to keep the square alive, while Dr Robin Canniford, senior lecturer in Management and Marketing (in Gilson 2018) disagreed, stating dead space 'is space in which to create; to move freely without any outside influences or psychological prompts from brands'. Other stakeholders, such as the Citizens for Melbourne, were concerned that increased visitors to a commercial enterprise would have a negative impact on established community use, thereby undermining Federation Square's civic focus (Foreground 2019).

The proposal was withdrawn (ABC News 2019; Lucas 2019). By April 2019, Federation Square was heritage listed to protect the space from similar commercial developments because the square was considered 'significant as a notable example of a public square. It is highly intact and its size, civic prominence and design illustrate the principal characteristics of a public square' (Heritage Council of Victoria 2019). Throughout this decision-making process, public access and the rights of the public (explored further in Chapter Four) to the square were at the forefront of the debate about this public space, as was the goal of private enterprise to capitalise on the critical mass of people who use Federation Square.

These three spaces—the Athenian agora, Central Park and Federation Square—introduce the contest for public space and signpost concerns about the public's right of access to public space. This contest is further complicated by the changing relationship between public and private spaces. This relationship has shifted historically, with emphasis moving from private domains to public spaces in the 18th century, particularly in London and Paris (Krupa 1993) during the Enlightenment. This shift in emphasis is linked to a desire to exert control over the external world; it can also be attributed to a person's perceptual attitude to public space (Cosgrove 1984; Mitchell 1995). A personal level of control also influences how a space is appreciated and described, and this is intimately linked to an individual's anticipation of what might happen there, which further complicates the delineation between public and private space.

Definitions of private and public space are neither fixed nor mutually exclusive (Relph 1976). Definitions of space need to be reconsidered in today's global

context of increasing human mobility, militarisation, corporatisation, ecological destruction and the renewed focus on cities in the context of inexorable urbanisation amplified by increasing densification. Landscape architects and architects have an ability to spatialise an ideal normative society by imposing subtle distinctions between what is private and what is public (Verschaffel 2009). Concerns have been raised in a number of disciplines because of the perception that the distinction between private and public realms is no longer self-evident and is being compromised by design and management. Additionally, as Fraser (2007) contends, such notions of private and public space are further complicated because the distinction between them is a cultural construct. Similarly, De Magalhães (2010, p. 562) proposes the following argument:

The very notion of public space as a distinct concept is itself a historical product, which came into being with the differentiation between the representative state, civil society and the market and the consolidation of modern notions of private property.

This chapter examines the difficulty of defining publicly accessible urban space. The chapter explores definitions of the terms 'public' and 'space', which variously define 'public space'. The chapter continues by outlining various types and categories of public space that have held significance for different publics in different urban conditions historically in the Western tradition. The subsequent sections of this chapter speculate on the emergence and identification of new types of public space.

2.2 Significance

Much of this debate about public space is unavoidably ideological, in the sense that it reflects broader reflections about the way we should understand cities in late capitalism and the potential for and the scope of, a politics of public space as an important component of a progressive urban politics.

Claudio De Magalhães 2010, p. 561

Access to public space plays an important role in people's lives. People throughout history have been drawn to public spaces for diverse modes of social interaction (Carter 2006; Cattell et al. 2008; Cybriwsky 1999; De Solà-Morales 1992; Goad 2002; Goodman 1992; Johnson & Walliss 2014; Kostof 1991; Németh & Schmidt 2011; Pasaogullari & Doratli 2004; Thwaites 2001; Tuan 1979; Varnelis & Friedberg 2008; Whyte 1980). Public spaces are characterised by diverse physical characteristics including size, shape, grade, materiality and orientation, as much as they are by location, ownership and

use. It can be argued that their significance lies in the way they allow people to interact in a public forum and to feel part of a community. This opportunity for interaction is important for civil non-verbal communication (Drucker & Gumpert 1998; Ellickson 1996; Madanipour 1996; Parkinson 2009) and it has been linked by urban sociologist Michael Bounds (2004) and others, to how an individual perceives public space. The ability to spatialise communication and social settings within public space is where landscape architects continue to play an important role.

There is a growing body of literature, too, which recognises the restorative qualities of public space (a case Olmsted made for city parks). The quality of public life, the role of public spaces and the benefits for mental health and physical health are discussed in medicine, social ecology, geography, environmental psychology and other health-based disciplines.

Verschaffel (2009) states that the importance of public spaces lies in their role as a stabilising force for human experience (Figure 2-4). From this perspective, public space is seen as space made through the struggle for rights, for example, by the activism of the Civil Rights Movement championed at the Washington Mall in 1963 or the protests in Tiananmen Square in 1989. The power and importance of social movements representing the struggle for rights and equality are shown by how and when they are brought into public space, recently demonstrated by the diffusion of the #metoo movement. The growing show of support for the movement against sexual abuse was clearly demonstrated by simultaneous marches in Sydney, Brisbane, Melbourne, Washington, New York, Los Angeles and hundreds of other cities across the US and the world in 2017 and 2018. The 2020 Global Strike 4 Climate is another key example of protests held throughout the world as a signal to our politicians that the public will stand up to confront the climate crisis (Figure 2-5).



Figure 2-4: Adelaide Parking Day 2013 combining protest for more public space, freedom of speech, urban regeneration and design creativity to transform vehicle-dominated spaces for one day a year. (Photo by author 2013)



Figure 2-5: Global Strike 4 Climate protest and march departing from Victoria Square/Tarntanyangga, Adelaide. (Photo courtesy of Jean McIntyre 2019)

Ironically, these same spaces can become less public because of such struggles as a particular group takes temporary control (Mitchell & Staeheli 2009) through appropriation of spaces, excluding all others and politicising public space. This stability and importance, as identified by Verschaffel (2009), is waning because of the increasing number of electronic devices, which redefine the meaning and experience of being 'someplace' (Mitchell & Staeheli 2009, p. 133). In this light, an increasing disconnection between specific places and publics stems from the rise of virtual communication and information networks. From the outset, then, it is apparent that the relationship between 'public' and 'space' is nebulous.

Nonetheless, government agencies like the Commission for Architecture and the Built Environment (CABE Space, UK) or the Integrated Design Commission (IDC, South Australia, Australia) continue to define the value of public space at the highest political echelons. While both programs have been decommissioned, in 2011 and 2012 respectively, the processes and strategies they put in place have been taken on by related government agencies and departments including the Office of Design and Architecture South Australia (ODASA). CABE Space (2004) determined that the quality of public space and the built environment has a direct bearing on people's wellbeing, concluding that the value and use of public space could be grouped under the following seven headings:

- 1. Economic Value of Public Space
- 2. Impact on Physical and Mental Health
- 3. Benefits for Children and Young People
- 4. Reduction of Crime and Fear of Crime

- 5. Social Dimension of Public Space
- 6. Movement in and Between Spaces
- 7. Value from Biodiversity and Nature.

Acknowledging these values, the creation of stronger societies and communities is seen by many as a key function of public space, closely linked to social sustainability and the governance of daily life (Sorensen et al. 2009). This relates to the notion that society needs both political and physical spaces in which to gather and flourish—an idea that is examined by Sorensen et al. (2009) with regard to Japan's social changes since the 1990s. In a similar vein, Borja (1998) argues that public space is of interest for two reasons: it allows the crisis of the city to be manifested in its emphatic forms while allowing for more pragmatic functions.

2.3 Definitions

There's a big misunderstanding of how you make public space work in the 21st century.

Professor Donald Bates 2017 in Ogden & Florance 2017

The important central role that public space plays in urban life is defended in diverse disciplines. To define 'public', the OED Online (2020) emphasises accessibility; public refers to people as a whole and belonging to a community, distinguished from private affairs in the context of business or community interests. In turn, space is acknowledged by giving space a name and a definition (Perec 1997). Such definitions are not fixed and a variety of terms has been used interchangeably by governments, disciplines (not least, within the discipline of landscape architecture), property developers and even the public.

Public space is a legal concept of property subject to regulation and administration (Borja 1998). Public space can be defined by its function, yet it is also linked to the emergence of the idea of the individual (Ortega 2004). As a result, definitions are frequently used in instinctive ways and they can be taken for granted (Varna & Tiesdell 2010), with ambiguous associations and moral connotations.

The difficulty of defining public space is further complicated when one considers the range of physical settings, as well as how these physical settings are represented in all forms of media. The definition of public space is complicated by many factors:

 There is a variety of closely related terms and phrases used to describe public space including public realm, public sphere and public domain;

- Terms are often used interchangeably;
- There are cultural differences that, considered in tandem with the phenomenon of human mobility, have further complicated the use of the terms public space and public realm;
- There is a variety of ways in which public space is presented and represented and potentially infinite variations in how it is experienced;
- There is a focus on the physical and the concrete aspects, which can and do sideline other aspects—legal, economic, political and aesthetic—that affect a public space;
- Public spaces can be perceived as static physical entities rather than sites of ideas or actions;
- There are implicit values associated with 'public spaces';
- There are different disciplinary priorities regarding the purpose and use of public spaces;
- There are different physical forms of public space catering for different uses. Neither form nor type are consistent indicators of the use of public space, its quality or its success; and
- Definitions of public space in academic literature are highly varied and extensive and government-based literature favours broad, inclusive definitions (Carmona & De Magalhães 2006; Madanipour 1996) (Table 2-1).

In the following sections, these factors will be discussed in a review of the terms employed in over 52 different disciplines by 493 authors to describe publicly accessible urban space and varied uses (Table 2-1 and Appendix 1.A). The categorisation of disciplines used throughout the thesis and in Table 2-1 demonstrates how a term is used differently in the same context.

In this thesis, public space is considered a subset of urban space, which is, in turn, one aspect or type of urban landscape. 'Public' is distinguished from 'civic', which emphasises a specifically institutional mode of occupation, such that its importance is proportional to access and rights of citizenship. Broadly, terms can be grouped around the adjective 'public', with nouns specifying common subsets, 'realm', 'domain' and 'sphere', as shown below in Figure 2-7.

The subsequent subsections provide an overview of and expand on, the interpretation of terms commonly used to define urban public space, including public realm, public sphere and public domain; emphasis is placed on English language terms with a focus on Australia, the United Kingdom and the United States.

Table 2-1: Public space terminology by discipline

Table 2-1: Public space terminology	by discipline			
	Term			
Discipline	Public	Public	Public	Public
	Space	Realm	Sphere	Domain
Urban Planning, Urban Design				
and Urban Theorists	х	X	×	х
Planning	х	х	х	х
Sociology, Urban Sociology				
Anthropology and Social				
Anthropology	х	х	X	х
Ecopsychology, Environmental				
Psychology and Psychology	х		X	х
Geography - political, social,				
cultural, human and urban	х	X	X	
Architecture	х	х	х	х
Landscape Architecture	х	х	х	х
Philosophy	x	х	х	х
Social Sciences	х	х	х	х
Political theorist, science and	х	х	х	х
politics				
Historian	х	х	х	
Writer/author/journalist	х		x	
Artist	х			
Humanities	х		х	
Designer	x			
Transport planning/engineering	x			
Cinema/media studies/film				
theory	х	х	х	
Digital media	х	х		
Open space administrator	х			
Criminology	х			
English	х	х	х	
Theorist	x			
Ecologist	x			
Architecture critic	x			
Communication/communication				
theorist	x		x	
Medicine		х		
Language studies	х	x	х	
Law	x			
Womens Studies	X		x	
Education	x		x	
Social Work			x	
New Urbanism	x			
New Orbanism	Х			

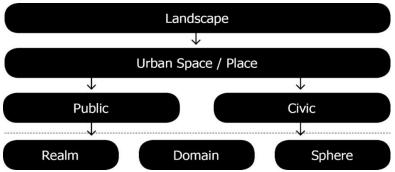


Figure 2-6: Public space terminology classification

2.4 Public space

A public place is commonly defined as a place (or space) created and maintained by public authority, accessible to all citizens for their use and enjoyment.

J.B. Jackson 1987c, p. 276

In the discipline of landscape architecture, J.B. Jackson employed the terms 'public space' and 'public place' interchangeably in his influential, ground-breaking study *The American Public Space* (1987c). Jackson identified the increasing variety of public spaces in the context of urbanisation. This variety ranged from remarkable natural spaces or educational spaces to mundane functional spaces such as parking lots. Bertolini (1999), Cattel et al. (2007), Cybriwsky (1999), Ellickson (1996), Gehl and Svarre (2013), Kurniawati (2012) and Pasaogullari and Doratli (2004) reiterate J.B. Jacksons' definition of a public place whereby—in alignment with generalist definitions of public—it is open to public use, everyone can enter, it is accessible by the public and created for the public by public representatives.

Property (physical asset)

Public space as a physical spatial property includes streets, sidewalks, parks, plazas, squares, malls, cafés, accessible interior courtyards and much more (Figure 2-7). The focus on public space as a property (physical asset) is common in design-based disciplines including Urban Design, Architecture and Landscape Architecture. Property (physical asset) and the social context are two themes that recur in scholarly discussions of public space (Borja 1998; Gaffikin et al. 2010; Goodsell 2003; Harrison 2009; Iveson 2007; Kurniawati 2012; Madanipour 2003; Németh & Schmidt 2011; Pasaogullari & Doratli 2004). Iveson (2007) identifies common public spaces as topographical models of social space with collective visible actions and as embedded public spaces, which are currently undergoing a social transformation from embodying the copresence of strangers to neo-liberal conceptions of public space. Kohn (2004) states that it is necessary to define public spaces based on their ontological attributes by considering the essential qualities that give public space its publicness (public accessibility). Low and Smith (2006) define public space based on the determination of and differentiation between access in public and private spaces by considering the nature of control over entry.

Function

The notion of public space as a site for social interaction is also proposed in works by Carr et al. (1992), Goodsell (2003) and Mitchell and Staeheli (2009) as a definition with historical lineage and legitimacy and ongoing practical application and relevance for contemporary urban life. Cattella et al. (2007),

Lofland (1998) and Whyte (1988) observe a desire for people to be around others regardless of personal connections for discourse. Ortega (2004) states that the emergence of public space is linked to the notion of the individual. This theme combines neo-liberal ideals, which emphasise the values of mainstream society (Iveson 2007), and focuses on where social and cultural rules of public behaviour are evident and public social interaction is possible. This theme encompasses the right of access for citizens, which Arendt (1958), Mitchell and Staeheli (2006) and Staeheli and Thompson (2007) view as the essence of public space as well as offering spaces for encounters. Mitchell and Staeheli's position



Figure 2-7: Examples of public space. Top left: Hindley Street, Adelaide, streetscape. (Photo by author 2014). Top right: Meiji Jingu Tokyo, Japan, public park, garden and shrine. (Photo by author 2018). Bottom left: Gardens by the Bay, Singapore, park and garden. (Photo by author 2012). Bottom right: Passeig de Gràcia, Barcelona, streetscape.

(Photo by author 2015)

is also highlighted in research by Berney (2010) on the transformation of Bogotá, Colombia, where public spaces underwent social and physical changes through the reinvention of civil society in public space.

Public space, then, emerges as a forum in which public life is acted out (De Solà-Morales 1992; Ehrenfeucht & Loukaitou-Sideris 2010; Hajer & Reijndorp 2001; Krupa 1993), where difference is encountered and negotiated (Cattel et al. 2007). The function of space as forum for social exchange is described by Hajer and Reijndorp (2001, p. 12) as 'concrete, physical experience in the presence of others, of other cultural manifestations and of the confrontation with different meanings associated with the same physical space'. Accordingly, Cattel et al. (2007) consider social cohesion in public space and the necessary social structures for community sustainability or integration. These interpretations of space have been discussed by geographers, planners and landscape architects among other disciplines.

As argued below, there is no archetypal public space (Amin 2008). Public space is difficult to characterise because of variations in scale, form or location. Public space is further defined by how people choose to use it, whether for recreation, self-expression or, as suggested by geographer Ronald A. Davidson, as an area for independent thought and expression (Davidson, 2013). The concept of public space can extend to spaces that are not strictly public regardless of ownership (Borja 1998; De Magalhães 2010; Ellin 1996) but incorporate imaginative, discursive, virtual and physical sites of trial and resistance (Burk 2003). The use of the term depends on the disciplinary or social context, given that academics, disciplines and communities all have subtle nuances inflected in the term 'public space'.

Accessibility

Landscape architect Kristine F. Millers (2007) considers that the notion of public space within design disciplines as being publicly owned and accessible does not necessarily have a basis. The notion of public space as a story of place is 'not a concrete reality but rather a tenuous condition. What we believe are its essential and enduring qualities – openness and accessibility, public ownership, and ties to democratic life – are at best temporary conditions, and more often are completely absent' (Millers 2007, p. x). The notion that public space does not reflect reality is shared by numerous authors (e.g. Carr et al. 1992; De Solà-Morales 1992; Iveson 1998; Laughlin & Johnson 2011; Massey 2005). These works consider social transformation as a key element to determine spatial use, with access at the discretion of state, landowners or other users engaged in consumption or recreation.

What is private and what is public differs in different cultural groups or nations based on changing historical conditions, traditions, perceptions and conditions

of access. For example, traditional public spaces in Japan include the grounds and gardens of temples and shrines, which have private ownership yet are perceived to be public and open to all (Figure 2-8). This may be due to the fact that these spaces were not owned or regulated by the government until the Meiji era (1868 to 1912). In contrast, spaces such as streets and parks—which in Australia are traditionally perceived as public spaces—are not referred to or perceived as public in Japan. In Japan these spaces are often labelled 'open space', a term with ambiguous connotations. For instance, Gottlieb (2010) examines language encountered within Japanese public space, arguing that it provides a barometer of social transformation. She proposes that private space can exist within public and semi-public space to highlight the shifting role of personal, private and public space.

In the United States, J.B. Jackson (1987a, 1987b, 1987c) differentiated between public and civic space, stating that not every public space is intended to be a setting for collective civic action. Civic spaces are public spaces in which people perform a particular public service or role (Gaffikin et al. 2010). Jackson argues that clear regulations and laws set aside public space for civic action, creating specialised public spaces that are not available to the majority of the public (Figure 2-9). Public space provided and maintained by the state is viewed by De Magalhães (2010) and Marne (2001) as a historically specific construct attributed to particular states, specific forms of governance and specific mediated relationships between the state and the citizens. The relationship is temporary, established and held accountable by election.



Figure 2-8: Fushimi Inari-taisha shrine, Kyoto, Japan. (Photo courtesy of Nicole Arbon 2013)



Figure 2-9: Boston Common is a central public park in downtown Boston, Massachusetts. (Photo by author 2019)

Political space

The political dimension of public space relating to rights of use and association has been apparent since the *agora*, with public space serving as sites of protests and political agenda (De Magalhães 2010; Drucker & Gumpert 1998; Iveson 1998). These include anti-war demonstrations, women's rights campaigns or the collapse of the Berlin Wall. Protests and demonstrations as a 'physical performance have an 'impressive' effect both by showing leaders that large numbers of people care about an issue and by impressing the seriousness of binding collective decision-making on participants' (Parkinson 2009, p. 112). The importance of public space as a physical arena for protest or expressions of independence is still current, with Tahrir square in Cairo (2011, 2013), Taksim Square in Istanbul (2013) or Maidan Nezalezhnosti in Kiev (2014) providing the locus for nascent democratic movements. These spaces of protest were largely precipitated through social media, yet they still present the tension of cultural diversity and ethnicity within public space.

Political agendas continue to shape public space with election promises for public space. In 2014, the South Australian state election campaign saw promises by the Labor Government to improve the Adelaide Park Lands. This election promise was meet in 2018 by the \$4.5 million spend on Pelzer Park/Pityarilla (Park 19) Activity Hub, the \$3.2 million netball court upgrade in Josie Agius Park/Wikaparntu Wirra (Park 22) and the \$6.7 million spend on Gladys Elphick Park/Narnungga (Park 25) (Figures 1-1 to 1-6 and Figure 2-10). The driver for expenditure was the creation of projects that would yield visible achievements before the next election cycle. Such examples can be multiplied

internationally. Public spaces are leveraged for political gain through promises for improved mobility and the promotion of greater interaction between different socio-economic groups. Berney (2010), among others, argues that such initiatives (when they are delivered) create more problems than solutions, with exclusion persisting.



Figure 2-10: Media call for the netball court opening at Josie Agius Park/Wikaparntu Wirra (Park 22). (Photo by author 2018)

Whether the term is used to refer to an idea or to a specific physical space, the notion of public space as a democratic social space facilitating social encounters amongst strangers is continually discussed. Advocates of democratic social space concentrate on typology, arguing that freedom of speech, of opinion, of the right to be heard and of the right to act are granted to everyone in a democracy (Lefort 1988; Verschaffel 2009). The democratic right to freedom of speech is not guaranteed by all laws, but as Lefort (1988, p. 37) states, it is an 'expectation of public confirmation because it appeals to the conscience of the public'. The democratic ideal is highlighted by Gehl and Svarre (2013) in a discussion about Barcelona's public spaces after 1979, which celebrated public expression through the freedom to assemble—an activity that was banned prior to the free elections. This version of democratic space assumes a thin unproblematic concept of both 'democracy' and 'space'. The public is presented as an entity with power and opportunity to speak out and to listen without suppression or manipulation by others. The notion of the public in a democracy is shorthand for the expression of an ideological imagination (Harrison 2009; Low 2009). Accordingly, social and economic inequalities are ignored, with a focus on the universal norms of a privileged middle class and a presumption of a single cultural and social frame (Verschaffel 2009).

This democratic ideal is often structured around significant exclusions. Crawford (1995) states that revisionist history demonstrates non-liberal and non-bourgeois publics produced alternative definitions though the activation of public space, for example, the work and protests of female voluntary organisations and male unions, lodges and political organisations. The Athenian *agora* 'was limited to a group of men recognised by formal assembly' (Rogers 2016, p. 93). This example of democratic space excluded the majority of the population, including women or slaves and many others, who were not classed as citizens. Crawford and others redefine public space as a male space, with feminist research focusing on gendered exclusions.

Non-liberal and non-bourgeois publics and the emergence of other counterpublics arose because of competing interests between a dominant user group and others. In present day public space, the public may be formally equated with a dominant user group. Loukaitou-Sideris and Ehrenfeucht (2009) and Mitchell and Staeheli (2009) highlight this equation as a limiting and exclusion-based process (discussed at length in Chapter Four and Chapter Five). In their examination of sidewalks (footpaths), Loukaitou-Sideris and Ehrenfeucht note that mobile pedestrians are equated with the public—the main user group—which led to municipal (council) ordinances favouring pedestrians over others for efficient movement. Municipal (council) ordinances that privilege pedestrians over other users have the negative effect of controlling or prohibiting other social, economic or political uses of sidewalks. The delimitation of one type of public to define public space further complicates a singular or monolithic definition of public space.

Lefort's (1988) definition of democratic public space draws attention to gathering spaces and places where people can congregate for a public purpose. This essentially mediates private relations balanced with the varied understanding of 'public' and 'space' and the potential of space belonging to no individual, while being large enough to accommodate a greater number of people. This definition is identified with political space—a place for discussion and decision-making, linked by Verschaffel (2009) to architectural and urban planning works. However, geographers such as Amin (2008) question whether public spaces remain political spaces within urban cities.

The use of public space for private activities adds another layer of complexity. Private ownership of public spaces and regulations restricting use in spaces classified as public are altering how spaces are seen and used. General interpretations of private and public spaces have always been complicated. Interpretations are increasingly unclear, with the rise of privately owned spaces, including building façades (Figure 2-11), pocket parks, forecourts and courtyards. These spaces are public spaces through their contribution to public infrastructure and public accessibility. Yet, as Lefort (1988) and Ranson (2012),

among other critics, argue, these public spaces blur the boundaries between political and non-political activities and between civil society and government responsibilities. This blurring of boundaries between private ownership and public spaces has been exacerbated by notions of the value and investment potential of public space (Harrison 2009; Kohn 2004; Madanipour 2017).

As discussed above, who owns public space, who maintains it, who has access to it, who benefits from it and who does not, all influence how a space is represented as public or private; '[i]n brief, what is required of public space is nothing more or less than contributing towards giving sense to our urban life' (Borja 1998, p. 7). Definitions of public space as a democratic space connected to all publics and citizens emerges as an idealised notion (Carmona, De Magalhaes & Hammond 2008; Lefort 1988). The notion of democratic space is linked to distinct historical antecedents that rarely materialised the utopia of an exemplary democratic state. Changing property regimes, the equation of ownership with control, competing uses or the agitation of counter-publics, all defy singular notions of public space. Considering these diverse definitions of public space, articulated in different disciplines, public space does not emerge as a space that is accessible to all. Every example presented here can be linked to a design intervention that further underscores the need, in the discipline of landscape architecture, to interrogate and challenge definitions of urban 'public' space.



Figure 2-11: Privately owned spaces regulating public use. Left: Building facade on Pirie Street, Adelaide, Australia. Right: Signage in a public plaza in Tokyo Midtown, Minato, Tokyo. (Photos by author 2018)

2.5 Public realm

[The public realm comprises] social, not physical territories. Whether any actual physical space contains a realm at all and, if it does, whether that realm is private or parochial or is public is not the consequence of some immutable culturally or legally given designation ... It is, rather, the consequence of the proportions and densities of relationship types present and these proportions and densities are themselves fluid.

Lyn Lofland 1998, p. 11.

The public realm is a fluid concept with primarily social dimensions. The terms 'public space' and 'public realm' tend to be used interchangeably. As Lofland (1998) states, the difference lies in the notion that the public realm tends to be distinct from physical territories. The public realm may be considered broadly in two ways: a collection of defined, publicly accessible physical spaces including built form, or a realm (physical or virtual) where a group or unrelated publics may insert their concerns to be acknowledged by others, regardless of ownership. Within the local and state government and education sectors, the term 'public realm' is primarily used to refer to publicly accessible built form and spaces under their control or maintenance (Figure 2-12). Similarly, the physical association is the main area of discussion, reference and research in Planning, Urban Design and Political Geography. Importantly, planners Frank Gaffikin, Malachy McEldowney and Ken Sterrett (2010), and Associate Professor in Landscape Architecture Jillian Walliss (2012,2014,2017a, 2017b) have highlighted that the public realm is both an arena for identity and argument.

The link between physical space and social interaction is `defined by Carmona, Heath and Tiesdell (2003) as the ability to support or facilitate public life. This definition considers the public realm as a defined space/s that is separated from private realms by public goals and determined through temporary bonds between unrelated publics and long-term bonds between family and friends (Krupa 1993) (Figure 2-13). Power in the public realm is maintained by the common public and beyond the reach of individuals, regardless of their influence exerted through the expression of opinions or governmental action (Lefort 1988). This places the public realm within the context of democratic theory and political philosophy. It should be noted that in urban design literature, the distinction is not often discussed (Goodsell 2003).

Loukaitou-Sideris and Ehrenfeucht (2009, pp. 62-79) discuss parades and processions in relation to the public realm. They consider parades as tolerated, typically non-threatening—but non-neutral—events in which a public group makes claims to the public realm, breaking ordinary rhythms of daily life in the

process. Participation or observation of a parade results in individuals becoming *de facto* members of the same community (public). However, parades have never been inclusive of all publics and never will be, because of their nature and purpose to celebrate or champion a specific cause. The ability for parades or protests to take place has been linked to the design of public space. Gaffikin et al. (2010) recognise that spatial form can influence conflict, and social conflict has a spatial manifestation although it cannot be corrected through design considerations alone.



Figure 2-12: The University of Adelaide, public realm, the Barr Smith Lawns. Transformed in partnership with major arts events, the Adelaide Festival, Adelaide Fringe and RCC into an event space open to the public (Photo by author 2019)

Arendt (1958) and Lofland (1998), among others, present the public realm as a permanent setting for an individual to be acknowledged. Arendt discusses the public realm as something that enables gatherings of people to present and debate their concerns as equals, to be acknowledged and to leave their mark on their community. This is only possible if multiple differences and perspectives occur in the same place, at the same time, with the ability for those concerns to take time away from private matters. The public realm connects individuals as a community, articulating and presenting what the community holds in common and what the community wishes to share with more than one generation. Arendt's concept of community is still relevant—the concept of access to the public realm without physical connection in today's

age of digital and virtual communication. The discussion above highlights the role of the public within the public realm and the agreement that built form does not constitute the public realm but is a stage where the public can develop. The public realm is distinguished from public space by human activities and people. Activities and people transform public space into the public realm by appropriating built form or virtual space.



Figure 2-13: Melbourne's Flemington Racecourse acting as the public realm during the 2019

Download music festival through the provision of common public goals and facilitating temporary bonds between unrelated publics. (Photo by author 2019)

2.6 Public sphere

No individual is sovereign in this sphere, but each on entering it, renounces the right to dictate the terms upon which he communes and conflicts with others.

Roger Scruton 1984, p. 13.

Public sphere locations are fluid and attached to a gathering of publics, presenting opportunities for debate and allowing the formation of public opinion. Universal access is the key feature of the public sphere (Arendt 1973; Goodsell 2003; Habermas 1989; Ortega 2004). The public sphere is where civil societies develop through the creation of meaningful public exchanges in a manner that is unplanned, with participation 'either in opposition to others or in agreement with them' (Scruton 1984, p. 14). As stated by Ranson (2012, p. 245), the challenge of the public sphere is how to freely engage the public and 'enable them to cooperate in civil society'. Freedom is defined by the ability

of the individual to gather for discussion (Ortega 2004), distinguished from liberty but linked to human rights to be part of public affairs (Arendt 1973). The public sphere is also understood by many researchers and critics as a 'structured setting where cultural and ideological contest among a variety of publics takes place' (Eley 1992, p. 306) and exchanges within are spontaneous unplanned reactions. The unplanned, fluid nature and non-spatial context of the public sphere is its key quality, distinguishing it from the concepts of public space and the public realm.

The notion of meaningful exchange and gathering of publics means that the public sphere does not need to be a physical space for the public to connect, yet the ability to gather in public space is regarded as the 'physical geography or territory of the public sphere' (Low & Smith 2006, p. 3). Public space is therefore considered the physical territory of the public sphere, while the public realm is the virtual territory of the public sphere. Virtual territory is discussed by Squires (2002) with reference to the strengths of public spheres linked by organised forms of publicity, for instance, media outlets, political voices, cultural groups and professional organisations. Online media outlets including blogs, news sites, Facebook, Twitter and LinkedIn all provide 'space' for the public to disperse information and engage with others. Media communication is considered by many, including Ortega (2004), as essentially public and a defining factor of the public sphere by controlling the stage for publics. The Occupy Wall Street movement (2011) and the Global Strike 4 Climate (2020) are two examples that spread around the world, including peaceful demonstrations in Adelaide, through online sources (Figure 2-5 and Figure 2-14). Online platforms allow for the emergence and development of identity to be played out in a non-spatial context, which may not be present in the same degree as a physical space (Amin 2008).



Figure 2-14: Outlook of Victoria Square/Tarntanyangga, Adelaide during the 2020 Global Strike 4 Climate. (Photo courtesy of Nicole Arbon 2020)

The separation between the virtual and physical public sphere is evident in German sociologist Jürgen Habermas's influential concept of the early 18th and 19th century modern bourgeois public sphere. Habermas (1989) depicted the Western public sphere as an arena comprising individuals forming a public in which everyone has the protection of universal rights and a system of democratic politics (Eley 1992). Cafés and the salon were noted in particular by Habermas as a part of the public sphere. Varnelis and Freidberg (2008) agree and argue that the link between the café and the public sphere remains, thought it is overshadowed by commercialisation.

Parkinson (2009) is in broad agreement with Habermas's definition, linking democracy with the public sphere by discussing it as a performance between actors and audiences on a stage. Similarly, Staeheli and Thompson (1997) discuss the public sphere, with emphasis on accessibility, noting that liberal political theory assumes the public sphere is equally open to all. These distinctions are described differently by Habermas (1989), whose concept emphasises unity and equality independent of government and economy, with strict lines between public and private. Habermas commenced by excluding all those whose behaviour was associated with private or domestic spheres, women, non-white Christian males and workers. Many scholars have criticised Habermas's ideal as underplaying gender roles and relegating women and workers to private and domestic spheres, along with his theorisation of the public sphere as a unitary space separating public and private (Eley 1992). Nevertheless, Habermas's model for the public sphere has become influential in debates on public accessible space, depicting norms of behaviour structured around interaction (Mitchell & Staeheli 2009), with publics identified as citizens in relation to government.

The role of citizens in the public sphere is critical since their rights as active subjects are indispensable if the public sphere is to emerge and develop (Ortega 2004). Staeheli and Thompson (1997) further identify the notion of citizens having a secondary moral definition, provided by the notion of community whereby citizenship can be earned. Privileged middle-class and masculine modes of public speech were considered universal norms; concerns were addressed through political debate and electoral politics within defined categories of discourse of Habermas's ideal democratic space (Crawford 1995; Westwood 2014). Yet, the public sphere is derived equally from blurring public and private space and competition among publics (Crawford 1995). This alternative depicts the public sphere as a flexible entity—not rigid or unified, as many theorists insist—and consistently redefined through the public's appropriation of space. The appropriation of space is a behavioural means of redefining boundaries between public and private and negotiating conflicts within the public sphere.

Mass media, the distribution of information by governments and demonstrations lie at the intersection of the public and private sphere. Through the voicing of domestic, economic and private concerns via public debate, direct action and civil disobedience demonstrations transform private decisions into public ones and transform civil laws to allow for private decisions. Demonstrations and protests include anti-abortion demonstrations, gay rights demonstrations and anti-gay marriage protests. A government's statutory powers are legitimatised through the acceptance of one group's public demands, which first must be inscribed within public space through acts of demonstrations or protests that provide a setting to allow for approval from a broad section of public opinion (Lefort 1988). Conversely, removing a government's power through public protest in public spaces, such as Ukraine's 2004 and 2014 public protests in Maidan Nezalezhnosti (Independence Square), consequently influenced the government structure.

Differing types and forms of space have varying levels of power to influence how the public sphere is used and perceived. The unplanned, fluid nature and non-spatial context of the public sphere is its key quality, distinguishing it from public space and the public realm.

2.7 Public domain

The public domain constitutes an overarching view of public space and the public realm; it is differentiated from public space as a collection of spaces belonging or being available to the public in which public activities occur. Hajer and Reijndorp's (2001) research clearly separates the public domain and public space by public function and public ownership, contending that the former often does not coincide with the latter. The public domain has been related to spaces that belong to citizens, thereby enhancing or frustrating urban existence (Holden & Iveson 2003). It links the right to space with culture, history, society, freedom, equality and responsibility (Cuthbert 1995; Walls & Walliss 2020).

Sennett (1977) argues that the public domain has been in decline since the Romans because of changes in the organisation of cities and planning practices. This in turn influences how users perceive space and their connection to space. In the 12th century, the public domain became separated from the 'person of the king' (monarchy or royal domain) and was 'defined as a domain of inalienable property; and whereby a further division is introduced between a reference to an objective order and a reference to a sacred order' (Lefort 1988 p. 253); an identity in which the King was replaced by the community and individual persons. There has been renewed interest in the term 'public domain' since the 1980s with the rise of urban renewal and urban growth

strategies. It has been used interchangeably with the terms 'civic space', 'public space' and 'public realm'.

2.8 Summary

A renewed importance has been seen in public space since 2000, with strategic significance for emerging social controls, corporate rebranding strategies, radical politics (Iveson 2010) and placemaking. Cities are focusing on their public spaces as areas of quick wins and social engagement. Yet, as stated by Varnelis and Friedberg (2008), the old world of public space has not returned and there are still divergent definitions of what constitutes public space.

The common thread in the definitions presented above is the persistent assumption of a democratic, ideal public space, with recognition of the fact that there are not many spaces, today, that match this ideal. Debates about the definition of public space include whether space is publicly owned or private, inside or outside, restrictive or free, democratic and inclusive, legally defined, politically defined, whether it is real or virtual, whether it is engaging or monochromatic and, not least, meets public expectations.

Common interpretations of the terms 'space', 'realm', 'sphere' and 'domain' separate notions of politics and space, reflecting and influencing power relations and spatial behaviour. This discussion demonstrates that contemporary urban public spaces are plural, open to interpretation and reflective of the current complex socio-economic context. No single ideal exists because public space depends on the nature and degree of public accessibility (publicness) and, how public is attributed.

The relevance of the key arguments above is the assumption that public space definitions present a dichotomous view of the complex history and dynamics of urban life, overlooking rights, roles and attributions regarding the public and spaces, which are continually being redefined. Instead, the importance of public space should be considered by its role as a centre of democratic expression and protest or through deliberate manipulation of urban design as a way for those in power to quash opposition. Therefore, their influence on public space is an influence over the public sphere, public realm and public domain. The control of information and expression that the public can access and how those in power can manipulate the distribution of the information and opinion (Krupa 1993) have profound effects on the quality of public life. Overall, public space brings people together for the sake of being in proximity with other humans.

The relationship between the provision and use of public space is discussed further in Chapter Four as a key concern for public space governance and use.

Chapter Three
Urban public space:
Typologies



3.1 Typologies of urban public space

Cities are composed of a great variety of place types. In between the more constraining ones, the private and enclosed places of the city ... lie public spaces, often outdoors, where definitions and expectations are less exclusive and more fluid.

Karen A. Frank & Quentin Stevens 2007, p. 2.

The discourse surrounding public space is as varied as the public spaces that are found in cities, as Frank and Stevens (2007) argue. This raises questions about who the public is and who public spaces are designed for. An analysis of public space requires scrutiny of these types of spaces. Cities consist of spaces that satisfy the ordinary daily needs of users as well as extraordinary events (Figure 3-1). The distinction between private and public is influenced by city design and planning, which have been criticised for increasing social isolation, health and economic problems through a perceived increase of informal, movement-oriented and loose urban public space. The diversity of spaces within cities results in rapidly changing public space.

The diversity of public space types considerably extends possibilities for public social interaction and for individuals to be seen in and belonging to the 'public' or rather, 'publics', highlighting that the public is not a monolithic entity. The diversity of physical, spatial, material and formal qualities of public space has changed in the 20th century because of ongoing industrialisation, modern urban development, urban densification, new approaches to open space or the transformation of transport infrastructure, which have all challenged traditional city typologies (Gehl & Svarre 2013; Project for Public Space 2009; Le Corbusier 1923; Sitte 1886). The desirable urban form of these spaces has been debated from the end of the 19th century, notably with Sir Ebenezer Howard's Garden City movement, progressing to current debates about bikefriendly cities. Changes are both positive and negative, shaped by political ideals, reinforcing and challenging dominant myths. These are argued by Verschaffel (2009) to be *de facto* outcomes of populism and new technologies.

Different typologies of public space are recognised and categorised by academics in diverse disciplines, design professionals and the publics. The typologies stem from design, socio-cultural, economic and political perspectives (Carmona 2010b) and are based on morphological types and design function. All categorisations are not mutually exclusive to a particular space and vary in terms of location (Burgers 1999; Dines & Cattell 2006; Hall 1966; Wallin 1998). The basis of the categorisations often relates to how users

engage with the spaces. For instance, socio-cultural categorisations tend to be fluid and overlapping (Carmona 2010b), while political-economic perspectives are defined by questions of ownership and responsibility (Carmona, 2010b; Flusty 1997; Kilian 1998; Malone 2002; Sibley 1995; Van Melik, Van Aalst & Van Weesep 2007). This categorisation tends to underscore a division between public and private space, issues of security and branding, questions of consumption and purchase and questions of how the acceptance of difference and diversity is played out in public space.

A breakdown of public space typologies is provided in Table 3-1, which includes definitions from the design professions as well as other disciplinary perspectives, identified as 'socio-cultural' and 'political-economy'. Table 3-1 demonstrates the wide range of public spaces mentioned by the authors cited in this thesis. As shown in the table, the categorisation of public space is complex and becoming increasingly problematic because of the blurring of what is public and private, questions of ownership and accessibility. The complexity of today's public space typologies originates from the decision points required to determine the classification. Figure 3-2 (Public space typology classification system flow chart) has been developed by the author to graphically represent the decision points experts and lay persons go through to classify a space as public or private. The flow chart considers management, function, perception and ownership, which all feed into how a public space is classified.

The balance between the provision of public spaces and the identification of public needs and aspirations shapes the design of public space and the identification of the need for change or redevelopment of these spaces. In their seminal work, *Community and privacy: Toward a new architecture of humanism*, architects Serge Chermayeff and Christopher Alexander (1963), identified six types of public space in the city, highlighting the public spaces that displaced traditional public squares and parks and are linked to their ideals of the public good:

- 1. Urban/public: Places and facilities in public ownership.
- 2. Urban/semi-public: Areas of public use under government and institutional control.
- 3. Group/public: The meeting ground between public services and utilities and private property.
- 4. Group/private: Secondary areas for the benefit of tenants or legal occupants.
- 5. Family/private: The spaces within the private domain.
- 6. Individual private: One's own room.

Table 3-1: Public space recognised from traditional and ambiguous perspectives

Traditional Public Spaces				Ambiguous Public Spaces (movement, service, left over, undefined, transitional spaces)				
	Design	Socio-cultural	Political- economy		Design	Socio-cultural	Political- economy	
Amenity green spaces				Alleyways				
Burial grounds				Beaches				
Cafés				Bike lanes				
Campuses				Building frontages				
Cemeteries/burial grounds				Car parks				
Churches and churchyards				Concourses				
City farms				Elevated walkways				
Civic buildings				Elevators				
Civic and market squares				Gardens (private)				
Community gardens				Grey (lost, forgotten)				
Gardens (public)				Laneways				
Green corridors				Loose space				
Markets				Monuments				
Memorials				Railway terminals				
Natural and semi-natural				Roadway				
spaces				,,				
Outdoor sports facilities				Shared streets				
Indoor sports facilities				Shorelines				
Public gardens				Stairs				
Piazzas				Streetscapes				
Playgrounds (public)				Tunnels				
Playgrounds (school)				Vacant lots				
Promenade				Television				
Parks				Internet				
Squares				Erected**				
Streets				Displayed**				
Water fronts				Exalted**				
Shopping mall				Exposed**				
Schools				Coloured**				
Rivers				Marginalised**				
Canals				Places of retreat***				
Commons				Everyday places***				
Urban forests/woodland				Places of meaning***				
Skate parks				Social environments***				
Walkways				Negative spaces***				
Landscape plazas			<u> </u>	Festivals				
Lobbies			+	Service yards	1			
				Underpasses	1			
				Bus interchanges/bus stops/trains stops/tram stops Retail space				
			-		1			
			+	Front gardens Gated squares	1			
Nator All cases listed are public]		blicarpri					

Note: All spaces listed are publicly accessible. Public or private ownership is not referenced.

^{**} Burgers (1999) Classification of space

^{***} Dines & Cattell (2006) Classification of space

The typologies can be expanded to include social and virtual spaces, which facilitate and influence the public just as physical spaces do.

Goodsell's (2003) definition of the public builds on Chermayeff and Alexander's propositions by combining political philosophy, democratic theory, urban planning, urban design and architectural definitions to propose six definitions:

- 1. Generic definition of public space: A space-time continuum for connected and interactive political discourse.
- 2. Place-bound public space: The above, consisting of face-to-face interaction in a single physical location.
- 3. Electronic public space: The above, achieved at dispersed geographic locations through information technology.
- 4. Extended public space: The above, when broadcast by television, radio, Internet or other means.
- 5. Pure definition of democratic public space: The above, when open to all, unrestricted as to conduct and unconditional as to participation.
- 6. Practical definition of democratic public space: The above when public access is encouraged, the status of state authority is muted, barriers between governors and governed are minimised, staging is arranged by the people as well as officials and conditions conducive to deliberation are fostered.

In contrast, social scientist and geographer Doreen Massey (2005), argues against the conventional interpretation of space. She discusses space as an event, as something intertwined with time and ever-changing, with or without public occupation. For Massey, there are three proposals that are relevant for the city and that, we can argue, are beyond the physical setting:

- 1. Space is the outcome of interrelations; it is 'constituted through interactions'.
- 2. Space is an arena of 'coexisting heterogeneity', reflecting and changing the multiplicities and pluralities of contemporary society.
- 3. Space is forever a work in progress, continuously being remade.

Massey's stance re-conceptualises place as nuanced ideals that are persistent in geography and are linked to definitions of society, politics and the changing perception and social use of public space in the city.

The definitions of Chermayeff and Alexander (1963), Goodsell (2003) and Massey (2005) are unsatisfactory theoretical variants and interpretations of the term 'public space'. They do not consider the everyday user nor do they interrogate the concept of the public(s). Public space is unravelled within this thesis, appreciating degrees of public accessibility (publicness).

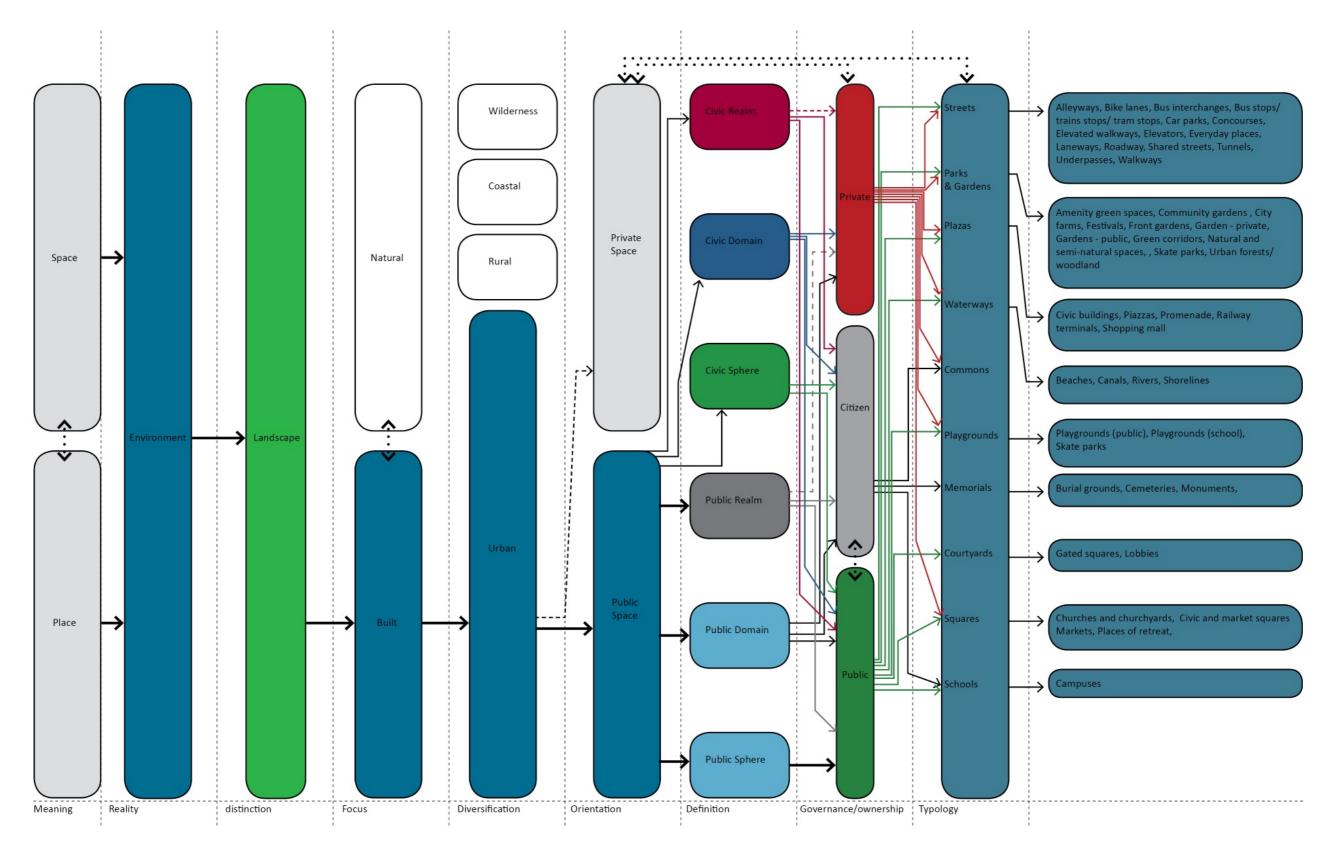


Figure 3-2: Public space typology classification system flow chart

3.2 Five new public space typologies

The way in which 'public space' is viewed is also changing from a traditional focus on formal squares, parks and pavements to a broader conception that recognises the value of less formal 'left-over' spaces and the everyday uses that occur there.

Peter Bishop and Lesley Williams 2012, p. 87

The way in which public spaces are viewed enlarges the definition of what spaces are public. Traditional public space typologies—squares and parks were questioned in the 1960s by urban designers, in the 1990s by the New Urbanism movement and today, in the 2020s by landscape architects. The renewed interest was motivated by sustainable development, interrogation of car-dependence in the context of urban sprawl and focus on healthy spaces for people. A need for sustainable cultural change was advocated, seeking alternatives to reverse the environmental and social problems of sprawl, minimisation of right of access and creeping social isolation (Alter 2020; Butler-Bowdon 2020; Florida 2020; Honey-Rosés et al. 2020; Iveson 2020; Klinenberg 2020; Kling 2020; Null & Smith 2020; Roberts 2020; Suricio 2020; Tovey 2020; Walker 2020). Literature from these periods reveals spaces that depart from traditional notions of public space managed and maintained by the state (De Magalhães 2010). These spaces are regulated 'not for common civil society interests but rather for state or commercial control' (Daniere & Douglass 2009, p. 199) and provide new social settings.

These new concepts of public space coincided with the post-industrial era in response to changing land use, new technologies, economies and socio-cultural practices (Scazzosi 2004). Increasingly, landscape architects are at the forefront of design for these public spaces, not least in Australia. City spaces that are now reconsidered public spaces include commercial streets, shopping malls, arcades, parklets, outdoor dining areas, vacant lots, car parks, innovation districts and other urban places, often reclaimed by segregated and minority groups. They include spaces that are semi-public, conditionally accessible, separated by thresholds and conditioned for a type of public (Figure 3-3). Often these spaces function as traditional public spaces. Crawford (1995), amongst others, considers these spaces as testing grounds for debates about democracy, where public assertions of identity are acted out daily by alternative publics. These types of spaces raise questions about their accessibility to the public, which De Magalhães (2010, p. 559) views not as privatisation, 'but instead [as the] complex redistribution of roles, rights and responsibilities in public space governance to a range of social actors beyond the state'. The people-place relationship in these spaces is formed through place attachment, place affiliation, place dependence and place identity, which are all subsets of the sense of place (Francis et al. 2012). Classification of new public spaces has arisen primarily through recognition of a changed sense of place, triggered by chance encounters in which a distinction between public and private may be missing.



Figure 3-3: Tonsley Innovation District, Central Forest 4. A 61-hectare site combining research and education institutions, established businesses and start-ups, government departments and housing. The site features several garden areas that are conditionally accessible to the public. (Photo by author 2021)

The consideration of traditional public spaces, public space emerging in the 1960s and new public space has highlighted five overarching public space typologies that offer an enduring structure to the city. These public space typologies are varied and characterised by their form, accessibility (publicness), location and specific use, as discussed in Chapter Two. These five overarching typologies include Plazas & Squares, Parks & Gardens, Streets & Promenades, Waterfronts and Commercial Spaces. The significance of these five typologies in urban form has been apparent since the *agora* in Athens and is continually linked to territorial identity, defence and public life (Curtis et al. 2007). The five typologies are discussed below.

3.2.1 Plazas & Squares

Plazas and squares are not new. They have offered settings for the expression of urban life in European cities since the 12th century (Ortega 2004). Urban plazas and squares, often located centrally and enlivened by the complexities of public life, can be traced to the mediaeval period. Then, cities were increasingly shaped by new political and mercantile drivers whereby territorial identity became a priority, with commercial laws (merchant law) developed in relation to places rather than individuals (Jackson 1987a, 1987c; Ortega 2004). Like the Piazza San Marco in Venice or Siena's Piazza del Campo, the

significance of plazas and squares lies in the way they link mercantile, civic and public realms. They provide amenity, visual interest, recreational opportunities and they promote standards of public behaviour through a positive sense of participation between different genders, ages and races (Cooper Marcus, Francis & Russell 1998). They are used in a wide variety of ways. They serve a social function that is further variegated for different communities and cultures.

J. B. Jackson (1987b, p. 118) disputed any automatic correlation between a public square and a particular community, underscoring how 'slack our current definition of community can be'. He contended that public squares do not automatically make the public aware that they are part of community with responsibilities as a citizen who may participate in public actions. According to Ortega (2004), community behaviour in plazas and squares has changed from active participation to passive spectatorship. Since the early 1990s, the use of plazas and squares has changed further. CABE Space (2004) notes an increase in regeneration, animation and intensive utilisation of squares, with a return to the provision of high-quality retail and cafés around boundaries or incorporated as part of the fabric of the square. This regeneration is linked to use by multiple types of publics, including shoppers, office workers, children and homeless people, who all have different needs.

A current trend in the design of plazas and squares has seen the decrease in the proportion of hardscape and an increase in soft landscaping aligned with advances in urban heat mitigation. This change in design practice is in keeping with the characteristics for a successful plaza, as identified by Gatje (2010) and Hedman and Jaszewski (1984). These include size, shape, continuity, height, configuration, architectural characteristics of the surrounding buildings and sculpture. Successful consideration of these characteristics can be seen in the redevelopment of Piazza Del Campo in Siena (Gatje 2010; Gehl 2010; Hedman & Jaszewski 1984; Project for Public Spaces 2010), Barangaroo in Sydney and Victoria Square/Tarntanyangga in Adelaide (Figure 3-4; Walliss 2012, 2018). The redevelopment of these squares also highlights the design brief from local government, emphasising provisions for open space retail, events and commercial offerings. This emphasis balances the aesthetics of plazas and squares with economic benefit.

The current trend of plaza and squares as major event spaces and as a city-wide marketing tool invites investment from the private sector. The focus on marketing and investment rather than political functions in the public space may be why many authors believe public spaces are in decline.

Plazas and squares are more than a physical space for urban life and they should be considered a setting in which visible roles of the community cannot be reduced to aesthetics and where individuals reveal their identity as part of a society.

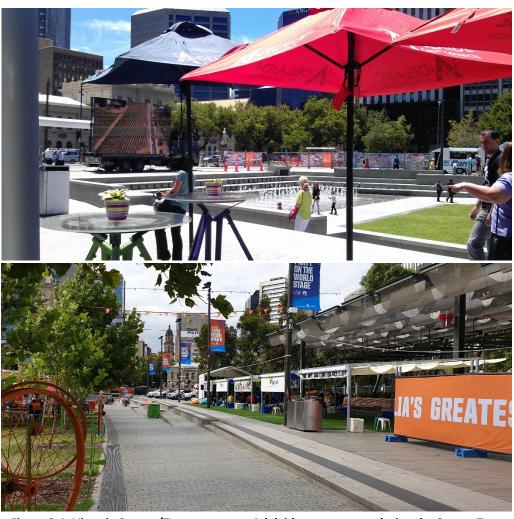


Figure 3-4: Victoria Square/Tarntanyangga, Adelaide, event setup during the Santos Tour Down Under. (Photos by author 2014, 2020)

3.2.2 Parks & Gardens

The prevalent image of parks and gardens stems from 19th century North American and British public spaces such as Olmsted's Central Park in New York, which continues to be celebrated as the epitome of the urban public park (refer Chapter Two). Key to this typology is the separation from the surroundings by fences or streets, rendering the park and garden a distinct space, thought of as a social green realm (Barlow 2001; Jones & Wills 2005; Mehta & Mahato 2020). The difference between parks and gardens lies in the scale, natural characteristics, arrangement of natural features, cultural needs and social structure (Barlow 2001; Olmsted 1997).

The park traditionally reflects the neighbourhood context. To Olmsted, parks were a place where society could be improved. To others, highlighted by Cranz

(1980) and Mehta and Mahato (2020), parks were places to rectify the negative effects of industrialisation and urbanisation in the 19th century. The park was specifically designed for public access as a key component. This is in contrast to gardens, which represent the redevelopment of private spaces for exclusive use (such as sacred sites, hunting parks, royal lodges). The emphasis on public access in parks is differentiated from the exclusivity of gardens since the 5th century sacred grove of Academus, Athens, remodelled by the Greek ruler Cimon, to mediaeval deer parks in Europe (Jones & Wills 2005) or Park Güell in Barcelona, designed by Antonio Gaudí.

The parks soft landscaping (not least, formal and informal planting, including the creation of a wilderness space with sweeping lawns and water features) offered scenic views and amenity in contrast to the built form of the city. The city park provides a green realm for exercise, relaxation, refuge and socialisation where culture and nature collide (Barlow 2001; Jones & Wills 2005; Escobedo, Kroeger & Wagner 2011; Kaplan & Kaplan 1995; Mehta & Mahato 2020). The park traditionally meets the needs of the wider population of the city while the garden, on a smaller scale, tends to cater for individual, private or elite ventures.

The appeal of parks for developers, local government or landscape architects is the potential for urban amenity and outdoor recreation. Use and access to parks and gardens was and still is considered to improve behaviour by providing recreational activities for the public, offering an indicator of the health of the city (Economist Intelligence Unit, 2016; Healthy Parks Healthy People SA 2017 n.d.). However, as discussed by Jones and Wills (2005) and Marne (2001), the provision of activities in parks and gardens also has the potential to segregate class, gender, age and race, creating spaces of marginalisation and exclusion.

Parks and gardens are further compromised by the degree of maintenance they require. For example, a period of neglect (1990 to 2000) due to the cost of maintenance saw the decline of many parks and gardens in the United Kingdom and the United States. With time, such parks can be transformed from spaces of high amenity to places that are avoided. This neglect has seen the rise of corporate sponsors and commercial activities becoming commonplace in many large-scale parks, for instance Millennium Park in Chicago, which received much needed funds to maintain the space. Other new parks require corporate sponsorship and commercial activities for their establishment. Freshkills Park and the Highline, New York (Figure 3-5) are two such parks that would not have existed without the early sponsorship and ongoing support of alliances or benefactors (Freshkills Park Alliance 2021; Friends of the High Line 2021).

Accordingly, parks and gardens in the 21st century are being reinvented. Event spaces, corporate sponsorship and marketing initiatives have resulted in the

overhaul of parks and gardens, which are further enhanced through the introduction of technology to create spaces where artificial interventions collide with culture and nature to attract users.



Figure 3-5: Highline, New York. (Photo courtesy of Matt Gaetjens 2018)

3.2.3 Streets & Promenades

Streets and promenades are less commonly viewed as public space. However, they are increasingly recognised by scholars as important, distinct public spaces in the city with an overt social purpose conducive for public interaction (Amin 2008; Appleyard 1981; Duany, Speck & Lydon 2010; Ehrenfeucht & Loukaitou-Sideris 2010; Engwicht 1999; Friedmann 1987; Gaffikin et al. 2010; Jacobs 1996; Kostof 1992; Marshall 2005; Owens 1993; Pasaogullari & Doratli 2004; Scruton 1984; Talen 2000; Whyte 1988). Streets and promenades are versatile public spaces that arguably engage users more than other types of public spaces because they are navigated by necessity (Figure 3-6). They dictate mobility and the hierarchy of mobility beyond the home; they define movement patterns and direct what users observe and who they interact with by providing a public window onto the surrounding private spaces (Southworth & Owen 1993). They connect the city.



Figure 3-6: Shibuya Crossing in Tokyo, Japan; one of the most identifiable landmarks of the city. (Photo by author 2018)

Streets and promenades accommodate a full range of social activities and these activities directly influence daily experiences of the built environment. They are heavily used spaces that reveal the vitality of the city. Yet, they are often unacknowledged as public spaces because of their transitional nature. This transitional nature often results in streets and promenades becoming potential areas of conflict or struggle because of overlapping uses (Ehrenfeucht & Loukaitou-Sideris 2010). Yet, the link between the public and the city is strongest within streets and promenades because 'a city can truly be called a city only when its streets belong to the people' (Friedmann 1987, pp. 136-7).

Since the beginning of urban settlements, streets and promenades have been designed to allow for the dominant form of transport. These thoroughfares were primarily the domain of pedestrians until motorised transport emerged in the 18th century (Crawford 2002; Kostof 1992). Today, streets and promenades allow for gatherings of urban dwellers for socialising, play, recreation, meetings, demonstrations and social change. The importance of streets and promenades is linked to the notion that public spaces imprint a set of values on users (Scruton 1984). Research in Geography has shown that groups of people 'milling' on street corners and promenades is a way of physically and psychologically taking control of a particular space, resisting class identity, revealing cultural identity, reinforcing self-perception and revitalising the public domain (Ehrenfeucht & Loukaitou-Sideris 2010; Holden & Iveson 2003; Ware, Bryant & Zannettino 2011). The congestion and continuous activity on

streets and promenades make it harder for them to be 'privately' appropriated, meaning that streets and promenades are not only public spaces but they are a representation of the public and a mediator between private and public realms (Appleyard 1981; Jacobs 1961). They can signal the vitality of a city to residents and visitors, affecting all subsequent experiences.

The definition of streets and promenades as public spaces may be summarised as a form of communication experienced by moving, where the ability of strangers to access each other is not restricted by the private spaces of others (Carmona 2010a; Jackson 1987c; Loukaitou-Sideris & Ehrenfeucht 2009; Matan 2011; Verschaffel 2009). Communication experienced through movement is an ability to read movement and to orientate oneself within economic and social systems. Streets and promenades allow for this without needing to access other spaces removed from workday activities. For Jacobs (1961), streets are public. They offer opportunities for urban dwellers to watch the world. They bring people who do not know each other together. When respect is lacking, streets and promenades become anonymous, impersonal areas of discomfort and unease, creating sites of segregation and racial discrimination.

Streets and promenades, along with the edges of corporate plazas, car parks, mini parks and public housing estates, constitute what Hajer and Reijndorp (2001) and Trancik (1986) refer to as 'lost spaces'. Franck and Stevens (2007) refer to similar areas as 'loose space'. Loukaitou-Sideris (1996) views these as 'cracks in the city'. These public spaces (lost, loose, cracks) have an ability to bring together disparate activities and users in a manner that creates valuable exchanges, connections and behaviours, which, in other circumstances, may be regarded as anti-social. The activities that occur on streets and promenades or the lost, loose, cracks within the city, can offer opportunities for 'leisure, entertainment, self-expression or political expression, reflection and social interaction', activities that are either 'impromptu or planned in advance' (Franck & Stevens 2007, p. 3).

3.2.4 Waterfronts

The decline of industry has led to an increase in available space for new uses in many cities. Spaces that might have been ports, refuse sites, industrial areas, railway yards, highways or other obsolete transport corridors have offered opportunities to re-examine the form and function of public spaces. They also offer opportunities to create bespoke spaces, providing user engagement with the cultural history of a particular site. Waterfronts are a relativity new public space typology with the transformation of industrial and economic sites into multi-use public gathering places in a post-industrial era. This public space typology gives a new dimension to recreational space in the centre of the city

(Gaventa 2006). It places a focus on revitalisation and the economy (Madanipour 2017), providing opportunities to mix urban life with tourism (Gale 2009; Urry 1995). The revitalisation and reconnection to Waterfronts through design, such as the case of Rambla De Mar in Barcelona, Wellington Waterfront Walk in New Zealand and Christopher Columbus Waterfront Park in Boston, can transform a declining area, rebrand the city and create a focal point for new activities and events.



Figure 3-7: Christopher Columbus Waterfront Park in Boston. (Photo by author 2019)

3.2.5 Commercial public spaces

Commercial public spaces are varied and blur the line between private and public ownership. These spaces are not a result of 20th century planning practices, but rather, they originated from changed property regimes and the codification of vital functions; London's Georgian and Victorian squares are prime examples (De Magalhães 2010). Their ongoing significance and justification as public space relates to the provision of public goods, acting as primary destinations or gathering spaces and allowing for public interaction within a defined arena. The relationship between gathering and interaction is why they are considered places of value and investment by governments and developers (Dark Matter Laboratories 2019; Fraser 2007; Harrison 2009; Madanipour 2017). The role of property regimes, developers, friends' groups, governments and landowners separates commercial public spaces from the typologies discussed above.

Changing property regimes, including those led by investors, transform public space, creating pseudo-private properties zoned as commercial. Public accessibility to these spaces is through highly varied governance models. Key examples include the publicly owned but privately controlled Adelaide Central Market (fruit and vegetable marketplace) in South Australia, (explored later in the thesis), the public land trust-owned, managed and state-sponsored Highline in New York (Figure 3-5) and the state-sponsored, board-managed Adelaide Zoo in South Australia (public attraction, Figure 3-8). All are examples of publicly accessible spaces that provide public goods, social benefits and economic upliftment for their cities.

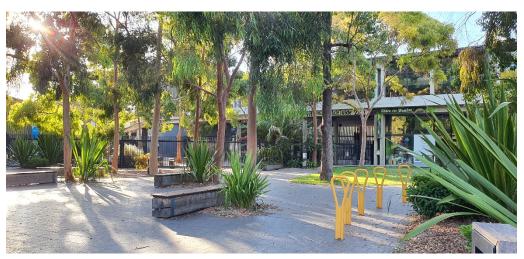


Figure 3-8: Adelaide Zoo, South Australia, entrance forecourt. (Photo by author 2021)

Commercial public spaces are in constant flux because of social participation conflicts. The conflicts relate to segregating users from the traditional use of public space as a venue for free speaking and political debate, to one of commercial activities. In these instances, those undertaking political activities are seen as anti-social (refer Chapter Four). The suburban shopping mall is a key example (Mattson 1999), where traditional use is segregated yet viewed as public. The mall is a contemporary iteration of a mediaeval marketplace. Marketplaces' continued significance relates to the relationship between surrounding buildings, location and the cultural use of space (Sitte 1886). Marketplaces, as an example of cultural use, were the first public spaces designed for a specific public with civic authority regulations providing for a defined purpose. They were secular, identified spaces for everyday business, linking early defined public spaces with economics. Congregation of the public was allowed for in marketplaces, but not as an explicit activity against authority. Little has changed with the design and marketing of the mall; they still allow for public interaction within a defined arena and act as primary gathering spaces. Instead of being owned by the city, malls are privately owned, managed and maintained. These spaces do not represent a totality of commercial public space, but they present an emergence of spaces and activities shaped by

contemporary lived experiences, framing a new discourse of commodification, contestation, multiplicity and perceived loss of possibilities. Commodification of public space is further discussed in Chapter Four.

3.3 Summary

To be sure, the old world of public space has not magically returned.

Kazys Varnelis and Anne Friedberg 2008, p. 20.

Existing definitions of public space are often inadequate to clarify what an individual term signifies because of changing contexts and are based on exemplars or typical applications. As such, definitions of public space are often metaphorical, describing a place where some sort of public interaction is practised. Consequently, a definition of public spaces is required that includes the degree of their publicness in relation to surrounding private spaces; for example, homes and offices and public action may take place in private spaces. Sophisticated arguments regarding social construction of boundaries between public and private are directed by a consideration of physical space and the public as two separate elements that shape and structure spaces. Yet, it is often forgotten that typologies of public spaces are as diverse and continually altered in relation to social activity, behaviour, accessibility and governance. This has led to expectations for public space to be the traditional democratic space for all and to act as the stage for events, blurring the distinction between private use and public use. To expand the theoretical debate and to encapsulate the state of play, a new definition of public space has been proposed by this thesis.

Public space comprises social places outside the home and workplace generally accessible by all members of the public, and which allow for interaction and opportunities for contact and proximity.

This definition of public space ignores legal ownership or governance, and focuses on the possibility and occurrence of social activity, exchange and access to space. This definition may suggest new types of spaces. The focus on access rather than ownership opens up the range of spaces that may be or are currently considered public. Public spaces include parks and gardens, streets and promenades, plazas and squares, Waterfronts and commercial spaces. This thesis assesses understandings of public spaces in terms of their performative value and public accessibility (publicness) rather than ownership and governance. The assessment by values and accessibility allows exploration of the notion that landscape architects have a predisposition to design for particular ideals of 'public'. These designs may be responses to institutional briefs, which increasingly serve diverse forms of appropriation of space,

resulting in periods of exclusion. The forthcoming chapter unravels how exclusion is manifested in public space.

Chapter Four Is it private?



4.1 Is it private? Is it exclusive?

It is practically a truism to say that the disappearance of civic space is caused by privatization.

Margaret Kohn 2004, p. 4.

Over the past 30 years, in disciplines as diverse as media theory, philosophical anthropology, geography, planning, urban design, urban planning and architectural theory, a persistent narrative has emerged, lamenting the diminishing social life of public space (Gaffikin et al. 2010). Concerns have arisen about the erosion of democratic notions of space as well as a crisis of place identity. These discussions are dominated by narratives of dysfunction, loss, decline, ambiguity, segregation and exclusion, predicated on optimistic ideologies of place. This sense of loss is compounded by concerns about the increasing privatisation of public space. Kurt Iveson, Professor of Urban Geography, argues that 'the concept of privatisation suggests a past 'publicness' is being eroded' (Iveson 1998, p. 22). Narratives that emphasise privatisation through ownership and commercial use focus on the decline or erosion of public accessibility (Avermaete & Teerds 2007; De Backer et al. 2017; Iveson 1998), offering comparisons with public spaces that are considered successful. A common theme in this literature is the identification of different forms of activation, particularly events and private—social exchange. These can result in periods of public displacement and exclusion, often depicted as privatisation (Figure 4-1 for an event examplar). This chapter examines these concerns according to specific disciplinary perspectives, drawing attention to clear and recurrent interdisciplinary links.

The chapter introduces the characteristics of successful public space and considers whether compromised public space equates to erosion. The chapter then explores theories decrying the erosion of public space to recognise factors in their production and maintenance. In this exploration of proposals and/or theories to mitigate the erosion of public space, the chapter demonstrates how seemingly benign solutions can become new problems. The chapter then identifies subtle and overt layers of temporary activation (events) that occur as part of everyday life but are often overlooked or misinterpreted as privatisation because they are linked to ownership, management and use.

4.2 What makes a successful public space?

A space that all can enter, however, is a space that each is tempted to abuse.

Robert C. Ellickson 1996, p. 1174.

While Chapter Two reviewed definitions of urban public space, Chapter Three identified different types of urban public space. These reviews revealed shared understandings that public space is (usually) a physical space involving complex reciprocal relationships between users and space. These relationships underpin the significance of public space where social interaction and exchange take place. Robert C. Ellickson, Professor of Property and Urban Law, argues that this accessibility can compromise the success of a public space and flags concerns about potential threats to public space. Cybriwsky (1999), Dempsey (2008), Gehl and Gezøme (2001), Jacobs (1961), Jacobs and Appleyard (1987), Mitchell (1995), Smith (1996), Whyte (1988) and Zukin (1991) argue that access to a city's public spaces determine their success or failure as places to live or work. Central Park in New York and Piazza San Marco in Venice are amongst the most well-known urban public spaces. Cybriwsky (1999, p. 224) argues that the success of these two vastly different public spaces lies in their contribution to each city's quality of urban life. This quality of urban life is the complex relationship between the distinctive attributes of urban environments at different scales and the satisfaction of the residents of a city. The relationship has subjective dimensions and objective realities linked to demographic, social, economic and environmental relationships (Dempsey 2008; Marans 2012).

Urban public spaces are often equipped with a variety of design elements that enable defined activities, encourage preconceived behaviours and influence user experience. The relationship between components, qualities and activities is used to determine the quality of public space and their successful function. There is consensus that the greater the variety of components, perceptual qualities or spaces, the more successful a city's quality of urban life, as demonstrated by Ewing and Handy (2009), Gehl and Svarre (2013) and Matan (2011). Success, according to these authors, is determined by the range of components and perceptual qualities linked to how attractive those spaces are for necessary and optional activities to be undertaken. The components and qualities consistently mentioned by architects, urban designers, environmental psychologists and sociologists are outlined in Table 4-1, Table 4-2 and Table 4-3. The physical form of public space is derived from the relationship between components, perceptual qualities and the activities that occur there (Canter 1977; Charlesworth 2005; Montgomery 1998; Punter 1991; Relph 1976). Whether all these elements are currently used or required for the design of successful spaces is debatable. The components are not specific to one type of place; they can be present in all types of spaces.

Table 4-1: Successful public space components

Design elements	Characteristics
 Design with a clear design intent Designed at human scale Designed for pedestrians, cyclists and cars Designed to integrate public transit, transit facilities, mixed-use areas, economic and community development areas Designed with the flexibility of different uses Designed for visual variety Designed for prospect and refuge Designed to combine comfort and aesthetics Designed with thematic continuity Design to encourage imagination and play Design to provide access to food and beverages Designed to provide public amenities such as bins, shelter, public art, lighting and seating Designed to be accessible 	 Places connected to the wider urban fabric Places for all, including the rich and the poor Places that allow for expression of self and users to be involved Places that can educate users Places that encourage engagement Places that encourage imagination and play Places that welcome all in society Places where a range of activities occurs at different times of day, week, year Places where people of different backgrounds interact Places where people stop Places where publics stake their territory without bothering the personal safety of others Places with a sense of place Places with authenticity and meaning Places with constant users

Note: The table compiles characteristics, items and elements considered components of successful public spaces by architects, urban designers, environmental psychologists and sociologists.

Table 4-2: Successful public space perceptual qualities

Perceptual Qualities				
Adaptability	Distinctiveness	Intricacy	Richness	
Ambiguity	Diversity	Legibility	Safety	
Built form scale	Dominance	Linkage	Scale	
Centrality	Enclosure	Meaning	Sensuousness	
Clarity	Expectancy	Movement	Singularity	
Coherence	Focality	Mystery	Spaciousness	
Colour	Formality	Naturalness	Territoriality	
Compatibility	Human scale	Novelty	Texture	
Comfort	Identifiability	Openness	Transparency	
Complementarity	Imageability	Ornateness	Unity	
Complexity	Intelligibility	Prospect	Upkeep	
Continuity	Interest	Refuge	Variety	
Contrast	Intimacy	Regularity	Visibility	
Deflection		Rhythm	Vividness	
Depth			Water	

Source: Adapted from Ewing and Handy (2009). The italics indicate the author's additions.

Table 4-3: Necessary and optional activities that occur in public space

Necessary	Optional/Recreational Uses
 Shopping Sitting Standing Walking Mobility (inclusive range of movement including those living with a disability) 	 Busking Café sitting Congregating Displays of affection Eating Exercising Fishing Jogging* Meeting People watching* Picnics Playing (hopping, rolling, dancing, skipping) Protesting Reading* Research Sitting to enjoy life* Sleeping Smoking* Strolling* Surveying Swimming Talking on the phone* Walking dogs

Source: * Adapted from lists provided by Gehl and Svarre (2013) and Matan (2011). The italics indicate the author's additions.

The perceptual qualities in Table 4-2 above present a normative framework for urban design focused on defined physical outcomes. Successful public spaces are also based on the actual experiences of public space, alongside the narrative that precedes them (Carmona 2019). Stephen Carr, Mark Francis, Leanne G. Rivlin and Andrew M. Stone (1992, pp. 85-136), architect/environmental designer, landscape architect, environmental psychologist and open space administrator, consider successful public spaces are based on the provision of five needs:

- comfort, encompassing safety from harm as well as physical comfort;
- relaxation, allowing a sense of psychological ease;
- passive engagement, with the surroundings and other people (people watching);
- 4. active engagement, which some people seek out, but which is often spontaneous if the situation allows; and
- 5. discovery, reflecting the desire for variety and new experiences.

Carmona (2015, 2019) defines a new normative of good public space as:

- 1. evolving (whether formal or informal in nature);
- 2. diverse (avoiding one-size-fits-all);
- 3. free (with secure rights and responsibilities);

- 4. delineated (clearly public in its use);
- 5. engaging (designing in active uses);
- 6. meaningful (incorporating notable amenities and features);
- 7. social (encouraging social engagement);
- 8. balanced (between traffic and pedestrians);
- 9. comfortable (feeling safe and relaxing); and
- 10. robust (adaptable and distinct in the face of change).

Carr et al. (1992) and Carmona (2015, 2019) present an open and flexible reading of successful public space, re-theorising public space discourse in consideration of use and management in local circumstances, rather than a definitive rubric.

The components, qualities, activities, needs and experiences are not reflective of all types of public space. They can also be observed in artificial spaces, which are exclusionary and segregated through the development of branding and labelling. Chinatown in any city is an example of an artificial place or a caricature, which has a formulaic approach. While criticised, such spaces still undergo a detailed and considered design process and are often considered popular, successful spaces. Disneyland (Figure 4-2) is another example of a commercial brand with artificial components, yet it demonstrates many of the attributes listed above. Sircus (2001) argues that Disneyland is successful because of sequential experiences, created by physical forms, storytelling and a sense of place. Ellickson (1996), among other authors, raises concerns about the popularity of such spaces; if private spaces attract greater numbers with successful 'public space' components, then the public will flee urban public spaces. This function of privately owned spaces with public space attributes suggests the need for a re-evaluation of the relationship between successful public space and private ownership. They remind us of Hajer and Reijndorp's (2001) belief that a successful public space is one where exchange is possible and occurs.



Figure 4-2: Tokyo Disneyland entrance plaza. (Photo by author 2012)

Avermaete and Teerds (2007) and Sircus (2001) argue that cities—for instance Paris, Edinburgh and New York—can also become brands through the creation of imagery produced for tourists. Branding results in defined assumptions of how a city should look, feel and be accessed. Raco (1993) links branding to marketing and to commodified public spaces, which can be considered a form of privatisation. The character and form of marketed public spaces create a specific, desirable vision of social life (Cybriwsky 1999; Zukin 1995) and socially beneficial spaces. Such a vision is exploited, if not determined, by urban regeneration to promote familiarity and exclude those who do not conform.

For urban planner Nicola Dempsey (2008), there is currently no empirical evidence linking urban environments to socially beneficial spaces where positive social activity and behaviour occur. For Dempsey, good (successful) urban environments foster social inclusion, socially cohesive behaviour and citizenship, in which the decline of any component can contribute to anti-social behaviour. Graffiti, for instance, is viewed as a physical manifestation of positive social interaction and feelings of place attachment. It can also be represented as territorial, anti-social behaviour. Dempsey maintains that the focus on the quality of urban life and the built environment is increasingly strengthened thanks to government liveability agendas, which are promoted as positive outcomes for all. As early as 1987, Jacobs and Appleyard's Urban Design Manifesto proposed that design professionals may be part of the problem by designing for superficial conceptions of place that suit real estate marketing agendas. Jacobs and Appleyard and Dempsey agree that 'highquality' design does not necessarily mean long-term, high-quality successful public spaces. Again, accessibility, social inclusion and social cohesion emerge as key ingredients for success.

Carmona (2010), Madanipour (2017) and Zukin (in Lee & Bourderonnet 2018) argue that poor management and degraded aesthetics, the decline of physical quality and the rise of a range of varying social, cultural, political and economic activities can establish a vicious cycle of decline. The erosion and decline of the physical quality of a place can compromise its assumed accessibility, often excluding and segregating groups of users, particularly those with physical disabilities, pedestrians with young children in prams, the frail or the elderly. Minor physical barriers can present obstacles resulting in significant psychological barriers, and present further challenges to accessibility. Carmona (2010) labels these spaces 'disabling spaces' and further argues that the diverse ways in which environments can be disabling is rarely appreciated. The design, management and restrictions placed on use and users of public space have as much, or even more bearing on their success.

The following section reviews literature that laments the erosion of public space in relation to these benchmarks of a successful public space before

examining a range of activities, events and examples of private—social exchange, in public, which can impede users' access to and experiences in urban public space.

4.3 The erosion of public space in theory and practice

Our right to public space has been eroded by structures/systems of authority and control—through a form of territoriality based on unreasonable fear. It might be a good time to loosen the reins a little and for the public to take greater ownership of public space.

Rob O'Flanagan 2014, n.p.

The above statement by journalist Rob O'Flanagan highlights a far-reaching concern that rights to public space have been eroded by structures and systems of authority and control. O'Flanagan's statement raises two points. First, he identifies the erosion of our (collective/monolithic) right to public space. This section examines such structures and systems of authority and their impact on public space from different disciplinary perspectives. Second, O'Flanagan identifies the need for collective ownership of public space. Following a review of the perceived erosion of public space in theory and practice, this section reviews examples of events and private-social exchange that occur in public and considers their impact on the right to public space, as championed by O'Flanagan and others. These subsequent examples of events and activities do not fit neatly with structures or systems of authority and control. Nevertheless, they do affect access to public space. The question is, to what degree? Do they enable the public to take greater ownership of public space? Considerations about the right to public space and ownership of public space underpin the subsequent chapter, which identifies diverse publics and degrees of accessibility to present a more nuanced spectrum of spaces that belie any polarised representations of public or private space in the city.

O'Flanagan's statement draws attention to another dimension of public space, when structures or systems of authority compromise access to public space. In addition to the physical parameters of public space and the functions that take place therein, there is also a psychological dimension. Scholars in many disciplines, who are discussed in the following pages, have attributed the erosion of public space to several key factors, including commercialisation or commodification, various forms of ownership and control (overt and hidden), management practices, the homogenisation of design and social behaviour. Factors can be recognised as triggers and evidence of privatisation of public

space, including increased security presence, cameras, anti-homeless devices and overt signage as well as subtle interventions by designers such as the provision of lighting (Figure 4-3).



Figure 4-3: Overt security signage on Hindley Street, Adelaide, informing the public of security presence and site regulations. (Photo by author 2019)

Eurocentric and American theories are dominated by narratives of loss, decline, segregation, exclusion and accessibility. Narratives make reference to historical views of collective life, collective identities, citizenship and democracy, perceived to be threatened by consumerism, the media or political structures. These narratives are often shaped by narrow definitions of public space, disregarding the continual redefinition of public space through active and ongoing contests between different user groups (diverse publics). Urban theorist Mike Davis (1992,1998), American architect Michael Sorkin (1992) and Professor of Sociology Richard Sennett (1977, 1990), among others, lament the loss and debasement of public space, based on nostalgic understandings of public spaces, from the agora, early Parisian cafés, New England town squares and Habermas's bourgeois ideal public sphere, where cohesive public discourse thrived. Some critics consider these traditional views of public space responsible for the simulacrums of contemporary public spaces produced by commercial groups and government agencies (Banerjee 2001; Charlesworth 2005; De Magalhães 2010; Lefort 1988). Crawford (1995, p. 5) suggests that an alternative understanding is required—one of contestation, competing interests and conflicts whereby the expression of public concerns is not simply

a reproduction of existing ideologies. These ideals pose a threat to public space (Bell 1999; Carmona, De Magalhaes & Hammond 2008; De Magalhães 2010; De Magalhães & Carmona 2009; Hajer & Reijndorp 2001; Koolhaas 1995; Koskela & Pain 2000). Taking cues from Crawford (1995), the implications for public space, then, are that the diversity of forms and increased opportunity for activities can stimulate the evolution of new relevant publics and a richer public life.

For academics and critics, threats to public space are multifarious. The result is an identified crisis of place. This crisis, articulated in fields as diverse as media theory, philosophical anthropology, geography, planning, urban design, urban planning and architectural theory, is pervasive in the United States and the United Kingdom (Carmona & De Magalhaes, 2006; De Magalhães 2010). The crisis is linked to a persistent narrative of commercialisation compromising or diminishing the social life of public space (Gaffikin et al. 2010), and noting present concerns that cities are continually renewed with the public gaining increasing economic control as consumers and residents (Holden & Iveson 2003; Madanipour 2017). These studies are dominated by concerns of loss, decline, ambiguity, segregation and exclusion, exacerbating the categories that clearly distinguish between 'public' and 'private' space.

This next section systematically reviews theories of erosion and practical studies that document the decline of public space. The theories discussed highlight contests between public and private interests and between different users. Diverse publics are discussed later in Chapter Five.

4.3.1 Ownership and control

Ownership—whether a space is owned by a government body (public) or a private individual or corporation (private)—is a consistent parameter in assessments of the publicness of public space. The line between public and private control is increasingly unclear. Urban space that is seemingly public is often privately owned, typically by corporations that allow public access (De Backer et al. 2016; Németh & Schmidt 2011; Madanipour 2017; Zukin in Lee & Bourderonnet 2018; Varna & Tiesdell 2010). The distinction between private and public space is difficult to quantify because of this lack of clarity; there is no physical demarcation between public and private space (Gaffikin et al. 2010) except through signage warning users (Figure 2-4). The criteria of free access (no cost) and lack of discrimination of entrants does not satisfy understandings of all public spaces (Kurniawati 2012). The lack of clarity around a public and private space is of ongoing concern.

The expanding private or semi-private sphere is complicating understandings of space when these spaces are significant private—social arenas (De Backer et al. 2016; Goodsell 2003; Madanipour 2017; Ortega 2004). There is not a simple differentiation between owner and user, but a 'complex family' of different users (Weintraub 1997, p. 2). Liberal models of ownership are discussed in many disciplines, including political theory, cultural geography, urban theory, legal theory and philosophy. These models propose an interrelationship between public space and ideals of social liberty and raise questions about whether public and private interests can operate successfully in a combined development. Liberal economic models propose that the public-private distinction is one between administration by the state or by the market economy. This model considers inclusion as granted only if you meet the behavioural ideals and norms of the dominant culture (Staeheli & Thompson, 1997). Neo-liberalism extends this notion, promoting a society based on enterprise and competition that regulates behaviours (Foucault 2008; Hayek 1945; Madanipour 2017), re-envisaging society through an economic lens.



Figure 4-4: Signage displaying ownership of the public plaza at The District, Newquay, Victoria Harbour and Waterfront City, Melbourne, tucked in among the entertainment zone. (Photo by author 2019)

Civic models of ownership distinguish between a restrictive private political community and open public state administration. Feminist perspectives of ownership distinguish between private spaces dominated by the family, interpersonal relationships and public spaces controlled by wider socio-

economic structures. Democratic (American) and Labor (Australia) parties typically emphasise the need for physical public space where tolerance of differences and social justice must be exercised (Mitchell 2003). The Republican (American) and Liberal (Australia) party perspective of ownership similarly considers membership and participation in the public sphere relating to responsible behaviour and assumptions that should not exclude social groups from citizenship or public space (Staeheli & Thompson 1997). As Mitchell (2003) declares, social justice can only exist when all groups (publics) have the right to be in public space.

The models outlined above consider ownership as the determining factor of public access, which is in conflict to the core ideal of public space. The right of access adds confusion to ownership for private spaces that are labelled public in marketing and media or on signage, thereby alluding to right of access and public ownership. In practice users are not aware of ownership arrangements. Restricting access is therefore a diffuse form of overarching control regulating public space function and symbolic purposes (Madanipour 2003).

Different cities, governments and cultures permit and manage the line between private and public ownership and its transparency differently. If ownership is invisible, the public must take cues for appropriate behaviour from others. Private and public uses can overlap. This, of course, is not always the case. The delineation is clear when the activities occurring in a public space are seemingly incompatible with private activities where public access is limited. This is what ultimately matters in defining publicness and what is important for landscape architects and other built environment professionals to assess and respond to in creating spaces that better encourage and serve as many of the public, for as much of the time, as possible in the city. The following chapters review methods to assess spaces and uses and examine the diversity of public users. The following section considers the primary ways that threats to public space have been represented.

4.3.2 Management

The professionalization and compartmentalization of public service delivery structures in general and the lack of a specific focus on public space has meant that public space have been managed by a collection of bodies, often located in separate departments specialized on narrowly defined services, which happen to take place in public space.

Claudio De Magalhães 2010, p. 565.

Public space management practices in city centres changed dramatically in the 1970s with the rise of urban renewal projects, brownfield developments and new developments at strategic commuter rail hubs or transit-oriented developments. This change in management practices was also shaped by the increasing involvement of diverse stakeholders, including representatives from the private sector, government authorities and community groups (Balassiano 2013; De Magalhães 2010; Németh & Schmidt 2011). Changes in management practices have included the establishment of or collaboration between business improvement districts, private finance initiatives, town centre management schemes, management boards, land development trusts and the outsourcing of state-run maintenance to private companies. Each of these have generally been considered to represent increased privatisation in both the design, management and maintenance of public space.

The management of public space presents several challenges, including perceptions of effectiveness and co-ordination. These challenges are linked to competing aims within landscape design and amenity management (Balassiano 2013; Özgüner et al. 2007). The challenges associated with the co-ordination of resources, regulation and maintenance have been deciding factors in determining who is responsible and who is consulted, resulting in management structures that are not uniform across governments and other institutions (Carmona et al. 2006; Dark Matter Laboratories 2019; De Magalhães & Carmona 2006; Madanipour 2017). This is most evident in large, mixed-use developments (Cybriwsky 1999).

Privatisation has a long tradition in the management of public space, with many authors citing the examples of London estates in Bloomsbury and Belgravia in the 18th century, where governments approved privately owned and managed public space to ensure that the quality and value was maintained in times of financial difficulty. The tradition extends to an uneasy relationship between public and private interests in the management of privately owned public domains such as Sydney's New Rouse Hill Town Centre, which is marketed as the 'heart of [the] community' or Adelaide's Plant 4 Bowden, which is marketed as 'celebrating the community'. Changes will continue to develop because of the way in which responses to economic and financial crises within the public sectors (local government) are handled (De Magalhães & Carmona 2006). This is evident in the United Kingdom, as noted by Raco (2003) and Japan, as noted by Sorensen (2002), where governments are increasingly acting as facilitators, not managers, resulting in developers determining control and access to spaces (Figure 4-5). De Magalhães and Carmona (2006) argue that these changes will increase at a greater rate, particularly in the United States. Development in South Australia and the subsequent rise in developer-initiated public spaces further exemplifies the predictions of De Magalhães and Carmona (2006).



Figure 4-5: Tokyo Midtown event celebrating the film release of Godzilla in 2014. Featuring four hectares of open space accessible to the public and marketed as public space, Tokyo Midtown is managed by a subsidiary of Mitsui Fudosan Co Ltd.

(Photo courtesy of Motoko Sumitani 2014)

Public sector management (local and state government) is seen by De Backer et al. (2016), Madanipour (2017), Minton (2006) and Murphy (2001) as a reconsideration of how governments and public authorities provide public services and how they counter undesirable activities. Governments become an enabler as opposed to a provider, reflecting a transfer of power to private individuals. Kings Cross Central, London, is one example presented by Minton (2016) that combines corporate and state-controlled areas. It should be noted that corporate control of public space has been challenged by Neo-Situationist Activists, Reclaim the Streets and Space Hijkackers, who have used temporary occupations to reclaim public space as space for a more expansive concept of the public. Reclaim the Streets, in particular, is dedicated to the decommodification and transformation of streets and other public spaces.

Another concern in the public sector is open space funding from the private sector. In this scenario, funding is administered by the state government while the provision of public space is delivered at the level of local government. In these examples, decisions about how the funding is spent is the jurisdiction of state government, not the local government. A prime example is the South Australian Open Space Contribution Scheme, where a mandatory contribution of 'up to 12.5%' of a land division's area and predetermined monetary amounts, are prescribed in the South Australian Development Act 1993.

Changes in the management of public space reflect changing relationships between the private and public sector (government), renewed interest in the quality of public space and a greater appreciation of policy. Management changes are a reflection of the acceptance of broader roles of public space as a global and local means to enable urban regeneration and investment in times of international competition between cities and regions (De Backer et al. 2016; De Magalhães & Carmona 2006; Madanipour 2017). Changes have resulted in a focus on design quality for users to encourage diverse use and 24-hour lifecycles of public space activation. This focus on urban regeneration and the provision of high-quality public space is matched by renewed concerns about accessibility and authenticity of user experience due to management practices, under-management and over-management.

Under-management

If people use space less, then there is less incentive to provide new spaces and maintain existing ones. With a decline in their maintenance and quality, public spaces are less likely to be used, thereby exacerbating the vicious spiral of decline.

Carmona et al. 2003 p. 111.

Carmona, Heath and Tiesdell (2003), and more recently, Dark Matter Laboratories (2019), describe a cycle of decline related to the undermanagement of public space. This decline is related to the degraded physical features that, in turn, do not invite or even enable ongoing use, resulting in further neglect. Under-management theories discuss the negative consequences of poorly designed or maintained public space. These spaces are linked to environments with negative social behaviours including littering, graffiti and/or vandalism. The loss of public life reducing social interaction and a decline in public health is attributed to poor design performance, resulting in environments that encourage or permit uncivil behaviour, a heightened fear of crime or disadvantage to a community. Concerns about under-management and the physical decline of public space can be traced to the seminal writing of practice-based critics, including planner Jane Jacobs (1961, 1984) and architect Oscar Newman (1973), who championed defensible space theory.

The argument that poor management practices affect how public space is used is not new nor is it limited to current social trends of acceptance of public space. Coleman (1985), Gehl (1996, 2010, 2013), Olmsted (1997), Tibbald (2001) and Whyte (1980, 1988) have similarly argued that use is directly related to quality. Their works are pioneering studies in the fields of planning and architecture and have influenced work in the disciplines of geography, landscape architecture and environmental psychology. The work of political geographers Mitchell and Staeheli (2009), expands on the work of Carmona, Heath and Tiesdell (2003)

who argues that the perceived abandonment, dereliction and poor maintenance of public spaces has led to the appropriation of these spaces by marginalised or undesirable publics, for example, the homeless and youth (skateboarders and teenagers). This scenario is recognised by many researchers, who advocate good design and management to reverse the decline in use or the appropriation of space for undesirable uses. Desimini (2014, p. 33), among others, sees the potential in the abandonment of space, suggesting an opportunistic ground for 'fruitful operation and reconfiguration of urban landscape' in which 'old models of efficiency and construction no longer apply' and 'maintenance becomes a tool to shape physical space' for public use.

Under-management theories lead to practical interventions in the public sector (government) as a direct means of revitalising public space. Concerns about the decline or loss of public life are highlighted to justify the expense of new high-quality open spaces for growing populations, offering further opportunity to improve the health of a community. The South Australian Government's Demonstration Fund is one such example. The fund committed \$20 million over four years to deliver projects in the Adelaide Park Lands to revitalise the environment and to attract new users, with a secondary aim to exemplify new partnerships and shared stewardship between the State Government, the City of Adelaide Council, inner-city councils and the community. The fund delivered the following projects, managed by the author: the temporary city skate park in King Rodney Park/Ityamai-itpina (Park 15), Pelzer Park/Pityarilla (Park 19) Activity Hub and Dog Park, Josie Agius Park/Wikaparntu Wirra Netball Courts Upgrade (Park 22), Gladys Elphick Park/Narnungga Urban Park (Park 25) and sections of the City Bikeways (Figure 4-6) and other masterplans.



Figure 4-6: City of Adelaide bikeway. (Photo by author 2021)

Over-management theories

Critiques of over-management of public space focus on the perceived erosion of public space resulting from a decline of authenticity or 'placelessness'. Overmanagement is discussed by architect Michael Sorkin (1992), urban historian M. Christine Boyer (1994), sociologist Sharon Zukin (1995) and urban planners Anastasia Loukaitou-Sideris and Tribid Banerjee (1998), to name a few. They explore over-management in terms of specific, formal, high-profile publicly accessible urban spaces, not least, Times Square in New York City and Millennium Park in Chicago. Such spaces have become increasingly redesigned to serve corporate interests (Listerborn 2005). Raco (2003), among other researchers, discusses over-management in terms of the policing of urban space and the increased security of space. There is further opportunity for research on the management of public spaces designed for ceremony, public events or civic activities, for example, Federation Square, Victoria, or South Bank in Brisbane, Queensland (Figure 4-7).



Figure 4-7: Artificial beach at South Bank, Brisbane, Queensland. The site is marketed as a cultural destination with 17 hectares of park lands, promenades and event spaces.

(Photo courtesy of Nicole Arbon 2014)

The main concerns of over-management theories in corporate (private) and government settings are exclusion and segregation. The negative effects of over-management and how over-management appears as an erosion of the quality of public space is discussed primarily in the disciplines of architecture, urban planning and political geography (Boyer 1994; Crawford 1995; Cuthbert 1995; Loukaitou-Sideris & Banerjee 1998; Minton 2006; Sorkin 1992; Zukin 1995). Increased security measures and the redesign of public space can affect the perception of access within these public spaces (Kohn 2004; Low & Smith 2006; Minton 2006; Oc & Tiesdell 1997), resulting in dysfunctional forums of social activity, including empty urban plazas and shopping malls of different size and affluence (Dung 2009; Mitchell & Staeheli, 2006).

Handover or the contracting of public spaces to private management organisations is linked to the closure or policing of functions in public parks and plazas. Corporate interest in business improvement districts is linked to gentrified introverted spaces that de-emphasise the public nature of streets, parks and gardens (Ehrenfeucht & Loukaitou-Sideris 2010; Zukin in Lee & Bourderonnet 2018). Management strategies in business improvement districts introduce plans, controls and policing; these are linked to the creation of 'hot spots' of activity that displace individuals or groups thought to be responsible for social problems, or 'cold spots' that attract the socially excluded (Minton 2006). Such divisions are a form of exclusion where management is actively creating socially polarised urban public spaces.

The erosion of wider public access represents an appropriation of public space by private corporations to foster a perception of security (De Backer et al. 2016; Ellin 1999; Raco 2003). Such appropriation through security measures can be a consequence of decline, prompting the redesign of spaces to attract defined types of use and satisfy the expectations of investors. Critics of this mode of improvement by private corporations or the public sector note that there can be disconnection between the location and existing and new users, compromising any established sense of place.

4.3.3 Over-design and homogenisation

Another dimension of the debate about the erosion of public space is attributed to over-design, resulting in homogenisation and a decline in authenticity. Over-design is linked to globalisation and the development of formulaic criteria deemed responsible for successful public space creation. While often popular and successful, such formulaic responses have the potential to increasingly reduce the number of genuine places and to replace them with caricatures. The loss of genuine places mirrors Wilson's (1995, p. 157) concerns about long-term influences over everyday use, where 'not only is the tourist becoming perhaps the most important kind of inhabitant, but we all become tourists in our own cities'.

Carmona (2015, 2019) links the repetition of formulaic responses to globalisation and a loss of place attachment. He cites the successful regeneration of Baltimore's Inner Harbour as an example of formulaic responses copied around the world for leisure-based public spaces. Formulaic responses result in elements of continuity and character, where cloned elements replace the distinctive qualities of a place to cater for tourists and a wider group of publics. Despite concerns about the loss of distinctive qualities, which are important in public space, they have not, to date, been objectively measured (refer to Chapters Six to Nine for further discussion).

Byers (1998), Doherty et al. (2008), Gaffikin et al. (2010), Johnson and Glover (2013), Smets and Watt (2013), Sorkin (1992), Voyce (2006) and Zhelnina (2011) argue that commercialisation of social life has resulted in partitioned public space, with the creation of 'fake' or anaesthetised spaces that are driven by economic imperatives and the reduction of public space to a generic commodity. Homogenisation is a form of mass consumption of public space, shaped by shared cultural norms that reduce the individuality of that space. The creation of homogenised spaces reveals the often invisible ways in which public space is produced and regulated within cities, reflecting patterns of assigned aesthetics, function and use. The homogenisation of public space reflects the increasing circulation of the aesthetics and structural elements among different cultures, forming shared norms that reduce individuality while increasing collective cultural identities (Frank & Stevens, 2007).

Homogenisation is criticised as providing predictable, generic lures (Varnelis & Freidberg 2008), which are highly visible (Westphal 2004) and superficial. Such places are placeless, yet they still necessitate a considered spatial arrangement and management process. Success is measured by the number of users, the amount of activity in the space and the economic gain (Crang 1998). Carmona (2010) questions this measure of success by returning to the components of place, concluding 'that 'placelessness' is not a product of the lack of activity or carefully considered physical form, but instead an absence of place-derived meaning' (Carmona 2010a p. 140). The outcome of placelessness resulting from homogenisation is the uncritical acceptance and creation of mass-valued spaces. One example is shopping malls, which have dramatically changed the social context of public space (Voyce 2006). Constructed as a predictable controlled environment, there is little engagement with the public because of the standardised inauthentic landscapes that filter desirable publics from the unwanted (Arefi 2004; Carmona 2010a; Gaffikin et al. 2010; Krupa 1993; Raco 2003; Relph 1976; Voyce 2006). The creation of such inauthentic landscapes undermines 'place for both individuals and cultures and the casual replacement of the diverse and significant places of the world with anonymous spaces and exchangeable environments' (Relph 1976, p. 143). These spaces are out of touch with the needs of users and are simplistic representations of generic lifeworlds, ignoring temporal, social and individual circumstances. Further, their 'identity is not linked to the idea of belonging to a particular place, but is based upon the ability to buy consumer goods' (Voyce 2006, p. 282) Relph's and Voyce's concern are not shared by all critics.

Architect Jan Sircus (2001) is one critic who considers engagement with place as the measure of success. In this regard, both Sircus (2001) and Zukin (1995) agree that Disneyland (Figure 4-8) represents a significant and successful new form of public space in the late 20th century (refer section 3.1). Disneyland is an example of homogenised space, replicated in seven locations. While

Disneyland does not a fit into the traditional context of public space, many authors argue it blurs the line of distinction by appearing to be public by marketing the notion that all are welcome. Those who are welcome enter at the discretion of the owner.



Figure 4-8: Westernland, Tokyo Disneyland, Chiba, Japan. (Photo by author 2013)

Zukin (1995) identifies Disneyland's factors of success as:

- visual inclusiveness, through an aesthetic designed to transcend ethnic, class and regional identities;
- spatial control, through a highly choreographed sequence of spaces, allowing people to watch and be watched and to participate without embarrassment; and
- private management, aimed at controlling fear—no guns, no homeless, no illegal drinking and no drugs—promising to make social diversity less threatening and public space more secure.

The design and management of Disneyland removes risk. The consistency or homogenisation of Disneyland's landscapes and shared spaces transcends language barriers to maintain safe, expected experiences.

4.3.4 Commodification

Space is cut off, separated, enclosed, so that it can be easily controlled and 'protected'. This treatment succeeds in screening the unpleasant realities of everyday life: the poor, the homeless, the mentally ill and the landscapes of fear, neglect and deterioration. In the place of the real city, a hyper-real environment is created, composed by the safe and appealing elements of the real thing, reproduced in miniature or exaggerated versions.

Loukaitou-Sideris and Banerjee 1998, p. 280.

Commercial activities have been part of public spaces since the agora, and to some extent, have always restricted the range of other public space uses (Drucker & Gumpert 1998). Since the 1960s, the view of public space as an important commercial commodity has become a concern in many disciplines, including urban design and geography. These disciplines see commodification as the end of traditional public space. The blurring of lines between private ownership and public ownership has been aided by seeing public space as a place of value and investment by governments and developers (Dark Matter Laboratories 2019; Fraser 2007; Harrison 2009; Karrholm 2012; Madanipour 2017). Investing in public space is a lucrative option for business and a means for government to recover costs from the private sector (De Backer et al. 2016; Dark Matter Laboratories 2019; Hajer & Reijndorp 2001; Van Melik et al. 2007). Commodification can result in the sterilisation of urban space and the sanitisation of social space (Cuthbert 1995) in response to downturns of economies, escalating property prices and costs of maintenance in areas under pressure from development.

Increased demands on public space and a perceived requirement to compete with other cities or even other parts of a city, alter public space by prioritising and marketing particular locations at a city-wide level. Outcomes include the creation of hyper-real commodified environments and the phenomenon of 'private—public' places (Smets & Watt 2013). Within private—public places, rights are transferred to corporations. Corporations may have the right to obstruct use, undertake construction and reinstate or remove public space as they see fit. As Graham (2001), Minton (2006) and Walliss (2017b, 2018) note, partnerships and change of ownership are a pervasive form of privatisation in which private owners have the power to restrict access and activities. This form is experienced in commodification of all public space typologies, including streets.

Critics of commodification are concerned with increases of creeping privatisation as a consequence of creating simulated spaces (Boyer 1994; Hajer & Reijndorp, 2001; Harvey 2000; Raco 1993) and with manipulations of space to enable capitalism. A common concern of deliberate commodification of space is the annexing of public space for events. The events of Splash Adelaide provide various examples. They are facilitated by the City of Adelaide and funded by private corporations or community organisations with the aim of bringing more users into the city. The first year's events in 2011 included popup bars, road closures and art exhibitions. While there were positive results, with popular general support, critics point to the displacement of everyday users for target demographics. Splash Adelaide created forms of temporary manufactured space at a range of scales and in varied urban contexts, including parks, gardens and streets, with the objective of attracting visitors. The

outcomes of events such as Splash Adelaide are discussed in Chapter Nine and Chapter Ten.



Figure 4-9: Splash Adelaide event, Hindmarsh Square, Adelaide. Events included a pop-up play space and Out of the Zoo Spot the Animals.

(Photo by author 2013)

4.4 Events and private - social exchange

The concerns about the erosion of public space in the city, discussed above, reveal a largely polarised view of public and private spaces. Studies in diverse disciplines reveal how changes in ownership, management practices, the homogenisation of public space and the commodification of public space can compromise accessibility and erode the sense of place identity. This review also reveals that a distinction between public and private space is not always clear. The possibility of distinguishing between private or public space is further complicated when one considers the use of public space for specific events like Splash Adelaide, mentioned above, or private—social exchange. The activities may be impromptu (transgressive) or planned (official permission granted or licensed), unfamiliar, regular occurrences or one-off activities. Activities that are not planned, programmed or designed for might also be interpreted as forms of privatisation. These activities raise questions about whether the everyday user is displaced or excluded from the space and does it matter if the distinction between private use and public use is no longer self-evident?

The divide between public and private is complex when considering function and use (De Magalhães 2010; Madanipour 2003, 2017). Authors' approaches to temporary activation and achieving active community centres vary and include focus on building (Geppert 2013; Jodidio 2011; Koolhaas et al. 2008; Scardino, Stern & Webb 2004; Tschumi 2010), planning (Bishop & Williams 2012; Jovis

2007; Oswalt, Overmeyer & Misselwitz 2013; Temel & Haydn 2006; Zander 2008; Ziehl et al. 2012) and representation of experiences (Bauman, Franklin & Biemann 2010; Eberle et al. 2001; Weitzel 2011). Dale Leorke, media studies and urban planner, identifies a phenomenon whereby people reappropriate public space, which 'contradicts the prevailing trends toward the privatisation, commercialization and pervasive surveillance of formerly public spaces' (Leorke 2014, p. 2). At the same time, the appropriation of public space by specific user groups can exclude other users (Talen 2000), thereby representing temporary privatisation through exclusion. In the design disciplines, including urban design, planning, landscape architecture and architecture, public space is considered freely accessible to the public, while private spaces have limited general public access. In disciplines such as sociology and anthropology, the discussion focuses on the body, whereby public space encompasses everything outside of private, individual, family and domestic arenas. These definitions blur the distinction between private and public by emphasising user versus owner and the division of institutions and activities (Clarke 2004). The distinction is further blurred when expected behaviours and social activity of the public occur in the private domain.

Questions around restriction of who and how people access public space are typically discussed as responses to security, aesthetic or social issues. Security issues are overt forms of control, and involve speculations and militarisation in response to events and specific conditions. An example is the overcrowding of Liverpool in the 1860s and early 1870s and its associated negative public health problems (Marne 1991), the September 11, 2001 attacks on the World Trade Center and the Pentagon, the 2017 Bourke Street car attack in Melbourne and the 2017 London Bridge attack. Attacks on the public, such as the September 11, Bourke Street and London Bridge attacks, have a far-reaching impact on security measures globally within the urban environment. These attacks have resulted in a narrow segment of the population controlling positions of economic and political power (Marcuse 2011), design measures and public access to public space. Controls include tactics to oppress and nullify public opinion and liberties in public space, restricting public access and creating barriers. Many tactics are aesthetic in nature and represent subtle design interventions, securing or excluding users through the manipulation of materials. Rights to public space are blurred by new forms of commodified space with homogenised aesthetics. These have been criticised as increasing and promoting social isolation and engendering health and economic problems through the creation of informal, movement-oriented 'loose' space (Carmona 2010a, 2010b; Voyce 2006).

These controls are either physical, such as bollards or fencing (Figure 4-10), or subtle, such as a security guard who might single out one segment of the public and not another (Figure 4-11). For example, Zukin (in Lee & Bourderonnet 2018)

examines alcohol consumption in Bryant Park, New York, comparing the presence of middle-class users consuming alcohol who are ignored, while homeless drinkers are asked to leave. This example raises questions about freedom of use and permissible activities by different user groups. There are many ways different user groups can compromise access to public space for other users. Groups, such as skateboarders or schoolchildren, argumentative elderly men, tai chi groups, meditative yoga clusters or family gatherings, might appropriate public space, making others uncomfortable or unable to use the same space. Wolfe (1997) proposes that members of the public play an important role in determining the publicness of public space in modern urban social life and that the public can self-generate and enforce community ideals on individuals through the pressure of social conformity. The public, as described by Wolfe (1997), controls behaviour through soft sanctions, which are separate from state controls or private controls. Others consider state ownership as a diffuse form of control linked to a perceived, yet essentially false guarantee of open public access supported by local and state governments encouraging events such as yoga in parks, festivals or community-initiated activities such as Splash Adelaide. The notion of ownership or private ownership does not always offer clear guidelines to users, designers or managers about access to public space.



Figure 4-10: Physical controls in Vardon Avenue, Adelaide during the Adelaide Fringe Festival to designate commercial event spaces. (Photo by author 2019)



Figure 4-11: Private security patrolling Tokyo Midtown, Japan, public plaza and entrance. (Photo by author 2009)

It should be noted that Iveson (2007), Jayne, Holloway and Valentine (2006) and Listerborn (2005), among others, argue that public spaces may be becoming more public than ever in an Anglo-Saxon context. The authors cite everyday use of European towns and cities as examples of openness and inclusive public space, arguing that there has never, in fact, been a point in urban history where public space was thoroughly public and open for all or a time when it has not been contested by different social groups with contradictory interests. Lending weight to this argument, Worpole and Knox (2007, p. 4) contend that 'contrary to conventional assumptions, public space in neighbourhoods, towns and cities is not in decline but is instead expanding'. This thesis questions if changes intended to be more inclusive can result in new forms of exclusion, albeit to a different group of publics.

4.5 Summary

I argue that, to remedy injustice in public spaces, planning must be informed by a critical politics of difference, which can distinguish between various kinds of social difference.

Kurt Iveson 2000, p. 219.

If the essential role of public space is to be a place for all and the distinction between private and public is no longer self-evident, there is work to be done to determine ways to design which embrace uncertainty and nurture new opportunities. Landscape architects and other design professionals who are responsible for the design of public space need tools to identify, qualify, assess and appropriately address the erosion of public space in consistent and comprehensive ways within increasingly and desirably diverse cities.

Discussions that emphasise narratives of erosion focus on the disappearance of physical public space, the decline in quality and the segregation and exclusion resulting from restrictions on use. These critiques are founded on assumptions about successful public spaces, which can be problematic. Yet, contests over public space show that narratives of perceived erosion may be premature and unfounded. Contests are related to regulations placed upon publics to restrict access to public space and to what, who and how public space is controlled. While each narrative is framed by individual disciplines, clear links are evident:

- Successful public space components, qualities, activities, needs and experiences are not reflective of all types of public space;
- There is a polarised representation of public and private spaces, which are frequently presented as mutually exclusive entities;
- Structures or systems of authority compromise access to public space;
- There is disconnect between site improvements and existing and new users, compromising any established sense of place;
- The deliberate commodification of space is the annexing of public space for events; and
- There is no simple demarcation between public and private space.

As geographer Edward Relph (1976) argues, without a comprehensive awareness of place, it is difficult to describe why particular places are special and linked to people's identity and attachment of place. Researchers and practitioners must acknowledge public space has changed, and continues to change in the city. An erosion of public space, whether perceived or actual, is of significance to landscape architects and the role they play in creating and defining public space. An awareness of public space and the extent of any erosion must be understood through assessment of a space, assessment of exclusion and interrogation of who is excluded. In this way, the physical efficacy of how spaces work to provide for a diversity of public uses and publics can be grasped with a view to effective design and management of public space in the future.

This chapter has highlighted that different activities and events (subtle and overt) within public space occur as part of everyday life. They are often overlooked or misinterpreted as privatisation and linked to ownership, management and use. Patterns of inclusion and exclusion can either be maintained or dissolved by structuring interactions through spatial practices

and architectural markers that reinforce or challenge social dynamics and hierarchies. Therefore, privatisation is not always about paying or not paying. Rather it relates to notions of exclusion, marginalisation or a sense of lack of belonging. These patterns demand further interrogation about how the public (the user) is defined, rather than how structures of authority might alienate the public. To do so, Chapter Five presents a new typology of publics and proposes a new set of measures to appreciate degrees of access or degrees of the 'publicness' of public space. These proposed measures suggest that a variety of public spaces is required to fulfil the needs and aspirations of a variety of publics.

Chapter Five Diverse publics



5.1 Degrees of access

The previous image (Figure 5-1) reveals a homeless person occupying a bench on the footpath. A pedestrian walks by. Two Jehovah's Witnesses evangelise their beliefs. The image raises the following questions: Who belongs to the 'public'? Who has access and who does not? Does public space define what type of public you are?

This image shows the public is not a monolithic entity. As Iveson (2003, p. 217) argues, a liberal model of inclusive public spaces open to all regardless of status 'reinscribes particular forms of subordination and exclusion'. The definitions of the 'public' and 'public space' presented in the previous chapters highlight the right to access public space and review concerns about the erosion of public space, particularly considering commercial privatisation, events and other types of private use. The same chapters also revealed that distinctions between public and private space are increasingly unclear. This chapter further interrogates the use of contemporary public space in the city and scrutinises different users who comprise 'the public' by considering the varying degrees of access.

The review of literature identifying concerns about the erosion of public space suggests that access to public space is neither universal nor consistent, and representations of the public can be selective. This is discussed in a range of forums, from academia to the media. For example, geographer Pauline Marne (2001) examined two 19th century parks, Sefton and Stanley Parks in Liverpool, drawing parallels with public spaces today. She argued that the emphasis on one user group often undermined or ignored the representation of other users. The trend is ongoing and concern is warranted. In an Australian context, academics from Griffith University Jason Byrne and Neil Sipe (2010) criticise urban consolidation, arguing that the loss of public open space concentrates social disadvantage and undermines social cohesion. The right of access can change as a space is re-evaluated (in socio-cultural or economic terms) and priority is given to one user group over another. For Professor Emeritus of architecture, landscape architecture and environmental planning, Clare Cooper Marcus (1998), many studies that identify a 'user' assume that user to be ablebodied, young and male, further questioning who is included in the concept of the public. Journalist Shannon Conegan argues that 'men are often assumed to have a right to take up public space, while women (especially young women) work within narrower confines. It's an observable trend' (Conegan 2014, n.p.). Journalist Natasha Frost (2014) argues that access to public space may be problematic in low-income or migrant neighbourhoods where government funding is dedicated to conventional (dominant) user groups or traditional recreation activities. These examples, while not exhaustive, point to shared assumptions about the perceived democratic right to access public space. An emerging and hardly surprising theme is a pervasive inequality—based on gender, socio-economic status, ethnicity, faith, sexuality, age, dis/ability or otherwise—where right of access can be curtailed or denied.

The focus on right of access to public space presents the city as a space of regulated struggles. This right is at once social, political and economic, and subject to normative conceptions of the public. This loss of right of access has been linked to a lack of protection by authorities, and framework for urban policy and design which regulate rights for public access (Nagel 1995; Walliss 2018). Regulated rights of access are summarised by De Magalhães (2010, p. 563) as 'rules and mechanisms that regulate what restrictions there might be on how individuals access the attributes that they value in a particular public space, be they physical access to the site, the use of a facility, the confirmation of a symbolic function'. De Magalhães and others highlight rules, codes of behaviour or enforcement measures that govern use (Figure 5-2). For geographer Don Mitchell (2003), such enforcement measures can even coincide with aesthetic concerns; by way of example, 'anti-homeless laws are thus interventions in urban aesthetics, in debates over the look and form of the city' (Mitchell 2003, p. 186).



Figure 5-2: Keep off the grass, Tokyo Midtown, Japan. (Photo by author 2018)

This thesis maintains that poorly designed public spaces are the result of a poor understanding of the contemporary public. Professor of Planning, Mahyar Arefi (2009), contends that a new way of dissecting publics is required, arguing that multiple territories coincide with multiple publics that can co-exist. This chapter identifies the multiple and diverse publics: the defined public, the appropriating public, the transitory public and the illegitimate public.

5.2 Diverse types of public

Who and how publics are categorised has been discussed since the 1880s. Social reformer Charles Booth categorised seven classes of the public in London between 1889 and 1899. The categories were based on a socio-economic mapping exercise that linked these public entities via location and job to the city and excluded gender, sexuality and income (Vaughan et al. 2005). More recently, geographer and urban planner Ted Kilian (1998) categorised three types of public with rights to public space, each with different degrees of access and exclusion. Again, he excluded gender, sexuality and income; rather, his categories are inhabitants, visitors and strangers. Carmona (2010, p. 141) summarises these as follows:

- Inhabitants (the controllers): This is often seen as the state/government but is frequently the private sector, such as a large corporation.
 Inhabitants have rights to access and exclusion;
- Visitors (the controlled): These are the users of public space, with rights to access for agreed 'purposes' and no rights to exclusion; and
- Strangers (the 'undesirables'): They have no rights to access and are excluded.

This, and many authors' classification of public, is linked to expected social norms within defined typologies of public space (Fraser 1992; Holden & Iveson 2003; Kilian 1998; Mitchell & Staeheli 2009; Squires 2002). If the significance of public space, as shown in previous chapters, is through how publics contest space and who has access rights, a diversity of publics must be much acknowledged. In this regard, De Certeau (1984), Fraser (1992), Frow (1991), Gaffikin et al. (2010), Marne (2001), Miller (2007), Ruppert (2006) and Squires (2002) attest that there is no 'general' public, identifying instead, multiple 'marginal' publics, which is evident in cities with diverse demographic profiles. Multiple publics are considered by theorists to co-exist and are grouped primarily by ethnicity, sexuality or race. With the standpoint of multiple publics, there is an assumption there are counter-publics, a term Squires (2002) credits to Rita Felski.

Counter-publics are considered a group with differential access to resources, who create their parallel spheres through discourse (Fraser 1992; Squires 2002), constructing alternative interpretations of their identities, interests and needs. Iveson (1998) contends that counter-publics are formed in conflicting relationships with the dominant public. The relationship between the two is dependent on the function of the public space within the public sphere (Squires 2002).

This distinction between multiple and counter-publics is linked to a reversal of rights to public space resulting from urban change, including urban redevelopment, gentrification or the demands of global capital, where the right to the city is not guaranteed.

The categories of public presented below offer a means to interpret publics that occupy a public space, resulting in periods of exclusion for other users (publics). The categories are based on social interaction within a public space and not, as acknowledged in section 5.1, ethnicity, gender, sexuality, race or in short, differentiation of one group from the rest, for example, homeless people. This process of differentiation tends to suppress the fact that difference is variegated. The categorisation of diverse publics presented below aims to minimise any focus on group identities. This is in contrast to Asen (2002), Squires (2002) and Young (1997), who argue that such a categorisation restricts the formation or expression of individual identity and can obscure the development of inter- or intra-public discourse. The definitions focus on how members of the 'public' respond to the space and to other publics via political, social, economic and material constraints.

The defined public is one recognised by community, management and legal systems and structures as the primary user of public space. This type of public is influenced primarily by communities and is explored by examining who the defined public is and who the owner is. An appropriating public is recognised by management and the legal system but is contested by communities. The transitory public is accepted by the community, management and legal systems and structures during defined periods of time and under strict observation and administration guidance and management. The illegitimate public is contested by community, management and legal systems and structures, and is predominately not recognised as public. While this group faces challenges of claiming rights over use, reconstructing identities and gaining access, it reminds defined publics of the lack of safety because of their presence.

The typology of publics, presented below, have spatial, material and formal manifestations with quantifiable influences on public space. They are not exclusive, and overlaps occur. There are many publics and counter-publics, and not all have a similar status, marginal position or characteristics. Publics are formed through their use of a space; a single user can easily occupy a different type of public depending on their actions. This chapter proposes a new set of measures to interpret the publicness of public space based on user statistics. These proposed measures speculate that to fulfil the requirements for a variety of publics, a variety of public spaces is required. The chapter then concludes by summarising the findings of Part A.

5.3 The defined public

Who is the subject of public space?

Rosalyn Deutsche 1992, p. 44.

The defined public is a dominant and selected group primarily supported, recognised and influenced by communities, manipulating management and legal structures through ownership. The behaviour of this public is predictable and situated within social and political norms. The defined public has a long history of influencing the city morphology as a dominant group that also determines which other publics access public space or not (Marne 1991).



Figure 5-3: Pelzer Park/Pityarilla (Park 19) defined user group included children and families. (Photo by author 2018)

The defined public exercises ownership over public space through economic contributions or as the 'client' for whom the space is designed. The defined public is not static or fixed, it changes depending on the location and the type of public space. For instance, urban regeneration projects in the United Kingdom between 1980 and 2000, including Reading in Berkshire, focused on attracting investors, middle-class shoppers and visitors through the creation of new consumer spaces (Raco 2003). This clear assumption about who should be attracted to these spaces influenced policies and economic strategies. The regeneration of the public spaces was market-driven and created competition between spaces (Harvey 2000; Raco 2003). Staeheli and Thompson (1997) and more recently, Byrne and Sipe (2010), have noted that the act of defining existing and future users creates tension in public space.

Degrees of stimulation, security and identity have been linked to traits of territorial behaviour. As Lawson (2001, p. 18), argues 'we seek to avoid high levels of uncertainty and change and we require a degree of stability and structure in our lives'. Measures of avoidance are examples of a recognition and arrangement of patterns that influence how individuals orientate themselves in the environments that they inhabit and how they communicate with others (Bell 1999; Quayle & Driessen van der Lieck 1997). Such patterns have an ability to form departure points and initial perceptions of new spaces. Based on an observer's profession and experience, perceptions and behaviour will be different (Kaplan & Kaplan 1989; Özgüner et al. 2007). The public is unlikely to see public space in the same way as a landscape architect or other design professional (Harrsion & Burgess 1989; Hayward & Weitzer 1984; Kaplan & Herbert 1987; Özgüner et al. 2007). A user's own experiences act on their individual environmental perception, and past experiences affect future use. This view questions research within landscape architecture and environmental psychology, in which use is seen as a predictable behaviour and therefore, a redundant process.

A balance between continuity and predictability and mystery and complexity is required to maintain user interest in surroundings and to produce social norms. Social norms, as discussed by Lawson (2001), are powerful in creating a sense of security within a group through the development of regulated behaviour. Behaviour is linked to the functionality and purpose of a public space and once developed, can remove the conscious and controlled aspect from behaviour traits. Behaviour of an individual or a group within a given space is a form of communication. Through observations and mapping, the social structures and political environments of a culture can be assessed. Therefore, the use of space should be understood as a communication of public strength or weakness signifying the current social order of urban realms, an area primarily discussed within urban sociology and political geography.

Communication is based on the ability of users to recognise and determine arrangements of patterns to orientate themselves in environments they inhabit, indicating how design influences how an individual can or will communicate. Studies have suggested this outcome is from the ability of any given environment to provide cues for expected behaviour, with user behaviour preconditioned by the placement of furniture, the use of colours, the layout of paths, the amount of lighting or the selection of amenities situated within the landscape. It should be noted that relationships between users and environments are not the same for everyone on the same terms.

Relationships between use and the availability of public space to the public and citizens is important on a number of social levels. Use and availability allow publics to become connected to a place and to display their identity, which

defines how social encounters are stimulated or made accessible. The role of social encounters for publics is an important element of public space, which sociologists, including Lawson (2001) and Lofland (1998), have published in several texts. Lawson (2001, p. 31) states that 'space is effectively an extension of their own behavioural mask', while Lofland (1998) argues that meaningful relationships take place through four types of encounters: fleeting, routinised, quasi-primary and intimate secondary. Encounters can only occur if a connection to a place is established and understood through preconditioning, behavioural traits and past encounters. Encounters establish rules and set behaviour though appearance-based exchanges and non-verbal communication. Group and individual identity are displayed through visibility and awareness of differences and similarities through public interaction.



Figure 5-4: Skateboards, as defined public, when located in temporary city skate park in King Rodney Park/Ityamai-itpina (Park 15) (project and photo by author 2016) and excluded from the defined public on North Terrace, Adelaide. (Photo by author 2013)

The privileging of one user group over another and the impact on the regulations of public space typologies can occur in specific circumstances. For example, skate parks (Woolley 2006) result in the expression of control by

design. Crawford's (1995, pp. 4-9) argument for 'counter-publics' and the struggle over the use of space may in fact shape new political space. Broad exclusions and perceptions of exclusions still dominate perceptions of public space, resulting in homeless people or undesirables quickly being moved on by authorities. Similarly, an individual's behaviour can exclude them from inclusion within the category of the defined public. Riding a skateboard, stepping on a lawn, smoking or lingering for too long in a public place can lead to risk of classification as an undesirable user, excluded from the defined public and no longer accommodated in the space (Figure 5-4). Consequently, what is deemed appropriate behaviour prompts decisions about who is deemed to belong. Accordingly, comprehending the politics of public space is important to determine who the defined public is.

Consideration of territory and of associated territorial controls applying to public space is an important line of investigation because of the distinction of use and related behavioural performances. Planner Sidney N. Brower (1980) argues that this is true for all urban settlements, from villages to cities. The degree of spatial differentiation between territories is hard to characterise. Brower's work states that physical features considered in the context of social relationships are associated with particular types of territorial behaviour and are directly related to behaviour that affects the security and maintenance of a physical environment. This notion has been discussed by anthropologists, urban designers, environmental psychologists and landscape architects since the 1950s. Brower identifies that one territory cannot be clearly distinguished from another on strictly physical grounds, and definitions of human territoriality are based on relationships 'between an individual or group and a particular physical setting, that is characterised by a feeling of possessiveness and by attempts to control the appearance and use of space' (Brower 1980, p. 180).

Selection of territory and territorial controls by an individual plays a significant role in behavioural patterns of the defined public, whether conscious or subconscious. From regulating social interaction and minimising social conflicts, comprehending territoriality gives insights into place-differentiation, which in turn indicates how others are addressed within space and allows different levels of privacy to be obtained. These actions result in behavioural responses that narrow the range of chance encounters, minimise the threat of unregulated interactions and create predictable environments, ensuring one should feel safe and secure.

Brower (1980) acknowledges behaviour related to territoriality is not the only way to regulate social interaction, and a balance between cultural norms and territoriality is required. Brower's notion of culture influencing how people use space signifies that more than one culture should be analysed to interpret public space, and indeed, selected cultures should be socially different in terms

of customs, rituals and protocols. His interest is different to that of other researchers, who focus on particular traits of space or users, for instance, a focus on developed, affluent countries and associated users in public space, or by clear socio-economic or demographic information. Gehl's studies in Italy and Copenhagen from the 1960s indicate that the use of public space is similar in different cultural settings; this viewpoint has been reaffirmed by his continual studies across the globe, which suggest that all publics have basic behavioural patterns in common (Gehl & Svarre 2013).

The frameworks presented above focus predominantly on emotional responses to space and how response affects behaviour. There has been a large amount of research conducted in fields such as environmental criminology, sociology and urban design, linking permanent physical features and environmental measures to increased levels of crime, opportunity to commit crime and space avoidance. While this study is not examining crime directly, key findings and theories from research into the fear of crime are significant and are discussed within this section. These key findings include positions in which 'street crime is an outgrowth of neighbourhood conditions' (Perkins et al., 1993), whereby relationships between aesthetics/appearance and ownership demographics have been determined to manipulate current and future perceptions of the neighbourhood/space and the resulting negative behaviours or, conversely, a reduction in negative behaviour. Kitchen and Schneider (2007) clearly state this line of reasoning, highlighting that:

a high proportion of crime takes place in particular locations and the characteristics of these locations in terms both of their general settings and their specific attributes influence very considerably the crimes that do (and don't) take place there. (Kitchen & Schneider 2007, p. 1)

Kitchen and Schneider note that this can be challenged by acknowledging that physical spaces may be manipulated on two levels: macro and micro. Once the relationship between intervention techniques and crime is understood in relation to the manipulation of built form on a macro or micro level, the reduction of crime or fear of crime may be determined in terms of public standing and acceptance within space. Gates and Rolfe (1987) further suggest that determining reactions to crime can assist policy makers and planners, once combined with assessing the physical and social structure of a location. Brantingham and Brantingham (1993) reviewed studies linking environmental characteristics to crime, concluding that crime should be considered a transactional and transitional event in which the offender appraises the site before committing the crime.

The projective response—the broken window theory—was introduced by social scientist James Q. Wilson and criminologist George L. Kelling (1982) as a

response to increasing crime rates and anti-social behaviour. Their work changed the fate of American neighbourhoods, in particular New York (Lurie 2019), with graphically documented rates of urban decay resulting from a lack of policing, disorder and crime. The results of their studies state that the failure to repair minor signs of 'quality-of-life crimes' (Harcourt & Ludwig 2006)—such as vandalism or graffiti, and prevention of unwanted social behaviours, such as loitering and drunkenness, in low socio-economic American neighbourhoods had a direct relationship with rapid decline visually, socially and economically. Not only that, it was 'inextricably linked, in a kind of developmental sequence' (Wilson & Kelling 1982, p.31). Their studies argued that a failure to repair broken windows quickly or to deal promptly with signs of decay can give the impression that no one cares and that there are no informal behavioural controls in place, which can quickly propel an area into decline and violence. Graffiti, vandalism and noise are considered physical and social incivilities within an inner-city landscape (Kuo et al. 1998) and are linked to landscape preference.

While Wilson and Kelling's studies primarily focus on lower socio-economic areas, key data indicate that the Broken Window Theory and behaviour documented as untended could dramatically affect a neighbourhood in a matter of months, transforming it from one that had a sense of community to one that is seen from the outside as inhospitable. The neighbourhood can undergo a shift from one governed by informal controls to one that invites crime. A study by Perkins, Meeks and Taylor (1992) on the physical environment of street blocks presents data, supporting Wilson and Kelling's theory.

The Broken Window Theory views the physical attributes of a setting as triggers for unwanted and unintended behaviours related to defined public morals and ethics. The theory presents an explanation of how a community's interaction with space influences future use, suggesting that a setting communicates behaviour that would be tolerated. For example, an ordered environment signifies that a space is monitored, while a disordered environment signifies that one may engage in criminal behaviour. Critics argue that the theory established a policy of spatial exclusion and social division by policing predominantly black and Hispanic neighbourhoods and cracking down on minor quality-of-life infractions to stem violence (Lurie 2019). The policing used the notion that groups behaving in a given way are disruptive and therefore, unwanted, because their behaviour does not match the dominant community, surroundings or desired character. The Broken Window Theory posits that a community has the ability to communicate a strong message to criminals, that their neighbourhood will not tolerate behaviour below their level of standards by establishing ordered environments. Government advisors, including former CABE Space (2007) and placemaking advocates such as Katherine Loflin and

Fred Kent from the Project for Public Spaces (PPS), have identified a strong link between community attachment to place and their interaction with place, supporting the theory. Disciplines such as property law approach the Broken Window Theory differently, suggesting that street order or disorder is a result of land management, not crime, and disregard the varying spatiality of the city (Ellickson 1996).

The effectiveness of the Broken Window Theory has been supported by economists Hope Corman and Naci Mocan (2005), leading sociology, law and police studies researchers Wesley Skogan, Robert Sampson, Stephen Raudenbush, Jeffery Fagan. Yet questioned by policy advisors such as Stephen Lurie, and refuted by criminologists such as John Eck and Edward Magurie (2000 in Blumstein, Wallman & Farrington 2006) and political scientist Bernard E. Harcourt and economist Jens Ludwig (2006) and journalist Kevin Flynn (2001). Harcourt and Ludwig's (2006, p. 271) study found that 'existing research does not provide strong support for the broken windows hypothesis—with the possible exception of a 2001 study' by Kelling and Sousa. Those who refute the hypothesis of the Broken Window Theory argue that the theory fails to consider other factors that could lead to the deterioration or improvement of a neighbourhood. Interestingly, social scientist James Q. Wilson also questions the empirical verification of their (Wilson & Kelling's) theory in a 2004 interview, debating whether the theory will or will not reduce crime (Hurley 2004). The negative result of the theory is a demonisation of those who are not the defined public, acting in a socially defined manner; it is also a demonisation of the public space in which the acts take place.

Kitchen and Schneider (2007) define the Defensible Space Theory as placebased crime prevention techniques and day-to-day urban public policy and practice in the United States and the United Kingdom. Developed from Newman's 1960s research on public housing in New York in the United States, the Defensible Space Theory relates to territorial control and territorial influences, including barriers (real or symbolic) and surveillance facilitation. The Defensible Space Theory has influenced public housing in the United States, Belfast in the United Kingdom as well as policy makers in the United States and the United Kingdom. While the theory has been used in reference to a variety of public spaces, critics have considered the theory to work best in residential areas because of the substantial benefits for community design. Initially, the theory was credited as the basis for the establishment of Crime Prevention Through Environmental Design (CPTED), a multidisciplinary approach that uses design and the management of built and natural environments to reduce crime. However, CPTED was developed independently in a similar period. Kitchen and Schneider (2007) consider the main problem with Defensible Space Theory is the perceived simplistic approach to design-behaviour prescriptions. Brantingham and Brantingham (1993) suggest that Newman's, and subsequently Coleman's (1985), early work was limited by the number of environmental clues they assessed. Coleman has been credited with reviving Newman's work in the 1980s in Great Britain. With regard to urban design, Gaffikin et al. (2010) suggest that it may not be appropriate in some public spaces to use all aspects of Defensible Space Theory.

The Broken Window Theory and the Defensible Space Theory combine research on physical attributes and subjective perceptions—a model of research that has been discussed as a less common area in the discipline of Environmental Psychology. Perkins et al. (1993) criticise studies that only consider a resident's subjective appraisal of settings, viewing them as biased and inaccurate. Perkins et al. (1993) maintain that to obtain a clear measurement of reality, active and passive elements of a space need to be measured. Similar standpoints have been argued in criminology.

The Social Disorganisation Theory has many similarities with the Broken Window Theory and the Defensible Space Theory. Originally developed in 1942 in the Chicago School, the Social Disorganisation Theory links crime to neighbourhood ecological characteristics and a neighbourhood's capacity to control residents' behaviour (Markowitz et al. 2001). The Social Disorganisation Theory suggests that behaviour is linked to abnormal conditions, social disruption and designed environments. Shaw and McKay (1942) suggest that behaviour reflects individuals' responding to abnormal conditions, including low economic status, ethnic heterogeneity and residential mobility. Kubrin and Weitzer (2003), Markowitz et al. (2001) and Sampson and Raudenbush (2004) expand on this view, including unexpected change, change over time and spatial interdependence. The emphasis on social demographics indicates that the social nature of the neighbourhood is a greater influence on crime levels than the opportunity to commit crime.

Accordingly, designing out crime is considered an effective measure to reduce crime and protect the defined public. A review of the theories presented above suggests active and passive design measures need to consider how to:

- shape the conduct of individuals;
- restrict their ability for deviant action;
- eliminate objects that facilitate crime, for example, climbable elements;
- eliminate blank spaces;
- eliminate dead spaces;
- define clear ownership;
- manage surveillance (camera and people);
- involve the community;
- clearly define public areas;
- incorporate low-level planting;

- eliminate hiding places;
- limit seating; and
- limit length of seats.

These active and passive design measures and physical environmental characteristics act as cues to direct spatial behavioural patterns in a designated area. In criminology studies, environmental characteristics that act as cues to territorial behaviour, anti-social behaviour, lawful behaviour and lawless behaviour are considered subjective perceptions of residents (everyday users) and potential offenders. Perkins et al. (1993) suggest that permanent physical characteristics can act as a deterrent, while there is another layer of ephemeral characteristics that act as symbols of order or disorder.

The discussion of ephemeral characteristics breaks down the binary view and polarisation of public space traditionally presented in criminology. Criminology studies, as shown above, present a view of disorder and crime or control and community. Criminologists Keith Hayward and Elaine Campbell question this position, stating that the binary view portrays public space and urban life as fixed and static, glossing over the political dynamics of 'spatial contestation' played out in urban life (De Backer et al. 2016 p. 209). The binary view results in public space being analysed for its 'parafunctionality'. This creates 'blunt homogeneity' that does not challenge the imposition of 'intrusive surveillance and control features that shape interactions and turn public spaces into 'non places' devoid of social enrichment and cultural specificity' and are critically one-dimensional (Hayward 2016 in De Backer et al. 2016, p. 208).

This suggestion expands on the Broken Window Theory by placing greater emphasis on the perception of the beholder. Considered in relation to territorial behavioural patterns, the role of ephemeral characteristics within public space, such as event staging, marketing, graffiti and temporary urban amenities, may potentially be subject to cultural norms—being a socially accepted behaviour or activity during defined periods and illegitimate during others.

The defined public is itself a threat to public space because of this dominant group's political and social ability to include and exclude other publics that do not behave as they desire. Threats created by this group are not simply a question of accessibility; they are also a question of design and desire to create or modify public spaces that are perceived as safe. Therefore, it can be argued that design is the modification of public space to match the expectations of the defined public (primarily the white middle class) and the creation of socially ordered and controlled public spaces. This is evident in many public spaces that have design elements discouraging use by illegitimate publics, such as the

minimising or eliminating seating, closed edges, spikes and skate deterrents (CABE Space 2007; Cooper Marcus & Francis 1998; Whyte 1980). As noted by Mitchell and Staeheli (2009), the process of creating socially ordered public spaces is seen as a precondition for urban redevelopment or gentrification, and can precipitate the disorder of illegitimate publics or make them invisible. If, as Ellickson (1996 p. 1174) states, 'to be truly public, a space must be orderly enough to invite the entry of a large majority of those who come to it', must we only design for the defined publics?

5.4 The appropriating public

Public spaces are appropriated through use and evaluated from first contact in terms of security, belonging and the ability to claim them (Figure 5-5). This ability to claim space by disregarding ownership is undertaken by the appropriating public, that is recognised by management and legal systems but contested by communities. This section explores how the appropriating public, which has the right of use but not ownership, affects the management of spatial and formal manifestations, in this way acknowledging how a society's experiences and perceptions can be altered by increased knowledge.



Figure 5-5: Busker on Rundle Street as part of the 2020 Adelaide Fringe Festival claims the street for their fringe show. (Photo by author 2020)

De Certeau (1984), Loukaitou-Sideris and Ehrenfeucht (2009), Marne (1991), Mitchell (1995) and Ware et al. (2011) present 'use' as an act of claiming or reappropriating a space. Various uses of promenading, public speaking, expressions of dissent, gathering, playing and seating, undertaken on a regular basis by the public, affect the publicness of a space. The act of claiming also determines who the public is. Parades are viewed by Loukaitou-Sideris and Ehrenfeucht (2009, p. 38) as a fleeting encounter (or social relationship)—an

event or a celebration that 'both asserts a group identity and inserts that identity into a greater public'. Such events temporarily redefine publicness, purpose and functionality of public space. These acts of appropriation occur through the process of socialisation linked to cultural perceptions. The process of socialisation is facilitated by the sum of perceptions where the ideas and interests of a dominating group become the accepted norm (Jones 1991) and provide a cultural identity and self-definition through habitation and use of a space (Fyfe 1998). Use defines which encounters can take place and asserts which public has the right of way. Therefore, the meaning of the space is temporarily changed by the dominating public, who can assert power over others, noting that appropriation can be a detriment.

Appropriation of space by user groups can result in the spatial segregation of activities in terms of class, ethnicity, race and age. Labelled as 'parochial' by Lofland (1998) and described as 'fragmented' by Loukaitou-Sideris (1996), spatial segregations are distinct spatial types differentiated by design and user types. These spaces are dominated by one type of occupation, for instance, skate parks, play spaces within schools and car parks. Other users are strangers or guests, depending on how well they fit and are not considered the dominant public. Distinct segregation of users within contemporary public space has resulted in a clearly defined hierarchy of user and activity. Those who do not match the perceived, defined occupation are threats to public order. This has influenced a range of literature discussing the perception of strangers as threats within public space (Loukaitou-Sideris 1996). Lang (1994) and Shonefield (n.d.) link this form of segregation to a decline of environmental accessibility and equity. Ware et al. (2011) suggest that young people's appropriation of space is silenced through subtle political methods. Overseeing children in streets has moved from normal behaviour to children becoming a threat because they challenge a defined cultural order where cars are the dominant public and pedestrians become the stranger. Failure to allow for social integration, safety and freedom of movement, as argued by Carmona (2010), are failures to appropriately manage shared public spaces, allowing for equitable use without minimising or excluding others.

The appropriation of public space by temporary commercial enterprises questions established norms and fulfils traditional square models of public space. Blurring established definitions of public and private in complex and paradoxical ways, street vendors, food trucks and pop-up stands and markets are varied commercial activities that result in conflicting public space usage and public perception. Openly occupying space, these commercial activities are permitted in Adelaide but are illegal in many cities. The City of Adelaide, for instance, provides 52 licenses (under review) per year for food trucks as well as permits for pop-up stands and markets for events (Figure 5-6). All are supported by the City of Adelaide, however, there are strict rules and

regulations about where these vendors may be located to minimise the impact on surrounding businesses and provide economic drivers for the city. Night markets have been established as part of Splash Adelaide to foster and expand the night economy of the city. This style of commercial enterprise demonstrates blending of domestic spheres, private spheres and public space, thereby establishing a complex and diverse economy of micro-commerce, recycling and household production. Conflicts in Adelaide arise from private traders presenting arguments that they lose trade while food trucks are near their premises and from 'NIMBYISM' (Not In My Backyard), with residents and businesses not wanting increased activity near them and escalating their concerns into the political realm. Conflicts move the public realm into the political and economic realm.



Figure 5-6: Food trucks at Victoria Square/Tarntanyangga, Adelaide. Access permitted by the City of Adelaide. (Photo by author 2019)

Appropriation of public space encloses publics within a set of predefined social barriers and conventions devised and set by the dominant public (Lawson 2001). The appropriating public does not have to be a user of public space. Owners and planners can become the appropriating publics through the design process, by changing land use functions without considering how the defined, the illegitimate or the transitory publics currently use the space.

5.5 The transitory public

The importance of public space has been evident in the cultural development of countries and people in their ability to gather, communicate and exchange ideas. Adopting the position that pedestrian activity is conducive to public social interaction, this form of activity demonstrates that social exchange can be physically achieved when the ability to gather is diminished. This ability is

argued to be one of the key survival aspects of humans, dictating how an individual moves through a space and how quickly they become accustomed. Transitory publics are a group with limited short exposure to public space and other publics. They are accepted by community, management and legal systems and structures, under strict observations or guidance. There has been little research on transitory publics and the spatial preferences of this group (Foltête & Piombini 2007). Transitory publics do not have to be users of public space (Figure 5-7). They are bound by the same set of predefined social barriers and conventions devised and set by the dominant public. Transitory publics may be argued to have the same rights as Squires (2002) marginalised groups. Both are commonly denied a public voice and are 'compelled' to follow a perceived public 'transcript' to reinforce cultural norms.



Figure 5-7: Transitory public walking along Rundle Street through temporary outdoor dining as part of the 2020 Adelaide Fringe street closure. (Photo by author 2020)

Lawson (2001, p. 14) suggests that how we communicate through space is linked to how we sense space, move through space and make individual meaning out of space. Therefore, spaces are not only a visual language, but they are also tactile languages, auditory languages and memory languages. It is the connection with space that is important, and not how it is made. Connections are important for transitory publics who experience a public space in moments.

5.6 The illegitimate public

When gay and lesbian activists, pro-life advocates, antiglobalization demonstrators and Southern segregationists are denied places to demonstrate, democracy suffers. When the homeless are denied access to public space, however, their very being is threatened. Lacking private property, existence itself depends on having a right to inhabit the city.

Robert A. Beauregard 2004, p. 427.

Despite growing recognition that attracting young people is key to urban competitiveness, a surprising amount of municipalities still maintain laws that communicate that kids—teenagers mostly—are scary at worst or a nuisance at best.

Angie Schmitt 2015, n.p.

Physically competing disparate activities can co-exist in public space with a high level of public interaction if they are spatially compatible. When activities are incompatible, the opposing activities become responsible for marginalising publics, resulting in the illegitimate typology. The design of public space for one public typology establishes a social norm for exclusion and the definition of illegitimate public. The term 'illegitimate' stems from the fact that this group is oppressed by the defined or the appropriating publics and ignored by the transitory public-rendered invisible and singled out at the same time. The defined and the appropriating publics create the illegitimate public through the dynamic between two social analytical categories of mainstream and marginal groups. This dynamic may be created by gender, culture, language, race, sexual orientation, religion, political affiliation, socio-economic position, class and geographic location (Kurniawati 2012). The illegitimate public refers to anyone who is not deemed acceptable by most other users or the ownership group. Homeless people (Figure 5-8), intoxicated individuals, youth and large groups not participating in community activities are the main subgroups associated with this term. Typically, illegitimate publics are a group or a person who regularly behaves in a public space in a way that annoys or unnerves other users. Ellickson (1996) defines the type as a chronic street nuisance who persists in annoying most other users over a protracted period, which results in a net decrease of use of a particular public space. Interestingly, this review of literature suggests that this annoyance is not limited to one place or one person; it tends to be directed towards behaviour over a protracted period.



Figure 5-8: Blue Tent Village, Ueno Park, Japan. Makeshift tents made of blue tarpaulins and cardboard house hundreds of Japanese homeless people. (Photo by author 2008)

The illegitimate publics are contested by community, management and legal systems and structures and they lack recognition. For illegitimate publics, commodification does not threaten public space; the state and constriction of legal rights does. Legal rights in relation to public space are of particular importance because they mediate the boundaries between free speech and public order. This lack of recognition begs the question about whether public spaces are only available to those with private space.

The definition of public space suggests it must accommodate everyone, including the marginal, forgotten, silent and undesirable (Kurniawati 2012). As stated above by Beauregard (2004), among others, this is not the case. Landscape as an extension of public space is a place of conflict (Hil & Bessant 1999; Jones 1991), resulting from tensions of belonging and control. The inclusion of one group that excludes others in public space is inherently exclusionary, suggesting public space is not public (Fraser 2007).

The design of public space represents societal values that are created through normative landscapes, which often ignore or do not incorporate fringe or unwelcome groups. All users become invisible and different by regulation and design questioning who the public is at any given time. Stakeholders become illegitimate stakeholders when their age and social backgrounds (White 1999) conflict with the ideal of the normative landscape (Figure 5-9). Free access to public space is removed because of stereotypes, preconceived curfews and police presence, prescribing the legitimacy of users and creating an illegitimate public.



Figure 5-9: Older man sitting at the edge of the Tidlangga/Park 9 Playspace. Older men are often viewed with suspicion at play spaces. (Photo by author 2016)

A seemingly neglected aspect of public space is the role it plays as a mediator for the values and ideas of a society (Jones 1991), as a provider of mutual dependence and independence relationships (Hill & Bessant 1999) and in the lives of people who have little recourse to private space who become public in public space (Mitchell 1995). Those without recourse are deemed undesirables, outsiders, marginalised, satellite, disaffected, ethnic, homeless, immigrants, illegal immigrants, individual, poor, anti-social, social pollutants, countercultural groups, threats, deviant youths, troublemakers, unknowns, oppressed, disenfranchised, informal street vendors, street people, different ability people, chronic street nuisances, women, children and elderly, regardless of the activity. These groups often become the forgotten element in public space, yet the benefits of public space and the social inclusion for these groups has been widely documented (for example, Woolley 2006 for children or Marne 2001 for women). The question of rights becomes an issue reflecting the defined publics' fear of the masses, where the masses are the illegitimate publics. Conflicts arise through the illegitimate public expressing itself to broader society through use of space in increasing militarised or policed states and subsequently accused of terrorising, intruding and interrupting public norms with their behaviour. Claims on space by the illegitimate public are a loss of territory (space) by one public or the other (Gaffikin et al. 2010; Mitchell 1995). For an in-depth discussion about the rights of citizens and denizens, refer to Borja (1998) and Staeheli and Thompson (1997).

Conflict over rights to public space is more prevalent in the city because of larger concentrations of visible illegitimate publics (Krupa 1993, see also works by Iveson, Borja, Fraser, Mitchell, Carmona). As noted by Ellickson (1996), among others, a few can disproportionately create an ambience of disorder, suggesting that illegitimate publics are viewed as raising the ambient level of disorder because of the number of other publics affected by the annoyance or behaviour of illegitimate publics.

Unfortunately, the role of public space has been lost in definitions of public space, as shown by how cities and defined publics have responded to illegitimate publics, including homeless people and the youth, among others. Responses are in conflict with politically, socially and culturally ideal public space, represented as open to all social groups, labelling those deemed illegitimate as illegal. Listerborn (2005) questions what is inclusive about public spaces where the illegitimate are forced to work, hang around and sleep (Figure 5-10). Nevertheless, as argued below, there is a distinct difference between the illegitimate and the illegal, with visibility being the key deciding factor.



Figure 5-10: Belongings of a rough sleeper outside of the City of Adelaide offices. (Photo by author 2018)

As stated by Davis (1992), Deutsche (1992), Iveson (2000), Kurniawati (2012), Sorkin (1992) and Staeheli and Thompson (1997), all public space is at some level exclusionary, shaped by struggles played out in space and methods proposed to protect defined users (Mitchell 1995; Mitchell & Staeheli 2009). Davis and Sorkin's argument is reflective of laws governing public space in the United States and the United Kingdom. They maintain that public spaces in these contexts were never open but always highly regulated and exclusionary. Laws from the 1980s, which focus on removing particular publics including homeless people, have made the act of exclusion blatant and clear under the banner of restoring 'quality of life'. Ellickson (1996) notes the unprecedented level of legislative and judicial attention to issues of misbehaviour in public spaces in the United States in the early 1990s, linking this to questions of management of public space and rights of use based on appropriate behaviour as defined by criminal law.

Researchers and critics have used the presence of homeless people and gatherings of youth as evidence of an erosion of public space. Specifically, Mitchell (1995, 2007) and Beauregard (2008, p. 247) state that public space for homeless people is more than 'gaining adherents or influencing public policy'; denied access means the homeless are nowhere because of missing private alternatives. Kurniawati (2012) counters this argument by questioning how to design for marginalised people to create a true public space. Referring to the homeless and youth as evidence, several studies identify these publics as undesirables, which is itself a threat to the public nature of public space. Conflicts between publics arise when defined publics becoming uncomfortable with the illegitimate public violating established social norms; the case of the homeless is thus presented with a lack of compassion or opportunity available in the country. Beauregard (2008) proposes that efforts to enable the homeless

to occupy public space challenges society's tolerance for difference and drives the defined public to its limits. Beauregard could have switched the homeless for youths, drunks, smokers, women, children, different races or buskers to support the same argument.

Trends of use present implicit and explicit rules that guide and affect all public behaviour, mannerisms and the separation of public and private spheres. These trends are noted by authors, including Nasar and Fisher (1993) and Loukaitou-Sideris and Ehrenfeucht (2009), as becoming obvious once violated. Table 5-1 breaks down potential activities that are undesirable once undertaken by particular publics.

Ellickson (1996) notes that the magnitude of undesirable activities is based on the perceived location options available to those undertaking the activities. If other options are available, the likelihood of potential activities becoming undesirable once undertaken by select publics increases. Graffiti, vandalism and noise are considered physical and social incivilities within the inner-city landscape (Kuo et al. 1998) and they are linked to landscape preference. Nasar and Fisher's (1993) study on hot spots of fear and crime notes a link between fear of disorder and victimisation; this link has a social perspective in which incivilities, public drunkenness, loitering teens, drug addicts, prostitution, gangs and homeless people are the main features, with or without socio-demographic factors controlled at the micro level.

Gaffikin et al. (2010) suggests that this results from the assertion of one identity over another through urban design and defensive architecture. The fear of victimisation creates conditions of wariness, changing the act of approaching a stranger into a heightened anxiety event assuming potential social behaviour linked to those considered illegitimate by others. The result of focusing on a social perspective is a concentration on physical cues, which are site-specific, controlled and planned to remove the illegitimate public. Examples include skate deterrents and arm rests on benches in public plazas. Nasar and Fisher (1993) note that this approach may create more problems than it solves.

Exclusion and inclusion of people within public space may be linked to the segregation and fragmentation of the public space—a condition Loukaitou-Sideris (1996, p. 1) states is:

accompanied by fear, suspicion, tension and conflict between different social groups. This fear results in the spatial segregation of activities in terms of class, ethnicity, race, age, type of occupation and the designation of certain locales that are only appropriate for certain persons and uses.

Table 5-1: List of necessary and optional activities that occur in public space, identifying which publics undertake the activities and which are seen to be desirable or undesirable

Activities		Publics					
Desirable	Undesirable	Defined Public	Appropriating Public	Transitory Public	Illegitimate Public		
Selling goods							
Labour (D)							
Walking (N) (D)							
Standing (N) (S)							
Sitting (N) (S)							
Playing (N) (S)							
Strolling (D)							
Shopping (N)							
Jogging (D)							
Graffiti (D)							
Reading (S)							
People watching (S)							
Talking on the phone (S)							
Smoking (S)							
Busking (D)							
Eating (S)							
Meeting (S)							
Congregating (D)							
Exercising (D)							
Protesting (D)							
Surveying (S)							
Research (S)							
Picnics (S)							
Displays of affection (S)							
Sleeping (S)							
Skateboarding (D)							
Street prostitution (S)							
	Street performance (D)						
Drinking (alcohol) (S)							
Religious meetings (S)							
	Playing (D) (includes						
hopping, rolling, crawling,							
dancing, skip							
Café sitting (
Affection (S)	from lists provided by		(22)				

Source: Adapted from lists provided by Gehl and Svarre (2013) and Matan (2011). Italics indicate author's additions.

⁽N) Indicates necessary activities. Additions by author

⁽D) Indicates dynamic activities. Additions by author

⁽S) Indicates static activities. Additions by author

Exclusions based on fear are intangible threats to public space that create tension in three distinct circumstances, which all have the same outcome:

- 1) Inability to consume: Results in teenagers, the poor and homeless people seen as conflicts e.g. those who appear they cannot afford to be in the place.
- 2) Anti-social pastimes: Results in teenagers and homeless people seen as conflicts e.g. those undertaking activities not considered the social norm. Within consumer public spaces those undertaking political debate are also seen as anti-social.
- 3) Crime and illegal activities: Results in teenagers and homeless people seen as conflicts e.g. those undertaking activities are regulated against.

Inability to consume is a form of socio-economic exclusion (Iveson 2000; Sibley 1995; White 1998) where public space access is limited to those who can pay directly or indirectly for it. Socio-economic exclusion may be explicit, for instance, with the need for entry fees. Portions of railway stations, airports and bus stations grant access only to those who buy tickets. Indirect economic exclusions operate through visual clues, which establish specifications for entry. The clues communicate who may enter and what the costs are. Carmona (2010) offers the example of shopping arcades of expensive stores. This space typology outwardly welcomes all who can consume by providing many clues as to how acceptable people should dress and appear.

The link between economics and public space should be considered in terms of reinforcing existing patterns of segregation that create economic illegitimate publics and spaces of tension (Fraser 1997; Iveson 2000; Kohn 2004; Van Den Berg et al. 2006). Tension is created in public spaces when social interaction and participation are based on consumption. The implicit rule of consumption conflicts with notions that public spaces are free and accessible to all at no cost.

Youth relate to space differently than adults (Hart 1979; Laughlin & Johnson 2011; Tunstall et al. 2004). This highlights a gap in designing socially accepted uses for public spaces that are also equitable spaces. The gap is viewed by Laughlin and Johnson (2011) as the omission of the young public's identity, which is recognised as a shortcoming of design (Korpela et al. 2001). Questioning or overlooking the presence of youth in public spaces casts doubt on their identity and value in the wider community.

Carmona, Loukaitou-Sideris, Tuan and Johns (2001) acknowledge that many conflicts are unsubstantiated. There are some signs and consequences of youth occupation of public space on their terms, such as skateboarding, which results in damage to street furniture. The balance between positively designing for and managing activities of marginalised groups is a fine line that needs to be considered in terms of location and a group's specific needs. The balance

results in dominant users of public space being denied degrees of access, regardless of best intentions. Regarding youth, Malone (2002, p. 165) argues that 'skate ramps and other youth-specific spaces on the margins of city centres are less than appealing places for young people (especially for young women)'. Users of such places desire a public space with 'social integration, safety and freedom of movement' (Malone 2002 p. 165). The notion of skateboarding as an anti-social activity is questioned by social and environmental commentators. Abubaker (2014) argues that skateboarding in developing or war-torn countries can help build a community through offering visible, fast and affordable modes of transport to youth, while providing much needed gathering places.

Ellickson (1996) controversially argues that designing to accommodate those undertaking minority or conventionally undesirable activities considered antisocial in one location can result in an increase of other users rather than them fleeing to segregated and dispersed privatised spaces. This is an argument that Kohn (2004) suggests already happens in cities where areas tolerate 'undesirable' activities.

Loukaitou-Sideris and Ehrenfeucht (2009) note that different typologies of public space allow for different behaviours and tolerances of transgressive acts because of the types of encounters they cater for. Footpaths, for instance, are primarily dominated by fleeting encounters; therefore, interaction tends to be anonymous, resulting in higher tolerance of broken rules. Because of this tolerance and anonymity, footpaths have added pressure for acting as temporary zones of public expression and spaces of political protests and micro-politics for the oppressed, giving the group greater freedom. These rules may be broken to challenge unjust norms or be a playful way of redefining publicness. All forms of use result in exclusion and labelling of illegitimate publics, whether intentional or unexpected. Fyfe (1998), for instance, considers footpaths as places of domination by one group and resistance by others.

Homeless people challenge the concept of public more than any others. The term is seen by Crawford (1995) and others as a means and a method of segregating a group from a larger collective by collapsing life situations into a generic term of reference. For homeless people, minimal boundaries exist between their public, domestic and economic spheres, with private use of public spaces testing democratic perceptions of public space and perhaps, as Crawford states, the determination of citizenship as removal of homeless people from public space removes their public rights.

Research on the role of youth in contested public space has a long tradition, showing how subcultures of youth have been considered a threat throughout the 20th century (Hil & Bessant 1999). These subcultures include bodgies, widgies, mods and punks from the later part of the 20th century to

skateboarders in the 21st century. Interestingly the threats of these subcultures have remained the same and are related to perceptions of impeding commercial transactions, high levels and visibility of crime (Hil & Bessant 1999; White 1999). Highly visible threats are perceived as a concern for the design of public space given that the three concerns commonly discussed in literature of lingering, hanging around and congregating are three indicators of successful public space referenced in urban design literature.

The establishment of laws and regulations aimed at removing the illegitimate public from public spaces are considered by Miller (2007) and Mitchell (2003) as interventions in urban aesthetics. The redesign and selection of materials for new publics results in space explicitly designed to repel and discourage an illegitimate public through changing sensory experiences and limiting the perception of who can use it (Miller, 2007). Methods and measures are similar throughout Japan, the United States, the United Kingdom and Australia.

Standard methods used to remove or discourage perceived illegitimate individuals or groups include:

- skateboard deterrents, a simple measure used to prevent grinding of edges of seats and walls and to prevent people from sleeping;
- increased security to move people along;
- limiting the length of benches, and the use of armrests and backrests to discourage sleeping;
- removal of benches;
- spikes on building ledges and window ledges;
- public parks closing between set times, creating a condition of trespass after hours;
- busking activities requiring a permit;
- public toilets locked at set times to prevent rough sleepers and other users occupying them after hours;
- signage to ban camping; and
- vegetation mixes regulated to minimise heights and densities that would allow for concealment.

Methods used in Adelaide include:

- skateboard deterrents, a simple measure used to prevent grinding of edges of seats and walls and to prevent people from sleeping;
- removal of rain prevention shelters in Park Lands or the inclusion of bright
 LED lights to discourage people sleeping;
- limiting the length of benches, and the use of armrests and backrests to discourage sleeping;
- removal of benches;
- programming of sprinklers at night;

- public parks closing between set times, creating a condition of trespass after hours;
- busking activities requiring a permit;
- public toilets locked at set times to prevent rough sleepers occupying them after hours;
- signage to ban camping in Park Lands; and
- vegetation mixes regulated to minimise heights and densities that would allow for concealment.





Figure 5-11: Example of methods used to remove or discourage perceived illegitimate individuals or groups. Top: Example of skateboard deterrents, North Terrace, Adelaide. Bottom: Example of LED lights to discourage people sleeping, Elder Park (Stella Bowen Park/Tarntanya Wama (Park 26). (Photo by author 2019)

Each method redefines the nature of public space, questions the social health of the public space and is targeted at a group of people who need it. Illegitimate publics become visible as publics once there is an increased interaction of publics in marginal and dominant public spaces. They 'test the reactions of wider publics by stating previously hidden opinions' (Squires 2002, p. 460). The illegitimate public may displace others by their presence, thereby creating further groups of illegitimate publics.

5.7 Measures of public accessibility

We are not passive observers of the world around us but active predictors of it.

Bryan Lawson 2001, p. 43.

Whether conceived as a stage or to present the power and wealth of cities, public spaces are those that become part of their communities and allow for new uses to develop. As shown in previous chapters, there are many considerations when determining the publicness of public space. These considerations include legal ownership, management and use, which are continually redefined through lived experiences inseparable from space (Lawson 2001). Experience includes stimulation, security and identity, all of which have been linked to territorial behavioural traits dependent on time, personality and situation. Publics (users) need continuity, predictability, mystery and complexity to maintain interest in their surroundings and to produce social norms. Social norms are extremely powerful in creating a sense of security or awareness in a group (typology of publics) through development of regulated behaviour.

The challenge of publicness within public space is the link between public interest and the typology of publics discussed above. Recognition of the diversity of types of publics indicates sensitivity to cultural norms and opens dialogues to distinguish amongst different forms of publics, their activities and public space. The diversity and difference of publics presented above is not just the identification or labelling of multiple and counter-publics. Diversity and difference must be considered important and necessary to produce multiple sites of public expression since they create public roles in contemporary urban society. By recognising how the use of public space continually redefines public, and how public interactions can restructure urban space, the importance of settings becomes evident. Understanding how space is actively used and who uses it is fundamental to the design of public spaces.

This challenge lies in how to measure degrees of publicness. Typically, the publicness of a place has been researched through deductive (interpretivist) or inductive (critical realist) approaches dependent on descriptive case studies. Ownership, management and use are consistently the core components assessed. These components are defined as:

- Ownership, which refers to whether a space is owned by a government body (public) or a private individual or corporation (private);
- Management, which refers to regulation, policy and signage to control or prohibit user behaviour. Management and ownership are linked through the operation of a space; and

• Use, which refers to behaviour. Use is interpreted quantitatively by the diversity of uses of the space and qualitatively by the behaviours of the users.

Van Melik et al. (2007), Németh and Schmidt (2011) and Varna and Tiesdell (2010) have developed methods to analyse the publicness of public space based on the measures of ownership, management and use. The method of Van Melik et al. (2007) identifies quantifiable and observable dimensions to analyse the social dynamics manifested in public space. The method uses qualitative descriptions to create quantified diagrams exploring three dimensions related to secured public space and three dimensions related to themed public space (refer Figure 5-12). The method uses scaling techniques to determine how the dimensions overlap and thereby determine how public a public space is. In their method, 'secured' relates to ownership and management while 'themed' relates to use.

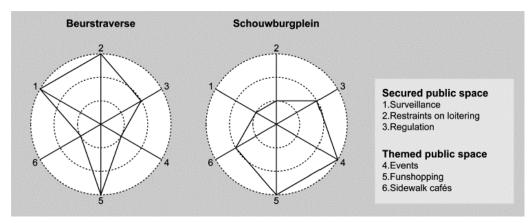


Figure 5-12: Profiles of two public places (Beurstraverse and Schouwburgplein) as secured (upper half) or themed (lower half) public space. Source: Van Melik et al. 2007, p. 37

The model proposed by Németh and Schmidt (2011) conceptualises publicness to empirically determine whether privately owned public spaces are more controlled than publicly owned spaces. In this tri-axial model, publicness is assessed on three core components, these being ownership, management and uses/users. The axes intersect mid-way along a continuum from more to less public (Figure 5-13).

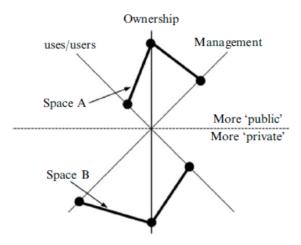


Figure 5-13: Németh and Schmidt's tri-axial model. Source: Németh & Schmidt 2011, p. 12

The star model proposed by Varna and Tiesdell (2010) builds on the two methods above, and presents a model of and method for, benchmarking the publicness of space. The Star Model treats publicness as a multi-dimensional concept, identifying and discussing five meta dimensions—ownership, control (management), civility (use), physical configuration and animation (use). Publicness is derived from the interaction between the different dimensions through pictorial representation of a place (Figure 5-14). The model does not consider site elements, surfaces or conditions.

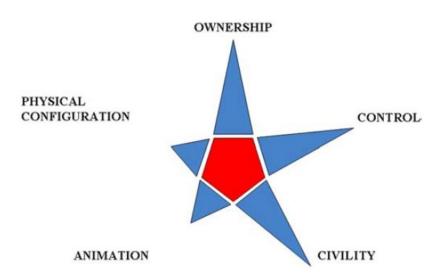


Figure 5-14: Varna and Tiesdell (2010) star model's hypothetical public place, scoring higher on 'management' criteria. Source: Varna & Tiesdell 2010, p. 594

Each tool succeeds in allowing comparisons between public spaces, examining the relationship between ownership and management and providing a high-level analysis of publicness. The models indicate that it is almost impossible to develop a concise linear notion of publicness (or privateness), from complete public to complete private space. The weakness of all three models is the lack of critical examination of the user; the *who*.

If, as stated in Chapter Three, the definition of public space includes *social* places outside the home and workplace, which are generally accessible by members of the public and which allow for interaction and opportunities for contact and proximity, and if, as stated above, there are multiple typologies of public, then a set of new measures of public space is required, focusing on the user. Strengthening this proposition is Németh and Schmidt's (2011, p. 9) view that the 'appropriate or desirable public for any given space is contingent on users, owners and managers acting as conscious agents'; within this view, agents are users and 'any assessment of publicness must always ask to whom a space or set of spaces might be more or less public'. The role of the user is continually the focus of questions of publicness or privateness.

This thesis proposes a new set of seven measures for public accessibility (publicness) of public space linked to user statistics. The measures chosen to determine how public a public space is are:

- 1. user number
- 2. user age
- 3. typology of publics
- 4. gender
- 5. individual or group presence
- 6. interaction between users
- 7. length of stay.

These measures of public accessibility (publicness) identify the temporal nature of public space and the user statistics that are common within all typologies of public space presented in Chapter Three. The measures are consistent and determine the degree of publicness of each public space typology. Recognition of the measures indicates sensitivity to cultural norms, opens dialogues to distinguish amongst forms of publics and their activities and reflects public space typologies in the 21st century.

These measures put aside the ambiguity of public space and racial restrictions (Mitchell 1996; Ruddick 1996), meaning (Sorkin 1992), the use of 'citizenship' to gain access (Staeheli & Thompson 1997) and other socially imposed factors (Talen 2000) to undertake systematic observations to assess who is using public space, if interaction between groups occurs and how long activities and behaviours occur. These proposed measures go beyond ownership, management and use and consider *who* is using public space. The next question becomes how to collect the data of the proposed measures.

5.8 Summary: A diversity of spaces and a typology of publics

To interrogate how public is public space, Part A methodically examined the definition of public space (Chapter Three), narratives of erosion (Chapter Four) and diversity of publics (Chapter Five), and in doing so, offers a counterpart to the majority voice presenting an erosion of public space. This counterpoint—tested in Part B—draws on interdisciplinary perspectives to explore the complex interrelationship between the public (users of space), events (both a form of limiting access and a means to increase access) and the expected performance of public space (provider of social interaction or exchange) to present a diversity of public spaces.

Part A found that the notion of public space as a democratic ideal—as a space open and free for all to use—is continually discussed, expected and not guaranteed. The ideal presents a distorted reading of public space, discounting the varying degrees of legal ownership, governance and activation or the changing political, social and cultural nature of public spaces. The democratic ideal is why space is being challenged, why people are being excluded or included and why the future of public space is lamented. This version of democratic public space assumes a thin unproblematic concept of both 'democracy' and 'space'.

To expand the theoretical debate and to encapsulate the state of play, a new definition of public space is being proposed in this thesis.

Public space comprises social places outside the home and workplace, which are generally accessible by members of the public and which allow for interaction and opportunities for contact and proximity.

This definition ignores legal ownership and focuses on the value of publicly accessible space to foster social activity and exchange. Emphasis on the diversity of *use*, not legal ownership, changes the definition of public space to include private spaces that offer public access and social exchange. In this scenario, the distinction between private and public is shaped by the publics that should be observed by landscape architects, and not controlled.

To examine the distinction between private and public further, the thesis highlighted five overarching public space typologies that offer an enduring structure to the city. These five typologies include plazas and squares, parks and gardens, streets and promenades, Waterfronts and commercial spaces. The significance of these typologies in urban form has been apparent since the

agora in Athens and is continually linked to territorial identity, defence and public life (Curtis et al. 2007).

In response to the diversity of the public and to acknowledge this diversity, Part A presented a typology of publics—the defined public, the appropriating public, the transitory public and the illegitimate public. Recognition of a typology of publics indicates sensitivity to cultural norms and highlights that different publics have different relationships to place.

Part A has argued that the public space and the public are not monolithic entities, easily defined or static. Publicness and degrees of access to public spaces are constantly changing as users reorganise and reinterpret physical space. Landscape architects, as designers of public space, need to consider more then private or public use and the defined publics as occupiers of public space. Diversity should be highlighted and explored as the act of labelling can exclude.

To assist landscape architects to negotiate the diversity of publicness, Part B further explores public to private and the integration of social exchange specifically in relation to events. The new definition of public space and proposed typology of publics is tested. To address the erosion of public space, current assessment methods, techniques and tools are reassessed to measure temporary environments and to analyse the publicness of public space where the public becomes the determining factor, rather than legal ownership and governance.

The review of current assessment methods, techniques and tools is followed by the presentation and application of the Design Assessment Framework developed as part of this thesis to assess the publicness of space. The framework provides a methodology through which public space can be robustly assessed, to allow practical implementation of the concepts positioning landscape architects in a pivotal role to influence effective design.

Part B Public space analysis and assessment



Because inclusion is the name of the game, because health and safety hold such sway, because we live in a contentious society and, as the Japanese say, 'they hammer down the nail that sticks out', it is bloody hard to realize anything of quality in the public realm. This is bad for the public.

Charles Jencks in Gaventa 2006, p. 9.

Inclusion is fundamental to the notion of public space. As examined in Part A—and succinctly stated by Charles Jencks—inclusion is a fundamental design problem stemming from the lack of recognition that there is a diversity of publics and temporary events, which have definable influences on public space. Part B further challenges the definitions, inclusion and publicness of public space by reviewing and testing how public spaces are assessed. Chapter Six examines analytical methods, techniques and tools developed since the 1960s, presenting a review of approaches commonly used by landscape architects. The approaches represent a range of theoretical proposals to practical applications.

To address the publicness of public space, current methods, techniques and tools are reassessed to measure temporary environments. Performative value is key to this analysis, and is used throughout Part B as the determining factor of publicness rather than ownership and governance. An assessment of the performative value explores the notion that landscape architects have a predisposition to design for particular ideals of 'public' in response to institutional briefs resulting in simultaneous periods of exclusion and inclusion (social exchange).

This is followed by the presentation and application of the Design Assessment Framework, developed as part of this thesis, to assess publicness in public space and to identify different publics. Chapter Seven presents the framework to minimise subjective assessments and to utilise measurement tools to define physical and environmental changes within public spaces. This framework enables comparative analysis of different case study sites, providing empirical data for landscape architects and a reliable tool for undertaking publicness assessments. Chapter Eight introduces Adelaide, South Australia, as a case study to test this Design Assessment Framework. Adelaide is recognised internationally for its urban plan and for the provision of public space. Selected sites, shown in Table Part B-1, present five traditionally identified typologies of public space in which the proposed typology of publics—identified in Part A—are known to be present.

Table Part B-1: Summary of Adelaide case study sites

Table Part B-1: Summary of Adelaide case study sites							
Parks & Gardens							
Site		Characteristic					
1.	Himeji gardens	1.	Japanese garden created in an urban				
			context				
2.	Castle Street (between Charlotte Street	2.	Former transport corridor (road)				
	and Ely Place		changed to a pocket park by public				
			demand				
3.	Glover Playground	3.	Urban park created to improve public				
			health				
Streets & Promenades							
Site		Cha	racteristic				
1.	North Terrace (between Kintore	1.	Cultural boulevard				
	Avenue and Frome Road)						
2.	Rundle Street (between Pulteney Street	2.	Commercial boulevard				
	and East terrace)						
3.	Peel Street	3.	Commercial and entertainment				
			boulevard				
4.	Hindley Street (between King William	4.	Commercial and entertainment				
	Street and Morphett Street)		boulevard				
5.	Moonta Street	5.	Commercial and entertainment				
			boulevard				
Pla	zas & Squares						
Site	2	Cha	racteristic				
1.	Whitmore Square/Ivarrityi	1.	Public square				
2.	Hindmarsh Square/Mukata	2.	Public square				
3.	Hajek Plaza (Festival Plaza)	3.	Festival plaza linked to convention				
			centre and festival theatres				
4.	Adelaide Railway Station	4.	Transport hub linked to convention				
			centre and festival theatres				
Wa	aterfronts						
Site		Cha	racteristic				
1.	Elder Park (Stella Bowen	1.	Traditional waterfront public space				
	Park/Tarntanya Wama (Park 26)		linked to cultural activities				
Co	mmercial Spaces						
Site	2	Cha	racteristic				
1.	Gilles Street School (markets)	1.	Temporary market site				
2.	Rundle Place	2.	Commercial retail thoroughfare				
3.	Adelaide Central Market	3.	Tourist attraction and large				
			multicultural market				

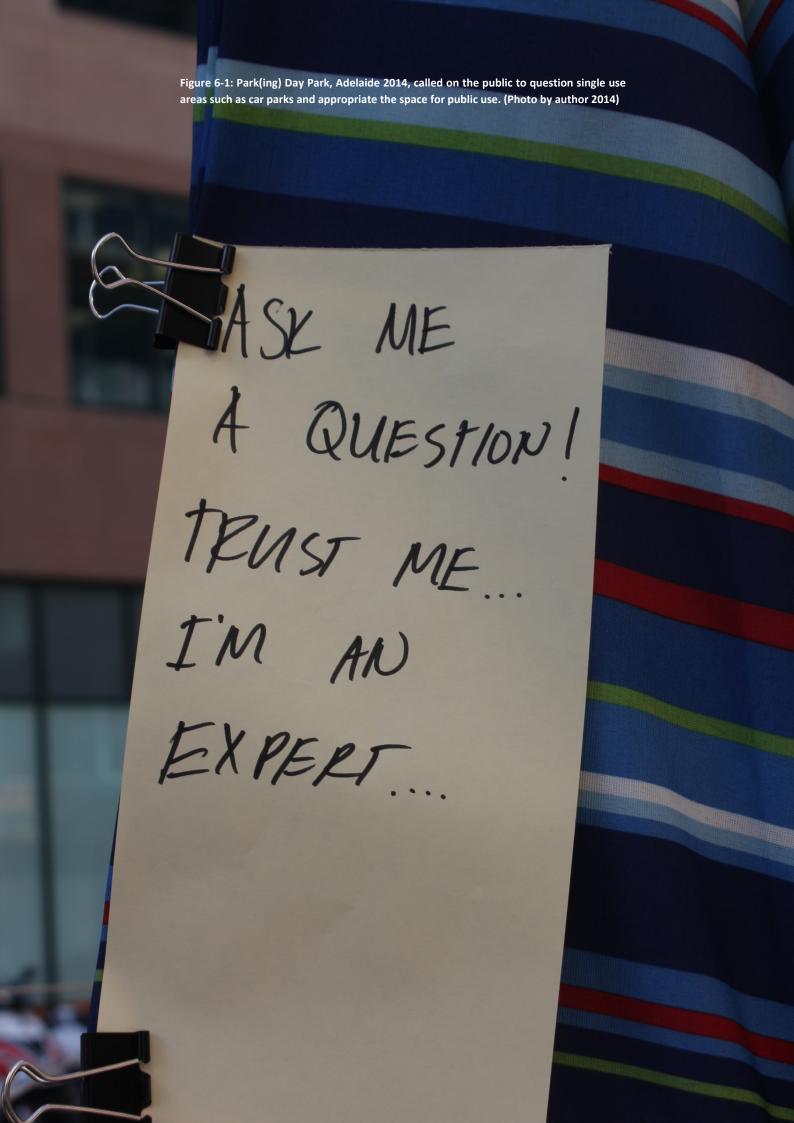
The Design Assessment Framework is used in Chapter Nine to measure the publicness of public spaces in Adelaide, South Australia and to suggest which elements, surfaces, activities and contexts contribute to or erode public accessibility and social exchange.

Chapter Ten discusses the findings of the thesis and outlines what these findings mean for landscape architects and the effective design of public space. Within Chapter Ten the overarching research outcomes of the case studies are situated in the broader context of the landscape architectural discourses on

public space. In addition, Chapter Ten addresses the hypothesised conflict between public space and private use of these spaces, such as events and the inadequacy of current design theory, methodologies, techniques and tools, used by landscape architects and others to assess public space.

Chapter Eleven presents the contributions of the research and directions for further research. The thesis concludes by reflecting upon the current state of play of public space and providing an afterword reflecting on the importance of public space.

Chapter Six Analysing urban public space



The inevitable potential of public space to act both simultaneously and at different times as inclusive and exclusive presents challenges for researchers and designers. In 1975, British geographer Jay Appleton described a theoretical vacuum in his assessment of landscape quality and perception, urging his fellow researchers to set aside empirical pursuits and to develop theoretical frameworks to assess landscapes. Similarly, in 1995 Dutch architectural theorist Rem Koolhaas criticised designers in the professional disciplines of urban planning and architecture for focusing on outdated classical models of the city and failing to develop new approaches that reflect the contemporary urban city and public life.

While there is an identified and significant body of literature analysing scenic beauty, landscape quality, landscape character, aesthetics, visual quality, landscape values and landscape perception, many scholars agreed with Appleton, including Crofts in 1975 and Zube, Sell and Taylor in 1982, that a framework was missing to assess landscapes. Sell et al. reconsidered Appleton's theoretical vacuum in 1984, followed by philosopher Allen Carlson in 1993, who noted that 'much must yet be done' (Carlson 1993, p. 51). Improvements were necessary and a common consistent language required (Aoki 1999; Owen, 1993; Steinitz 1990,2008) to ensure assessments were valid. Concerns about the validity of assessments stem from consistent critics of language who argue that the use of language fails to discern even the most self-evident physical differences for those within the same discipline, let alone outside. This further alludes to the inadequacy of conventional techniques, tools and methodologies (Owens 1993), highlighting the need for change in thinking and practice.

The vacuum identified by Appleton and the outdated models highlighted by Koolhaas are linked to landscape assessments consisting of varied methods, techniques and tools influenced by inconsistent contextual factors. These factors have a double effect, allowing the client's or the assessor's individual agendas to prejudice results and underpins their unwillingness to provide frank advice relating to outcomes contrary to the clients agenda (e.g. Aoki 1999; Forsyth et al. 2010; Francis 2001; Frumkin 2003; Penning-Rowsell 1973 in Appleton 1975).

Public places have to work for multiple publics; such multiple assessments acknowledge this and are more likely than singular approaches to find both strengths and weaknesses.

Forsyth et al. 2010, p. 46.

As proposed by geographers Edmund C. Penning-Rowsell (1975), R. Burton Litton Jr. (1979) and environmental psychologist Yoji Aoki (1999), different methods, techniques and tools are required to provide data to inform decision-making. Traditional assessments concerned with environment and behaviour,

such as post-occupancy evaluations, public life studies, character assessments, visual analysis and site audits, cannot provide critical representations because they gather singular lines of data. Singular lines of data are contingent, particular, situated and grounded through experience—as all assessments of landscape architecture should be (Meyer 2011)—yet the data focuses on one outcome, for example, determining the causes of fear of crime in public spaces, vitality statistics, visual aesthetics, behavioural patterns or place identity. By focusing on one outcome, singular lines of data are circumstantial, missing the full strengths and weakness of public space. They become inadequate if the nature of public space is questioned in terms of multiple publics, their interactions or the way public and private investment can activate public space, generating social exchange.

This chapter introduces the complexities of studying urban public space, through an analysis and discussion of numerous analytical methods, techniques and tools developed since the 1960s. A range of measurement approaches, commonly used by landscape architects, is represented. These include theoretical and practical applications, noting the commonly forgotten reality that each discipline describes and studies landscape differently. These approaches can be categorised as segregated, standalone or focused on individual concerns, such as the number of users or the behaviour in specified environments. Segregated approaches are unable to determine how uses and notions of urban public space are influenced by exclusionary activities such as events. The chapter then outlines the limitations and validity concerns of each technique, tool and method.

6.1 Methods, techniques and tools

If you are measuring cities then you are going to measure them in people.

Rob Adams, television interview with Anja Taylor 2014.

Landscape quality is determined by the spatial characteristics of the landscape and the influence of these characteristics on the users (Daniels 2001; Kıvanç Ak 2013). The common thread of methods, techniques and tools to assess landscapes are the users, how they perceive landscape characteristics or how landscape characteristics influence their behaviour. The focus on users is the premise that people are vital elements to determine the health and function of cities. Their place in the city has drawn the attention of scholars in diverse disciplines. The range of disciplines collecting data, for instance political geography and psychology, has resulted in a mass of data, diffuse collections of studies and findings to predict city life (Dakin 2003; Gehl & Svarre 2013; Matsuoka & Kaplan 2008). Many argue that current methods, techniques and tools are limited by their lack of rational scientific tradition (Owen 1993),

alternatively contain too many scientific traditions yet lack qualitative data (Foltête & Piombini 2007), exclude documenting interaction between users (Cook 2000), hide pressures from the client or are discipline-focused (Hayward 2016 in De Backer et al. 2016). What is lacking is an understanding of the potential role for data to maintain or increase the performative value (public accessibility) of public space and a clear understanding that research can define preferences. Notably, Varna and Tiesdell (2010) highlight a tendency of the academic public space discourse to describe a loss of publicness without defining the concept and without providing tools for in-depth analysis. This tendency is a weakness that makes it difficult to compare different public spaces and assess publicness.

In the discipline of landscape architecture, broad assessments of public space tend to be unconvincing and lack adequate justification of results (Carlson 1993). They tend not to assess why people return to, avoid or use space, nor do they consider safe city areas, public and private investment or how public space is represented to market a city's image. Detailed assessments of public space provide increasing insights and gain significance as private and public space relationships alter in the context of the 21st century city. The insights provided are particularly important because of the increase of events to generate public exchange and commercialisation of public space, which has generated new definitions of 'public' and public space, as argued in previous chapters. The complexities of temporary public spaces created by events are not currently accounted for in assessments, which focus on infrastructure, culture, nature, layout and design to determine use (Jacobs 1985; Lynch 1960; Scazzosi 2004) and tend to collect singular lines of data, at fixed points of time.

The identification of these limitations is not new. In 1975, Appleton argued that interdisciplinary approaches are required to communicate with other evaluators, yet Aoki's 1999 review indicated researchers are still adopting methods based on the type of landscape and their discipline. Thirty years later, criminologists Keith Hayward and Elaine Campbell also recognised the lack of communication and urgent need to undertake interdisciplinary approaches to studying public space, criticising the field of criminology stating that 'seldom does their work overlap with related disciplines' (Hayward 2016 in De Backer et al. 2016, p. 207). Hayward (2016, p. 207) considers the reluctance of many to develop links with those of different fields a 'worrying schism', hindering the development of a more rounded interdisciplinary approach to studying urban public space.

Interdisciplinary works do exist, including the seminal works of architect and urban theorist Camillo Sitte (1843–1903) and American historian Lewis Mumford (1895–1990), which were influential in the context of

environment—behaviour studies and early assessment methods. Their texts offered ideological and methodological starting points for assessing behaviour outside of psychology, sociology and anthropology. *View from the Road* (1964) by Donald Appleyard, Kevin Lynch and John R. Myers is another key text used by a wide range of disciplines. Their study is widely considered an influential early example of visual assessment, which yielded recommendations based on research undertaken between 1950 and 1960 for different ways to design streetscapes and highways. Their work led to legislation changes in America and the consideration of aesthetic urban infrastructure.

Interest in public space assessment is not limited to academics. Private practice, governments, business communities and politicians took an interest in public space in the 1960s, when the visual quality of landscape became a definable commercial resource (Dakin 2003; Dearden 1985; Forsyth et al. 2008, 2010). Visual assessments were commonly employed by government agencies in the 1970s and have an ongoing role in community engagement today. Similarly, from the early 1980s, studies of public space were pursued by private design consultancies with a specific focus on public behaviour, relying on visual resources (Dakin 2003) to assess sites.

Recognition of different disciplinary and commercial approaches to interpret urban public space, as Dakin (2003) argues, is important in the discipline of landscape architecture to develop new assessment methods. Approaches and methods range from experimental, cognitive and psychophysical paradigms (Zube et al. 1982 notes four paradigms) to humanistic approaches to analyse urban activity (Pauleit & Duhme 2000). Within paradigms, disciplines have different priorities: archaeologists privilege history; botanists stress maintenance; landscape architects prioritise aesthetics (Jones 1991). Geography has emerged as a driver of experiential paradigm techniques, tools and methods, presented below, with emphasis on how landscapes are perceived. Again, the focus is on users and their perception or behaviour.

The complications of these diverse disciplinary priorities are compounded by questions relating to the value of expert analysis versus everyday use. While different disciplinary perspectives are sought in this current study, concerns have been raised about the validity of studies that rely on subjective data. Appleton (1975) argues that experts need to prove they are indeed experts. Craik (1975 in Unwin 1975), Crofts (1975), Dakin (2003), Francis (2001), Kent (1993), Turner (1975) and Unwin (1975) have similar concerns, stating that individuals who undertake evaluations need to be skilled to avoid bias. As Turner (1975) notes, different results can be produced by people within the same field. Dakin (2003) suggests that experts should only identify and measure features among visible landscape elements. Clay and Smidt (2004) state there is little evidence that the use of experts' judgements is even efficient for studies

of public space. Delvin (1990), Gifford et al. (2002), Hubbard (1997), Nasar (1998) and Nasar and Kong (1989) all conclude that experts and the public do not share the same perceptions of the city, while others query whether non-experts can objectively critique landscape conditions. Ewing and Handy (2009) argue that professional analysis is valid because of the specialised expertise. With such divergent perspectives, a comprehensive view of the urban system is often lacking (Pauleit & Duhme 2000). This results in a weakness that makes it difficult to compare different public spaces and assess publicness.

To obtain a more comprehensive view, over 150 articles, books, reference publications and other sources were examined in the current study to categorise 45 methods, techniques and tools used to assess landscapes and public urban spaces over the last 60 years. All were empirical and analytical research methods, techniques and tools developed to assess design, planning and construction. The sources included literature reviews, policy comparisons, methodologies or recommendations, studies drawing on original data involving surveys, interviews, observations or case studies. Methods, techniques and tools were not reviewed if they did not match specific criteria. The criteria for inclusion in this review of methods, techniques and tools were determined by the key public space typologies: Parks & Gardens, Streets & Promenades, Plazas & Squares, Waterfronts and Commercial Spaces. Studies of rural environments, non-urban forests and other non-urban settings were excluded. The approaches had to address the design and function of urban space, human preferences, attitudes and activities.

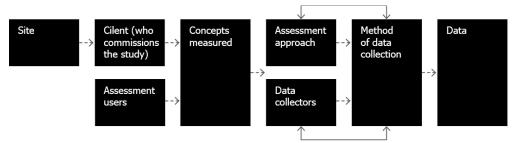


Figure 6-2: Study design flow chart

Through an iterative process, a consistent study design was identified. This design (Figure 6-2) highlights the importance of the site (space) as the driving factor for the selection of methods, techniques and tools. Interestingly, while the client and the end users of the assessment were influential in the selection of methods, techniques and tools, as well as the concepts measured and the approach to the assessment, the order presented below also reflects the quality of the data collected.

This iterative process identified broad categories to assess urban landscapes as measurement, preference and consensus approaches (Turner 1975), visual

perspective, natural environmental and historical or cultural character approaches (Scazzosi 2004). Measurement, preference, visual perspective and natural environmental approaches are well represented. These broad approaches may be grouped into observation (descriptive) methods, interview methods and infrastructure methods (Table 6-1 below). These three groups are further divided to examine their reliability and validity and to identify any assumptions central to the method, technique or tool. This study used the approach of Arthur et al. (1977) as a starting point to classify each method, technique and tool as descriptive inventories or public preference models.

Descriptive inventories (observational methods, as described below) are objective representations of observed landscapes in a static state. Descriptive inventories provide baseline data to be used within assessments but are not assessments themselves. They include objective methods that are applied by design professionals or experts and rely on combined functions to value, compare and aggregate landscape components. Criticism of descriptive inventories is linked to the focus on physical components arbitrarily identified and subjectively scored by design professionals or experts without justification for their inclusion as determinants of quality (Arthur et al. 1977; Robinson et al. 1976). They are further criticised for the omission of dynamic landscape attributes and changes such as seasons (Litton 1979). A clear link is evident in these approaches between visual and aesthetic values, which cannot be separated. In the current study, descriptive inventories are split further into Expert Panel Approach and Design Approach.

Public preference models are subjective assessments that obtain aggregated opinions and determine consensus among the public. Models are typically non-quantitative and a valuable source of quick information. Criticism is linked to speed where accuracy is sacrificed. Other criticism argues that the personality of the observer, location, duration of observation and socio-economic profile have a bearing on the validity of the results (e.g. Amir & Gidalizon 1990; Aoki 1999; Blacksell & Gilg 1975; Crofts 1975; Forsyth et al. 2008, 2010; Francis 2001; Frumkin 2003; Owens 1993; Penning-Rowsell 1973 in Appleton 1975; Turner 1975).

Studies of public space that consider people as elements are not limited to one overarching method, technique or field of significance. Each discipline has developed a best practice. Many combine methods and techniques to obtain a more comprehensive interpretation of public space. Combining approaches to assess public space has meant different methods, techniques and tools are not necessarily distinguished and, in some instances, they are used interchangeably (Penning-Rowsell 1975). Penning-Rowsell highlights that methods, techniques and tools are functions of the level of detail collected and therefore constrained by the survey unit size and the objective of the data collection.

Table 6-1: Overview of assessment methods

	Asses	sment a	pproach	Assess	ment us	ers		Data collect	ed	Conce	pts meas	ured															
	Descriptive inventory - Expert panel	Public preference approach	Descriptive inventory - Design approach	Governments (local, state, federal)	Researchers	Designers/practice	Community	Subjective	Objective	Access	Residential grain/neighbourhood identification	Size (scale, human scale)	Transport environment (quality and quantity)	Ecological structures	Morphologically	Historical interpretation	Land use	Views	Amenities	Public life (types of active use)	Landscape characteristics	Architectural characteristics	Safety	People	Imageability	Enclosure	Transparency
Observation methods			_				-		r																		
Qualitative methods																											
Environmental impact assessments	х			х	х	х			х	х	х	х	х	х	х		х	х	х	х	х						
Field notes	х	х	х		х	х		х	х	х		х	х		х		х	х	х	х	х	х	х	х	х	х	х
Human traces or tracing	х		х		х	х		х		х			х							х				х			
Photo documentation	х	х	х	х	х	х	х		х	х	x	х	х		х	х	х		х	х	х	х		х			
Tracking and shadowing	х		х		х	х		х		х							х			х				х			х
Visual assessment	х		х	х	х	х			х	х	x	х	х	х	х	х	х	х	х	х	х	х		х			
Combined qualitative and quantitative																											
Case studies	х		х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х
Systematic observation	х		х		х	х			х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х		х	х
Field observations	х		х	х	Х	х	х		х	х	х	х	х	х	х	х	х	х	Х	х	х	х	х	х		х	х
Test walks	х	х	х		х	х	х	х	х	х		х	х						х	х	х	х	х	х			х
Walkability index	х	х	х	х	х	х			х	х	х	х	х						х	х	х	х	х	х			х
Walking audit instruments	х		х	х	х	х	х		х	х	x	х	х		х		х		х	х	х	х	х	Х		х	х
Quantitative methods																											
Behavioural mapping	х		х	х	х	х			х	х			х						х	х	х		х	х			х
Block environmental inventory	х		х	х	х	х			х	х	х	х													х	х	х
Counting			х	х	х	х	х		х	х										х				х			
Desktop audit			х	х	х	х			х	х	х	х	х	х	х	х	х	х	Х	х	х	х	х	х		х	
Figure ground mapping	х		х	х	х	х			х	х	х	х	х				х				х	х				х	х
Pedestrian flows	х		х	х	х	х			х	х										х				х			х
Place audits	х	х	х	х	х	х		х	х	х	х	х	х				х		х	х	х	х	х	х	х	х	х
Post-occupancy evaluations	х	х	х	х	х	х		х	х	х	х	х	х				х	х	х	х	х	х	х	х	х	х	х
Score sheets	х	х	х	х	х		х		х	х	х	х	х				х	х	х	х	х	х	х	х	х	х	х
Site inventory			х	х	х	х			х	х	х	х	х	х			х		х	х	х	х	х	х		х	х
Staying activities			х	х	х	х			х	х									х	х				х			1
Staying counts			х	х	х	х	1		х	х									х	х				х			1
Tracking			х	х	х	х			х	х							х		х	х	х		х	х			х
Walk-by observations	х		х	х	х	х	х		х	х	х	х	х	х			х		х	х	х	х	х	х			х
Interview methods Qualitative methods																											
Design workshops		х	х	х		х		х	х	Х		х	Х	х		х							х	х	х	х	×
Discussion groups		X	^	x	х	^	х	X		X		X	X				х	х				v					
Interviews (unstructured)			-			1	, x		X			X		X		X	X	*	Х	х	Х	Х	X	X	X	х	X
Combined qualitative and quantitative	х	Х	х	Х	Х	Х		Х	х		Х		Х	Х		Х							Х	х	х		х

Interviews (structured)	Х	х	х	х	х	х	х			Х		Х			х							х	х	х	х	х
Self-reporting (diaries/noting)		х	х		х		х			Х		Х			х							х	х	х		
Quantitative methods																										
Interviews	х	х	х	х	х		х			Х		Х			х							х	х	х	х	х
Surveys (postal, online or in person)		х	х	х	х		х	х		Х	х	Х			х							х	х	х		
Questionnaires (postal, online or in person)		х	х	х	х		х	х		Х	х	Х			х							х	х	х		
Infrastructure methods		,			,																,				,	
Qualitative methods																										
Altered photos	х	х		х	х	х	х				х	Х			х	х	х	х		х	х					
Computer simulation		х		х	х		х		х		Х	Х				х	х		х							
Landscape evaluation				х	х	х	х		х	Х	Х	Х	х			х	х	х		х						
Scenic beauty estimation models	х	х		х	х	х	х				Х	Х				х	х	х		х	х					
Visual assessment	х		х	х	х	х	х		х	х	Х	Х	х	х	х	х	х	х	х	х	х		х		х	х
Quantitative methods																										
Environmental audits	х		х	х	х			х	х				х							х		х				
Walkability audits	х		х	х	х	х		х	х	х	Х	Х				х		х	х	х	х	х	х	х	х	х
Pedestrian modelling	х		х	х	х	х		х	х			Х				х			х			х	х			
Smart Places	х			х	х			х	х	х	х	х	х	х	х	х	х	х		х					х	х
Space syntax	х		х		х			х	х	х	Х	Х				х			х							
Urban design context analysis	х		Х	х	х	х		х	Х	х	Х	х			х	х	х	х	х	х	х	х				

Source: Author. Italics indicate methods not discussed.

The range of methods, techniques and tools used to measure and assess public space is vast and controversial, as presented by Dearden (1985). Many of the methods, techniques and tools are designed to understand how urban design influences use, experience and comprehension; emphasis tends to be on visual assessment. To distinguish how urban design influences the city, each method, tool and technique has its own merits and can be used better in different areas of investigations. The ongoing use is linked to the ability of methods, tools and techniques to be refined as new technologies emerge and as discipline and academic fields expand. However, the ability of methods, tools and techniques to be refined has been criticised. For example, geographers Blacksell and Gilg (1975) suggest that variation minimises appreciation of what different methods, tools and techniques can and cannot achieve. Further criticism argues that methods, tools and techniques are refined to meet the researcher's concept of landscape regardless of their appropriateness to analyse the landscape under investigation. These criticisms question whether refined methods, tools and techniques can be used at other sites and if their effectiveness can be judged. These criticisms are not new. Blacksell and Gilg (1975), Francis (2001) and Litton (1979) argue that a nationally agreed technique for landscape evaluation is required.

A key failing of public space studies is that they depict the public in a generalised or abstract way, emphasising data presented as objectivist or subjectivist. Objectivist approaches consider aesthetics or use set by objects external to observers, for instance, public art, water or seating. Subjectivist approaches consider aesthetics or use set by the beholder, a human-oriented approach about individuals in the landscape (Dearden 1985). Objectivist or subjectivist approaches each present data of differing levels of consensus, resulting in the perception that all data are accurate and relevant, however, data can yield significant errors in the method of collection and analysis. The deferral to data as an absolute, influences data analysis. Overlooking how collection occurs creates gaps in studies because all aspects of data, from collection to analytical techniques selected, provide the complete picture of public spaces.

Criminologists Ewing et al. (2006) and landscape architect Schmidt (1998), among others, highlight the need for a combination of methods, techniques and tools to accurately comprehend public space, to provide recommendations and to predict relationships between behaviour and environment. Ewing and Handy (2009) also recommend modified methods that assess quantitative physical features and qualitative perceptions and have complex and subtle relationships in the built environment. In contrast, geographer Penning-Rowsell (1975, p. 151) argued earlier that 'more attention should be given to fitting technique to purpose'. Carmona, Heath and Tiesdell (2003) and Forsyth et al. (2008, 2010) maintain that empirical research is essential for good design. These arguments are explored below. No one method is more important or

supersedes another. Interestingly, a review by Matsuoka and Kaplan (2008) shows that the most widely published methods between 1991 and 2006 were surveys, interviews, case studies, observation and preferences rating methods in urban planning, landscape architecture and architecture.

The following subsections identify the common tools used to assess urban landscapes, highlighting the effectiveness of each method, technique and tool to assess public spaces and the publics. The diversity of early studies of public space, known alternatively as landscape assessment, assessment of landscape quality, environmental aesthetics, landscape perception research, public life studies and visual impact assessments, is acknowledged.

6.1.1 Observation (descriptive) methods

The following subsection presents an overview of 26 observation methods used to assess urban landscapes. Table 6-1 and Table 6-2 present an overview of the different assessment methods. Further details on individual methods are provided in Appendix 2.A and Appendix 2.B. The methods described below have been applied to assess the use of urban public space in the discipline of landscape architecture. It is not intended to be a description of all observation methods used in this discipline.

Observation is a widely used method to analyse public space. Observation methods analyse how spaces are used to inform understanding of why some spaces are used while others are not. Observation methods are descriptive inventories that include qualitative approaches, combined qualitative and quantitative approaches and quantitative approaches, with further subsets of direct observation, unstructured observation and walking observation (Table 6-2). These approaches observe user behaviour and activities and document this through mapping, analysis and interpretation (Gehl & Svarre 2013; Matan 2011). Techniques employed include field observations and photographic review and analysis off site to interpret qualities with measured environmental features within one study (Figure 6-3).

Direct observations are structured methods with predetermined criteria developed with the intent to avoid bias or inferences. Techniques of tracking and shadowing, human traces or tracing, test walks, counting, pedestrian flows and staying activities, place audits and post-occupancy evaluations are all grouped under direct observation. Unstructured observations are methods that aim to record all activities, elements and events without resorting to predetermined criteria. Field notes are predominantly used to record unstructured observations. This allows researchers to note subjective experiences based on their appreciation of the physical elements and their first

impressions of details, nuances and non-visual elements that cannot be mapped, counted or photographed. This increases knowledge of how public spaces are used. Walking observations are purposeful, systematic recordings of a space taken while moving. This method is undertaken to gain direct experience, which architect Peter Bosselmann (2008) considered essential for individuals making informed decisions about cities.

The data measured varied for each observation method (Table 6-2 and Appendix 2.B), inevitably depending on the goal of the assessment. The common elements of observation methods include:

- provision of an overview of public life and the subtle activities that occur, for example, people waving;
- manual observations, which can add additional information such as why, how and who uses the space, weather conditions and events outside of the study area that may affect use in the study area;
- the ability to collect subjective and objective data; and
- the ability to record non-visual elements, including sounds, feelings, smells, textural qualities, movement (feeling of movement and actual movement through a space).

The strengths of individual observation methods are expanded in Appendix 2.B. The six common weakness, challenges and limitations of observation methods relate to the following:

- 1. The temporality of public spaces: The temporary nature of public space is a limiting factor for all observation methods assessed that have not been critically reviewed. As observed by Cook (2000), the temporary nature of landscapes has not been considered vital and very few longitudinal studies that document interactions of users have been undertaken.
- 2. Short-term observations: The observations of the data collector cannot match the inhabitant's experience of a space. Observation is limited to the study timeframe (Laughlin & Johnson 2011). Aoki (1991, 1999) argues that user behaviour is influenced by duration, frequency and intensity of experience, whereby perception is proportional to the length of stay and a reflection of psychological reactions, which are more intricate than a visual response. Aoki's supposition argues that our understanding of landscape is a combination of the individual analysis of place combined with a well-managed memory system for the recollection of past experiences. Similarly, cultural backgrounds are a predictor of attitude (cognitive, affective and conative), which influence behaviours (Balram & Dragićević 2005) are not considered. Further, studies that count one aspect for a sample period may miss relevant data and they do not allow for the distinction between typologies of publics. There is a wide body of research that argues that pedestrian movement is unpredictable

- (Cunningham & Cullen 1993; Ma et al. 2009; Romer & Sathisan 1997; Whyte 1988; Wolfinger 1995), further complicating assessment.
- How the participants understand the tasks: Detailed explanations are required to reduce the high demand on human resources at the end of the studies, which can result in errors and subjective judgements by researchers.
- 4. Difficulties in mapping, counting or photographing large sites or large numbers of people.
- 5. Changes in participants' behavioural patterns if they know they are being followed or observed. Studies in which people are asked to undertake routine behaviours may not depict actual perceptions, activities or characteristics that would normally take place.
- 6. The selection of the method is dependent on the scope and stage of assessments (Leitão & Ahern 2001). Therefore, a comprehensive view of the urban system is often lacking (Pauleit & Duhme 2000) and it is virtually impossible to study all components and function at the same time (Leitão & Ahern 2001).

The weakness, challenges and limitations of individual observation methods are expanded in Appendix 2.B.



Figure 6-3: Example of observational methods. City of Adelaide and Project for Public Spaces placemaking assessment of Hindley Street, Adelaide. (Photo by author 2012)

Table 6-2: Overview of assessment methods and disciplines employing observation (descriptive) methods

Observation	Techniques		Typical study styles Tools												Disciplines						
methods	methods																				
Analysis typology																					
													Computer software (Photoshop, CAD etc)						(6		
													o, CAI						Recording devices - electronic (video)		
													oysc						onic (al	
			ation					cal)	le:				Phote						electr	nanu	
		on	serv	ation	ert)	er	cter	ohysi	ment	lic)	/e		are (es - e	es - n	
		ıvati	ed ok	serva	dxə)	aract	:hara	ent (viron	qnd)	pectiv		softw					λu	devic	devic	
		esqo	ıctur	ng ob	snsu	al ch	ical c	rrem	al en	ence	pers	lists	uter :				ooks	grapl	ding (ding (
		Direct observation	Unstructured observation	Walking observation	Consensus (expert)	Cultural character	Historical character	Measurement (physical)	Natural environmental	Preference (public)	visual perspective	Checklists	dwo	GIS	GPS	Maps	Notebooks	Photography	ecor	Recording devices - manual	
Qualitative	Environmental impact	X				0									9						Anthropology, Architecture, Art, Cartography, Civil Engineering, Climatology, Community
	assessments				х			х	х	Х	Х	х	х		1	Х	х	х	Х	х	Psychology, Criminology, Ecology, Engineering, Environmental Chemistry, Environmental
	Field notes	,,	х		Х	Х		х		х						х	х	Х		х	Psychology, Gardening, Geography, Health Sciences, Horticulture, Human Geography, Landscape Architecture, Other (includes local and state government departments, research institutions,
	Human traces or tracing Photo documentation	X X	х		х											х	х	1		х	practitioners), Planning, Political Science, Social Psychology, Social Science, Sociology, Tourism, Town Planning, Transportation Planning, Urban Design, Urban Planning.
	Tracking and shadowing	x	_ ^	Х	х					Х	Х				х			Х	Х		Town Planning, Transportation Planning, Orban Design, Orban Planning.
	Visual assessment	×			X	X				.,	,,			X	X	X	.,	ļ ,,	X	X	
Combined	Case studies	x	х	х	Х	х				Х	Х	Х	Х	Х	Х		Х	х	х	Х	Anthropology, Architecture, Biometeorology, Cartography, Climatology, Community Psychology,
qualitative /	Systematic observation	×	^	^	X	X	Х	X	х	Х	Х	X		х	х	x	X	X	X	X	Criminology, Ecology, Education, Engineering, Environmental Chemistry, Environmental
quantitative	Field observations		х		X	X		x				Х				X	x	X	x	X	Psychology, Epidemiology, Geography, Health Sciences, Horticulture, Human Geography, Landscape Architecture, Landscape Planning, Other (includes local and state government
	Test walks	х		х	×	^		x				х			х	X			x	^ x	departments, research institutions, practitioners), Planning, Psychology, Social Ecology, Social Psychology, Sociology, Tourism, Town Planning, Transportation Planning, Urban Design, Urban
	Walkability index			х	х			x				х	х		<u> </u>		х	х	x	X	Planning.
	Walking audit instruments			х	х			х				х					х	х	х	х	
Quantitative	Behavioural mapping		х		х	х		х	х	х	Х	х			х	х	х	х	х	x	Anthropology, Architecture, Behavioural Epidemiology, Behavioural Health, Biology, Botany,
	Block environmental inventory	х			x	X		x		x		×				x	x	x	x	X	Cartography, Climatology, Community Psychology, Criminology, Ecology, Engineering, Environmental Chemistry, Environmental Psychology, Gardening, Geography, Geology, Health
	Counting	х			x	^		X		^						X	^		x	×	Sciences, Horticulture, Human Geography, Landscape Architecture, Medicine, Other (includes
	Desktop audit	1			x		х	x	х			х	х	х	х	x		1	x		local and state government departments, research institutions, practitioners), Philosophy, Placemaking, Planning, Political Science, Political Theory, Politics, Psychology, Public Health,
	Figure ground mapping	t	х		х			х							1	х		1		х	Science, Social Ecology, Social Psychology, Sociology, Tourism, Town Planning, Transportation Planning, Urban Design, Urban Planning.
	Pedestrian flows	х			х			х								х			х	х	
	Place audits	х			х	х		х				х				х	х	1		х	
	Post-occupancy evaluations	х			х	х	х	х		х		х				х				х	
	Score sheets	х			х			х		х		х								х	
	Site inventory		х		х			х				х				х		х	х	х	
	Staying activities	х			х			х		х		х				х	х	х	х	х	
	Staying counts	х			х			х				х			1			1		х	
	Tracking	х	х		х			х		х					х				х		
	Walk-by observations			Х	х			х		х						х				х	

The table represents a diverse sample of disciplines rather than an attempt to be comprehensive.

Refer Appendix 2.A for an expanded table that includes researchers and consultants practising the methods outlined above.

Refer Appendix 2.B for an expanded table of each method outlined above.

Observation methods have wide implications for landscape architects. The literature review consistently revealed the perceived need for appropriate methods and conceptual frameworks to address all aspects of public space (Leitão & Ahern 2001). Observation methods can be adapted to inform frameworks. Real-time and qualitative supplementary information collected during observation assessments has the potential to inform planning and design, as well as maintenance and management plans, for specific landscapes. Successful assessments that inform private practice and advance the discipline of landscape architecture are those that combine a range of techniques, tools and methods and that have a clearly defined scope of assessment. For instance, Project for Public Space and Gehl Architects simplified their field note, place audit and counting methods, after numerous trials, to address the issue of incorrect interpretations. Their place audit methods include checklists with simple English to enable participants of any age to take part in studies.

Distinctions between publics can be informed by manual observations that look for differences in patterns of use no matter how brief. The distinction is subjective and based on the judgements of the observer. Only a handful of observation methods are consistently able to distinguish between publics (refer Appendix 2.B). These methods include field notes, human traces or tracing, photo documentation, case studies, systematic observation and behavioural mapping. The remaining observation methods consider the demographic profile of participants only, with all other potential users classed as the illegitimate public.

The ability to distinguish between public space typologies is related to the outcome of the assessment. For instance, assessments that are site- or design-specific are unable to distinguish between public space typologies, whereas assessments that emphasise use and not design are able to distinguish between typologies. Only a number of observation methods is consistently able to distinguish between public space typologies (refer Appendix 2.B). These methods include field notes, photo documentation, case studies, systematic observation, test walks, behavioural mapping, desktop audits and post-occupancy evaluations.

The review of the 26 observation methods indicates that the current observation methodologies, techniques and tools used by landscape architects to assess public space are inadequate to depict the range of publics and the degree of publicness. This review confirms the hypothesis developed for this thesis. Further, in response to the sixth subsidiary research question—What analytical methods, techniques and tools are missing in design of public spaces?—observation methods do provide adequate methods, techniques and tools. As shown above, the adequacy of a particular observation method is equated

to the method used and the desired outcome. To improve the relevance of any given observation method, a combination of methods should be used to enable a more comprehensive assessment. For instance, a combination of field notes, systematic observation, counting, pedestrian flows, behavioural mapping and place audits would provide a clear picture of who and how many publics are using a site, where they are going and what activities are taking place.

This section has identified 26 observational methods commonly used to assess urban landscapes, highlighting the strengths and weakness of these methods. The strengths are the diversity of data collected, which, when combined with other methods of data, will allow comprehensive measures of public space to be undertaken. The next subsection discusses the interview methods commonly used to assess urban landscapes to develop an argument around their relevance for data collection and the assessment of publicness within public space.

6.1.2 Interview methods

The following subsection presents an overview of eight interview methods used to assess urban landscapes. Table 6-1 and Table 6-3 present an overview of the different assessment methods. Further details on individual methods are provided in Appendix 2.A and Appendix 2.C. The methods detailed below represent methods applicable to assess use of urban public space within landscape architecture. They do not constitute a comprehensive list of all interview methods.

Interview methods can include workshops (Figure 6-4), interviews, surveys and questionnaires. Popular with researchers and private consultants, each method involves a dialogue-based assessment undertaken to gain participants' feedback. They may be informal, structured or guided, text-based or conducted as conversations, to gather individual responses. The intent is to discover how people perceive and use space.

Interview methods include qualitative approaches, combined qualitative and quantitative approaches and quantitative approaches, which provide focused but comprehensive views informing multifaceted assessments of public spaces. Undertaken correctly, interviews can capture a well-rounded and in-depth perspective to provide greater detail than that yielded by the observational techniques discussed above. This method distinguishes between participants, designers and non-designers, as noted by Forsyth et al. (2008, 2010), acknowledging that architects' (or other design professionals') views are different to those of the general public (Devlin 1990; Nasar 1998).

Table 6-3: Overview of assessment methods and disciplines employing interview methods

Interview	Techniques	Typic	al stud	y style:	5				Tools	5								Disciplines				
methods																						
Analysis typology		Consensus (expert)	Cultural character	Historical character	Measurement (physical)	Natural environmental	Preference (public)	Visual perspective	Checklists	Computer software (Photoshop, CAD etc)	GIS	GPS	Maps	Notebooks	Photography	Recording devices – electronic (video)	Recording devices - manual					
Qualitative	Design workshops		х	х		х	х		х	х			х		х	х	х	Architecture, Behavioural Epidemiology, Behavioural Health, Charities, Environmental Science, Forestry, Geography, Horticulture, Landscape Architecture, Landscape Management, Medicine,				
	Discussion Groups		х	х		х	х		х				х		х	х	х	Other (includes local and state government departments, research institutions, practitioners), Psychiatry, Public Health, Social Science, Sociology, Urban Design, Urban Planning.				
	Interviews (unstructured)	х	х	х		х	х	х		х						х	х					
Combined Qualitative /	Interviews (structured)	х	х	х		х	х	х		х						х	х	Architecture, Community Psychology, Environmental Psychology, Geography, Horticulture, Landscape Architecture, Other (includes local and state government departments, research				
Quantitative	Self-reporting (diaries/noting)		х	х		х	х									х	х	institutions, practitioners), Planning, Political Science, Political Theory, Politics, Psychology, Science, Social Psychology, Social Science, Sociology, Urban Design, Urban Planning.				
Quantitative	Interviews	х	х	х		х	х	х						х		х	х	Architecture, Behavioural Epidemiology, Behavioural Health, Community Psychology, Economics, Engineering, Environmental Psychology, Environmental Science, Forestry, Geography, Health				
	Surveys (online or in person)						х									х	х	Sciences, Horticulture, Landscape Architecture, Landscape Ecology, Medicine, Planning, Other (includes local and state government departments, research institutions, practitioners), Political Science, Political Theory, Politics, Psychology, Public Health, Science, Social Ecology, Social				
	Questionnaires (online, in person, postal)						х	х								х	х	Psychology, Sociology, Tourism, Urban Design, Urban Planning.				

The table represents a diverse sample of disciplines rather than an attempt to be comprehensive.

Refer Appendix 2.A for an expanded table that includes researchers and consultants practising the methods outlined above.

Refer Appendix 2.C for an expanded table of each method outlined above.

The data measured varied for each interview method (Table 6-3 and Appendix 2.C), inevitably depending on the goal of the assessment and who the participants are. The common elements of interview methods include:

- content analyses, site-specific responses and categorisation of use or avoidance of spaces into physical characterisation, such as too much vegetation and non-physical perceptions of space;
- 2. provision of well-rounded and in-depth perspectives, which can be obtained from a cross-section of community attitudes;
- 3. useful data for background information and small-scale urban design and planning interventions to formulate priority activities, programs and community visions;
- 4. the combination of secondary data sources; and
- 5. the opportunity to undertake staged interviews.

The strengths of individual Interview methods are expanded in Appendix 2.C.



Figure 6-4: Example of a design workshop. City of Adelaide staff design workshop for Pelzer Park/Pityarilla (Park 19). (Photo by author 2016)

The six common weaknesses, challenges and limitations of interview methods can be described as follows:

- 1. Public spaces are not static: The temporal nature of public space is a limitation for all methods assessed yet this aspect has received little critical analysis within the discipline;
- 2. The accuracy of the assessment is related to how the participants understand the tasks and therefore it is subject to reporting errors. Detailed explanations are required to reduce the high demand on human resources at the end of studies, which can result in errors and subjective judgements by researchers;
- 3. Interview design requires an understanding of a participant's occupation, hobbies, academic background, any preparatory information, familiarity

of area, religion and residential status, which are informed by a participant's cultural background and values (Amir & Gidalizon 1990; Aoki 1999; Chen et al. 2009; Clay & Smidt 2004; Dempsey 2008; Ewing & Handy 2009; James et al. 2009; Worpole 2003);

- 4. Participant selection is important to represent a cross-section of the community. Detailed planning processes rarely result in workshops and engagements representing all community members. Within the discipline of landscape architecture, the dominant voice is rarely factored into data analysis, unlike in psychology or sociology;
- 5. Researcher bias can unconsciously influence participants, resulting in expected responses that can influence research outcomes; and
- 6. Unless specific questions are asked regarding specific items/elements, the researcher is reliant on the participant's responses.

The weakness, challenges and limitations of individual interview methods are elaborated on in Appendix 2.C.

Interpretations of user preferences and perceptions have the potential to shape physical planning and design for selected sites. Successful assessments that inform private practice and advance the discipline of landscape architecture are those using a range of techniques, tools and methods, as outlined in this study, and have a clearly defined scope of assessment. For instance, questionnaire results used in conjunction with counting can provide a clear direction for design, such as the location of new pathways or the selection of site amenities.

The ability to distinguish between publics is influenced by the selected questions, the selection of participants and the desired outcomes of the interview methods. The only methods that distinguish between publics are those looking for differences in patterns of use, no matter how brief (refer Appendix 2.C). These methods include self-reporting, interviews (quantitative), surveys and questionnaires. The remaining interview methods consider the demographic of the defined public (or participants) with all other potential users classed as the illegitimate public. The ability to distinguish between public space typologies is related to the outcome of the assessment undertaken and influenced by the selected questions. Only surveys and questionnaires have a clear ability to distinguish between public space typologies (refer Appendix 2.C).

This section has overviewed the eight interview methods commonly used to assess urban landscapes. The summary of these eight interview methods highlighted their strengths and weakness. This review indicates that the current observation methodologies, techniques and tools used by landscape architects to assess public space are inadequate to depict the range of publics and the

degree of publicness. As shown above, the adequacy of a particular interview method is enhanced when it is used in conjunction with observation methods to enable a complete site assessment. For instance, a combination of design workshops and behavioural mapping could provide a clear picture of user perceptions along with observations of what activities are taking place and why. The next subsection discusses methods relating to assessment of infrastructure commonly used to assess urban landscapes to develop an argument around their relevance for data collection and the assessment of publicness within public space.

6.1.3 Infrastructure methods

The following subsection presents an overview of 11 infrastructure methods used to assess urban landscapes. Table 6-1 and Table 6-4 present an overview of the different assessment methods. Further details on individual methods are provided in Appendix 2.A. The methods described below represent methods applicable to assess use.

Involving qualitative approaches and quantitative approaches, methods that examine infrastructure, including the built form, are popular with governments (local, state, federal) and researchers. This is because each method provides descriptive inventories for expert panels and can be used to inform preliminary design approaches. They are formal, structured and guided. Participant involvement is limited to gathering quantitative data to predict the effects of proposals for significant change on sites, including roadways, wind farms or hills protection zones (Figure 6-5). The primary goal of infrastructure methods is to provide quantitative or qualitative predictions to facilitate the evaluation of trade-offs between proposals or planning objectives.

The data measured varied for each infrastructure method (Table 6-4) and inevitably depends on the goal of the assessment. The common elements of observation methods include:

- 1. Projects in Australia tend to examine cultural characteristics of places as part of visual assessment models;
- 2. The use of geographic information systems (GIS) to assess visual landscape variables has been shown to be reproducible (Balram & Dragićević 2005; Bishop & Hulse 1994) for studies measuring attitudes and public preference, and not descriptive outcomes;
- 3. When combined with other methods such as questionnaires, GIS can be used to support and document knowledge of real-time interactions, inclusiveness, social learning and awareness; and
- 4. Methods can differentiate between proposals and supposed visual impacts for context-sensitive solutions.





Figure 6-5: Example of altered photos. 'Before' and 'proposed' streetscape improvements proposed for Hindley Street, Adelaide. (Photomontage by author 2018)

The six common weaknesses, challenges and limitations of infrastructure methods can be described as follows:

- The temporal nature of public space is a limiting factor for all infrastructure and built form methods assessed, yet this has not been critically reviewed;
- 2. The methods do not correspond to inhabitants' experience of space. Studies are typically undertaken in laboratory settings or online to avoid any external disturbance but, natural settings are full of disruptions;
- 3. Methods rely heavily on photograph selection, value judgements or ratings assigned by investigators and on the investigators' abilities. Observers react to own image of landscape formed from preferences and judgements with peripheral information and prior information bearing on valuation and comparisons. Ratings have clear limitations resulting from the absence of motivations and historical and cultural contexts included in the analysis of the data;

Table 6-4: Overview of assessment methods and disciplines employing infrastructure methods

Infrastructure methods	Techniques	ues Typical study styles										ı	1	ı	İ	İ	1	Disciplines				
										Q						(0						
Analysis typology										p, CAI						(videc						
		s (expert)	haracter	character	Measurement (physical)	Natural environmental	e (public)	spective		Computer software (Photoshop, CAD etc)				S	уһу	Recording devices - electronic (video)	Recording devices - manual					
		Consensus (expert)	Cultural character	historical character	Measuren	Natural er	Preference (public)	visual perspective	Checklists	Computer etc)	GIS	GPS	Maps	Notebooks	Photography	Recording	Recording					
Qualitative	Altered photos					х	х	х		х	х	х	х		х	х		Architecture, Community Psychology, Community Psychology, Engineering, Environmental Psychology, Forestry, Geography, Geology, Landscape Architecture,				
	Computer simulation					х	х			х	х	х	х		х	х		Natural Resource Management, Planning, Psychology, Social Psychology, Urban Planning, Other (includes local and state government departments, research institutions, practitioners)				
	Landscape evaluation	х			х	х					х	х	х		х	х	х					
	Scenic beauty estimation models	х				х				х	х	х	х		х	х						
	Visual assessment	х	х			х	х	х	х	х	х	х	х	х	х	х	х					
Quantitative	Environmental audits	х			х				х		х	х	х		х	х	х	Biology, Environmental Psychology, Epidemiology, Urban Planning, Other (includes local and state government departments, research institutions, practitioners)				
	Walkability audits	х			х				х		х	х	х		х	х	х	, , , , , , , , , , , , , , , , , , , ,				
	Pedestrian modelling	х			х				х		х	х	х		х	х	х					
	Smart Places	х			х	х		х		х	х		х									
	Space syntax	х			х				х	х			х		х	х	х					
	Urban design context analysis	х	х		х				х	х		_	х	х	х	х	х					

The table represents a diverse sample of disciplines rather than an attempt to be comprehensive.

Refer Appendix 2.A for an expanded table that includes researchers and consultants practising the methods outlined above

- 4. How and what data are collected can limit findings to specific sites, negating opportunities for consideration at comparative sites during the planning and design phases of projects;
- 5. Images miss the site characteristics of scent, noise or activities; and
- 6. Accuracy of studies is attributed to how the participants understand the tasks and are therefore subject to reporting errors. Detailed explanations are required to reduce pressure on human resources at the end of studies, which can result in errors and subjective judgements by researchers.

Infrastructure methods have little to no implications for landscape architects within the design process unless they are combined with interview methods or observation methods. The focus of these methods is to model behaviour and preference. These methods have a role within landscape architecture to shape planning processes. Infrastructure methods are site- and design-specific and are unable to distinguish between publics. Infrastructure methods are site-specific and are unable to distinguish between public space typologies.

This review of the 11 infrastructure methods was unable to provide a conclusive indication regarding the current observation methodologies, techniques and tools used by landscape architects to assess or depict the range of publics and the degree of publicness. The methods were unable to provide a conclusive distinction between publics or public spaces. This further confirms the hypothesis developed for this thesis. Visual assessment methods and walkability audits are the exception. Infrastructure methods are not relevant to this thesis because of their focus on predictive modelling.

6.2 Summary

The theoretical vacuum identified Appleton (1975) is still present and the inadequacy of conventional methodologies, techniques and tools highlighted by Owens (1993) still exists. New assessment techniques are required to analyse and design public space where performative value of amenity becomes the determining factor. This chapter has presented the complexities of studying public space through an examination of analytical methods, techniques and tools developed since the 1960s. The methods, techniques and tools reviewed were those commonly used by landscape architects and specialist consultants, representing a range of measurement approaches—from theoretical to practical applications. A review of 150 sources revealed the strengths and weaknesses of dominant methods, techniques and tools and it was noted that many studies are not easily transferable to landscape architecture.

Landscapes are in a continual state of transformation (Scazzosi 2004). No assessment method, technique or tool considered temporary events,

ephemeral conditions, multiple types of publics or enabled the clear recognition of activities generating social exchange, thereby hindering detailed assessments of public space. Nor did the methods, techniques and tools highlight the reasons behind use. Consideration of the typology of publics presented in this thesis in conjunction with public space typologies ensures that a complete assessment can be undertaken, minimising the limitations presented above. An expanded framework as presented in Chapter Seven addresses the limitations of previous methods, techniques and tools by providing an interdisciplinary approach. This expanded framework, which also looks beyond the judgements of local users and considers temporary users, will be of importance.

Scazzosi (2004) notes that there has been little experimentation to combine methods to view landscape as a system, yet numerous researchers recommend this approach or have integrated multiple methods from varying disciplines (such as Balram and Dragićević 2005; Bryan et al. 2010; Devine-Wright 2005; Herzele & Wiedemann 2003; Howley 2011; James et al. 2009). The use of multiple design assessments methods, tools and techniques, from audits to mapping, is essential in identifying, assessing and honouring the diversity of design qualities. The combination of multiple design assessments can bring together the visual, spatial, symbolic, functional and environmental relationships within the landscape. As places change over time and vary from day to day, the use of multiple methods honours the diversity of use and publics. Amenities can be designed in ways that protect vulnerable users and provide options for all users. Using multiple assessment methods allows for diverse amenities to be assessed with regard to use and publics. The integration of spatial and non-spatial aspects can also improve the reliability and consistency of the data collected resulting in the replication of results and comparative analysis. The selection of methods, techniques and tools should be based on the objectives, survey size and application of data.

Litton (1972) argues that a method has yet to be developed that can assess seasonal differences. Through the review of methods described above, it is evident that current methods still fail to assess dynamic change. The key to the advancement of methods would be to develop one that can do so in a tangible way.

Budget, time and site conditions can provide a wealth of data, if used. Unless capitalised, data gathered and assessed are often irrelevant and disproportionate to actual outcomes. Lack of capitalisation means studies can be seen to be a waste of funds, ineffectual for change or perceived as political material or statistics for determining project success. Capitalisation through collaboration can be the key to the success of studies; however, lack of collaboration between disciplines is common. This lack of collaboration can

stem from a lack of trust or the involvement of different design disciplines at different stages of projects, for instance, planners involved at the initial stages of a project, landscape architects through design and construction and public realm teams, once built. Lack of trust between disciplines can duplicate data gathered, reducing the ability to capitalise on these data. Positive examples can be found, such as Ehrenfeucht and Loukaitou-Sideris (2010), who cite the example of increased bike facilities in New Orleans after the 2005 hurricanes Katrina and Rita, thanks to planners and engineers successfully working together.

Studies typically assess predetermined issues related to site conditions. Predetermined issues can be considered a sample of site conditions, and may not enable full assessments, thereby failing to recognise changes within public space that affect city design and its implementation. Recognition of change is required to inform, follow and challenge design. Concern over the use of samples extends to time periods and community representation.

To provide complete assessments of public spaces tools, techniques and methods should ensure the following:

- Checklists and score sheets should be amended to include subjective and objective measures;
- Technology should be used to accurately portray site context. How technology is used requires ethical discussions; Hardy's (2014) opinion piece in *The New York Times* highlights that traditional privacy and social anonymity in cities are being reduced because of the widespread use of tracking devices. Hardy's opinion piece demands consideration of the implications of collecting data that tracks movements and is designed for individual target publics;
- Studies should be undertaken over long periods to reflect changing site conditions;
- Assessments should be conducted at different times of the year, in different conditions and rotating individual collection times at different locations to compensate for regular cycles, such as flows from transport nodes. These changes would provide a more comprehensive view of the city and produce more than a snapshot provided by studies such as Public Spaces Public Life (PSPL);
- Statistical data reviews, common in the disciplines of engineering and science, should be undertaken. Data reviews should include independent 2-group t-tests (refer Chapter Seven);
- Assessment of publics should be diversified. By considering the typology of publics presented in this thesis, cultural and disciplinary bias are minimised;

- Tools, techniques and methods should be combined. Such a mix can only be determined after selecting sites and confirming the purpose of the study;
- Assessments should combine social and physical environment traits. The
 combination of gender, age and financial resources (subjective
 evaluations) with design (objective evaluations) would reduce inaccuracy
 and provide data linking how and why public spaces are used;
- Qualitative and quantitative methods should be combined. Such a combination would reduce inaccuracy and provide data without subjective expectancy effects;
- Validity concerns should be minimised by reducing the complexities of data collection and the careful screening of surveyors; and
- Changes of behaviour should be minimised by diversifying how publics are assessed. By considering the new typology of publics presented in this thesis, behaviour patterns would be assessed by typology and not by individual movement.

Aoki (1999) concludes that scholars have not yet reached agreement on a universal method because of the ambiguity of landscapes and the range of available methods, which is demonstrated in this chapter. This thesis proposes a generalist approach to landscape assessments as a new methodological combined approach that is easy to comprehend. The generalist approach allows the strength of each method, technique and tool to be utilised and to create a rich assessment that values public space typologies and the proposed typology of publics. While generalist approaches are time-consuming, they capture the complexities missed by purist approaches.

Chapter Seven presents the proposed Design Assessment Framework. This framework was created not to develop new techniques, tools or methods, but rather, to refine a framework by analysing components where performative value and social exchange (publicness) become a determining factor. It also suggests a new methodological approach to measuring public space. The framework allows comparison between sites, used at different times, and considers public space with regard to typologies. The Design Assessment Framework represents a significant contribution to landscape architecture by providing an integrated method of scientific and cultural consensus for public space assessment.

Chapter Seven
Proposing a design
assessment
framework



There is design flaw in the idea of public space—it can never explain how a given space, such as a park, comes to be free of the 'private' (personal and structural) interests operating through its societal context.

Benjamin Fraser 2007, p. 693.

As presented in Chapter Six, detailed assessments of public space are hindered by assessment methods, techniques and tools missing clear recognition of temporary events, ephemeral conditions, multiple types of publics or activities generating social exchange. Consideration of the proposed typology of publics, presented in this thesis, in conjunction with public space types and interdisciplinary approaches, enables the selection of assessment methods to minimise limitations and uncertainties. In so doing, Appleton's (1975) theoretical vacuum is addressed.

Chapter Seven continues the review of methods, techniques and tools commonly used by landscape architects and introduces the Design Assessment Framework, developed as part of this thesis, to assess the level of publicness of public space for a diverse range of publics. The framework refines current methods, techniques and tools by analysing their components and proposing a new generalist combined methodological non-oppositional approach.

The framework is applied in Chapter Nine to 16 selected Adelaide case study sites (as outlined in Chapter Eight), to provide pre- and post-design advice for landscape architects as agents for public spaces.

7.1 Introduction

The immorality lies only in representing untested hypotheses as if they were proven principles.

Jay Appleton 1975, p. 123.

Appleton (1975) identified a theoretical vacuum in the assessment of landscape quality, urging his fellow researchers to set aside empirical pursuits and develop theoretical frameworks to assess landscape quality. Reviews by Sell et al. in 1984, Carlson in 1993 (p. 51) and as presented in Chapter Six highlight that 'much must yet be done' to establish a balance between empirical and theoretical strategies to assess landscape quality in terms of place and people.

Physical space is the first dimension of public space involving complex reciprocal relationships between users and space. Therefore, the assessment of connections between public space and users must take into consideration the physical dimension (Talen 2000).

Many, including Cuthbert (1995), have argued that the design of public spaces by architects, landscape architects and urban designers is circumscribed by representations of the use of space via implicit assumptions about human behaviour. To enable better design, landscape architects require assessment methods that assist with understanding human behaviour and analysing components to determine the performative value of public space.

Blacksell and Gilg (1975), Francis (2001) and Scazzosi (2004) contend that a nationally agreed technique for landscape evaluation is required. Many, including James et al. (2009), call for multi, inter and transdisciplinary frameworks to gain new knowledge and insights. This requirement is based on the understanding that landscapes are complex, constantly changing spaces, made up of a large quantity of objects, numerous operators and numerous users. Further, as shown in Chapter Six, there is a lack of reliable, robust and complete approaches to assessments of public space that support design thinking and decision-making.

Public space studies have typically grouped public space typologies together and relied on occupancy counts, staying activities or user surveys to analyse use and behaviour (refer Chapter Six), with results and judgements implemented at spaces of different scale and varying characteristics. Use of occupancy counts, staying activities or user surveys, as single methods, result in subjective assessments based on individual interpretation.

The gaps in knowledge can be summarised as follows:

There is a practical need to gain insight into how public space functions and is activated by diverse forms of events, activities and social exchange, to provide reliable data, judgements and predictions of user demand. Landscape architects are currently missing a framework that assists specifically with pre- and post-design approaches to public urban spaces. Knowledge of user demand will assist in determining the effects of temporary events, and if and how public space can be protected.

Reliable judgements of public space use and user behaviour have a range of practical uses, including evaluating and predicting the potential for shared social experiences, performative value and demand management. A method that combines end use data and mapping can provide reliable judgements, challenging current theories of behavioural patterns related to site elements.

Tempting as it is to create a purist method for new sites, much can be gained from refining and testing measures that can be used at multiple sites. Increased precision does not necessarily improve the quality of the assessment since the measurement may be unimportant in the context of the space or may provide

false confidence. Multiple assessments (generalist) allow for the triangulation of shared values when analysing the typology and measuring what is relevant. Hence, refining and grouping existing measures holds promise, similarly to Forsyth et al. (2007, 2010) in which all methods selected were appropriate for retrospective assessment.

The Design Assessment Framework outlined below has been developed to address the public–private narrative of public spaces through an integrated approach, assessing the performative value and social exchange (publicness) of these spaces. Assessment techniques include post-occupancy evaluations, character assessments, visual analysis and site audits. The point of departure is a methodological non-oppositional approach that allows data to be compared—not only by date but also to other sites aimed to measure public spaces pre- and post-design and inform landscape architectural practice. The Design Assessment Framework provides knowledge of user demand and considers how events that enable social exchange are responsible for changes in public space.

7.2 Aim and objectives

The immediate purpose of the Design Assessment Framework is to provide an integrated methodological non-oppositional approach to measure public spaces, assess public accessibility and inform landscape architectural practice. The framework is designed to minimise individual judgements by consultants. It is grounded through a combination of quantified measurement tools to define the physical change of sites that influence social interaction and use. The combination of methodologies identifies variables shown in other studies to influence public life in public spaces and measures how they vary between these spaces.

The primary aim of the Design Assessment Framework is to determine the publicness of public space by evaluating the public accessibility of case study sites and associated use by publics for a comparative analysis. To achieve this aim, the structure of the framework is important in determining the research approach (subsection 7.3) and the outcomes of the study. The structure is based on Carlson's (1993) recommendation that good frameworks should comprise an:

- underlying and foundational structure involving principles more basic than those it was built on;
- organisational and orientational focus to provide a structure and direction to other researchers; and
- explanatory account of why certain conditions are obtained.

The recommendations are considered through:

- ordering and connecting disparate lines of research from interdisciplinary fields of research and practice;
- facilitating justification of results by using scientific methods of data analysis;
- balancing theoretical considerations with formal qualities of sites; and
- matching techniques, tools and methods to the purpose of assessment.

The secondary aims of the framework are as follows:

- determine how the use of urban public space is influenced by temporary events, ephemeral conditions, multiple types of publics or activities generating social exchange (private or public) that result in periods of public exclusion;
- evaluate and test data required for reliable conclusions about publicness across selected typologies of public space and the proposed typology of publics;
- identify key elements that drive or affect public space appropriation and social exchange;
- evaluate differences between private and public performative value and social exchange; and
- provide reliable predictions of user demand, which are a direct result of change of use through events and fostered by site elements.

7.3 Research approach

The research approach used to develop the framework combined desktop studies, field assessments and questionnaire surveys. The approach included the following steps, procedures and standards:

- Review of public space typologies to critically assess the differences between typologies and determine if typologies should be assessed in the same way (refer Chapter Three). This review noted the complexities of the seemingly straightforward typology of publicly accessible urban space;
- Review of theories regarding the causes of and corrections to the erosion of public space (refer Chapter Four). This review noted how solutions to the erosion of public space can become new problems;
- Proposal of a new typology of publics: the defined public, the appropriating public, the transitory public and the illegitimate public (refer Chapter Five). This proposed typology allows for the assessment of how public space typologies are affected differently by regulations and design principles required to control and maintain them;

- Review of the complexities and varying levels of manifestation of exclusion activities (privatisation) in urban public space (refer Chapter Four). This review questioned the consequences of the diminishing line between private and public space;
- Review of the numerous analytical methods, techniques and tools developed since the 1960s to assess different qualities of public space (refer Chapter Six). This review highlighted the limitations and validity concerns of each method, technique and tool and gaps in current approaches;
- Review of parameters derived from the available research on public use of public space (refer Chapter Six);
- Distribution of two self-administered questionnaire surveys to gather landscape architects' and related design disciplines' views of public space and assessment processes. The questionnaire design was based on a cross-sectional survey design to prevent personal bias influencing respondents. The participants were selected from the disciplines of landscape architecture, urban design and architecture. All participants were contacted through correspondence sent to the Australian Institute of Landscape Architects, Architects Institute of Australia and New Architects Group for distribution to members. Questionnaires were distributed between November 2012 and December 2012. Limited responses were received and they were not statistically significant. Responses collected were deemed invalid, suggesting there is a disconnect between academia and professional practice. (Refer Appendix 3.A to Appendix 3.C for ethics clearances and questionnaires);
- Development of critical dimensions required for public space assessments. These include baseline data, site context, design principles, public space typologies and perceived use; and
- Development of a methodological non-oppositional approach to address the review above.

The method is presented below.

7.4 Approach and data analysis

As a generalised framework combining existing methods, techniques and tools, the Design Assessment Framework integrates experimental and experiential assessments to compare results across case study sites and differing public space typologies. The framework has been designed as a systematic integrated observational site analysis and data tool for an expert or lay person. The Design Assessment Framework:

• combines qualitative and quantitative datasets;

- captures variation in use between activities. Activities are categorised as either public (typical activity – non-event) and a change of use (event exclusive social activities);
- captures variation in behaviour (frequency and length of use);
- captures variation in public space typologies;
- captures variation in publics;
- responds to issues and weaknesses in existing methods and tools;
- responds to forces that influence and affect city design and is able to inform, follow and challenge these forces;
- is repeatable;
- captures variation in the character of sites;
- ensures the same data are collected at each site regardless of scale;
- allows for meaningful comparison between sites;
- evaluates urban public space; and
- evaluates the micro level impact of amenities.

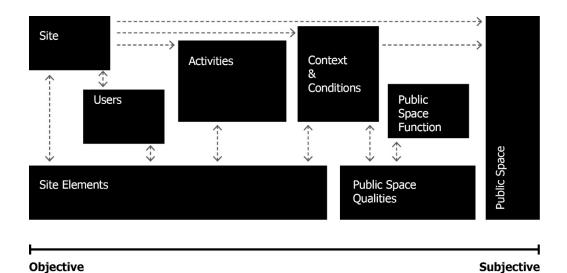


Figure 7-2: Conceptual framework

The conceptual framework underlying this study posits that *if* the preconditions for the use of public spaces are fulfilled, the perceived qualities, typology of publics and the activities *will* result in a perceived public space (Figure 7-2). *If* the preconditions for the use of public spaces are not fulfilled, the qualities, typology of publics and activities *will* result in a perceived private space.

The Design Assessment Framework is not:

an inventory of site amenities, nor is it an assessment and classification
of site amenities in terms of their ability to provide recreation
opportunities within public space;

- an inventory of aesthetics or scenic beauty, nor is it an assessment and classification of public spaces in terms of their aesthetics or inherent scenic attractiveness; or
- an inventory of recreation, nor is it an assessment and classification of recreation opportunities in terms of their likeliness to occur within public space.

This outlined approach has the practical benefits of being flexible, adapting to changes in activities and site elements, being fit for purpose and providing reliable end data to predict public space demand scenarios. The approach does this through three levels of assessment as proposed by Forsyth et al. (2007, p. 4) to provide different amounts and types of information:

- 1. Identifying features: Identifying and articulating visual or place character.
- 2. Measuring features: Quantifying or counting the features of the place in some way.
- 3. Evaluating features: Adding an evaluative component either in comparison to other scenes and places or by creating some form of scoring system.

Key to the approach and the three levels is how the framework measures the public accessibility of the case study sites by considering demographics, site elements, behavioural factors and site context and conditions.

This thesis acknowledges the strengths and weaknesses of various methods. In identifying elements or assessing design qualities, different assessment techniques provide different information of place so what is identified or assessed depends on the method selected. Noting that places differ and offer different qualities, it is important to focus on the character of place to determine what should be assessed. Forsyth et al. (2007, 2010), among others, recommend best practice is to use multiple methods of assessment. In this study, 13 participatory, graphic and checklist methods were integrated:

- 1. field notes
- 2. systematic observation
- 3. place audits
- 4. block environmental inventory
- 5. post-occupancy evaluations
- 6. counting, pedestrian flows and staying activities
- 7. behavioural methods
- 8. tracking and shadowing
- 9. human traces or tracing
- 10. visual assessment
- 11. photo documentation
- 12. test walks

13. walkability index.

Each method, technique and tool (listed above) is based on an existing method and links with Psychological, Perception, Aesthetic, Physical Form, Usability and User Satisfaction Theories. These are typically measured by assessing size, access, residential grain and the transport environment, all of which promote social interaction (refer Chapter Six). This will enable comparison between public space characteristics and other studies. Existing tools have already been tested for reliability and validity.

7.5 Methodological procedure and data collection

In assessing the publicness of public space, the focus is on change over time and the identification of trends rather than absolute measures, noting the use of public space is temporal in nature and any data collected can only reflect the time of the collection.

A comprehensive in-depth analysis is required to determine the degree of publicness occurring. The following methodological procedure has been established to conduct this analysis:

Step one: Site selection

• Step two: Data collection (outlined below)

Step three: Data collationStep four: Data assessment.

The Design Assessment Framework includes two data collection components: desktop assessment and site assessment. Desktop assessment identifies the scope and extent of the case study sites assessed and consists of data collected by authorities such as local councils. Data includes aerial photography, site plans and policy and planning documents. This component provides objective baseline data via obtaining and reviewing all relevant information pertaining to the site. The information required includes:

- topographic maps of administrative boundaries, vegetation cover, access points and land uses;
- maps showing existing, planned and related developments;
- brochures, concept plans, if available, showing existing, proposed or related facilities and special features;
- existing studies or inventories;
- statistics, if available; and
- creating a base map.

The site assessment component relies on direct observation methods and is designed to be conducted in the field via a checklist (refer Table 7-1). The checklist includes data that can be collected quickly, with each element assigned an equal weighting of Yes (1) or No (0). Recordings in the field enable data reflecting sound, smell and touch to be included in the datasets and replication by private practice and academic fields. Data includes user statistics, site elements and site activities. Refer Table 7-2 to Table 7-7. This component provides both objective and subjective information.

Many methods have been criticised because of their analysis of subjective site elements and how each element has been weighted (refer Appendix 4.B Detailed Overview of Assessment Methods). The Design Assessment Framework collected presence Yes (1) or absence No (0) only to remove ambiguity and assumptions (further details are provided below). The noting of 'present' or 'absent' also removes concerns about constancy of elements, which has been noted by Ewing and Handy (2009) to complicate measurement, validation and use in research and design.

Because of the equal weighting, the framework does not use regression analysis, which is typical for landscape evaluations in geography and environmental psychology. Regression analysis was excluded to reduce validity concerns regarding weighting independent elements, which is subjective and costly. The major concerns over weighting elements are that there is no agreed standard, resulting in elements weighted for each study. Insufficient rigorous tests are undertaken to establish independence of the independent elements. For this reason, Aoki (1999), Blacksell and Gilg (1975) and Francis (2001) propose that an agreed list of elements and standard variables is required for future studies. Given that public space studies consider the use of space by publics that are temporal in nature, this study does acknowledge that no study can be completely objective.

Three pilot studies were undertaken to evaluate the assessment framework. During and after each pilot study, the methodology was evaluated and reassessed to monitor reliability and relevance and amend the checklist as required. The checklist and datasets were revised three times, with the final checklist presented in Table 7-1 and datasets presented in Table 7-2 to Table 7-7 below.

The outcome of the assessment is the measurement, description and classification of landscape elements to provide information to decision makers through statements and maps.

Table 7-1: Design Assessment Framework site assessment checklist

Table 7-1: Design As				assessm	ent checklist		
Design Assessment		hecklis	t				
Site Visit Informati	on						
Date							
Time	Time arrived			Time left			Total time on site
Weather				1.		l.	
Event (exclusive							
social activity)							
User Statistics							
User numbers	0–20	20-10	00		100-500		500+
						•	
User ages	0–20		20-	60		60+	
							T
Typology of Publics	The Defined Public	The A		oriating	The Transitor	y Public	The Illegitimate Public
Length of stay	Long		Med	dium		Shor	t
-							
Gender	Male	Fem	ale	MAP		I	
				1	A Go-	-	F- 224
Presence	Individuals	Grou	ıps				dimension
Interaction	Yes	No		Water	K Ra	AH2 -10	n o c las
between users				T.	1)		0000
Notes				2,7	n ne a		To The last
Site Elements							
Signage	Yes	No		Signage additional		Yes	No
Security cameras	Yes	No		Security (additio	cameras	Yes	No
Security presence	Yes	No			presence	Yes	No
7,6				(additio	-		
Maintenance	Yes	No		Mainter	nance	Yes	No
presence				presence (additional)			
Seating (fixed)	Yes	No		Seating	(additional /	Yes	No
				loose)			
Public art	Yes	No		Public a		Yes	No
				(additio			
Public pride	Yes	No		Public p		Yes	No
Bins	Voc	No		(additio	ditional)	Voc	No
מוווס	Yes	No		Bills (ad	uitioilalj	Yes	No
Drinking fountains	Yes	No		Drinking	g fountains	Yes	No
				(additio			110
Lighting	Yes	No			(additional)	Yes	No
Transport (access	Yes	No		Food (a	ccess to)	Yes	No
to)							
Beverages (access to)	Yes	No		Barriers	/fencing	Yes	No
Amenities (other)	Yes	No		Notes			ı
				<u> </u>			

Site Surfaces and Struc	tures				
Paving	Yes	No	Paving	Yes	No
i avilig	163	INU	(additional)	163	INU
Gardens	Yes	No	Gardens (additional)	Yes	No
Gardens	res	No	Gardens (additional)	res	No
1		NI -	1 (- d d'at1)	W	N
Lawn	Yes	No	Lawn (additional)	Yes	No
Shade (vegetation)	Yes	No	Shade (vegetation,	Yes	No
			additional)		
Shade (built)	Yes	No	Shade (built,	Yes	No
			additional)		
Water	Yes	No	Water (additional)	Yes	No
Surfaces and structures	Yes	No	Notes		
(other)					
Site Activities (Formal	and Inform	al Recreation	on)		
Formal recreation	Yes	No	Informal recreation	Yes	No
(sport)			(seating)		
Commercial activities	Yes	No	Cultural activities	Yes	No
Passing through	Yes	No	Tourist activities	Yes	No
2000 4111 0 40011	. 53		(sightseeing)		
Prohibited or	Yes	No	Informal recreation	Yes	No
illegitimate activities	163	INU	(reading)	163	INU
Informal recreation	Voc	No	Informal recreation	Voc	No
	Yes	No		Yes	No
(lying down)	V	NI -	(picnic)	V	NI-
Formal recreation	Yes	No	Informal recreation	Yes	No
(fitness groups)			(other)		
Informal recreation	Yes	No	Buskers	Yes	No
(play)					
Event setup	Yes	No	Construction works	Yes	No
Commuting	Yes	No	Business (in course of	Yes	No
			work)		
Social or entertainment	Yes	No	Shopping or commerce	Yes	No
Not evident	Yes	No	Notes		
Site Context and Cond	itions				
Natural surveillance	Yes	No	Constant users	Yes	No
Clear design intent	Yes	No	High prospect/low	Yes	No
5			refuge		
Significance and value	Yes	No	Social imageability	Yes	No
	. 55				
Restorative places	Yes	No	Social interaction and	Yes	No
places	103	140	territoriality	103	110
Orientation	Yes	No	Movement	Yes	No
Officiation	163	INO	INIOVEILIEIIL	163	INU
Viou	Voc	No	Chango	Vos	No
View	Yes	No	Change	Yes	No
Notable 1	V-	N	Deliver III		N
Neighbourhood	Yes	No	Private-public	Yes	No
awareness			awareness		
Thematic continuity	Yes	No	Notes		

Site visit information: Quantitative dataset

Site visit information is collected to allow comparison between quantifiable components and the attributes of public spaces to determine the social and economic effects of publicness and conversely, privatisation.

Site visit information (see Table 7-2 below), presents objective baseline data and records site conditions at the time of data collection. Weather and events are of particular importance because these two items can have a significant outcome on the performative value of public space by altering how public space is appropriated and the public behaviour within the space. The mapping of events further explores ways to serve different publics in short-term cycles of appropriation and is seen by many, including architect Bernard Tschumi (1996), as crucial to understanding contemporary public space.

Table 7-2: Site visit information

Site Visit Informa	tion	Example - 1		
Site name	Commonly known name	North Terrace (between Kintore		
		Avenue and Frome Road)		
Site visit date	Day and date	Sunday - 27.01.2013		
Time arrived	am or pm	12:00 pm		
Time left	am or pm	2:00 pm		
Total time on site	Noted	2 hours		
Weather	Noted	29 degrees/sun		
Event (exclusive	Noted	Tour Down Under occurring nearby		
social activity)		on King William Street		

Site visit information was collected as part of this study to provide data to undertake independent 2-group t-tests. T-tests are a method used to check the hypothesis that two populations having equal means and averages are significantly different, taking into account the size of the population (i.e. whether there is enough data to support conclusions). Site visit information should be collected as part of the Design Assessment Framework as a record of assessment times and dates and site conditions.

The dataset used for the analysis involves following a systematic procedure utilising quantitative methods, techniques and tools. The Design Assessment Framework reviewed the following direct, unstructured and walking observational methods, techniques and tools as precedents for data collection:

- field notes;
- systematic observation;
- place audits;
- block environmental inventory; and
- post-occupancy evaluations.

Public accessibility measures: Qualitative and quantitative dataset

Public space 'always only proven in practice, never, that is, guaranteed in the abstract'.

Don Mitchell 2003, p. 4.

The aim of analysing public accessibility measures is to identify the user statistics of a public space and in so doing, determine a Design Assessment Framework (DAF) rating. The DAF rating scores a public space typology by measuring the performative value and social exchange (accessibility) of each typology by assessing different urban contexts and events (activities). The scores are used to identify missing characteristics or amenities and the influence of diverse forms of exclusion—a direct result of change of use through temporary events.

Seven measures of public accessibility (publicness) presented in Chapter Five were deemed relevant (refer Table 7-3) in establishing the base information required to determine the DAF rating. The measures put aside the ambiguity of public space and racial restrictions (Mitchell 1996; Ruddick 1996), meaning (Sorkin 1992), the use of 'citizenship' to gain access (Staeheli & Thompson 1997) and other socially imposed factors (Talen 2000) to undertake systematic observations assessing who is using public space, if interaction between groups occurs and how long activities and behaviour occur. The collection of the seven measures takes into consideration the temporal nature of the data collected. The seven measures were selected as a method for determining community representation of life and inclusion in urban spaces.

A total score of 7 indicates that the public space contains all public accessibility measures (user statistics). A score of 0 would indicate the space does not contain the public accessibility measures. Each of the seven measures is equally weighted, that is, user numbers are considered important as typology of publics, age or interaction.

User numbers via counting has become a common yet basic quantitative research tool to assess pedestrian movement and numbers in public space by gathering quantitative data to justify improvements and evaluate success or failure of public spaces.

Broad age groups are common for observation methods and are noted by Veitch et al. (2014). Age groups are qualitative assumptions based on the assessor's judgement.

Table 7-3: Public measures

Public accessibility measures (user statist	ics)		Example -	1
User number: 0–20 people present	Y or N	0.25	Yes	0.25
User number: 21–100 people present	Y or N	0.25	Yes	0.25
User number: 101–500 people present	Y or N	0.25	No	0
User number: 501+ people present	Y or N	0.25	No	0
User age: 0–20 age group present	Y or N	0.33	No	0
User age: 21–60 age group present	Y or N	0.33	Yes	0.33
User age: 61+ age group present	Y or N	0.33	Yes	0.33
Typology of publics: The Defined Public	Y or N	0.25	Yes	0.25
Typology of publics: The Appropriating Public	Y or N	0.25	Yes	0.25
Typology of publics: The Transitory Public	Y or N	0.25	Yes	0.25
Typology of publics: The Illegitimate Public	Y or N	0.25	Yes	0.25
Gender: Male	Y or N	0.5	Yes	0.5
Gender: Female	Y or N	0.5	Yes	0.5
Presence: Individual	Y or N	0.5	Yes	0.5
Presence: Group	Y or N	0.5	Yes	0.5
Interaction between users	Y or N	1	No	0
Length of stay: Short (0-15minutes)	Y or N	0.33	Yes	0.33
Length of stay: Medium (15–45 minutes)	Y or N	0.33	No	0
Length of stay: Long (45 minutes or more)	Y or N	0.33	No	0
DAF Rating	Total	7	Total	4.5
		Maximum		

Lack or removal of one or more publics through actions designed into public spaces or restrictions placed on public space through events or private usage is speculated within this study to represent degrees of exclusion (privatisation). The publics measured are the defined public, the appropriating public, the transitory public and the illegitimate public (refer to Chapter Five). These proposed publics are affected differently by regulations and design principles. The typology of publics is a qualitative assumption based on the assessor's judgement, in other words, determining a public moving through the space (transitory), undertaking defined activities or appropriating the space for their own use. The collection of typologies takes into consideration the temporal nature of the data collected. Typologies of publics were selected as a public accessibility measure because landscape architects need to recognise the diversity of public in public space and acknowledge that diversity is not predictable or controllable. Recognition indicates sensitivity to cultural norms, opening dialogues that distinguish the different forms of publics and their activities and public space typologies in the 21st century.

As discussed in Chapters Two and Four, rights to public space are not clear and some publics perceive a clear divide between use and gender. This divide has been attributed to inequalities and how some public places can be perceived as unwelcoming by particular genders, with many publics struggling for inclusion based on gender. These findings are supported in several disciplines, including geography, criminology and environmental psychology. Gender is a qualitative assumption based on the assessor's judgement and is acknowledged as subjective.

Individuals' or groups' presence expands user numbers. The differentiation between groups and individuals gathers data of social distance (Whyte 1980) and indicates if the space functions for multiple users without social connections. This dataset uses counting to establish levels of use by groups and the overall comfort of public space. The comfort of public space is linked to return use.

Social distance is a subtle ever-changing measure (Whyte 1980), depending on how willing users are to interact with those unknown to them. Interaction between users expands on user numbers and user presence, gathering data on the changes in social distance that are not linked to necessity. Collection of this data supports the function of spaces as public space and determines potential catalysts for triangulation (Whyte 1980) to occur between strangers and place.

Studies on the duration of activities are undertaken to illustrate the character of public space as a destination or transient area, the nature of public life and quality offered. Length of stay has been linked by many, including Ellickson (1996), to the design of space and the designed behaviour/unspoken informal time limits that allow publics to exercise their identical rights to the same space. There is a fine line between the positive outcome of public space, such as increased length of stay, and the negative of overstaying, which can change an individual from a defined public to an illegitimate public. The longer a member of the public stays in a rapid turnover public space (disrespecting an informal time limit), the more likely they are to deter others from using the space. This behaviour highlights the so-called shortcomings of the space. The length of stay of groups such as street performers, solicitors, charities, church groups, buskers or beggars are seen as negative unless specifically warranted by a legitimate event, in which case they are then seen as a positive. The flip side is the greater number of defined publics using long-staying designed spaces is seen as a positive (Whyte 1980). For this study, a short length of stay is considered less than half an hour, a mid-length stay is half an hour to one hour, while a long stay exceeds one hour.

Because this study focuses on usage, cultural backgrounds were not deemed relevant. Typically, items such as occupation, hobbies, academic background, religion and residential status were not included in the study since they are related to an individual's cultural background and are linked to perceptions of space. These items were highlighted in Aoki's (1999) review of methods.

Further to the exclusion of cultural backgrounds, qualitative characteristics of public space that assess social interaction constraints—such as perceived safety—were not deemed relevant. The Design Assessment Framework does have the ability to expand to include qualitative characteristics as deemed necessary by the assessor.

The dataset used for the analysis involves taking systematic observations of participants within the study area to assess usage. The Design Assessment Framework reviewed multiple methods, techniques and tools as precedents for data collection and employed the following analysis of user statistics:

- field notes;
- systematic observation;
- counting, pedestrian flows and staying activities;
- behavioural methods;
- place audits;
- block environmental inventory; and
- post-occupancy evaluations.

Assessment of user statistics provides demographic data. The data rendered will allow landscape architects to determine how public each public space typology is by describing relationships and interactions between genders, age groups and length of time on site.

Site elements: Quantitative dataset

Site visit information and user statistics only provide one part of the picture (Owens 1993). Results from those two datasets may suggest sites are similar based on the data collected. Visiting the sites and assessing the site elements shows a different picture, highlighting the implications of simple comparisons.

Elements in the environment influence experience (Amir & Gidalizon 1990; Aoki 1999; Chen et al. 2009; Clay & Smidt 2004; Dempsey 2008; Worpole 2003; Yu 1995). The type, amount and quality of site elements plays an important role in the built environment because physical features directly and indirectly influence perceptions (Ewing & Handy 2009) of public space. The assessment of site elements establishes the spatial preference of users (Foltête & Piombini 2007; Whyte 1980, 1988). This is achieved by providing data on how individuals react to space given their attitude and preference for elements, thereby providing conclusions on which elements are attractors.

Twenty-four measures are considered relevant (refer Table 7-4) in establishing the base information required to assess public space and public accessibility (publicness). The list in Table 7-4 is a collection of objective items, including cultural markers such as public art and everyday items such as signage. The list is a predefined checklist. To provide a measure of publicness, each element has equal weighting. The site elements dataset collected 'yes' or 'no', 'present' or 'absent' only to remove ambiguity of the observer and the subjective nature of the elements. Noting 'present' or 'absent' also removes hypothetical assumptions of importance and influence, whether permanent or temporary, and any concerns regarding the constancy of elements.

Table 7-4: Site elements

Site Elements		Example - 1		
Signage	Y or N	1	Yes	1
Signage (additional)	Y or N	1	No	0
Security cameras	Y or N	1	Yes	1
Security cameras (additional)	Y or N	1	No	0
Security presence	Y or N	1	No	0
Security presence (additional)	Y or N	1	No	0
Maintenance presence	Y or N	1	No	0
Maintenance presence - additional	Y or N	1	No	0
Seating (fixed)	Y or N	1	Yes	1
Seating (additional/loose)	Y or N	1	No	0
Public art	Y or N	1	Yes	1
Public art (additional)	Y or N	1	No	0
Public pride	Y or N	1	Yes	1
Public pride (additional)	Y or N	1	No	0
Bins	Y or N	1	Yes	1
Bins (additional)	Y or N	1	No	0
Drinking fountains	Y or N	1	Yes	1
Lighting	Y or N	1	Yes	1
Lighting (additional)	Y or N	1	No	0
Transport (access to)	Y or N	1	Yes	1
Food (access to)	Y or N	1	No	0
Beverages (access to)	Y or N	1	Yes	1
Barriers (fencing)	Y or N	1	No	0
Other urban furniture	Y or N	1	No	0
	Total	24 Maximum	Total	10

Note: This list is not final and may be expanded to include site elements that occur on any given site.

Site elements are built features and amenities deemed independent variables in the case study sites. The initial list of physical features measured was derived from urban design and landscape architecture literature, visual assessment studies and early site investigations. Selected site elements match literature and precedent studies and are the main elements of the public space that affects the quality life. Selected elements are a mix of those that encourage, discourage or control use.

This dataset looks only at the visible physical features and amenities, such as seating, which could influence the nature and length of interaction. Features include major and minor amenities that foster interaction, but excludes elements such as landform and architectural structures. Temporary site elements such as additional bins for events are included and equate to nine of the 24 measures. The variables selected for investigation can be expanded as required.

All the elements listed above, minus the additional, are typically collected in assessments of public space. Because there was no consensus as to which features or elements create high-quality space (refer other chapters) or which are more important, all features or elements should be considered equally. Additional or temporary element items are included as part of this thesis.

This dataset assists in understanding how particular features attract users and encourage site-based activity, allowing analysis of real-world policy controls

and interventions. The results will provide landscape architects with the following:

- elements that are positive attractors to sites and elements that are detractors; and
- specific features that are major factors associated with increased use.

This dataset used for the analysis involves taking systematic reviews of site elements within the study area. The Design Assessment Framework reviewed multiple methods, techniques and tools as precedents for data collection and employed the following analysis of site elements:

- field notes;
- visual assessment;
- photo documentation;
- systematic observation;
- test walks;
- walkability index;
- counting, pedestrian flows and staying activities;
- behavioural methods;
- place audits;
- block environmental inventory; and
- post-occupancy evaluations.

Site surface and structures: Quantitative dataset

Site surfaces and structures data expands on site elements data. Thirteen measures are argued to have relevance (refer Table 7-5) in establishing the base information required to assess public space and public space accessibility (publicness). The list in Table 7-5 is a collection of objective surfaces and structures typically found in public spaces and is a predefined checklist. To provide a measure of public accessibility each surface has equal weighting. The site surfaces and structures dataset collected 'yes' or 'no', 'present' or 'absent' only to remove subjectivity and assumptions.

This dataset assists in understanding how particular surface features attract users and encourage site-based activity, allowing analysis of real-world policy controls and interventions. The results will enable landscape architects to determine the following:

- specific features that are a major factor associated with increased use;
- specific features that are a major factor associated with diverse staying activities.

Table 7-5: Site surfaces and structures

Site Surfaces and Structures	Example - 1			
Paving	Y or N	1	Yes	1
Paving (additional)	Y or N	1	No	0
Gardens	Y or N	1	Yes	1
Gardens (additional)	Y or N	1	No	0
Lawn	Y or N	1	Yes	1
Lawn (additional)	Y or N	1	No	0
Shade (vegetation)	Y or N	1	Yes	1
Shade (vegetation, additional)	Y or N	1	No	0
Shade (built)	Y or N	1	No	0
Shade (built, additional)	Y or N	1	No	0
Water	Y or N	1	Yes	1
Water (additional)	Y or N	1	No	0
Other surface changes	Y or N	1	No	0
	Total	13 Maximum	Total	5

Note: This list is not final and can be expanded to include surfaces and structures that occur at any given site.

This dataset used for the analysis takes a systematic review of site surfaces and structures within the study area. The Design Assessment Framework reviewed multiple methods, techniques and tools as precedents for data collection and employed the following analysis of site surfaces and structures:

- field notes;
- systematic observation;
- place audits;
- block environmental inventory; and
- post-occupancy evaluations.

Site activities: Quantitative dataset

Geographers seek to understand the relative vibrancy of urban public spaces, analysing what some called the 'place ballet' that develops through the relatively unscripted, but nonetheless norm-structured interactions of people going about their business, hanging out and moving through (Forsyth et al. 2010; Mitchell & Staeheli 2009). To empirically establish whether there is a relationship between publicness, public space typologies and the typology of publics, an analysis of activities is required. This detailed dataset builds upon user statistics, providing additional information, and allowing for assessments to consider the mix of users and intensity of usage to arrive at valid correlations about publics and reasons for use of space. An analysis of site activities responds to questions that focus on possible influences from a spatial context including adjacent sites. Assessments determine to what extent the sites are accessible.

Table 7-6 presents the 21 subjective and objective activities that commonly occur in public space, forming the baseline data collected. Activities included in the table are optional (only take place in good conditions) and necessary (take place in all conditions) (refer Chapter Five). To provide a measure of public accessibility, each activity has equal weighting. The site activities dataset

collected 'yes' or 'no', 'present' or 'absent' to remove subjectivity and assumptions.

Table 7-6: Site activities

Site Activities		Example - 1		
Formal recreation (sport)	Y or N	1	No	0
Informal recreation (seating)	Y or N	1	Yes	1
Commercial activities	Y or N	1	Yes	1
Cultural activities*	Y or N	1	Yes	1
Passing through*	Y or N	1	Yes	1
Tourist activities (sightseeing) *	Y or N	1	Yes	1
Prohibited or illegitimate activities	Y or N	1	Yes	1
Informal recreation (reading)	Y or N	1	No	0
Informal recreation (lying down)	Y or N	1	No	0
Informal recreation (picnic)	Y or N	1	No	0
Formal recreation (fitness groups)	Y or N	1	No	0
Informal recreation (other)	Y or N	1	No	0
Informal recreation (play)	Y or N	1	No	0
Buskers	Y or N	1	No	0
Event setup	Y or N	1	No	0
Construction works	Y or N	1	No	0
Commuting*	Y or N	1	Yes	1
Business (in course of work)*	Y or N	1	No	0
Social* or entertainment	Y or N	1	No	0
Shopping or commerce	Y or N	1	No	0
Not evident*	Y or N	1	Yes	1
	Total	21	Total	8
		Maximum		

^{*} Highlighted columns are subjective activities.

Note: This list is not final and can be expanded to include activities that occur at any given site. The Design Assessment Framework recommends not including an 'other' category because knowing which activities occur is required to assess site usage.

Correlation analyses of site activities compared with user statistics and site elements provide configurational measurements and social data that will enable landscape architects to determine the following:

- any reduction in activities and publics undertaking activities because of degrees of exclusion; and
- if there is a link between public space typologies and the form of social interaction that occurs.

Data are collected through a combination of qualitative and quantitative techniques, tools and methods. The Design Assessment Framework reviewed the following direct, unstructured and walking observational methods techniques and tools as precedents for data collection:

- tracking and shadowing;
- human traces or tracing;
- field notes:
- photo documentation;
- systematic observation;
- test walks;
- walkability index;

- counting, pedestrian flows and staying activities;
- behavioural methods;
- place audits;
- block environmental inventory;
- post-occupancy evaluations; and
- design workshops.

Direct, unstructured and walking observational methods were selected to assess use and activity and to record the intensity of activities to capture uses out of the norm. This method involves taking systematic observations of each participant within the study area collected in two forms: checklist and mapping. Both forms are required to gather subjective and objective data. The mapping of sites captures subjective data for assessment in terms of locations and enables configurative analyses to be made between sites at different times of day.

Because of the spontaneous nature of publics, the Design Assessment Framework collects data over a 24-hour period in all seasons to provide a reliable picture of the system and everyday standard routines. This is required to capture use during different site modes, such as mapping large crowds (the appropriating publics) leaving venues, displacing the transitory and the defined publics.

Site context and conditions: Qualitative and quantitative dataset

The appearance of the public space affects uses and thereby the success of the space. Key to success is how comfortable a space appears (Pasaogullari & Doratli 2004), the quality of the space and the aesthetics. Comfort, quality and aesthetic considerations have been identified as key variables for measuring the utilisation of public spaces and are linked to site context and conditions.

Fifteen predictors of comfort, quality and aesthetics are deemed relevant (refer Table 7-7) in establishing the base information required to assess public space and public accessibility. To provide a measure of public accessibility, each predictor has equal weighting. The list is a collection of subjective items and is a predefined checklist. The site context and conditions dataset collected 'yes' or 'no', 'present' or 'absent' to remove subjectivity and assumptions.

'Comfort' measures safety by considering natural surveillance, high prospect/low refuge, restorative places orientation, social interaction and territoriality, change in use and private—public awareness. Ability to move, seek refuge and orientate are all linked to feeling comfortable and welcome. Spaces that impede comfort, thereby change use and represent degrees of exclusion.

Table 7-7: Site context and conditions

Site Context and Conditions		Example - 1		
Natural surveillance	Y or N	1	Yes	1
Constant users	Y or N	1	Yes	1
Clear design intent	Y or N	1	Yes	1
High prospect/low refuge	Y or N	1	No	0
Significance and value	Y or N	1	Yes	1
Social imageability*	Y or N	1	Yes	1
Restorative places	Y or N	1	Yes	1
Social interaction and territoriality	Y or N	1	Yes	1
Orientation	Y or N	1	Yes	1
Movement	Y or N	1	Yes	1
View	Y or N	1	Yes	1
Change in use	Y or N	1	Yes	1
Neighbourhood awareness	Y or N	1	Yes	1
Private–public awareness	Y or N	1	Yes	1
Thematic continuity	Y or N	1	Yes	1
	Total	15	Total	14
		Maximum		

^{*} Imageability, as defined by Lynch (1960), refers to the fundamental nature of any environment to create a powerful quality for the urban image of the city.

Note: This list is not final and can be expanded to include additional site activities and constraints that occur at any given site. The Design Assessment Framework recommends not including an 'other' category because knowing the context and conditions activities occur is required to assess site usage.

'Quality' measures variation in activities and facilities by considering significance and value, movement and social interaction and territoriality.

'Aesthetics' measures maintenance, cleanliness and appearance by considering constant uses, clear design intent, social imageability, change in use, neighbourhood awareness and thematic continuity.

These predictors of use link connections to site and sense of safety of the site by assessing coherence, complexity, legibility, mystery, attentional restorativeness and familiarity. An individual's preference was not assessed as part of this study.

Ewing and Handy's (2009) urban design qualities of enclosure, human scale, transparency and complexity were excluded from the individual assessments. Social imageability was included because of consensus by Ewing and Handy (2009), Gehl (1987) and Lynch (1960), that highly imageable places are well formed, contain distinct parts, are instantly recognisable and contribute to a sense of place. Landmarks and distinctive buildings are examples of imageability.

Assessment types excluded from the checklist were:

- zone (planning);
- geographical data (property and district level); and
- access (physical distance travelled or travelling time from a to b). Access is considered actual access to site via movement.

Data are collected through a combination of qualitative and quantitative techniques, tools and methods. The Design Assessment Framework reviewed multiple methods, techniques and tools as precedents for data collection and employed the following analysis of site context and conditions:

- field notes;
- visual assessment;
- systematic observation;
- place audits; and
- block environmental inventory.

This method is the same as the one used for the site activities dataset. It involved taking systematic observations of each participant within the study area to capture subjective data for assessment in terms of locations and enabled configurative analyses to be made between sites at different times of day.

Correlation analyses of site context and conditions compared with user statistics provide configurational measurements and social data that will enable landscape architects to determine the following:

- character of different sites as a guide to development and design changes;
- visual interest and influence to guide the development of control and regulation typologies;
- indication of susceptibility to change; and
- context and conditions that are favourable to all publics.

7.6 Summary

The Design Assessment Framework provides a guide for alternative design strategies and policy formation for public landscapes by two means. The first is to present a more comprehensive capture and assessment of elements in the environment. The second is to introduce a new tool for measuring the degree of publicness in public space.

The Design Assessment Framework is used in Chapter Nine to measure the publicness of public spaces in Adelaide, South Australia and to suggest which elements, surfaces, activities and context contribute to or erode public accessibility and social exchange.

Chapter Eight
The Adelaide
Laboratory



To address the question, *How public is public space?*, Chapter Eight introduces 16 metropolitan public spaces selected as case study sites in Adelaide, South Australia. These sites represent five typical public space typologies outlined in Chapter Three—Parks & Gardens, Streets & Promenades, Plazas & Squares, Waterfronts and Commercial Spaces. This chapter outlines the importance of Adelaide, South Australia in testing the Design Assessment Framework, developed in Chapter Seven and measuring the performative value of public space as spaces of social exchange rather than simply focusing on aesthetics, typology or location. The Adelaide case study sites represent the potential variables in public spaces and in some instances, those considered compatible with public social exchange or those considered antithetical to public social exchange.

The Design Assessment Framework is used in Chapter Nine to measure the performative value (accessibility) of public spaces in Adelaide, South Australia, for a diverse range of publics and to suggest which elements, surfaces, activities and contexts contribute to or erode the public accessibility and social exchange.

8.1 Adelaide as a case study

[Adelaide], one of the last great planned metropolises.

Gehl Architects 2012, p. 8.

As highlighted by Scazzosi (2004), comparisons undertaken in Western countries in the northern hemisphere have presented a global and unitary vision of public space. The majority of landscape assessments have been undertaken in European countries (particularly in Great Britain, Italy, France, Poland, Germany, Holland, Slovenia, Spain, Denmark and Norway) and North America.

With a consideration to look outside the northern hemisphere, Adelaide, South Australia, the third most liveable city in the world in 2021, was selected for this study. Little has been published by Western geographers or landscape architects on Adelaide. Yet, Adelaide is widely recognised as a well-designed, well-planned urban space. The selection of Adelaide demonstrates a range of public spaces, including privately owned, publicly accessible spaces, to test the proposed Design Assessment Framework.

But South Australia deserves much, for apparently she is a hospitable home for every alien who chooses to come and for his religion too.

Mark Twain 1897, p. 181.

While Adelaide is a comparatively new city by international standards, the public spaces can be considered benchmarks because of the historical and contemporary patterns of planning, political standing and dedication to the provision of public space. Metropolitan Adelaide (greater Adelaide) is home to almost 1.5 million people from over 200 culturally, linguistically and religiously diverse backgrounds, accounting for nearly 85% of South Australia's population. The diversity of Adelaide's civic and public spaces has been a characteristic of the city's urban built form. From the mid-19th century, Adelaide has been labelled and is regarded as the 'City of Churches', referring to its diversity of faiths rather than the devoutness of its citizens, and is ironically one of Australia's least religious cities. It is also the Festival State, referring to the number of cultural events that take place annually (refer Figure 8-1 for OzAsia Festival example).

The City of Adelaide comprises the Adelaide central business district (CBD) and affluent suburb North Adelaide covering an area of 15.57 km². It has a resident population of 22,065 (ABS, Estimated Resident Population on 23 October 2017, latest available). More than 262,000 individuals work, study, volunteer or visit the city each day (City of Adelaide, n.d.), accounting for 20% of the state's economy. It is anticipated that the population of Greater Adelaide will grow by over 500,000 people in the next 30 years, meaning upwards of an additional 15,000 individuals living in the Adelaide CBD by 2036.

Adelaide's surviving grid layout of alternating wide and narrow streets and six squares surrounded by 7.6km² of Park Lands was planned by Colonel William Light prior to European settlement in 1836 (refer Figure 8-2 - Figure 8-3). The city plan received national heritage status in 2008 because of the grid layout, which is considered a legible, rare and complete exemplar of 19th century colonial planning, reflecting early theories and ideas of the Garden City movement (Adelaide City Council 2015; Australian Government Department of the Environment 2015; DASH Architects 2018; Summerling 2011).

Of central importance to the Adelaide plan was the intentional provision of public space. 50% was set aside as public space for 'common' use such as exercise and recreation in a response to 'urbanisation' (DASH Architects 2018; Morton 1996). This plan was then used as a model for other towns in Australia and New Zealand (Adelaide City Council 2015; Australian Government Department of the Environment 2015; Summerling 2011) and is comparable to



Figure 8-2: Original 1837 plan of the City of Adelaide. (Image courtesy of the Department of the Environment, Water, Heritage and the Arts)



Figure 8-3: March 2015 satellite photo. (Photo courtesy of the City of Adelaide)

Portland, Oregon and Savannah, Georgia in the United States (DASH Architects 2018; Morton 1996). Encircled by Park Lands, the siting of the city responded to the local topography, with the orientation and hierarchy of the streets maximising views and vistas onto the surrounding Park Lands and the Mt Lofty Ranges to the east. Together, these features contribute to the international regard with which the City of Adelaide is held as an exemplar of urban design and urban planning. Accordingly, the plan of Adelaide has been labelled by urban planners, urban designers, historians and town planners, including Gehl Architects (2011), as one of the best and last planned cities in the world.

The City of Adelaide has been cited as an Australian example of a 'doughnut city' (Ware et al. 2011). A doughnut city has strong day usage but is devoid of overnight populations except on Friday and Saturday nights. Ware et al. (2011) note that the dramatic change of use from day to night is because of past economic drivers—retail, commercial and educational—precipitating specific daytime activities. In the past decade, land use in the city has changed, with an increase in inner-city housing that has attracted a growing number of young people (university students) and developments to attract people day and night. Increased night populations are associated with changes implemented by the City of Adelaide and the Government of South Australia, which acknowledge that '[t]he City Centre is the public, civic place and as a city, we want everyone from Noarlunga to Norwood coming into town' (6° Urban 2013, p. 29). These planning changes include the state government's liquor licensing laws, introduced in 2013, and the establishment of Renew Adelaide Inc., which has supported creative enterprise in vacant spaces since 2010. The City of Adelaide Council also provides a range of grants and financial support designed to attract and assist small business operators such as the Climate Change Action Initiatives Fund, 'Free Rates for Five Years' owner-occupier rebate and the Green City Grant Program. The latest initiative is Green Adelaide (n.d.). Effective collaboration between the city council and the state government has allowed progress to be undertaken in the city for the benefit of the public.

Adelaide has consistently been ranked in the top 10 of the world's most liveable cities by *The Economist Intelligence Unit* (2010, 2011, 2012, 2013, 2014, 2015, 2016, 2021) and the *Property Council of Australia* (2011, 2012, 2013 and 2014), in the top 50 cities in the *Mercer Quality of Living Survey* (2010, 2012, 2015, 2016, 2017) and in the top 5 of the State of Australian Cities reports. In 2020, the Ipsos survey ranked Adelaide as Australia's most liveable city (Carter 2020), followed by ranking third in the Global Liveability Index 2021. The liveability ranking is a result of its Mediterranean climate and coastal location, a legacy of planning, focus on innovative economy strategies with a positive impact on business attraction and retention. Further, Cisco declared Adelaide the first Lighthouse City in Australia in 2015, joining other major cities, including Barcelona, Chicago, Dubai and Hamburg. In addition, Adelaide has been ranked

ninth (2014) and fifth (2016) in *Lonely Planet's* Top Cities of the World. *National Geographic Channel* selected Adelaide in 2013 to be included in its list of 18 liveable cities and was the first program produced in a documentary series named *Smart Cities*. Adelaide was the only Australian city on the list and was selected because of its multicultural population, landscapes, architecture and wine culture. In 2018, Adelaide was selected as one of 21 finalists in the Intelligent Community Forum Smart21 annual Intelligent Community Awards based on an Intelligent Community Index. Adelaide became Australia's first capital Welcoming City in 2018, being internationally recognised for fostering a sense of belonging and participation. This title extends Adelaide's diversity and inclusivity from 2014, when Adelaide was declared a Refugee Welcome Zone.

Adelaide's different to many of the cities it is compared with, so needs specific strategies.

6° Urban 2013, p. 11.

The diversity of Adelaide's civic and public spaces has led to many strategies, reports and visions being developed, including:

- City of Adelaide Strategic Plan City of Adelaide
- The 30 Year Plan Government of South Australia
- State Strategic Plan Government of South Australia
- Vibrant Adelaide DPA Government of South Australia
- 7 Strategic Priorities Government of South Australia
- 5000+ Integrated Design Commission
- Smart Move Strategy City of Adelaide
- Public Space Public Life: City of Adelaide 2011 Gehl Architects
- Thinkers Report Charles Landry
- Adelaide Fine Grain Report: A Strategy for Strengthening the Fine Grain of the Adelaide City Centre – 6° Urban
- Urban Design Guidelines 1988 City of Adelaide
- Adelaide Design Manual 2014 City of Adelaide
- Carbon Neutral Strategy 2015–2025 City of Adelaide
- Adelaide Park Lands Management Strategy 2015–2025
- Carbon Neutral Adelaide Action Plan 2016–2021 Government of South Australia, City of Adelaide.

The strategies, reports and visions listed above highlight the importance placed on planning and urban design. These documents make consistent reference to potential improvements and activation that can be made in the city with small interventions. While the relationship between public and private use is touched upon, it is not investigated in detail.

Additional factors that underpin the selection of Adelaide as a case study include the multiple public spaces within the small area. The variety of public spaces in Adelaide includes those that are planned and designed for events, those that accommodate multiple activities, those without a function and those with one defined function. Not least, the city is known to the researcher, as a long-term resident and registered landscape architect, who has been engaged in both private practice and the public sector for more than a decade. Accordingly, the case study sites were viewed simultaneously as an academic, local government representative and design professional.

8.2 Site selection

Case study site selection was important to test the Design Assessment Framework and to assess the degrees and influence of publicness on the performative value of five public space typologies—Parks & Gardens, Streets & Promenades, Plazas & Squares, Waterfronts and Commercial Spaces.

Adelaide as a study area represented a variety of public spaces with regard to pattern, age, physiography and growth within a typical urban neighbourhood. For the purpose of this research the scale of examination is the *neighbourhood* because the neighbourhood scale is closely related with community use and allows for an examination of social order and cohesion.

The selection of sites was based on the following criteria:

- represent different land uses and scale of development;
- be connected to an urban area;
- fall within an administrative framework such as private, local government or state government (sites administered by community groups were excluded);
- allow for public participation and social exchange; and
- be accessible to the public.

Further, the case study sites were required to:

- match the list in Table 4-1: Successful Public Space Qualities;
- represent one of the five traditionally identified public space typologies (by selecting representatives, it is possible to gather generalised data that characterises cities);
- represent a range of scales, locations and development;
- be varied (major and minor activity generators);
- exemplify land uses and settings found in urban metropolitan areas around the world;
- be accessible to photograph;

- be located within a 1–1.5km study area (Gehl & Svarre 2013);
- be used for traditional events, exclusive social activities and public social activities (refer Figure 8-4);
- exercise adaptive reuse or change of program into a spatial configuration that was not originally intended for it; and
- be well-documented.





Figure 8-4: North Terrace activation. Top: Non-event mode. (Photo by author 2017)

Bottom: Event mode. Art Gallery of South Australia exhibition opening with speeches, live music and performances for a 2-hour period. (Photo by author 2019)

A preliminary study, including site visits, was undertaken to determine if each potential site met the above selection criteria. To measure the performative value (accessibility) and social exchange of public spaces (publicness), a sample size of 16 case study sites was deemed appropriate. The object of combining the data from the 16 case study sites is to improve the ability of the Design Assessment Framework to assess the typology of publics outlined in Chapter Five and to suggest which elements, surfaces, activities and contexts contribute to or erode public accessibility and social exchange. 16 sites allowed for subsequent analysis, were manageable in terms of data collection and met concerns of validity. By conducting identical studies using comparable methods at different public spaces, conclusions about public space and publicness could be discerned.

8.3 Case study sites

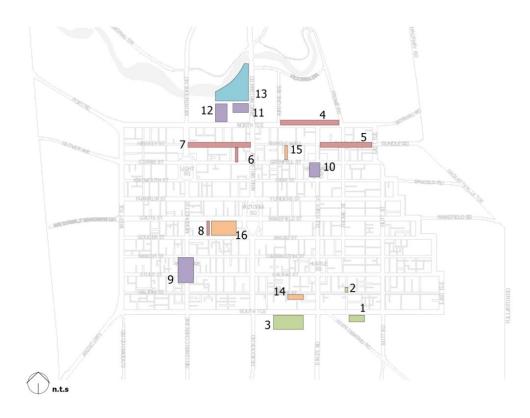
The case study sites (Figure 8-5) represent a diverse range of public spaces selected to test the Design Assessment Framework and to measure the performative value of public space as a space of social exchange. The sites represent the potential variables in public spaces, including those considered compatible with public social exchange, for instance, Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) or those that are antithetical to public social exchange, for instance, Rundle Place.

The selected sites represent five traditionally identified typologies of public space (Parks & Gardens, Streets & Promenades, Plazas & Squares, Waterfronts and Commercial Space) in which the new typology of publics (the defined public, the appropriating public, the transitory public and the illegitimate public) is known to be present. Three sites represent Parks & Gardens, five sites represent Streets & Promenades, four sites represent Plazas & Squares, one site represents Waterfronts and three sites represent Commercial Spaces.

The assessment of the five traditional typologies of public space address the aim of this study, which is to measure their publicness through an assessment of use and behaviour. This study acknowledges that all public spaces are different and therefore, they function differently. The study design overcomes these differences to allow for comparison between selected sites.

Physical distribution was an important criterion in the selection of the case study sites. To ensure the sites represented a wide range of public spaces within Adelaide, consideration was given to proximity. Proximity was determined as delineated on topographic maps. As shown in Figure 8-5, the selection of sites ensured that they were not adjacent to each other. As a consequence, the ownership of land is not taken into account. If the sites were located in close

proximity to each other, they would be separated by a private non-publicly accessible space or by spaces in which social exchange was not possible. The distribution also sought to minimise public behaviour overlapping sites and to ensure activities in one space did not directly interfere with another site. This study does acknowledge construction works occurring near selected sites, such as the Riverbank Bridge and the opening of the Adelaide Oval during the study timeframe, which resulted in pedestrian behaviour overlapping at a number of times in Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) and Adelaide Railway Station.



Legend							
Parks &	Parks & Gardens						
1	Himeji Gardens						
2	Castle Street (between Charlotte Street and Ely Place)						
3	Glover Playground						
Streets	& Promenades						
4	North Terrace (between Kintore Avenue and Frome Road)						
5	Rundle Street (between Pulteney Street and East Terrace)						
6	Peel Street						
7	Hindley Street (between King William Street and Morphett Street)						
8	Moonta Street						
Plazas 8	Plazas & Squares						
9	Whitmore Square/Ivarrityi						
10	Hindmarsh Square/Mukata						
11	Hajek Plaza (Festival Plaza)						
12	Adelaide Railway Station						
Waterfr	ronts						
13	Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26)						
Comme	Commercial Spaces						
14	Gilles Street School (markets)						
15	Rundle Place						
16	Adelaide Central Market						

Figure 8-5: Adelaide study area and case study site locations

The case study sites are varied in terms of type, land use and setting and represent a valid basis for generalisations and comparison. Each type, land use and setting represents those found in urban metropolitan areas around the world. The author notes that some of the case study sites are quasi-public spaces. Their inclusion is based on fulfilling the criteria in section 8.2 and the degree to which they allow for public social interaction.

Case study sites were selected after a preliminary study (outlined above). A basic description of the sites, their location and features is outlined below in subsections 8.3.1 to 8.3.5. The following subsections discuss the case studies within their public space typologies to develop an argument for their relevance for data collection and the assessment of the performative value (accessibility) of public space.

8.3.1 Adelaide case study sites: Parks & Gardens

This subsection presents the first case study group selected to assess the performative value (accessibility) of public space. The Parks & Gardens typology is an example of green open public space (outlined in Chapter Three). Use and access to Parks & Gardens has been linked to opportunities to improve behaviour and mental health by providing activities that governments and authorities deem the public should be engaged in. As shown by Marne (2001), the provision of activities in Parks & Gardens can have the unwanted effect of segregating class, gender, age and race, creating spaces of marginalisation and exclusion where the loudest voice is catered for. The definition of Parks & Gardens has changed in recent times and they are no longer entirely green softscapes with many balancing hard and soft surfaces to create interactive, adaptable spaces. The provision of event infrastructure such as power bollards or hardstands for food trucks is

The three case study sites—Himeji Gardens, Castle Street (between Charlotte Street and Ely Place) and Glover Playground—represent three distinct types of Parks & Gardens: themed gardens, pocket (laneway) parks and playgrounds. (refer Figure 8-6 and Table 9-1). Each case study contained the characteristics that exemplify Parks & Gardens and their distinct type. For instance, Castle Street's scale, along with the mixture of seating, bike racks, signage, planting and lighting, is typically associated with pocket parks.

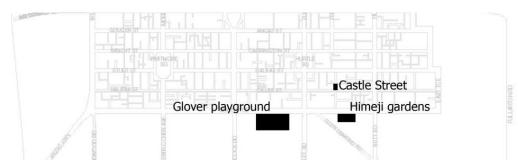


Figure 8-6: Parks & Gardens case study site locations

These types are traditionally shaped and designed by landscape architects, making them key to understanding the generalised assumptions about public space accessibility and measure the publicness.

The mix of sites enables consideration of the subsidiary research questions of the thesis to investigate 'How public is public space?' and 'How do temporary events affect the use of public space?'

Access

Located in the southwest of Adelaide, Himeji Gardens, Castle Street and Glover Playground are accessible by public transport, destination points, nodes on the Park Lands Trail and Bikeway (Figure 8-7) and freely accessible. Himeji Gardens is the one exception in this study and is subject to opening hours, 8am-5:30 pm. The use of Glover Playgrounds (refer Figure 8-8) is influenced by Pulteney Grammar School, whose students use the playground at selected times throughout the week for recess, lunch and after school care. No sites incur admission fees to gain access.

Uses

Himeji Gardens, Castle Street and Glover Playground are typically used as expected for parks and gardens. Use is focused on passive recreation, education (refer Figure 8-8) and play, respectively. Exclusionary activities are noted through the appropriating public crowding out other publics from the sites and events such as 'Spirited: A Studio Ghibli Inspired Pop-up Exhibition' at Himeji Gardens (refer Figure 8-9).

Publics

Parks & Gardens have strong links with the defined, the appropriating, the transitory and the illegitimate publics. Himeji Gardens, Castle Street and Glover Playground (refer Figure 8-11) were designed as sites of public expression that are partial and selective, responsive to limited population segments and to a limited number of public roles in contemporary urban society.

Table 8-1: Summary of Adelaide case study sites - Parks & Gardens

Site Himeji Gardens	Characteristic	Site description	Events & exclusive social activities	Site photos
Address: Peppermint Park/Wita Wirra (Park 18), South Terrace, Adelaide SA 5000 Land ownership: City of Adelaide	 International style, themed garden created in an urban context Response to natural and cultural factors: Form based on cultural factors Planning approach: Cultural design Administrative framework: Local government Land use controls: Community Land Management Plan, Adelaide Park Lands Management Plan Current development Status: Succession planning upgrade planned to occur over the next 5 years Activity generator 	 Important destination serving diverse populations. A Japanese sister city garden and a popular destination for wedding photographs, picnics and passive recreation. Functions primarily as a public space, however, it is used as private space on a regular basis. No clear links to Colonel William Light's plan for Adelaide, however, use is consistent with providing open space accessible to residents. Site amendments guided by the Adelaide Park Lands Management Strategy and Community Land Management Plan. Adelaide Park Lands at the discretion of the asset owner and subject to original plan. Site is available to book for events. 	 Studio Ghibli/Espionage Gallery pop-up event Walking tours School groups Engagement proposals Artist painting Media spots Rough sleeping Birthday parties Weddings Mothers groups Picnics. 	Photos by author during the study timeframe.

Castle Street (between Charlotte Street and Ely Place)



Address: Castle Street, Adelaide SA 5000

Land ownership: City of Adelaide

- Former transport corridor (road) changed to a pocket park by public demand
- Response to natural and cultural factors: Form based on cultural factors
- Planning approach: Urban design
- Administrative framework: Local government
- Land use controls: None at time of the study
- Current development status: none
- Minor activity generator

None



Photos by author during the study timeframe.

Glover Playground



Address: Blue Gum Park/Kurangga (Park 20), South Terrace, Adelaide SA 5000

Land ownership: City of Adelaide

- Urban park created to improve public health
- Response to natural and cultural factors: Form based on cultural factors
- Planning approach: Urban design, cultural design, public consultation etc.
- Administrative framework: Local government
- Land use controls: Community Land Management Plan, Adelaide Park Lands Management Strategy
- Current development status: None
- Activity generator

Important destination serving diverse populations.

A pocket park and key link in

Functions primarily as a public

private space for cycle events.

Current use and design are not

linked to Colonel William Light's

Site amendments subject to asset

Site cannot be booked for events.

space however has been used as

Adelaide's cycle network.

plan for Adelaide.

owner direction.

- A popular fenced children's park. Functions primarily as a public space, however, is regularly used as private space by school groups and families.
- Current use and design are not linked to Colonel William Light's plan for Adelaide. However, use is consistent with providing open space accessible for residents.
- Site amendments at the discretion of the asset owner and subject to age of play equipment.
- Site must be booked for events with more than 50 people.

- School groups usage at recess, lunch and after school
- Birthday parties
- Mothers groups
- Media spots



Photos by author during the study timeframe.



Figure 8-7: Castle Street is one of many nodes along the City of Adelaide Bikeway. The entrance highlights the mixed transport use within the small pocket park.

(Photo by author 2019)



Figure 8-8: Glover Playground entry gate. (Photo by author 2013)



Figure 8-9: Himeji Gardens school tour group. (Photo by author 2014)



Figure 8-10: Spirited: A Studio Ghibli inspired pop-up exhibition at Himeji Gardens. (Photo by author 2013)



Figure 8-11: Glover Playground weekend use. (Photo by author 2013)



Figure 8-12: Himeji Gardens maintenance inspection. (Photo by author 2015)

Events (exclusive social activities)

Himeji Gardens (refer Figure 8-9) and Glover Playground (refer Figure 8-10) can hold events of varying scale. Castle Street does not have the ability to hold events. Events are at the discretion of the City of Adelaide and require approval and permits. Private events have included art exhibitions, Super Tuesday bike counts, weddings, guided tours and family fun days. Traditional events within this case study group alter the performative value of the sites for a predetermined length of time and are typically organised by community groups.

Social activities, such as birthday parties, with 20 or more people are considered an event and require a permit from the City of Adelaide. They also alter the performative value of the sites for an undetermined length of time and are typically organised by private individuals with minimal regulation.

Ownership, management and maintenance

All sites are owned, managed and maintained by the City of Adelaide (refer Figure 8-12) and are subject to ongoing asset renewals. Duty of care during authorised events is temporarily transferred from the City of Adelaide (owner) to the responsible event manager, who holds primary responsibility for users during the event. The event managers for Glover Playground have included Pulteney Grammar School. The event managers for Himeji Gardens have included Espionage Gallery.

Asset renewals include footpath upgrades, urban furniture replacements and planting renewals. Inspections and cleaning activities are undertaken at each site daily to ensure that the sites are functional and safe for users. Glover Playground and Himeji Gardens have their own dedicated teams and are classed as priority sites receiving higher levels of maintenance then Castle Street.

Security

Minimal security measures are present at all sites. The measures include lighting, signage and open sightlines.

This section has presented the three Parks & Gardens case study sites to assess the accessibility of public spaces in Adelaide, South Australia, for a diverse range of publics. The summary of the selected case study sites above highlighted the diversity and similarities of the sites. The strengths of the case study sites are their diversity, which allows the comprehensive measures of the Design Assessment Framework to be used. The next subsection discusses the Streets & Promenades case studies sites.

8.3.2 Adelaide case study sites: Streets & Promenades

This subsection describes the second case study group selected to assess the performative value (accessibility) of public space. Streets & Promenades are traditionally understood as public space, responding to the complexities of public life and influencing users more than other public spaces (refer Chapter Three). They affect environmental interaction by dictating means of access between home and other places, defining movement patterns, directing what users observe and who they interact with by providing a public window into the surrounding private spaces (Southworth & Owen 1993).

The five case study sites, North Terrace (between Kintore Avenue and Frome Road), Rundle Street (between Pulteney Street and East Terrace), Peel Street, Hindley Street (between King William Street and Morphett Street) and Moonta Street, represent two distinct types of Streets & Promenades—boulevard and laneway. Within the City of Adelaide, boulevards and laneways are shaped and designed by landscape architects, making them key to understanding the generalised assumptions about public space accessibility and measure the publicness (refer Figure 8-13 and Table 9-2). Each case study contains the characteristics that exemplify Streets & Promenades and their distinct type. For instance, Peel Street represents an inner-city laneway, providing service and back of house access for restaurants, small bars, outdoor dining, public art and pedestrian thoroughfares.

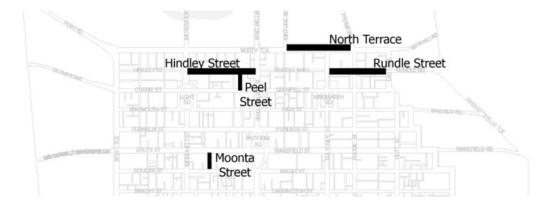


Figure 8-13: Streets & Promenades case study site locations

The mix of sites will enable consideration of the subsidiary research questions of the thesis to investigate 'How public is public space?' and 'How do temporary events affect the use of public space?'

Table 8-2: Summary of Adelaide case study sites - Streets & Promenades

Site	Characteristic	Site description	Events & exclusive social activities	Site photos					
North Terrace (between Kintore Avenue and Frome Road)									
Address: North Terrace, Adelaide SA 5000 Land ownership: City of Adelaide	 Cultural boulevard Response to natural and cultural factors: Form based on cultural factors Planning approach: Civic design, urban design, cultural design Administrative framework: Local government Land use controls: North Terrace Masterplan Current development status: None Major activity generator 	 Cultural boulevard in Adelaide linking the art gallery, museum and universities. Functions primarily as a public space, however, is regularly used as private space for City of Adelaide and Government of South Australia funded events. Current design and use are consistent with Colonel William Light's plan for Adelaide. Site amendments guided by the Adelaide Park Lands Management Strategy, Community Land Management Plan - Adelaide Park Lands, North Terrace Masterplan, Riverbank Masterplan, University of Adelaide Masterplan at the discretion of the asset owner and Government of South Australia. Site is not available to booked, however, holds for major events by Government of South Australia, City of Adelaide and the Art Gallery of South Australia. 	 Tour Down Under Public holiday and school holiday activities Adelaide Festival Art works – construction and exhibition Wedding photos Commercial advertisements Pop-up coffee School choir and band performance (free) Fringe performances (free) University open days Art gallery event spill-out School groups Artist sketching Skate boarders (group of 5 to 10) Festival of lights (on buildings) Religious groups distributing materials Commercial food companies distributing materials Organisations such as WWF and UNICEF seeking sponsors Organisation such as the Big Issue, RSL and Airforce selling magazines, pins and ribbons for donations Organisations such as Salvation Army asking for donations Media spots Protests Personal training groups 	Photos by author during the study timeframe.					

Rundle Street (between Pulteney and East terrace)



Address: Rundle Street, Adelaide SA 5000

Land ownership: City of Adelaide

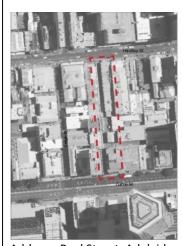
- Commercial boulevard
 Response to natural and cultural factors: Form based on cultural factors
- Planning approach: Civic design, urban design, cultural design, public consultation etc
- Administrative framework: Local government
- Land use controls: None
- Current development status: None
- Major activity generator
- Commercial boulevard in east end of Adelaide, which is Adelaide City's hub for numerous annual festivals, events, street parades and parties. Events undertaken regularly change legal responsibility between public to private usage.
- Rundle Street has a stable economic base with a large number of well-established pubs and clubs, specialist shops and restaurants. Current design and use are consistent with Colonel William Light's plan for Adelaide.
- Site amendments guided by the Rundle Street Masterplan, City precinct groups and traders' associations and at the discretion of the asset owner.
- Site is not available to booked, however, holds for major events by Government of South Australia and City of Adelaide.
- 'Café creep' occurs on a daily basis.

- Tour Down Under
- Commercial advertisements
- Fringe performances (free)
- Artist sketching
- Buskers
- Beggars
- Religious groups distributing materials
- Commercial food companies distributing materials
- Organisations such as WWF and UNICEF seeking sponsors
- Organisation such as the Big Issue, RSL and Airforce selling magazines, pins and ribbons for donations
- Organisations such as Salvation Army asking for donations
- Media spots
- Rough sleepers
- Protests
- Pancake day
- Hens and bucks nights
- Pub crawls



Photos by author during the study timeframe.

Peel Street



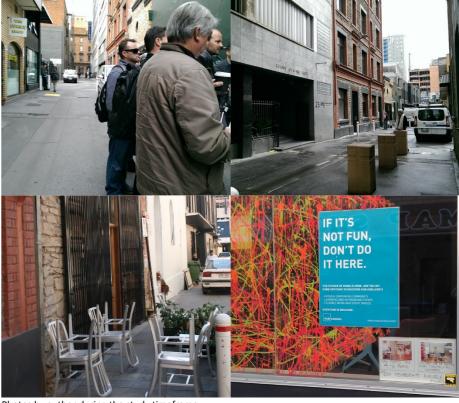
Address: Peel Street, Adelaide SA 5000

Land ownership: City of Adelaide

- Commercial and entertainment laneway
- Response to natural and cultural factors: Form based on cultural factors
- Planning approach: Civic design, urban design, public consultation
- Administrative framework: Local government
- Land use controls: None
- Current development status: None
- Major activity generator

- Up and coming shared street in west end of Adelaide, known for its vibrant restaurant and bar 'precinct' promoted via alcoholbased recreation. Primarily functions as a public space during.
- Current use and design are not linked to Colonel William Light's plan for Adelaide.
- Site amendments guided by the Laneways Masterplan, City precinct groups and traders' associations and at the discretion of the asset owner.
- Site may be booked with support of other traders.
- 'Café creep' occurs on a daily basis.

- Government and council meetings
- Interviews
- Media spots
- Commercials being filmed
- Organisations such as Royal Society for the Blind asking for donations
- Beggars
- Religious groups distributing materials
- Commercial advertisements
- Hens and bucks nights
- Pub crawls
- Corporate Christmas parties



Photos by author during the study timeframe.

Hindley Street (between King William Road and Morphett Street)



Address: Hindley Street, Adelaide SA 5000

Land ownership: City of Adelaide

- Commercial and entertainment boulevard
 Response to natural and cultural factors: Form
- Planning approach: Civic design, urban design

based on cultural factors

- Administrative framework: Local government
- Land use controls: None
- Current development status: None
- Major activity generator

- Commercial street in west end of Adelaide known for its atmosphere and active nightlife
- Considered Adelaide's downtown because of its position in metro area and sprawl of suburbs.
- Hindley Street has a reputation as a seedy and party strip with a high proportion of bars, visible signs of sex industry and night economy dominated by young men (Ware et al. 2011).
- Ware et al. (2011, p. 195) consider
 Hindley street a stage where large
 groups of young men can act out
 their desired image as tough
 heterosexual men. They propose
 this behaviour by this group is a
 way for youth to appropriate
 space. This is undertaken by
 activities, including cursing and
 pub crawls to signalise basic
 masculinity.
- Seen as 'poor cousin' to Rundle Mall and Rundle Street.
- Current design and use are consistent with Colonel William Light's plan for Adelaide.
- Site amendments guided by the West end masterplan, City precinct groups and traders' associations and at the discretion of the asset owner and Government of South Australia
- Site cannot be booked. Major events rarely occur.
- 'Café creep' occurs on a daily basis.

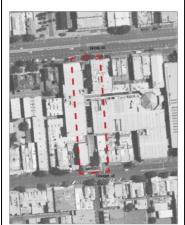
- Commercial advertisements
- Fringe performances (free)
- Artist sketching
- Buskers
- Beggars
- Religious groups distributing materials
- Commercial food companies distributing materials
- Organisations such as WWF and UNICEF seeking sponsors
- Organisations such as the Big Issue, RSL and Airforce selling magazines, pins and ribbons for donations
- Organisations such as Salvation Army asking for donations
- Media spots
- Rough sleepers
- Taxi ranks
- Additional security patrols
- Encounter Youth Green Team patrols at night
- Protests
- Hens and bucks nights
- Pub crawls
- Corporate Christmas parties





Photos by author during and after the study timeframe.

Moonta Street



Address: Moonta Street, Adelaide SA 5000

Land ownership: City of Adelaide

- Commercial and entertainment laneway
- Response to natural and cultural factors: Form based on cultural factors
- Planning approach: Civic design, urban design, cultural design, public consultation etc.
- Administrative framework: Central Market Management Authority
- Land use controls: Central Market Masterplan
- Current development status: None
- Activity generator

- Chinatown in Adelaide, known as a food destination.
- Current use and design are not linked to Colonel William Light's plan for Adelaide.
- Site amendments guided by the Central Market Masterplan, City precinct groups and traders' associations and at the discretion of the asset owner.
- Site cannot be booked. Events are at the discretion of the City of Adelaide and rarely occur.
- 'Café creep' occurs on a daily basis.

- Commercial advertisements
- Buskers
- Beggars
- Religious groups distributing materials
- Commercial food companies distributing materials
- Organisations such as WWF and UNICEF seeking sponsors
- Organisation such as the Big Issue and Cancer Council selling magazines, pins and ribbons for donations
- Media spots
- Rough sleepers
- Night markets
- Chinese New Year.



Photos by author during the study timeframe.

Access

North Terrace (refer Figure 8-14), Rundle Street, Peel Street, Hindley Street and Moonta Street are accessible by public transport, are destination points and are freely accessible. No sites incur admission fees. Outdoor activities associated with cafés, restaurants and bars along Rundle Street, Peel Street, Hindley Street and Moonta Street present private dining spaces that are not for public use (Figure 8-15). Vehicle access is limited to set times in Moonta Street and Peel Street because of the popularity of outdoor dining and seating.

Uses

North Terrace, Rundle Street, Peel Street, Hindley Street and Moonta Street are typically used as expected for this typology. Use is focused on commercial and entertainment activities, respectively. Exclusionary activities are noted in relation to buskers, people handing out flyers and begging (refer Figure 8-16). Outdoor dining on Rundle Street and Peel Street exemplifies 'café creep' (term coined by Carmona 2010a), a form of commodification that Kohn (2004) describes as creeping commodification of public space where the private sector contributes to public space through the provision of furniture and displays. Creeping commodification is characterised through the leasing of public space to corporate entities for events and advertising, which, in the case of outdoor dining spaces, has resulted in commercial interests moving across public space. Outdoor dining guidelines further control the public as liquor licences in South Australia and the City of Adelaide require individuals consuming alcohol to be seated, further limiting activities in the designated space. While legislation is in place to indicate that outdoor dining areas are public, the reality indicates otherwise. The increase of outdoor dining on Rundle Street, Peel Street and Hindley Street in the last five years results from changes in the City of Adelaide's outdoor dining permit regulations.

Events (exclusive social activities)

The five sites have the ability to hold events. Events require approval and permits issued at the discretion of City of Adelaide. North Terrace is the main public space where events occur, including art exhibitions, weddings, guided tours, markets and family fun days (refer Figure 8-17). Moonta Street events are cultural activities and linked to the Chinese New Year (refer Figure 8-18). Traditional events within this case study group can alter the performative value of the sites for a predetermined length of time and are typically organised by commercial or government groups and heavily regulated.

Social activities as outlined in Table 8-2 are considered events and require a permit from the City of Adelaide. They alter the performative value of the sites for an undetermined length of time and are typically unorganised and are therefore unregulated.



Figure 8-14: North Terrace, example of everyday use. (Photo by author 2016)



Figure 8-15: Peel Street outdoor dining and small bar activity. (Photo by author 2019)



Figure 8-16: Public begging on Rundle Street. (Photo by author 2013)



Figure 8-17: North Terrace Lights, Adelaide Festival art work. (Photo by author 2016)



Figure 8-18: Moonta Street Chinese New Year. (Photo by author 2013)



Figure 8-19: Peel Street (left) and Hindley Street (right). (Photo by author 2015)

Chapter Eight - 229

Ownership, management and maintenance

All sites are owned, managed and maintained by the City of Adelaide and are subject to ongoing asset renewals. Duty of care during authorised events is temporarily transferred from the City of Adelaide (owner) to the responsible event manager, who holds primary responsibility for users during the event.

Asset renewals include footpath upgrades, urban furniture replacements and planting renewals. Inspections, maintenance and cleaning activities are undertaken at each site on a daily basis to ensure the sites are functional and safe for users. Businesses with outdoor dining areas are required to manage and clean the permit area; failure to do so results in permits being cancelled.

Publics

Streets & Promenades have strong links with the defined, the transitory and the illegitimate publics. North Terrace, Rundle Street, Peel Street, Hindley Street (refer Figure 8-14 and Figure 8-19) and Moonta Street (refer Figure 8-8) were designed as sites of public expression, and are selective and responsive to limited population segments and to a limited number of public roles in contemporary urban society.

Security

Security measures are present at all sites. The measures include lighting, signage, CCTV and security personnel during City of Adelaide authorised events where alcohol is present.

This section has presented the five Streets & Promenades case study sites to assess the accessibility of public spaces in Adelaide, South Australia, for a diverse range of publics. This summary of the selected case study sites highlighted the diversity and the similarities between the sites. The strengths of the case study sites are their diversity, which allows the comprehensive measures of the Design Assessment Framework to be used. The next subsection discusses the Plazas & Squares case study sites.

8.3.3 Adelaide case study sites: Plazas & Squares

This subsection provides the third case study group selected to assess the performative value (accessibility) of public space. Plazas & Squares respond to the complexities of public life with their significance linked to civic and public realms (refer Chapter Three). They provide visual relief, recreational opportunities and encourage standards of public behaviour through the promotion of a positive sense of participation between different genders, ages and races. They are used in a wide variety of ways by a wide range of publics

and play a social function and role for different communities and cultures. Squares are more than an environment of urban life; they should be considered a setting in which the visible roles of community are more important than aesthetics and where individuals reveal their identity as part of a society. Plazas are more than sites of commerce and should be considered a setting in which the visible roles of community are more important than aesthetics. In plazas, the distinction between space and use does blur, resulting in spaces that change ownership and legal responsibility daily. This occurs through change of users and change of adjoining land use, resulting in spaces that can be highly commercial during business hours and passive spaces after hours.

The four case study sites of Whitmore Square/Ivarrityi, Hindmarsh Square/Mukata, Hajek Plaza (Festival Plaza) and Adelaide Railway Station represent four distinct types of Plazas & Squares—cultural, transport, recreation and entertainment (refer Figure 8-20 and Table 9-3). Each case study contains the characteristics that exemplify Plazas & Squares and their distinct type. For instance, Whitmore Square/Ivarrityi is a recreation-focused destination point, providing passive and active opportunities for inner-city residents through the combination of benches, giant chess, basketball and table tennis tables. These types are shaped and designed by landscape architects, making them key to understanding the generalised assumptions of public space and the flow-on effect of a perceived erosion of public space.

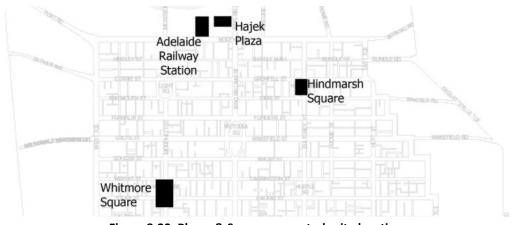


Figure 8-20: Plazas & Squares case study site locations.

This range of sites investigates the subsidiary research questions of the thesis to determine 'How public is public space?' and 'How do temporary events affect the use of public space?'

Access

Whitmore Square/Ivarrityi (refer Figure 8-21), Hindmarsh Square/Mukata (refer Figure 8-22), Hajek Plaza and Adelaide Railway Station (refer Figure 8-26)

are accessible by public transport. Excluding Adelaide Railway Station, they are destination points and are freely accessible. Access to Adelaide Railway Station is subject to operating hours.

Uses

The four case study sites are used as expected. As noted throughout the site visits, Hajek Plaza (refer Figure 8-23) is underutilised unless events are occurring in the plaza or surrounding area. Use is focused on passive recreation and entertainment, respectively. Exclusionary activities are noted through the appropriating public crowding out other publics within the sites and events such as Ride to Work Day (Figure 8-24).

Events (exclusive social activities)

Whitmore Square/Ivarrityi, Hindmarsh Square/Mukata and Hajek Plaza all can hold events. Adelaide Railway Station is the one exception. Events in Whitmore Square/Ivarrityi and Hindmarsh Square/Mukata (refer Figure 8-25) are at the discretion of the City of Adelaide requiring approval and community consultation (depending on the size of the events) and permits. Events in Hajek Plaza are subject to the approval of the Adelaide Festival Centre, Government of South Australia and the City of Adelaide. Traditional events for this case study group alter the performative value of the sites for a predetermined length of time. They are organised by commercial or government groups and are heavily regulated, or they are organised by community groups with minimal regulation.

Social activities are permitted at the discretion of the owner. The City of Adelaide considers activities of 20 or more as an event, requiring a permit. The Government of South Australia typically will not permit large social activities of any kind. Social activities that are perceived as events alter the performative value of the sites for an undetermined length of time and are typically organised by community groups and are therefore unregulated.

Publics

Plazas & Squares have strong links with the defined, the appropriating and the illegitimate publics. Whitmore Square/Ivarrityi, Hindmarsh Square/Mukata, Hajek Plaza and Adelaide Railway Station (refer Figure 8-26) were designed as sites of public expression that are partial and selective, responsive to limited population segments in contemporary urban society.

Table 8- 3: Summary of Adelaide case study sites - Plazas & Squares Events & exclusive social activities Site photos Characteristic Site description Whitmore Square/Ivarrityi Response to natural and Public square in southwestern Christmas parties cultural factors: Form quarter of Adelaide. Public holiday and school based on cultural factors Primarily public space, holiday activities Planning approach: however, is used as private Mothers groups Cultural design, public space on a regular basis. Artist sketching consultation Use is consistent with providing Yoga groups Administrative open space accessible for Mediation groups framework: Local residents. Media spots Current design and use are government Soup kitchen consistent with Colonel William Land use controls: Rough sleepers Community Land Light's plan for Adelaide. English language classes Management Plan, Site amendments guided by the Splash Adelaide events Address: Adelaide SA 5000 Adelaide Park Lands Adelaide Park Lands Community basketball Management Strategy and Management Plan tournaments Land ownership: City of Activity generator Community Land Management Protests. Adelaide Plan - Adelaide Park Lands, South West Community Association at the discretion of the asset owner and subject to original plan. REE hire of paddles and balls Site is available to book for community events. Photos by author during and after the study timeframe. Hindmarsh Square/Mukata Response to natural and Public square in north-eastern Commercial advertisements cultural factors: Form quarter of Adelaide. Primarily Pop-up coffee and food truck based on cultural factors public space, however, is used Splash Adelaide events Planning approach: Urban as private space on a regular Ride to work events design, cultural design, basis. Parking Day events public consultation Current design and use are Fringe performances (paid) Administrative consistent with Colonel William School groups framework: Local Light's plan for Adelaide. Design Religious groups distributing has had minimal changes. government materials Use is consistent with providing Land use controls: Commercial food companies Community Land open space accessible for distributing materials Management Plan, residents. Organisations such as WWF and Adelaide Park Lands Site amendments guided by the Address: Adelaide SA 5000 UNICEF seeking sponsors Management Plan Adelaide Park Lands Organisation such as the Big Management Strategy and Activity generator Land ownership: City of Issue, RSL and Airforce selling Community Land Management Adelaide magazines, pins and ribbons for Plan - Adelaide Park Lands at donations the discretion of the asset Organisations such as Salvation owner and subject to original Army asking for donations plan. Media spots

Site is available to book for

events.

Personal training groups

Photos by author during the study timeframe.

Pancake day events World Solar Car Challenge Private corporate functions.

Hajek Plaza (Festival Plaza)



Address: King William Street Adelaide, SA, 5000

Site ownership: Government of South Australia

- Festival Plaza linked to convention and festival theatres
- Response to natural and cultural factors: Form based on cultural factors
- Planning approach: Civic design
- Administrative framework: Riverbank Renewal Authority
- Land use controls: **Riverbank Precinct**
- Current development status: None
- Activity generator

- Festival Plaza comprising a sculpture by artist Otto Hajek. Primarily public space, however, is used as private space on a regular basis.
- Current use and design are not linked to Colonel William Light's plan for Adelaide. However, use is consistent with providing open space accessible for residents.
- Site amendments guided by the Adelaide Park Lands Management Strategy, Community Land Management Plan - Adelaide Park Lands, North Terrace Masterplan, Riverbank Masterplan, at the discretion of the asset owner and Government of South Australia
- Site is not available to booked, however, holds for major events by Government of South Australia and City of Adelaide

No longer exists in the form depicted. Construction of a new festival plaza commenced in 2018.

- Walking tours
- School groups
- Festival Centre spill-out
- Fringe performances (paid)
- Media spots
- Personal training groups
- Rough sleepers
- **Beggars**
- **Buskers**
- Oi You Festival
- Tour Down Under.



Photo top right courtesy of Nicole Arbon. Remaining photos by author during the study timeframe.

Adelaide Railway Station



Address: 125 North Terrace, Adelaide SA 5000

Site ownership: Government of South Australia

- Transport hub linked to Convention Centre and **Festival Theatre**
- Response to natural and cultural factors: Form based on cultural factors
- Planning approach: Civic design
- Administrative framework: Government of South Australia
- Land use controls: None
- Current development status: None
- Activity generator

- Central terminus of Adelaide Metro railway system.
- Current use and design are not linked to Colonel William Light's plan for Adelaide.
- Site amendments at the discretion of the Government of South Australia.
- Site is not available to booked.
- 'Café creep' occurs between 8 am and 3 pm.

- Commercial advertisements Religious groups distributing
- materials Commercial food companies distributing materials
- Organisations such as WWF and UNICEF seeking sponsors
- Organisation such as the Big Issue, RSL and Airforce selling magazines, pins and ribbons for donations
- Organisations such as Salvation Army asking for donations
- Media spots.



Photo top left courtesy of Nicole Arbon. Remaining photos by author during and after the study timeframe.



Figure 8-21: Whitmore Square/Ivarrityi used as designed for passive recreation. (Photo by author 2013)



Figure 8-22: Hindmarsh Square/Mukata food truck. (Photo by author 2013)



Figure 8-23: Hajek Plaza on a typical weekday afternoon. (Photo by author 2013)



Figure 8-24: Ride to Work Day 2014 event setup in Hindmarsh Square/Mukata (free event). (Photo by author 2015)



Figure 8-25: Whitmore Square/Ivarrityi community engagement event run by the City of Adelaide in 2018 to shape the next masterplan for the square. (Photo by author 2018)



Figure 8-26: Adelaide Railway Station. (Photo courtesy of Nicole Arbon 2014)

Ownership, management and maintenance

Whitmore Square/Ivarrityi and Hindmarsh Square/Mukata are owned, managed and maintained by the City of Adelaide and are subject to ongoing asset renewals. Duty of care during authorised events is temporarily transferred from the City of Adelaide to the responsible event manager, who holds primary responsibility for users during the event.

Asset renewals include footpath upgrades, urban furniture replacements and planting renewals. Inspections and cleaning activities are undertaken at each site daily to ensure that the sites are functional and safe for users.

Hajek Plaza and Adelaide Railway Station are owned, managed and maintained by the Government of South Australia and are subject to ongoing asset renewals. Duty of care during authorised events is temporarily transferred from the Government of South Australia to the responsible event manager, who holds primary responsibility for users during the event.

Security

Security measures are present in all sites. They include lighting, CCTV and security personnel during City of Adelaide authorised events where alcohol is present. Security at Adelaide Railway Station is also subject to separate private security measures during opening hours (refer Figure 8-27).

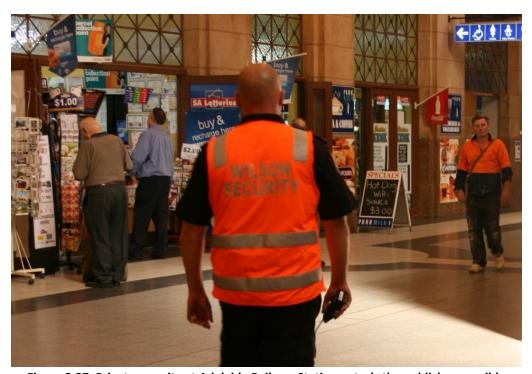


Figure 8-27: Private security at Adelaide Railway Station patrols the publicly accessible concourse while the station is in operation. (Photo by author 2013)

This section has presented the four Plazas & Squares case study sites to assess the accessibility of public spaces in Adelaide, South Australia, for a diverse range of publics. This summary of the selected case study sites highlighted the diversity and similarities of the sites. The strengths of the case study site are their diversity, allowing the comprehensive measures of the Design Assessment Framework to be used. The next subsection discusses the Waterfronts case study site, presenting the strengths that allow the comprehensive measures of the Design Assessment Framework to be used.

8.3.4 Adelaide case study sites: Waterfronts

This subsection examines the fourth case study group selected to assess the performative value (accessibility) of public space. Waterfronts are considered a relativity new public space typology, with their use moving from an industrial economic focus to multi-use public gathering place in a post-industrial era (refer Chapter Three). They provide a new dimension to interpret recreational space in the centre of the city, reclaiming nature and reinterpreting public spaces (Gaventa 2006) such as Parks & Gardens. Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) represents the waterfront typology (refer Figure 8-28 and Table 9-4) and the only waterfront in Adelaide that met the criteria outlined in section 9.2.



Figure 8-28: Waterfronts case study site location

Waterfronts are shaped and designed by landscape architects, making them key to understanding the generalised assumptions about public space accessibility and measure the publicness.

Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) enables the investigation of the subsidiary research questions of the thesis to determine 'How public is public space?' and 'How do temporary events affect the use of public space?'

Access

Located to the north of the CBD, Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26, refer Figure 8-29) is accessible by public transport, private vehicles and the *Popeye* River Cruises. The park is a destination point and is freely accessible.

Table 8-4: Summary of Adelaide case study sites – Waterfronts

Cito	etoristic	Sita Dassvintian	Events 9 Evelusive Cosial Astinities	Cita Dhatas
Site Character Character Park (Stella Bowen Park/Tarntany	cteristic	Site Description	Events & Exclusive Social Activities	Site Priotos
Address: Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26), King William Rd, Adelaide SA 5000 Land ownership: City of Adelaide M Cu St	raditional waterfront ublic space linked to ultural activities esponse to natural and ultural factors: Form a ombination of natural ultural factors lanning approach: Urban esign, cultural design, ublic consultation dministrative ramework: Local overnment and use controls: formunity Land Management Plan, delaide Park Lands Management Plan urrent development tatus: None Major activity generator	 Public open space on southern bank of the River Torrens and bordered by Adelaide Festival Centre. Focus on redevelopment has brought media attention. Primarily public space, however, is used as private space on a regular basis. Current design and use are consistent with Colonel William Light's plan for Adelaide. Site amendments guided by the Adelaide Park Lands Management Strategy, Community Land Management Plan - Adelaide Park Lands, North Terrace Masterplan, Riverbank Masterplan, at the discretion of the asset owner, Renewal SA, Riverbank Authority and Government of South Australia. Site is not available to be booked by community members, however, holds for major events by Government of South Australia and City of Adelaide. 	 Tour Down Under Public holiday and school holiday activities Adelaide Festival events Wedding photos Commercial advertisements Pop-up coffee School choir and band performance (free) Fringe performances School groups Artist sketching Skateboarders (group of 5 to 10) Festival of lights (on buildings) Religious groups distributing materials Commercial food companies distributing materials Organisations such as Salvation Army asking for donations Media spots Protests Silent discos Memorial events Rowing club regattas Life Be In It events such as dragon boat racing Rough sleepers Personal training groups Park Run Learn to row events Programmed events such as Carols by Candlelight, Writers Week, OzAsia Festival. 	Photos by author during and after the study timeframe.

Uses

Elder Park's (Stella Bowen Park/Tarntanya Wama, Park 26) use is compatible with expectations for use of Waterfronts. The uses are varied, with little design clues directing users to the preferred behaviour expected by government and local authorities. Use is focused on passive recreation, free and ticketed events (refer Figure 8-31) and informal play, respectively (refer Figure 8-33).

Exclusionary activities are noted through the appropriating publics, cultural events and outdoor fitness groups (refer Figure 8-30). Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) also acts as a gateway to Adelaide Oval, an Adelaide example of the commodified phenomena of 'private—public' spaces. Adelaide Oval is subject to a licensing agreement with the Stadium Management Authority (SMA) for the next 80 year and moves publicly owned infrastructure into the management and control of a private corporation.

Events (exclusive social activities)

Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) is classed as an event hub and holds the majority of the City of Adelaide's and the state government's major cultural and community events. Events are at the discretion of the City of Adelaide, requiring approval, community consultation (depending on size of events) and permits. Private events have included art exhibitions, the Adelaide Festival (refer Figure 8-31), Adelaide Fringe Festival, Carols by Candlelight, Symphony under the Stars, Winterfest, Moon Lantern Festival, Writers Week, Santos Cycling, Tour Down Under (refer Figure 8-29), weddings, guided tours and family fun days. Traditional events within this case study group alter the performative value of the sites for a predetermined length of time. Because they are typically organised by commercial or government groups, they are heavily regulated.

Social activities, such as personal training, with 20 or more people are considered an event and require a permit from the City of Adelaide. They alter the performative value of the sites for an undetermined length of time and are typically organised by private individuals with minimal regulation.

Publics

Waterfronts have a strong link with the appropriating and the transitory publics (refer Figure 8-33). The design of Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) is open and responsive to a wide population range in contemporary urban society.

Ownership, management and maintenance

Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) is owned, managed and maintained by the City of Adelaide (refer Figure 8-32) and is subject to ongoing asset renewals. Duty of care during authorised events is temporarily

transferred from the City of Adelaide to the responsible event manager, who holds primary responsibility for users during the event.

Asset renewals include paving and footpath upgrades, urban furniture replacements and planting renewals. Inspections and cleaning activities are undertaken daily to ensure the sites are functional and safe for users.

Security

Security measures are present at all sites. The measures include lighting, signage and CCTV. Fencing and security personnel are in place during City of Adelaide authorised events where alcohol is present.

This section has presented the Waterfront case study site of Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) to assess the accessibility of public spaces in Adelaide, South Australia, for a diverse range of publics. The strength of this case study site is the diversity of activities and events, allowing the comprehensive measures of the Design Assessment Framework to be applied. The next subsection discusses the Commercial Space case studies sites.



Figure 8-29: Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) during the annual Union Cycliste linternationale (UCI) world tour, the Santos Tour Down Under. Free public event. (Photo by author 2013)



Figure 8-30: Outdoor fitness groups (in background) and film crew (foreground). (Photo by author 2013)



Figure 8-31: Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) during the Adelaide Festival 2017 opening. Free public event, access limited to the park capacity.

(Photo by author 2017)



Figure 8-32: Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) maintenance. (Photo by author 2013)



Figure 8-33: Example of the appropriating public in Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26). (Photo by author 2013)

8.3.5 Adelaide case study sites: Commercial Space

This subsection describes the fifth and last case study group to assess the performative value (accessibility) of public space. Commercial Space ownership is pseudo-private; the spaces in flux because of conflicts over social participation, producing constantly changing meanings and publics (refer Chapter Three). Pseudo-private properties are publicly accessible spaces—publicly owned but privately controlled or privately owned and publicly controlled. Commercial Space has broader relevance in today's contemporary urban society and potential as public space.

The three case study sites, Gilles Street Schools, Rundle Place and Adelaide Central Market, represent three distinct types of Commercial Space—temporary, privately owned and entertainment (refer Figure 8-34 and Table 9-5).

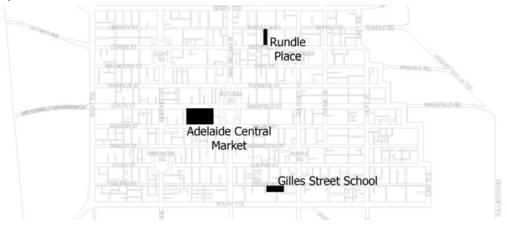


Figure 8-34: Commercial Spaces case study site locations.

Table 8-5: Summary of Adelaide case study sites - Commercial Spaces

Events & Exclusive Social Activities Site Photos Site Characteristic Site description **Gilles Street School** Public primary school Schoolyard that becomes a Markets (duty of care) hosting a public market once a month in Adelaide. Church group temporary market on Current use and design are not After school hours care select weekends linked to Colonel William Light's Response to natural and plan for Adelaide. cultural factors: Form The market relocated in 2018 based on cultural factors because of popularity and Planning approach: Urban overcrowding on the school design grounds. Administrative Site amendments guided by the framework: Government Government of South Australia of South Australia and school board. Land use controls: None Site is available to book for Current development community events at the Address: 91 Gilles Street, discretion of the school board. status: None Adelaide SA 5000 Activity generator Site ownership: Government of South Australia Photos by author during the study timeframe. **Rundle Place** Commercial retail Commercial space linking Rundle Commercial food companies thoroughfare Mall and Grenfell Street. distributing materials Response to natural and Considered a public plaza, Businesses distributing cultural factors: Form however, is heavily policed by marketing material based on cultural factors security. Organisations such as WWF Planning approach: Urban Ambiguous space. and UNICEF seeking sponsors Current use and design are not design Organisation such as the Big linked to Colonel William Light's Issue, RSL and Airforce selling Administrative plan for Adelaide. framework: Rundle Place magazines, pins and ribbons centre management Site amendments subject to for donations development approval. Media spots Land use controls: None Address: 77-91 Rundle Mall, Site is not available to be booked Current development Interviews Adelaide SA 5000 for events. Commercials being filmed status: None Activity generator Site ownership: Blackstone Photos by author during the study timeframe.

Adelaide Central Market



Address: 44/60 Gouger St, Adelaide SA 5000

Site ownership: City of Adelaide, managed by the Adelaide Central Market Authority

- Tourist attraction and large multicultural market
- Response to natural and cultural factors: Form based on cultural factors
- Planning approach: Urban design
- Administrative framework: Central Market Management Authority
- Land use controls: Central Market Masterplan
- Current development status: None
- Activity generator

- Public market with limited opening hours. Public access limited to opening hours.
- Current use and design are not linked to Colonel William Light's plan for Adelaide.
- Largest undercover fresh produce market in the southern hemisphere and Adelaide's premier food destination of multicultural cuisine and fresh produce.
- Over 9 million people visit the market every year.
- South Australia's most visited tourist attraction.

- Public holiday and school holiday activities
- Commercial advertisements
- School choir and band performance (free)
- Fringe performances (free)
- School groups
- Artist sketching
- Photographers
- Religious groups distributing materials
- Commercial food companies distributing materials
- Organisations such as WWF and UNICEF seeking sponsors
- Organisation such as the Big Issue, RSL and Airforce selling magazines, pins and ribbons for donations
- Organisations such as Salvation Army asking for donations
- Media spots



Photos left by author during the study timeframe. Photos right courtesy of Victoria Masterman.

Each case study contained the characteristics that exemplify Commercial Spaces and their distinct type. For instance, Gillies Street School Market is a temporary commercial space where no trace remains once the commercial activities have concluded. This style of space requires the commercial activity to use the site confines and the infrastructure in place to have a light touch on site. The case studies are key to understanding the generalised assumptions about public space accessibility and measure publicness.

The mix of sites enables the investigation of the subsidiary research questions of the thesis to determine 'How public is public space?' and 'How do temporary events affect the use of public space?'

Access

Gilles Street School (refer Figure 8-35), Rundle Place and Adelaide Central Market are accessible by public transport and are destinations. Gilles Street School is only publicly accessible when acting as a market. During weekdays, access is limited to school use only. Rundle Place is subject to opening hours from 9 am to 5:30 pm and acts as a thoroughfare between 6 am and 10 pm (9 am to 7 pm on weekends). Adelaide Central Market is subject to opening hours from 7 am to 5:30 pm, with gates locked at 9 pm. No sites incur admission fees.

Uses

Rundle Place (refer Figure 8-36) and Adelaide Central Market (refer Figure 9-31) are typically used as expected, with use focused on commerce and entertainment. The use of Gilles Street School varies. During weekdays, Gilles Street School functions as an education centre. From October to May, Gilles Street School functions as a market on the first and third Sunday of the month from 10 am to 4 pm.

Events (exclusive social activities)

All sites can hold events. Events require approval and permits issued by City of Adelaide, Gilles Street School, Rundle Mall Management Authority and the Central Market Management Authority, respectively. Private events have included art exhibitions, markets, product launches, Adelaide Fringe Festival performances (refer Figure 8-37), fundraising and family fun days. Traditional events in this case study group alter the performative value of the sites for a predetermined length of time, are typically organised by commercial or government groups and are heavily regulated.

Social activities that are perceived as events alter the performative value of the sites for an undetermined length of time. They are typically organised by community groups and are therefore unregulated. Social activities were only noted at Gillies Street School outside the study timeframe. The activities consisted of learning to ride bikes and using the basketball courts.

Ownership, management and maintenance

The Adelaide Central Market is owned by the City of Adelaide, managed by the Central Market Management Authority and maintained by the City of Adelaide (refer Figure 8-38). The market is subject to ongoing asset renewals, including fire upgrades and urban furniture replacements. Gilles Street School is owned by the Government of South Australia and managed and maintained by Gilles Street School. Asset renewals are subject to funding from the state government. Rundle Place is privately owned, managed and maintained by a central management authority. The mix of site and land ownership does not influence how the spaces are used or perceived as public.

The duty of care during authorised events is temporarily transferred from each owner to the responsible event manager, who holds primary responsibility for users during the event.

Publics

Commercial Spaces have strong links with the defined publics. Gilles Street School (refer Figure 8-39), Rundle Place and Adelaide Central Market (refer Figure 8-40) were designed as sites responsive to one population segment in contemporary urban society.

Security

Security measures are present at all sites. The measures include lighting, CCTV, signage and security personnel.



Figure 8-35: Gilles Street School frontage on a weekday. No signs of commercial activities are present. (Photo by author 2013)



Figure 8-36: Rundle Place. (Photo by author 2013)

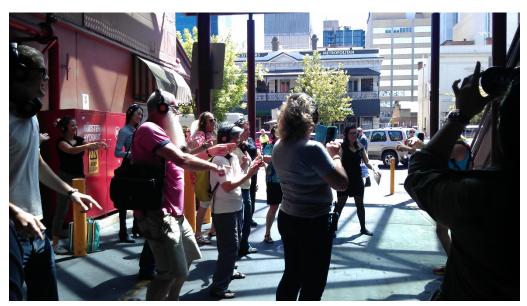


Figure 8-37: Silent Disco 2014 Adelaide Fringe Event in the Adelaide Central Market. (Photo by author 2014)



Figure 8-38: Adelaide Central Market maintenance. (Photo by author 2013)



Figure 8-39: Gilles Street School Day. (Photo courtesy of Nicole Arbon 2014)



Figure 8-40: Adelaide Central Market defined use. (Photo by author 2013)

This section has presented the three commercial case study sites to assess the accessibility of public spaces in Adelaide, South Australia, for a diverse range of publics. The summary of the case study sites above highlighted the diversity and similarities of the sites. The strengths of the case study sites are their diversity, which allow the comprehensive measures of the Design Assessment Framework to be used.

8.4 Summary

This chapter outlined the importance of Adelaide in testing the Design Assessment Framework and measuring the performative value of public space as spaces of social exchange rather than how they look or their location. The 16 case study sites selected to assess the accessibility of public space by the Design Assessment Framework highlighted the diversity and similarities of the sites.

The strengths of the sites are their diversity, which allows the comprehensive measures of the framework to be used. The summary highlighted the relevance of Adelaide as an urban space to analyse the public accessibility of public space.

The Design Assessment Framework is used in Chapter Nine to measure the accessibility of public spaces in Adelaide, South Australia, for a diverse range of publics and to suggest which elements, surfaces, activities and context contribute to or erode wider public accessibility and social exchange. In Chapter Ten, the discussion and conclusion of this thesis, the overarching research outcomes of the case studies are situated in the broader context of the landscape architectural discourses on public space.

Chapter Nine

Data analysis of

urban public space

	3 NE /	10 700	
		137 103	
The sales of the sales of the	37 /	111	
在一个一个一个		1 111	/图 /复
he from the suffer from the	Ent	- Joseph	
I repair of my fore from the	- Fine	8304	
and and and and and	out the	Tout .	ties era
enteres from two for a few	- Cont	List	Line State
and conformation	- Crest	2700	See See
O and O and The County of the	- June	a.com	Sites Since
000000000000000000000000000000000000000		2 000	1000
18 0 AA2 0 392	0.000 0.00	1	0.233
0831 0831 0	0.331	-	500 0,000
0.1337 0.01	2000	0.5	
35	93	0.10	
7.50	10 385	0.500	0.000
0.000	0.000 61.538 5.000		0.500
0000	1.538	33,000	90
0.000	1.923	33.333	15 000
4	3.077	4 000	32.000
NA 0.250	1.923	0000	12.500
/NA	0.000	0.000	0.000
2 0.000	NA	2.500	0.000 0.000 7.500 22.500
0.667	0.000	0.667	0.000
		-	0.000
0300	2.538	NA NA	3000
0.	09	0.167	NA
-01	5	1.00	0.500
0.708			
		0.66	0.750
NA 0.846		1.032	V. 75-
/NA		200	250
0.846		1.000	750
1.000		- 10.5	500
		7.4	1
1.000	0.	500	1.
301			INA
	nent Framework data analysis.	0.75	10
Figure 9-1: Design Assessr	ment Framework data analysis.		4
(Photo by author 2015)			
		100	
(Photo by author 2015)	1.000	1.000	

Understanding the publicness of public space is crucial, given the primary aim of this thesis. The Design Assessment Framework, developed in Chapter Seven, measures the publicness of public spaces by capturing their performative value and subsequently suggests which elements, surfaces, activities and context contribute to or erode public accessibility and social exchange.

Performative value is measured in this thesis as use by a diversity of publics, acknowledging that the specific and relative value of public spaces is constantly changing. Performative value is determined by undertaking systematic observations assessing the public using the public space, whether interaction between groups occurs and how long activities and behaviour occur. This measure of publicness does not depend on ownership or management.

This chapter uses the components of the Design Assessment Framework (DAF) to measure the publicness of 16 case study sites in Adelaide, South Australia and provides a comparative assessment of the sites in the following order:

- Public accessibility measures: Determine the DAF rating for each case study site and measure how publicly accessible each space is during public and private activities. Activities are considered in two groupings: public activities (non-event typical activity) and a change of use (event exclusive social activities). This component of the framework observed and measured accessibility by considering user statistics including age, typology of publics and length of stay. (Refer to Chapter Seven for the full list of measures and Section 9.2, Appendix 4.A and Appendix 4.B for results).
- **Site elements**: Provide insights into how particular features attract users and encourage site-based activity, which allows analysis of interventions during events and non-events. This component measures permanent and temporary elements, including seating, public art and signage. (Refer to Chapter Seven for the full list of site elements and Section 9.3, Appendix 4.A and Appendix 4.B for results).
- Site surfaces and structures: Provide insights into how particular features attract users and encourage site-based activity, allowing analysis of interventions during events and non-events. This component measures permanent and temporary surfaces and structures, including paving, gardens and shade structures. (Refer to Chapter Seven for the full list of site surfaces and structures and Section 9.4, Appendix 4.A and Appendix 4.B for results).
- **Site activities**: Provide insights into the relative vibrancy of urban public spaces during events and non-events. This component observes and measures site activities, including formal and informal activities such as reading, busking and event setup. (Refer to Chapter Seven for the full list of site surfaces and structures and Section 9.5, Appendix 4.A and Appendix 4.B for results).

• **Site context and conditions**: Provide insights into the comfort, quality and aesthetic considerations for measuring the use of public spaces during events and non-events. This component observed and measured context and conditions, including change in use, design intent and movement. (Refer to Chapter Seven for the full list of site context and conditions and Section 9.6, Appendix 4.A and Appendix 4.B for results).

The components of the Design Assessment Framework are assessed separately and compared across all sites. The results presented in this chapter summarise the data assessment, providing insights and suggesting which characteristics of public space contribute to publicness. Conversely, they also suggest which features contribute to the perception of exclusion.

9.1 Parameters for site data collection

The findings presented in sections 9.2 to 9.6 draw on data collected from 21 January 2013 to 16 August 2014 at the case study sites in Adelaide representing five public space typologies: Parks & Gardens, Streets & Promenades, Plazas & Squares, Waterfronts and Commercial Spaces. Site visits were undertaken (153 non-event visits and 30 event visits) at different times of the day and week to gain an understanding of site conditions and their variable rhythm. Refer to Table 9-1 for site visits. Data were collected using the Design Assessment Framework checklist and performed by one assessor.

For the purpose of this thesis, site visits have been divided into two conditions 'non-event' and 'event'. 'Non-event' is defined as programs or activities occurring within the site boundaries that are part of the intended function of the site. 'Event' is defined as temporary programs or activities occurring within the site boundaries that exclude other users and alter use or function of the site. (Refer to Appendix 4.A for the expanded table compiling all site visit data).

Site assessments using the Design Assessment Framework checklist included visits at all times of the day and night for each public space typology with the exception of Waterfronts (Table 9-1). Covering the full 24 hours allowed for data to be collected, representing the changing nature of public space characteristics and conditions. This timeframe allowed for site assessments to collect data during their variable rhythm, including events or event setup, sun, rain, wind, seasons, weekends, weekdays and public holidays, day and night. The collection of data at different times of year, week and day is recommended by Dakin (2003) and Veitch et al. (2014), who note that studies limiting times of data collection in open space distort outcomes.

To assess the significance of social and economic effects of publicness, independent 2-group t-tests were undertaken. These tests are a method of

checking the hypothesis that two populations of small data are independent, taking into account the size of the population (i.e. whether there is enough data to support conclusions). Independent 2-group t-tests are applied to scaled data to determine whether the collected data follow a normal distribution and to confirm whether there is a significant difference in the averages (mean). The results are considered significant if the values of the test are less than 0.05. A strong statistical significance refers to a value of less than 0.01. (Refer to Appendix 4.C for T-test results). To determine if the duration of site visits and number of visits frequency distribution was consistent and valid, independent 2-group t-tests were conducted to inform a null hypothesis. The t-tests indicated there was no significant difference in the averages (m) of collected data with regard to the overall number of site visits between non-event condition (153 visits) and event condition (30 visits).

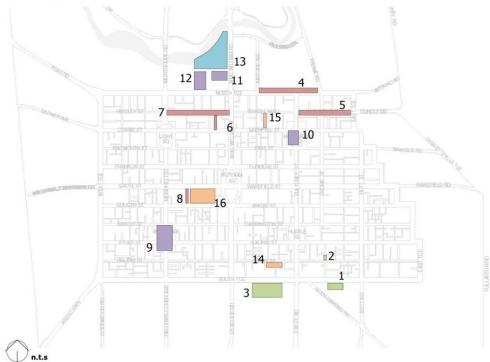
Weather information was collected as part of the site assessments. Studies conducted by Cooper Marcus (1998), Gehl Architects (2010, 2013), Project for Public Space (2000+) and Whyte (1980) all mapped everyday behaviour and public use with regard to weather conditions (sun, rain, snow, temperature). Outcomes of such studies clearly indicate spaces function differently depending on weather conditions, time of day and season as people give preference to areas in the sun in winter and shade in summer. Interestingly, Buchanan's (2007) study concluded that weather does not affect the number of users if the site is small and dominated by commuters and shoppers. Buchanan's recommendation is in contrast to those of others, including Gehl Architects, who suggest that weather does affect pedestrian counts. The results of this study do not suggest that weather affects behavioural patterns. This may be because of Adelaide's relatively mild weather variables or the design of the case study sites.

This study acknowledges that the data reflect an 18-month period. Analysis of the data included:

- Initial data review;
- Data indexing, charting and interpretation of connections and relationships within the first review; and
- Significance of the results.

The following sections discuss the findings across the 16 case study sites in relation to the five components of the Design Assessment Framework to assess the performative value (accessibility) of public space: publicness, site elements, site surfaces and structures, site activities and site context and conditions. The assessment involved an iterative review of the collected data and three main analyses. The first established and compared the Design Assessment Framework (DAF) rating of each case study site. The second divided the data into the condition of non-event or condition of event to determine which

components contribute to or erode the publicness of a site. The third analysis reviewed each of the individual measures (i.e. user number, signage, paving, formal recreation and natural surveillance) to determine if any individual measure had more bearing on the DAF rating. The analysis highlights how complex public spaces are and the potential of many iterative, simple comparisons.



n.	n.t.s					
Parks 8	& Gardens					
1	Himeji Gardens					
2	Castle Street (between Charlotte Street and Ely Place)					
3	Glover Playground					
Streets	& Promenades					
4	North Terrace (between Kintore Avenue and Frome Road)					
5	Rundle Street (between Pulteney Street and East Terrace)					
6	Peel Street					
7	Hindley Street (between King William Street and Morphett Street)					
8	Moonta Street					
Plazas	& Squares					
9	Whitmore Square/Ivarrityi					
10	Hindmarsh Square/Mukata					
11	Hajek Plaza (Festival Plaza)					
12	Adelaide Railway Station					
Waterf	ronts					
13	Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26)					
Comm	mmercial Spaces					
14	Gilles Street School (markets)					
15	Rundle Place					
16	Adelaide Central Market					

Figure 9- 2: Adelaide study area and case study site locations

Table 9-1: Case study site visit time and duration

	Case study site	Before 9:00 am	9:00 am to 12:00 pm	12:00 pm to 3:00 pm	3:00 pm to 6:00 pm	6:00 pm to 9:00 pm	9:00 pm to 12:00 am
	Himeji Gardens	15.02.2014 (8:30 am to 9:00 am) 04.09.2014 (7:00 am to 7:30 am)	11.05.2013 (9:20 am to 9:50 am) 12.09.2014 (11:00 pm to 11:30 pm)	20.05.2013 (1:40 pm to 2:00 pm) 26.07.2014 (1:30 pm to 3:00 pm)	08.05.2013 (3:30 pm to 4:00 pm) 19.05.2013 (3:45 pm to 4:00 pm) 20.07.2014 (4:15 pm to 4:30 pm)		13.09.2014 (10:00 pm to 10:15 pm)
s	Castle Street (between Charlotte Street and Ely Place)	15.02.2014 (8:30 am to 9:00 am) 04.09.2014 (7:00 am to 7:30 am)	11.05.2013 (9:00 am to 9:20 am)	03.02.2013 (12:00 pm to 12:30 pm) 26.07.2014 (1:30 pm to 3:00 pm)	08.05.2013 (4:00 pm to 4:15 pm) 14.09.2014 (3:50 pm to 4:05pm)	05.02.2013 (7:30 pm to 8:00 pm) 12.09.2014 (6:00 pm to 6:30 pm)	12.09.2014 (11:00 pm to 11:30 pm) 13.09.2014 (10:00 pm to 10:15 pm)
Parks & Gardens	Glover Playground	11.07.2013 (8:00 am to 8:15 am)	11.05.2013 (9:50 am to 10:00 am) 11.05.2013 (10:35am to 11:00 am) 12.09.2014 (11:30 pm to 12:00 am)	20.05.2013 (1:15 pm to 1:40 pm) 14.09.2014 (1:30 pm to 2:00 pm)	19.05.2013 (3:15 pm to 3:45 pm)		13.09.2014 (9:30 pm to 10:00 pm)
	North Terrace (between Kintore Avenue and Frome Road)	28.01.2013 (8:00 am to 9:00 am)	12.06.2013 (10:15 am to 10:30 am)	27.01.2013 (12:00 pm to 2:00 pm) 28.01.2013 (12:00 pm to 2:00 pm)	02.02.2013 (5:00 pm to 7:00 pm) 26.02.2013 (5:30 pm to 5:45 pm) 04.05.2013 (3:45 pm to 4:00 pm) 12.06.2013 (12:00 pm to 12:30 pm)	02.02.2013 (5:00 pm to 7:00 pm) 19.02.2013 (7:30 pm to 7:45 pm) 25.02.2015 (6:00 pm to 6:10 pm) 28.03.2014 (6:05pm to 6:20 pm)	
Streets & Promenades	Rundle Street (between Pulteney Street and East Terrace)	28.01.2013 (8:00 am to 9:00 am) 08.07.2014 (8:05 am to 8:20 am) 30.07.2014 (8:00 am to 8:15am) 31.07.2014 (8:15 am to 8:30 am) 01.08.2014 (8:30 am to 8:45 am)		27.01.2013 (12:00 pm to 2:00 pm) 28.01.2013 (12:00 pm to 2:00 pm)		22.03.2013 (8:15 pm to 8:30 pm) 08.03.2014 (8:30 pm to 10:30 pm) 31.07.2014 (5:30 pm to 5:45 pm) 01.08.2014 (5:45 pm to 6:00 pm) 14.09.2014 (4:50 pm to 5:20 pm)	08.03.2014 (8:30 pm to 10:30 pm) 15.03.2014 (10:30 pm to 12:00 am)
	Peel Street	03.09.2014 (7:15 am to 8:15 am) 01.09.2014 (6:45 am to 7:00 am)	01.08.2014 (11:15 am to 11:30 am) 03.09.2014 (9:30 am to 10:00 am) 10.09.2014 (9:30 am to 10:00 am)	24.10.2012 (12:30 pm to 1:00 pm) 01.08.2014 (12:15 pm to 12:30 pm)	26.04.2013 (5:15 pm to 5:30 pm) 04.05.2013 (5:00 pm to 5:15 pm) 10.05.2013 (3:00 pm to 3:30 pm) 14.03.2014 (5:30 pm to 6:00 pm)	10.02.2014 (6:30 pm to 6:45 pm) 08.03.2014 (6:00 pm to 6:30 pm) 14.03.2014 (7:00 pm to 7:30 pm) 09.08.2014 (6:30 pm to 7:00 pm)	19.04.2013 (10:00 pm to 12:00 am)
	Hindley Street	03.09.2014 (7:15 am to 8:15 am) 10.09.2014 (9:30 am to 10:00 am)			11.07.2014 (5:45 pm to 6:00 pm) 14.09.2014 (4:40 pm to 5:10 pm)	08.03.2014 (6:00 pm to 6:30 pm) 08.03.2014 (8:15 pm to 8:30 pm) 14.03.2014 (5:30 pm to 7:30 pm) 09.08.2014 (6:30 pm to 7:00 pm)	28.03.2014 (9:30 pm to 10:00 pm) 11.07.2014 (9:00 pm to 9:30 pm)
	Moonta Street		08.06.2013 (10:00 am to 10:15 am) 13.07.2013 (10:45 am to 11:00 am) 14.03.2014 (10:00 am to 11:00 am)	07.06.2013 (12:30 pm to 1:15 pm) 02.08.2014 (1:00 pm to 1:15 pm)	14.09.2014 (4:20 pm to 5:00 pm)	16.02.2013 (6:00 pm to 7:00 pm) 10.05.2013 (6:00 pm to 6:30 pm)	25.05.2013 (10:00 pm to 10:30 pm)

	\\/\b:\+\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	00.05.2012 (0.20 +- 0.45	11.05.2012 (10.00 +- 40.20	20.05.2012/1:00 +- 1:15	10.05.2012 (4.20 +- 4.45	17.05.2012./0.00 +- 0.45	
	Whitmore	08.05.2013 (9:30 am to 9:45 am)	11.05.2013 (10:00 am to 10:30	20.05.2013 (1:00 pm to 1:15 pm)	19.05.2013 (4:30 pm to 4:45 pm) 20.80.2014 (4:00 pm to 4:30 pm)	17.05.2013 (8:00 pm to 8:15 pm)	
	Square/Ivarrityi	08.09.2014 (7:00 am to 7:30 am)	am	25.07.2014 (1:35pm to 1:50 pm)		25.07.2014 (8:00 pm to 8:30 pm)	
				02.08.2014 (12:15 pm to 12:30	14.09.2014 (4:30 pm to 4:45 pm)		
ŀ		22.22.22.42.22	00.40.0040.40.00	pm)	20 20 2042 /5 20	22.22.22.42.47	24 22 2242 (2 22
	Hindmarsh	22.02.2013 (12:00 am to 12:30	09.10.2013 (10:00 am to 10:30	18.04.2013 (1:00 pm to 1:30 pm)	28.03.2013 (5:00 pm to 5:20 pm)	22.03.2013 (7:45 pm to 8:00 pm)	21.02.2013 (9:00 pm to 9:30 pm)
ı	Square/Mukata	am)	am)	26.04.2013 (12:30 pm to 1:00	14.09.2014 (4:30 pm to 5:00 pm)		
ı		11.04.2013 (8:00 am to 8:30 am)		pm)			
ı		11.10.2013 (8:30 am to 9:00 am)		07.02.2014 (12:30 pm to 1:30			
				pm)			
ļ				14.09.2014 (1:00 pm to 1:30 pm)			
	Hajek Plaza	13.07.2013 (8:30 am to 8:45 am)		27.01.2013 (12:00 pm to 2:00	04.05.2013 (4:00 pm to 4:30 pm)	19.04.2013 (6:00 pm to 6:30 pm)	
		30.06.2014 (8:00 am to 8:30 am)		pm)	19.05.2013 (4:15 pm to 4:30 pm)	19.04.2013 (8:30 pm to 9:00 pm)	
		10.09.2014 (7:00 am to 7:15 am)		05.20.2014 (2:00 pm to 3:00 pm)		09.08.2014 (7:30 pm to 8:00 pm)	
				15.03.2014 (12:10 am to 12:30		09.08.2014 (8:30 pm to 9:00 pm)	
				am)			
				17.03.2014 (1:10 pm to 1:30 pm)			
				01.07.2014 (2:00 pm to 3:30 pm)			
	Adelaide Railway	15.03.2014 (12:10 am to 12:30	28.03.2014 (10:40 am to	12.06.2013 (12:00 pm to 12:30		14.03.2014 (7:00 pm to 7:30 pm)	
	Station	am)	10:55am)	pm)		09.08.2014 (7:30 pm to 8:00 pm)	
		04.09.2014 (8:00 am to 8:15 am)	16.09.2014 (9:00 am to 9:30 am)	12.06.2013 (2:00 pm to 2:15 pm)		09.08.2014 (8:30 pm to 9:00 pm)	
5		10.09.2014 (9:30 am to 10:00	,			09.09.2014 (6:00 pm to 6:30 pm)	
7 1979 1		am)				`	
Ĭ		12.09.2014 (8:00 am to 8:30 am)					
	Elder Park (Stella	13.07.2013 (8:30 am to 8:45 am)	12.03.2014 (10:30 am to 11:30	27.01.2013 (12:00 pm to 2:00	19.02.2013 (5:30 pm to 7:30 pm)	05.02.2013 (6:00 pm to 7:20 pm)	
3	Bowen	15.03.2014 (12:10 am to 12:30	am)	pm)	19.05.2013 (4:15 pm to 4:30 pm)	19.02.2013 (5:30 pm to 7:30 pm)	
	Park/Tarntanya	am)	28.03.2014 (10:00 am to 10:40	05.20.2014 (2:00 pm to 3:00 pm)		09.08.2014 (7:30 pm to 8:00 pm)	
H	Wama, Park 26)	30.06.2014 (7:00 am to 8:30 am)	am)	12.03.2014 (1:00 pm to 2:00 pm)		09.08.2014 (8:30 pm to 9:00 pm)	
		10.09.2014 (6:45 am to 7:00 am)		17.03.2014 (1:20 pm to 2:00 pm)			
3		13.09.2014 (9:00 am to 9:30 am)		01.07.2014 (2:00 pm to 3:30 pm)			
	Gilles Street School		11.05.2013 (10:00 am to 10:15		19.05.2013 (2:30 pm to 3:00 pm)		13.09.2014 (10:00 pm to 10:15
			am)		16.06.2013 (3:15 pm to 3:45 pm)		pm
			12.09.2014 (11:30 pm to 12:00		14.09.2014 (4:05pm to 4:20 pm)		
			am)				
			,				
Ī	Rundle Place	28.03.2014 (6:20 am to 6:35am)	12.09.2014 (9:30 am to 10:00	04.07.2014 (1:00 pm to 1:30 pm)	01.07.2014 (3:30 pm to 3:45 pm)	12.09.2014 (6:00 pm to 6:30 pm)	11.07.2014 (9:00 pm to 9:30 pm)
		11.09.2014 (7:45 am to 8:00 am)	-		10.07.2014 (4:45 pm to 5:00 pm)	`	, , , ,
		, , , , , , , , , , , , , , , , , , ,	l '	' ' '	14.09.2014 (4:30 pm to 5:00 pm)		
İ	Adelaide Central		08.06.2013 (10:15 am to 11:00	07.06.2013 (1:15 pm to 1:30 pm)		16.02.2013 (6:00 pm to 7:00 pm)	25.05.2013 (10:00 pm to 10:30
	Market		am)	07.03.2014 (12:15 pm to 1:15		10.05.2013 (6:00 pm to 6:30 pm)	` ·
			13.07.2013 (11:00 am to 11:30	pm)		, , , , , , , , , , , , , , , , , , , ,] · ·
3			am)	25.03.2014 (12:15 pm to12:50			
			14.03.2014 (10:00 am to 11:00	pm)			
			am)	28.03.2014 (12:00 pm to 12:30			
				pm)			
I				28.03.2014 (1:45 pm to 2:00 pm)			
				• U/ UX /U/4 (1/ 3U/00/10 10 17)			
				02.08.2014 (12:30 pm to 1:00 pm)			

9.2 DAF rating and publicness

A fundamental reconsideration of the relationship between physical (design) and operational (use) of public space is required because the distinction between public space and private space (outlined in Part A, Chapters Two to Five) has blurred. Ownership and management no longer define whether public space is publicly accessible. Users are consistently the dominant voice in public space and their views should be the focus of questioning publicness or privateness. In response, this thesis outlined seven measures for determining the publicness of public space (Chapter Five and Chapter Seven):

- user number;
- user age (range of ages present);
- typology of publics (diversity of publics present);
- gender (mix of genders present);
- individual or group presence;
- interaction between users; and
- length of stay.

Each measures the number, range or diversity of people present at the site. A high measure indicates more publicness.

These measures of public accessibility and the user statistics that are common within the typologies of public spaces are presented in Chapter Three. The measures allowed for systematic observations identifying the publics using each case study site, if interaction between groups occurred and how long activities or behaviours occurred.

The aim of analysing the public accessibility measures data was to determine a DAF rating for individual sites. The DAF rating is based on the presence of each of the seven measures; whether the sites had been accessed and by whom. The scores aided in the identification of characteristics that can be argued to contribute to the observed diversity of publics. This score was then used in subsequent sections to analyse the Design Assessment Framework components—elements, activities, context—to assess correlations between the components and a site's publicness.

Public accessibility measures were assessed in three ways. The first analysis compared the overall DAF rating between the 16 case study sites. The second analysis divided data into the conditions of non-event and event, to determine whether short-term programmed changes have a bearing on the DAF rating of a site. Here the results varied, indicating that land ownership and temporary change of legal responsibility did not have a direct link to publicness. The third

analysis reviewed each of the seven public accessibility measures to determine whether any individual measure had more bearing on the DAF rating.

9.2.1 DAF rating findings and discussion

For the first analysis, the 16 case study sites and 183 site visits were assessed to determine a total DAF rating for each site. A total score of 7 indicated the assessed public space contained all public accessibility measures (user statistics) and therefore was not affected by reduced access during events. A score of 0 indicated the space did not contain the public accessibility measures. Each site's score in this section was used throughout the subsections of this chapter to analyse other Design Assessment Framework components. As shown in Table 9-2 and Figure 9-4, Moonta Street consistently scored the most public space (m = 5.58, min = 4.58, max = 6.75). Rundle Street presented all public accessibility measures at one site visit (max = 7), while Castle Street presented no public accessibility measures at one site visit (min = 0). Unexpectedly, Parks & Gardens had the lowest public score, while Streets & Promenades had the highest public score. A review between the total minimum, average and maximum indicates that there were fluctuations in case study sites during individual visits.

Table 9-2: DAF rating of case studies sites (least to most public) across all site visits

Case study site	Average (m)	Minimum	Maximum
Castle Street	2.18	0.00	4.00
Gilles Street School	2.58	0.25	6.00
Glover Playground	3.05	0.25	5.08
Whitmore Square/Ivarrityi	3.63	0.50	6.17
Himeji Gardens	3.70	0.25	6.25
Rundle Place	3.82	0.25	5.92
Peel Street	4.11	3.17	5.50
Hajek Plaza	4.22	3.00	5.50
North Terrace	4.26	3.00	5.75
Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26)	4.75	3.50	6.42
Adelaide Railway Station	4.88	4.25	5.58
Adelaide Central Market	4.88	0.25	6.33
Hindley Street	4.97	4.17	5.67
Hindmarsh Square/Mukata	5.28	2.67	6.75
Rundle Street	5.34	4.00	7.00
Moonta Street	5.58	4.58	6.75

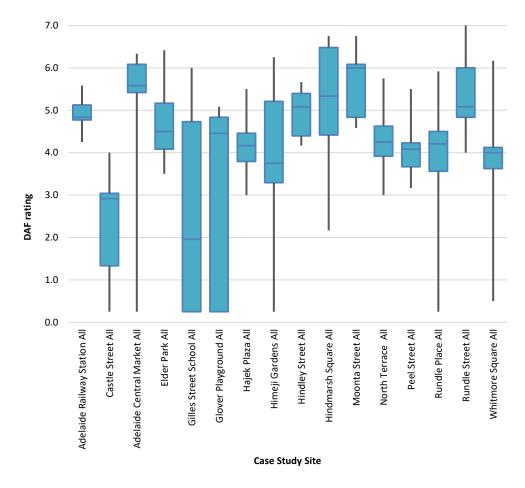


Figure 9-3: DAF rating (alphabetical order) across all sites

9.2.2 DAF rating findings and comparison between non-event and event conditions

Fluctuations of case study sites became clearer in the second analysis comparing the DAF rating during non-event and event conditions (Table 9-3, Table 9-4 and Figure 9-4). During events, all case study sites showed a considerably higher DAF rating except for Hindmarsh Square/Mukata, which dropped in score (m = 6.75 non-event, m = 4.98 event). This result may be related to the type of events and the event setups in the square. Parks & Gardens remained the lowest DAF-rated public spaces overall. Unexpectedly, Commercial Spaces showed an increased DAF rating during events. The overall increase of the DAF ratings during events, indicates that land ownership and temporary change of legal responsibility did not have a direct link to publicness and events could positively contribute to public space. This result may be related to the type of events that occurred during the site visits, including the Adelaide Fringe Festival, the Tour Down Under, the Adelaide Festival, the World Solar Car Challenge, art exhibitions and markets (Chapter Eight and Appendix 4.A).

Table 9-3: DAF rating of case study sites for non-event site visits (least to most public)

Case study site	Average	Minimum	Maximum
	(m)		
Gilles Street School	0.25	0.25	0.25
Castle Street	2.00	0.25	3.25
Glover Playground	3.05	0.25	5.08
Himeji Gardens	3.42	0.25	5.92
Rundle Place	3.58	0.25	5.17
Whitmore Square	3.63	0.50	6.17
Hajek Plaza	3.98	3.00	5.25
Peel Street	4.11	3.17	5.50
North Terrace	4.21	3.00	5.75
Elder Park (Stella Bowen Park/Tarntanya	4.56	3.50	5.83
Wama, Park 26)	4.77	0.25	6.22
Adelaide Central Market	4.77	0.25	6.33
Adelaide Railway Station	4.88	4.25	5.58
Rundle Street	4.94	4.00	6.00
Hindley Street	4.97	4.17	5.67
Moonta Street	5.56	4.75	6.33
Hindmarsh Square/Mukata	6.75	6.75	6.75

Table 9-4: DAF rating of case study sites for event site visits (least to most public)

Case study site	Average	Minimum	Maximum
	(m)		
Castle Street	4.00	4.00	4.00
North Terrace	4.75	4.75	4.75
Gilles Street School	4.92	3.67	6.00
Hindmarsh Square/Mukata	4.98	2.67	6.75
Hajek Plaza	5.08	4.50	5.50
Elder Park (Stella Bowen Park/Tarntanya	5.35	3.50	6.42
Wama, Park 26)			
Moonta Street	5.67	4.58	6.75
Rundle Place	5.92	5.92	5.92
Adelaide Central Market	6.17	6.17	6.17
Himeji Gardens	6.25	6.25	6.25
Rundle Street	6.67	6.33	7.00
Hindley Street	n/a	n/a	n/a
Peel Street	n/a	n/a	n/a
Whitmore Square/Ivarrityi	n/a	n/a	n/a
Adelaide Railway Station	n/a	n/a	n/a
Glover Playground	n/a	n/a	n/a

n/a = no events recorded

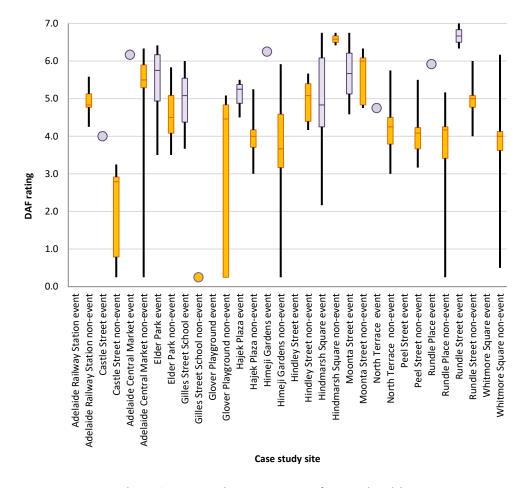


Figure 9-4: DAF rating non-event and event site visits

9.2.3 Public accessibility measures review

The following subsection outlines the third analysis of public accessibility measures, reviewing each of the seven measures of publicness. Here, the results varied, indicating a more nuanced response to the variety of event facilities and features brought temporarily to public spaces.

User numbers

The case study sites were more likely to have between 0 to 100 people during non-events and 100 or more users during events (Figure 9-5, Figure 9-6 and Table 9-5). Parks & Gardens were shown to typically have 0 to 20 users regardless of event or non-event conditions. Streets & Promenades attracted the majority of users, with typically over 500. Interestingly, Commercial Space typically had over 500 users during non-events (Figure 9-5), shown by 62% of site visits. No significant difference was found in average presence during events (Appendix 4.C). Overall, user numbers increased during events, except for Commercial Spaces (Figure 9-6 and Table 9-5). This finding supports the expectation of Section 9.2, that events can positively contribute to public space if site design and size allow large numbers of users to be present.

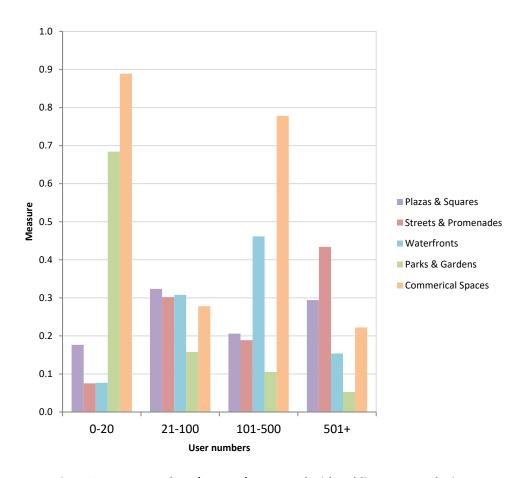


Figure 9-5: User numbers (average) compared with public space typologies during non-event site visits

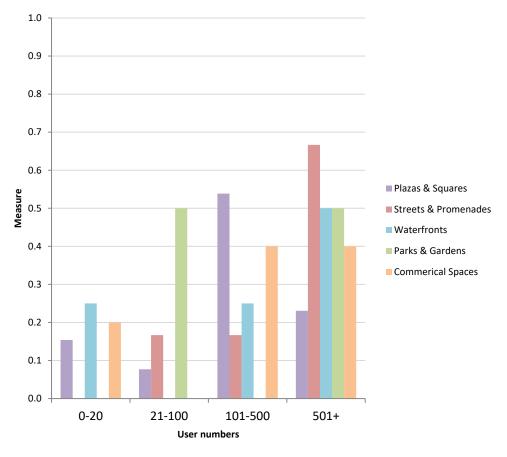


Figure 9-6: User numbers (average) compared with public space typologies during event site visits

Table 9-5: User numbers (average) across all site visits

			User n	umbers	
Case study site		0–20	21-100	101-500	501+
Adelaide Railway	Overall	0.25	0.25	0.23	0.17
Station	Non-event	0.25	0.25	0.23	0.17
	Event	n/a	n/a	n/a	n/a
Castle Street	Overall	0.25	0.05	0.00	0.00
	Non-event	0.25	0.03	0.00	0.00
	Event	0.25	0.25	0.00	0.00
Adelaide Central	Overall	0.25	0.21	0.21	0.19
Market	Non-event	0.25	0.21	0.21	0.19
	Event	0.25	0.25	0.25	0.25
Elder Park (Stella	Overall	0.25	0.22	0.16	0.06
Bowen Park/	Non-event	0.25	0.23	0.15	0.04
Tarntanya Wama, Park 26)	Event	0.25	0.19	0.19	0.13
Gilles Street	Overall	0.25	0.08	0.08	0.04
School	Non-event	0.025	0.00	0.00	0.00
	Event	0.25	0.17	0.17	0.08
Glover	Overall	0.25	0.13	0.03	0.00
Playground	Non-event	0.25	0.13	0.03	0.00
	Event	n/a	n/a	n/a	n/a
Hajek Plaza	Overall	0.25	0.21	0.13	0.05
	Non-event	0.25	0.20	0.09	0.05
	Event	0.25	0.25	0.25	0.08
Himeji Gardens	Overall	0.25	0.05	0.05	0.05
	Non-event	0.25	0.03	0.03	0.03
	Event	0.25	0.25	0.25	0.25
Hindley Street	Overall	0.25	0.25	0.25	0.23
	Non-event	0.25	0.25	0.25	0.23
	Event	n/a	n/a	n/a	n/a
Hindmarsh	Overall	0.25	0.21	0.19	0.04
Square/Mukata	Non-event	0.25	0.25	0.25	0.00
	Event	0.25	0.20	0.18	0.05
Moonta Street	Overall	0.25	0.25	0.22	0.17
	Non-event	0.25	0.25	0.25	0.18
	Event	0.25	0.25	0.13	0.13
North Terrace	Overall	0.25	0.20	0.07	0.00
	Non-event	0.25	0.20	0.05	0.00
	Event	0.25	0.25	0.25	0.00
Peel Street	Overall	0.25	0.22	0.08	0.03
	Non-event	0.25	0.22	0.08	0.03
	Event	n/a	n/a	n/a	n/a
Rundle Place	Overall	0.25	0.20	0.15	0.03
	Non-event	0.25	0.19	0.14	0.03
	Event	0.25	0.25	0.25	0.00
Rundle Street	Overall	0.25	0.25	0.23	0.19
	Non-event	0.25	0.25	0.23	0.19
	Event	0.25	0.25	0.25	0.25
Whitmore Square	Overall	0.25	0.11	0.00	0.00
	Non-event	0.25	0.11	0.00	0.00
	Event	n/a	n/a	n/a	n/a

n/a = no events recorded.

User age

Distribution of age is a factor to be considered for night time and weekend economy studies. Similarly to user numbers (refer above), user age variation increased across the aggregate of public space types during events (Figure 9-7). A trend was found that age groups less than 20 years of age or above 61 years of age were more likely to attend events.

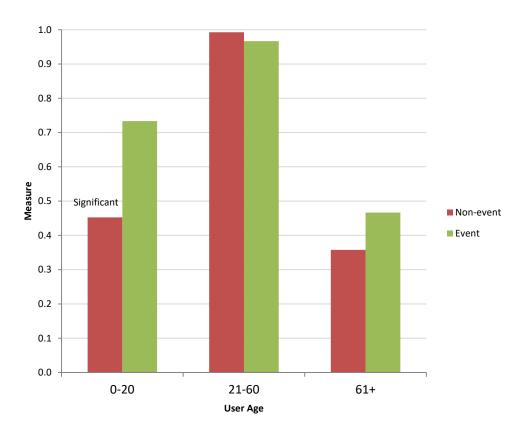


Figure 9-7: User age variation (average) across all sites

This overall trend is different when assessed by the separate public space typologies during event and non-event conditions (Figure 9-7 and Figure 9-8). Waterfronts were the least diverse, with the majority of users between 21 and 60 years of age. This may be because of site elements and the existing program of activities. The greatest age variation was seen in the Commercial Space with more users below 20 years of age and above 61 years of age, throughout all analysis review comparisons. During events, the Streets & Promenades and Plazas & Squares saw an increase in the 61 years and over bracket (Figure 9-9). Changes of demographics may be due to the flexibility of these sites in terms of layout and site elements. Similarly, Parks & Gardens presented trends showing an increase in the age group 0 to 20 during events. Parks & Gardens results are linked to events held in these spaces, which focus on family activities. These findings support the conclusion that events positively contribute to public space by catering for a broad demographic representation in urban spaces.

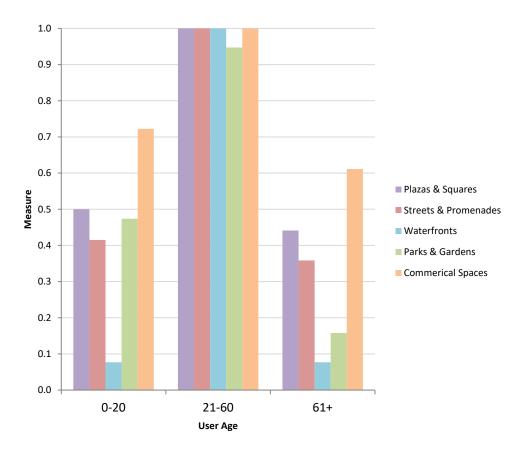


Figure 9-8: User age variation (average) compared with public space typologies during non-event site visits

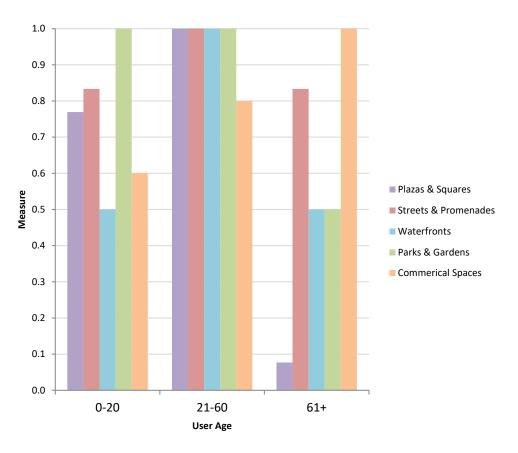


Figure 9-9: User age variation (average) compared with public space typologies during event site visits

Typology of publics

Elements and materials designed into a space might be considered to restrict or discourage some publics. Within this study, the absence of publics represents degrees of exclusion. The publics recognised in the study are identified in Chapter Five: the defined public, the appropriated public, the transitory public and the illegitimate public. These proposed publics are affected differently by regulations and design principles, which is discussed below. As shown in Table 9-6 (next page), Figure 9-10, Figure 9-11 and Figure 9-12, the presence of publics within the case study sites fluctuated with distinct variation between non-event and event conditions within a number of the case study sites.

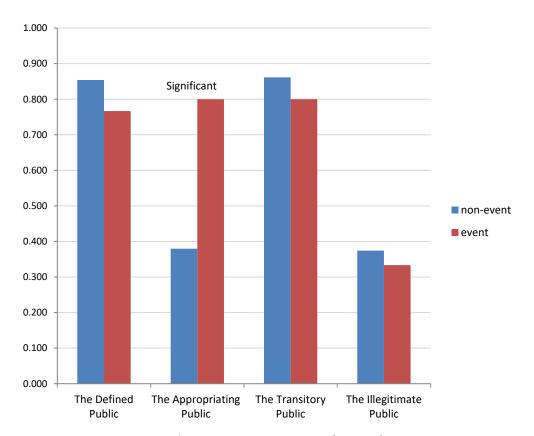


Figure 9-10: Typology of publics presence variation (average) across all site visits

The defined public are the dominant group of publics within public space (Chapter Five) and were recorded at all sites except Gilles Street School. The presence of the defined public was not constant throughout the 183 site visits, with Adelaide Railway Station, Hindley Street and Rundle Street being the only sites where defined public presence was recorded during all site visit (Table 9-6). While the defined public data did not present any strong trends, review of the data suggests that the fluctuation is linked to the public space typologies and function of the case study sites. This conclusion is linked to the constant presence of the defined public in Streets & Promenades compared with all

other publics and the minimal variation between non-event and event conditions (Figure 9-10, Figure 9-11, Figure 9-12).

Table 9-6: Typology of publics presence (average) across all site visits

Case study site			=		
		Defined Public (m)	Appropriatin g Public (m)	Transitory Public (m)	lllegitimate Public (m)
Adelaide Railway	Overall	0.25	0.04	0.7	0.02
Station	Non-event	0.25	0.04	0.7	0.02
	Event	n/a	n/a	n/a	n/a
Castle Street)	Overall	0.11	0.00	0.18	0.00
	Non-event	0.10	0.00	0.18	0.00
	Event	0.25	0.00	0.25	0.00
Adelaide Central	Overall	0.21	0.06	0.13	0.10
Market	Non-event	0.21	0.06	0.15	0.08
	Event	0.25	0.00	0.00	0.25
Elder Park (Stella	Overall	0.21	0.24	0.25	0.06
Bowen	Non-event	0.19	0.23	0.25	0.06
Park/Tarntanya Wama, Park 26)	Event	0.25	0.25	0.25	0.06
Gilles Street School	Overall	0.00	0.13	0.00	0.00
	Non-event	0.00	0.00	0.00	0.00
	Event	0.00	0.25	0.00	0.00
Glover Playground	Overall	0.16	0.03	0.00	0.03
	Non-event	0.16	0.03	0.00	0.03
	Event	n/a	n/a	n/a	n/a
Hajek Plaza	Overall	0.09	0.09	0.25	0.09
•	Non-event	0.09	0.09	0.25	0.07
	Event	0.08	0.08	0.25	0.17
Himeji Gardens	Overall	0.15	0.13	0.10	0.13
•	Non-event	0.17	0.11	0.11	0.14
	Event	0.00	0.25	0.00	0.00
Hindley Street	Overall	0.25	0.10	0.25	0.13
,	Non-event	0.25	0.10	0.25	0.13
	Event	n/a	n/a	n/a	n/a
Hindmarsh	Overall	0.23	0.21	0.25	0.08
Square/Mukata	Non-event	0.25	0.25	0.25	0.25
• •	Event	0.23	0.20	0.25	0.05
Moonta Street	Overall	0.22	0.11	0.25	0.06
	Non-event	0.21	0.07	0.25	0.07
	Event	0.25	0.25	0.25	0.00
North Terrace	Overall	0.23	0.14	0.25	0.18
	Non-event	0.23	0.16	0.25	0.18
	Event	0.25	0.13	0.25	0.25
Peel Street	Overall	0.23	0.11	0.23	0.09
	Non-event	0.23	0.11	0.23	0.09
	Event	n/a	n/a	n/a	n/a
Rundle Place	Overall	0.18	0.08	0.18	0.00
	Non-event	0.17	0.06	0.19	0.00
	Event	0.25	0.25	0.00	0.00
Rundle Street	Overall	0.25	0.08	0.25	0.17
	Non-event	0.25	0.03	0.25	0.15
	Event	0.25	0.05	0.25	0.15
Whitmore	Overall	0.23	0.23	0.25	0.23
Square/Ivarrityi	Non-event	0.18	0.07	0.16	0.16
oqual cytrarricy	Event	n/a	n/a	n/a	n/a

n/a = no events recorded.

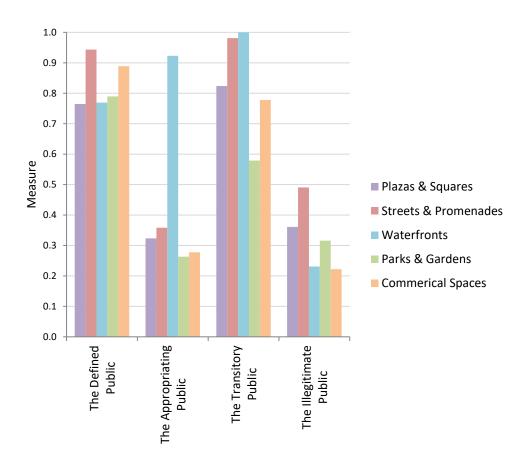


Figure 9-11: Typology of publics presence variation (average) compared with public space typologies during non-event site visits

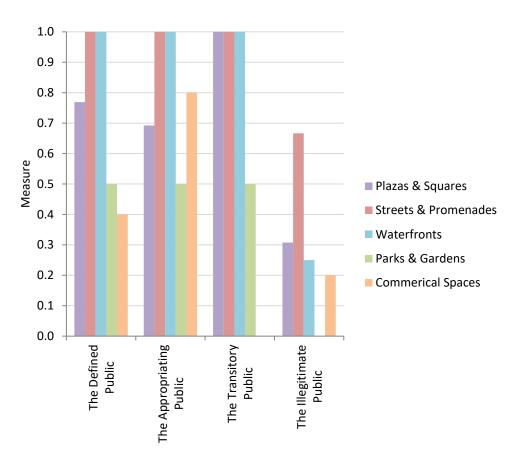


Figure 9-12: Typology of publics presence variation (average) compared with public space typologies during event site visits

The appropriating public consists of individuals or groups who appropriate space for a short period of time (Chapter Five). This public was recorded at all sites except Castle Street. Similarly to the defined public, the presence of the appropriating public was variable throughout the 183 site visits, with no sites recording a constant presence (Table 9-6). This public was typically found at sites during events, which was because of altered site functions during events. This result is demonstrated by Hindmarsh Square/Mukata (m = 0.21 overall, m = 0.25 non-event, m = 0.20 event) and Elder Park (m = 0.24 overall, m = 0.23 non-event, m = 0.25 event), which held the majority of events or had the majority of events in close proximity. The results for Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) are likely to be related to the construction and opening of Adelaide Oval and the Riverbank Pedestrian Bridge (Figure 9-13) during the study timeframe, which increased tourist numbers. Interestingly, no evidence was found to suggest that the presence of the appropriating public was triggered by paid events, rather than free events.

The overall increase of the appropriating public during events (Table 9-6, Figure 9-11, Figure 9-12, Figure 9-14 and Figure 9-15) indicates that specific special activities and temporarily altered site conditions (by public or private bodies) do have a direct link to increased publicness. This suggests again that events could positively contribute to public space. This function and measurable increase in diversity and sheer numbers of people in urban spaces occurs despite concerns still raised by many, including Merx (2011), that public space loses its public 'quality' and is no longer an intimate place to dwell when seen as a place to purchase an experience.

The transitory public are a group who have limited short exposure to public space and other publics (Chapter Five). The presence of the transitory public was also shown to be influenced by events, site function and design. Similarly to the presence of the defined public and the appropriating public, the transitory public was variable throughout the 183 site visits (Table 9-6). Seven case study sites (North Terrace, Rundle Street, Hindley Street, Moonta Street, Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26), Hindmarsh Square/Mukata and Hajek Plaza) recorded a presence at all site visits. The layout of these seven sites facilitated movement through the space during nonevent and event conditions. The importance of thoroughfare and circulation is reinforced by comparing these sites with Gilles Street School (m = 0.00 overall, m = 0.00 non-event, m = 0.00 event) and Glover Playground (m = 0.00 overall, m = 0.00 non-event), which do not facilitate transitory movement and where the presence of the transitory public was not recorded.

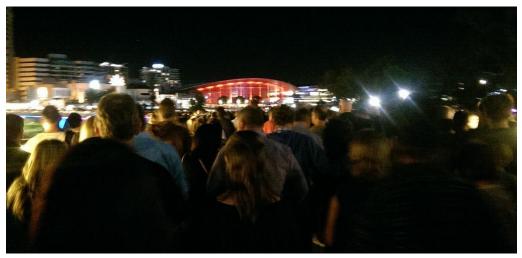


Figure 9-13: Riverbank pedestrian bridge usage after an event at Adelaide Oval. (Photo courtesy of Nicole Arbon 2015)



Figure 9-14: FAD Walking Tour representing appropriation of North Terrace for a study tour of the city. (Photo by author 2015)



Figure 9-15: Mix of defined public (bike riders), appropriating public (users under umbrellas and family in foreground) and transitory users (group walking in background) adjacent to Himeji Gardens during the Studio Ghibli/Espionage Gallery pop-up event.

(Photo by author 2014)



Figure 9-16: Rundle Place during filming of a television commercial, with blocked access and changed movement patterns of the transitory public for the duration of the event.

(Photo by author 2014)



Figure 9-17: Example of transitory public (left) and illegitimate public (right) cohabiting Rundle Street. (Photo by author 2016)



Figure 9-18: Activities considered illegitimate at the time of study because of the location. Bike rider in foreground without a helmet and wedding photos in background without a permit from the City of Adelaide. (Photo by author 2013)

The presence of the transitory public decreased within Commercial Space during events (Rundle Place and Adelaide Central Market). The decreases appear to be related to the layout of events, which changed the pattern of use altering how publics entered or bypassed the sites (for example, Rundle Place during the filming of a television commercial, Figure 9-16, or the Adelaide Central Market hosting Adelaide Fringe Festival events).

There were significant increases in the transitory public for Plazas & Squares (mean of 0.87) and Waterfronts during events (mean of > 0.98). The increases for Plazas & Squares and Waterfronts were likely to be related to the layout of the event elements, which did not change circulation patterns and kept all key transitory movement patterns open. While the transitory public data did present strong trends within the public space typologies, the data suggests that the fluctuation is linked to the function of the case study sites and their design because of the minimal variation between non-event and event conditions (Figure 9-10 to Figure 9-12).

The illegitimate public refers to anyone not deemed acceptable by the majority of other users or the land ownership group (Figure 9-17 and Chapter Five). This public was recorded at all sites except Castle Street, Gilles Street School and inside Rundle Place (Table 9-6). As with the defined public, the appropriating public and the transitory public, the presence of the illegitimate public was variable throughout the 183 site visits, with no sites recording a constant presence. The site visits categorised six types of illegitimate publics: skateboarders, beggars, homeless people (Figure 9-17), smokers, drinkers, bike riders on footpaths and activities conducted without a permit. All types of the illegitimate public were noted in Streets & Promenades. Parks & Gardens saw the greatest variation, with larger numbers of the illegitimate public during non-events. While the illegitimate public data did not present any strong trends, a review of the data suggests that the fluctuation is linked to public space typologies and function of the case study sites. This conclusion is linked to, for example, the constant presence of the illegitimate public in Plazas & Squares compared with all other publics and the minimal variation between non-event and event conditions (Figure 9-10 to Figure 9-12).

<u>Gender</u>

Analysis of gender distribution showed no statistical variance between non-events and events. Therefore, the results are unable to support the conclusion that events positively contribute to public space. Similarly to user age, gender variations were shown to be dependent on public space typologies (Figure 9-19 to Figure 9-21). Higher percentages of females were shown to frequent Commercial Space and Parks & Gardens. Males were shown to frequent Plazas & Squares more often compared with all other public space typologies, with no significant mean variation between Plazas & Squares and Streets &

Promenades (Appendix 4.C). These results are likely to be related to the location of the case study sites and surrounding businesses. Interestingly, a statistical difference between different public space typologies and gender was found only during non-event conditions (Figure 9-20 and Appendix 4.C). No difference was seen for public space typologies during events, suggesting usage is related to activity and therefore, gender preference and gender balance may be addressed by events (Figure 9-21).

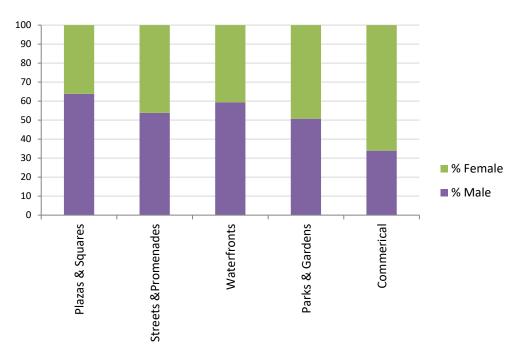


Figure 9-19: Gender variation (%) across all site visits

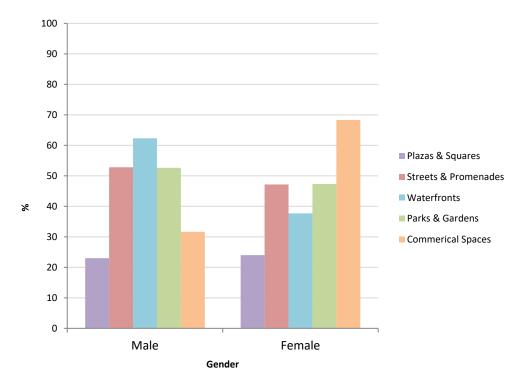


Figure 9-20: Gender variation (%) compared with public space typologies during non-event site visits

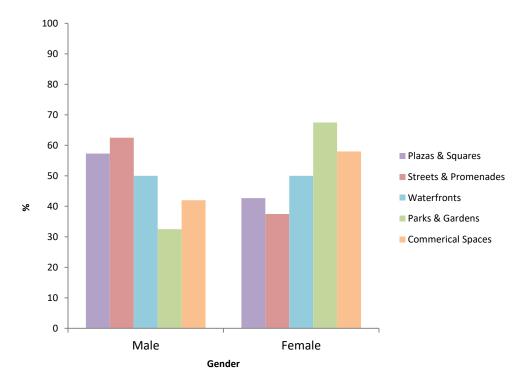


Figure 9-21: Gender variation (%) compared with public space typologies during event site visits

Individuals or group presence

Both individual visitors and groups were recorded at all sites except Glover Playground, for which no individual user visit was recorded. Analysis of presence distribution showed no statistical variance between non-events and events. The results did suggest that the presence of groups increases during events in all public space typologies except for Plazas & Squares where the presence of individuals decreased (Figure 9-22 to Figure 9-24). These findings are insignificant and unable to support the conclusion that events positively contribute to public space.



Figure 9-22: Whitmore Square/Ivarrityi non-event day, minimal to no interaction between groups. (Photo by author 2013)

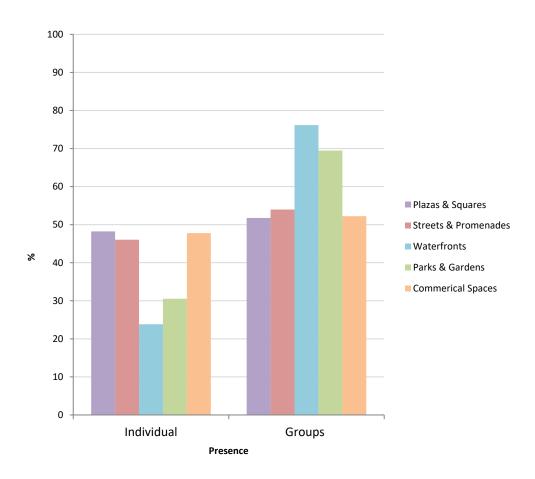


Figure 9-23: Individual or group presence (%) compared with public space typologies during non-event site visits

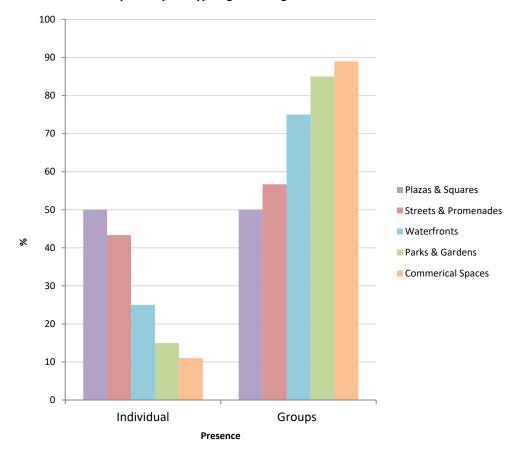


Figure 9-24: Individual or group presence (%) compared with public space typologies during event site visits



Figure 9-25: Whitmore Square/Ivarrityi event day, interaction between individuals and groups during community consultation. (Photo by author 2018, outside study timeframe)

Interaction between users

Analysis of the interaction distribution showed significant statistical variance between non-events and events for interaction between groups (more than two people), suggesting a link between activities and interaction (Figure 9-22, Figure 9-25, Figure 9-26, Figure 9-27 and Appendix 4.C). Therefore, the results support the conclusion that events positively contribute to public space.

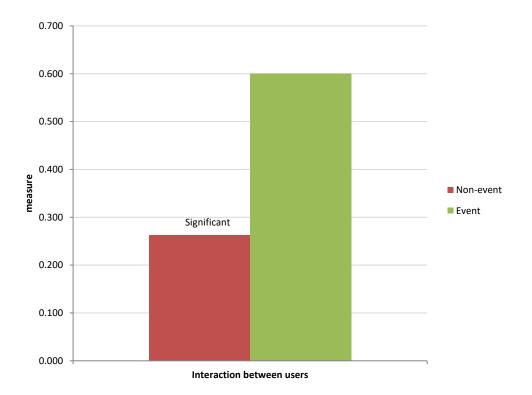


Figure 9-26: Interaction (average) across all site visits

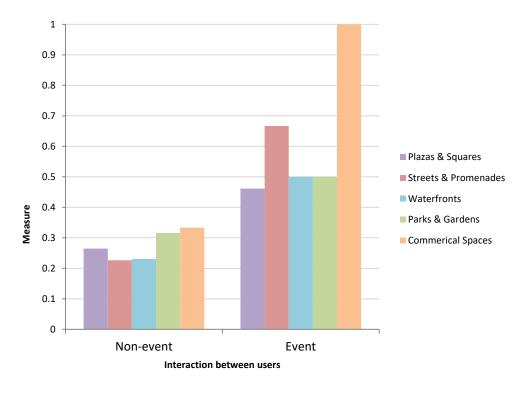


Figure 9-27: Interaction (average) compared with public space typologies

Length of stay

Analysis of the length of stay distribution showed significant statistical variance for non-events compared with events, suggesting a link between activities and interaction (Table 9-7 and Figure 9-28 to Figure 9-30). Publics were observed to stay significantly longer at sites during events and significantly less at sites during non-events. This result may be influenced by the change of site function, because events or activities increased the presence of additional site elements (Section 9.3). This result is supported by the significant difference in the average presence of the appropriating public (refer above), long length of stay (Table 9-7), change of movement patterns (Section 9.6) and a decrease in the number of people passing through (Section 9.5). Events and activities are suggested to be key drivers of increased length of stay for sites, including Parks & Gardens, where length of stay increased and corresponded to usage, for example, Spirited: A Studio Ghibli Inspired Pop-up Exhibition at Himeji Gardens. The results match Mehta's (2007, 2009) research, which reveals that people only linger and engage in any social activities where there are things to do and see.

Table 9-7: Length of stays (non-event vs event) across all site visits

	Non-event (mean)	Event (mean)	p value	Significant
Length of stay short (less than 0.5 hours)	80.62	60.00	0.007	Yes
Length of stay medium (0.5 to 1 hour)	13.94	22.00	0.102	No
Length of stay long (1 hour or greater)	5.44	18.00	0.024	yes

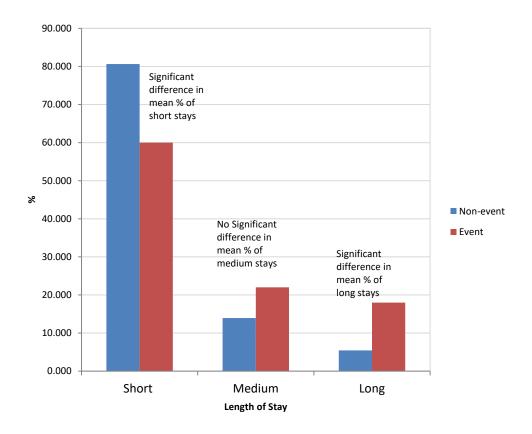


Figure 9-28: Comparison of length of stays (average) across all site visits

In Parks & Gardens and Waterfronts, users were shown to be less likely to stay for short periods and more likely to stay for mid-range periods regardless of the site condition (non-event or event) (Table 9-8, Figure 9-29 and Figure 9-30). Users were more likely to have short stays in Streets & Promenades, which matches their nature as a public space (Chapter Three). Length of stay increased in Commercial Spaces during events, reinforcing the conclusion that events and activities are key drivers of increased length of stay and correspond to usage. The fluctuation of length of stay during events indicates that length of stay has a direct link to public space typologies.

Table 9-8: Length of stays (public space typology) across all site visits

	Plazas & Squares – Average (m)	Streets & Promenades – Average (m)	waterfront – Average (m)	Parks & Gardens – Average (m)	Commercial Space – Average (m)
Length of stay short (less than 0.5 hours)	82.234	91.441	56.765	48.810	69.348
Length of stay medium (0.5 to 1 hour)	11.596	5.254	30.000	48.810	21.304
Length of stay long (1 hour or greater)	6.170	3.305	13.235	48.810	9.348

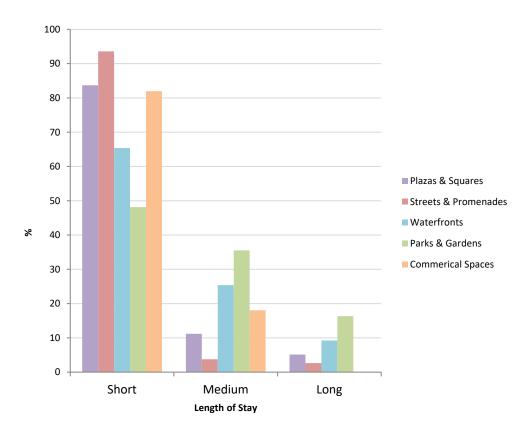


Figure 9-29: Length of stay (%) compared with public space typologies during non-event site visits

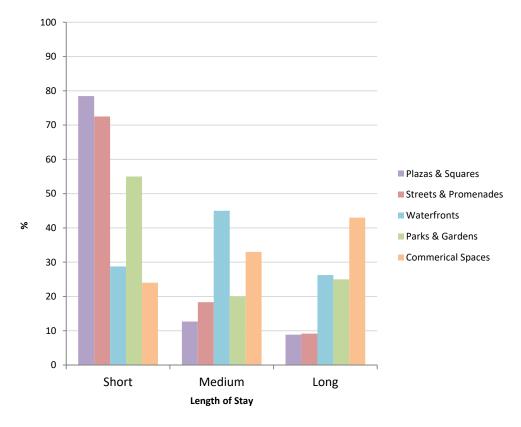


Figure 9-30: Length of stay (%) compared with public space typologies during event site visits

9.2.4 DAF rating summary

The findings for public accessibility measures concluded that events can positively contribute to public space by catering for a broader demographic representation. Land ownership and the temporary change of legal responsibility did not have a direct link to publicness, suggesting that the site itself—its elements, surfaces and activities—has the greatest influence on publicness.

The next section discusses site elements, providing insights into how particular features attract users and encourage site-based activity. These insights indicate which site elements of public space contribute to or erode publicness.

9.3 Site elements and publicness

Assessing the presence of site elements against the DAF rating indicates whether the presence of selected features (additional or permanent) is related to the publicness of public spaces during events and non-events.

Literature reviewed in Part A suggests that site elements are important attractors that encourage use, and are of the utmost importance in engaging publics and increasing their length of stay. Elements include clean and adequate seating (fixed and additional/temporary) such as outdoor café seating, visual complexity through plantings, art, water features, signage, rubbish (litter) bins, drinking fountains, lighting and public transport stops (Cooper Marcus & Francis 1998; Gehl 1987, 2009; Lien 2005; Whyte 1980, 1988; Zacharias, Stathopoulos & Hanqing, 2004). Signage was considered particularly important because it is 'one of the major uses of language in public space' (Gottlieb 2010, p. 323).

Twenty-four element measures were identified to establish the base information for assessment in the Design Assessment Framework:

- Signage;
- Signage (additional);
- Security cameras;
- Security cameras (additional);
- Security presence;
- Security presence (additional);
- Maintenance;
- Maintenance (additional);
- Seating (fixed);
- Seating (additional/loose);
- Public art;

- Public art (additional);
- Public pride;
- Public pride (additional);
- Bins;
- Bins (additional);
- Drinking fountains;
- Lighting;
- Lighting (additional);
- Public transport (access to);
- Food (access to);
- Beverages (access to);
- Barriers (fencing); and
- Other urban furniture.

These 24 measures allowed for systematic observations assessing how public space is used. This assessment measured the visible physical features and amenities, for instance, seating, which can influence the nature and length of interaction. Features include major and minor elements that foster interaction but exclude features such as landform.

For this analysis, site elements have been divided into two groups: 'fixed' and 'additional'. 'Fixed' is defined as a site element designed into the case study space and fixed in place, for instance, a bench seat. 'Additional' is defined as site elements brought into the case study space for a limited time, for instance, removable outdoor dining furniture (seating), which changes the use or function of the site, or items specifically brought in for events such as bins.

The following subsections present the findings and provide insights into how features attract users and encourage site-based activity allowing analysis of interventions during events and non-events. The first analysis of site elements compared the DAF rating of the 16 case study sites with the site elements score. The second analysis divided data into the conditions of non-event and event to determine if additional site elements contribute to or erode the publicness of a site. Here, the results varied, indicating that additional site elements did have a direct link to increased publicness. The third analysis reviewed each of the 24 site elements to determine if any individual measure had more bearing on the DAF rating.

9.3.1 Site element findings and discussion

286 - Chapter Nine

Data from the 183 site visits to the 16 case study sites were examined to determine a site element score for each site. This was compared with the DAF rating determined in Section 9.2, as shown in Table 9-9 (refer to Appendix 4.A and Appendix 4.B for additional information). Site elements were scored out of

24 (15 fixed elements and nine additional elements). A total combined site element score of 24 indicated the assessed public space contained all 24 measures (site elements). A score of 0 indicated the space did not contain any measures. Accordingly, higher scores indicated a greater number of elements within each case study site.

No case study site achieved a total score of 24. Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) and Moonta Street achieved the highest score of 18 on one site visit (refer Figure 9-31 and Appendix 4.A for breakdown of each site visit). Hindley Street was the most consistent with regard to site elements, with total scores of 14 and 15 (m = 14.20), indicating that the street design had little variation throughout the study.

A comparison of the DAF rating and site elements for individual case study sites did not indicate a statistical link between site elements and publicness. The results for Gilles Street School suggest there may be a link between site elements and erosion of publicness for events creating commercial spaces, noted by a low DAF rating (m = 2.58) and high site element score (m = 10.33, m = 9.17, m = 1.17). Comparisons of DAF ratings and site elements when conditions (event and non-event) were combined did not indicate whether fixed or additional site elements contributed more to publicness (Table 9-9) or noted fluctuation in the publicness of each case study site.



Figure 9-31: Moonta Street during the Lunar New Year Street Party. (Photo by author 2013)

Table 9-9: DAF rating of case studies sites (ranked least to most public) compared with site elements across all site visits

Case study site	Publicness Average (m)	Site elements – combined Average (m)	Site elements – fixed Average (m)	Site elements – additional Average (m)
Castle Street	2.18	4.36	4.36	0.00
Gilles Street School	2.58	10.33	9.17	1.17
Glover Playground	3.05	7.00	6.75	0.25
Whitmore Square/Ivarrityi	3.63	8.18	7.64	0.55
Himeji Gardens	3.70	4.90	3.90	1.00
Rundle Place	3.82	10.80	7.90	2.90
Peel Street	4.11	9.19	6.88	2.31
Hajek Plaza	4.22	8.21	7.50	0.71
North Terrace	4.26	10.27	10.00	0.27
Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26)	4.75	13.18	11.65	1.53
Adelaide Railway Station	4.88	11.25	10.58	0.67
Adelaide Central Market	4.88	11.92	10.31	1.62
Hindley Street	4.97	14.20	12.20	2.00
Hindmarsh Square/Mukata	5.28	12.08	9.50	2.58
Rundle Street	5.34	12.31	10.15	2.15
Moonta Street	5.58	10.78	8.89	1.89

9.3.2 Site elements findings and comparison between nonevent and event conditions

How fixed or additional site elements contribute to fluctuation in the publicness of spaces becomes clearer when comparing the DAF rating and site elements during non-event and event conditions (Table 9-10, Table 9-11). A review of non-event site visits indicates that fixed and additional elements have little bearing on the publicness of public space. Conversely, a review of event site visits indicates a correlation between additional site elements and the publicness of public space. As shown for Himeji Gardens, the correlation is clear, with the DAF rating increasing from m = 3.42 to m = 6.25 and site elements increasing from m = 0.33 to m = 7. This supports the conclusion in Section 9.2 that temporary interventions can positively contribute to public space.

Comparisons of site elements, the DAF rating and public space typologies suggest that site elements (combined, fixed and additional) contribute to the publicness of all typologies except Commercial Spaces (Table 9-9). A review of typologies reveals a trend of greater publicness as site elements (combined, fixed and additional) increased. This was shown by the scores for Streets &

Promenades case study sites, with Peel Street (m = 9.19 site element score) being the least public (low DAF rating) and Moonta Street (m = 10.78 site element score) being the most public (high DAF rating).

As one might expect, based on Mehta (2007), Project for Public Space (2009) and Whyte (1980) (previous chapters), more site elements resulted in more users. What was not expected was that additional site elements resulted in a greater diversity of publics. A significant increase in the visibility of the illegitimate, the appropriating and the transitory publics during events was found. This is different from the findings of Whyte (1980), which suggest that the illegitimate public is discouraged from using spaces with temporary site elements.

The diversity of publics noted during the study timeframe suggests events that successfully co-exist with everyday activities—spatially, operationally and experientially—and include additional site elements for use by the public allow for a greater diversity of publics to respond to public space within social norms, if spatially and operationally compatible. Conversely, the results suggest that events outside of expected social norms negatively affect diversity, as shown by the Commercial Spaces results.

Table 9-10: DAF rating of case studies sites (ranked least to most public) for non-event site visits compared with site elements

Case study site	Publicness – non-event Average (m)	Site elements – combined Average (m)	Site elements – fixed Average (m)	Site elements – additional Average (m)
Gilles Street School	0.25	8.67	8.67	0.00
Castle Street	2.00	4.30	4.30	0.00
Glover Playground	3.05	7.00	6.75	0.25
Himeji Gardens	3.42	3.78	3.44	0.33
Rundle Place	3.58	10.22	7.78	2.44
Whitmore Square/Ivarrityi	3.63	8.18	7.64	0.55
Hajek Plaza	3.98	7.00	6.64	0.36
Peel Street	4.11	9.19	6.88	2.31
North Terrace	4.21	10.10	9.90	0.20
Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26)	4.56	12.23	11.38	0.85
Adelaide Central Market	4.77	11.58	10.08	1.50
Adelaide Railway Station	4.88	11.25	10.58	0.67
Rundle Street	4.94	10.70	9.40	1.30
Hindley Street	4.97	14.20	12.20	2.00
Moonta Street	5.56	9.71	8.43	1.29
Hindmarsh Square/Mukata	6.75	9.00	9.00	0.00

Table 9-11: DAF rating of case studies sites (ranked least to most public) for event site visits compared with site elements

Case study site	Publicness – event Average (m)	Site elements – combined Average (m)	Site elements – fixed Average (m)	Site elements – additional Average (m)
Castle Street	4.00	5.00	5.00	0.00
North Terrace	4.75	12.00	11.00	1.00
Gilles Street School	4.92	12.00	9.67	2.33
Hindmarsh Square/Mukata	4.98	12.70	9.60	3.10
Hajek Plaza	5.08	12.67	10.67	2.00
Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26)	5.35	16.25	12.50	3.75
Moonta Street	5.67	14.50	10.50	4.00
Rundle Place	5.92	16.00	9.00	7.00
Adelaide Central Market	6.17	16.00	13.00	3.00
Himeji Gardens	6.25	15.00	8.00	7.00
Rundle Street	6.67	17.67	12.67	5.00
Hindley Street	n/a	n/a	n/a	n/a
Peel Street	n/a	n/a	n/a	n/a
Whitmore Square/Ivarrityi	n/a	n/a	n/a	n/a
Adelaide Railway Station	n/a	n/a	n/a	n/a
Glover Playground	n/a	n/a	n/a	n/a

n/a = no events recorded.

9.3.3 Site elements review

The following subsection outlines the third analysis of site elements. The 24 measures are analysed to determine if site elements are a variable to determine the publicness of public space, if an individual element had a bearing on publicness and if events positively contribute to public space, as anticipated in section 9.2. This analysis divided site elements into two separate groups—the condition of non-event and the condition of event.

This subsection assesses whether the selected features attract users and encourage site-based activity. This allows analysis of interventions during non-events and events. The results will provide landscape architects with the following:

- elements that are attractors to sites and elements that are detractors;
 and
- specific features associated with increased use.

Table 9-12 (next page) presents the average presence of the elements during the site visits along with the standard deviations. Average presence ranged from a high of 1.0 (present on all sites visits) to a low of 0.1 (present on one site visit). As shown in Figure 9-32 and Figure 9-33, there was variation between the presence of individual elements in non-event conditions (Figure 9-32) and event conditions (Figure 9-33). The presence of seating-additional, for instance, fluctuated throughout the site visits; during non-event conditions the average presence was 0.3 (min = 0.0 max = 1.0) whereas during event conditions the average presence was 0.6 (min = 0.0 max = 1.0). The average presence illustrated a trend of additional elements contributing to the publicness of event conditions. This trend does not provide sufficient evidence that the elements alone accounted for increased publicness or if there is a clear link between public space typologies, site element and publicness.

Table 9-12: Comparison of presence of site elements during non-events and events site visits

Site elements					
	Site elements – non-events Average (m)	Site elements – events Average (m)	Standard deviation (SD) – Non-events	Standard deviation (SD) – Events	Significance (p*)
Barriers (fencing)	0.4	0.7	0.36	0.39	0.011*
Beverages (access to)	0.4	0.7	0.42	0.38	0.003*
Bins	0.8	0.8	0.38	0.40	0.018*
Bins (additional)	n/a	0.3	n/a	0.32	0.001*
Drinking fountains	0.3	0.4	0.47	0.32	0.005*
Food (access to)	0.4	0.7	0.42	0.38	0.011*
Lighting	0.9	1.0	0.34	0.03	0.037
Lighting (additional)	0.0	0.4	0.11	0.39	0.000*
Maintenance (additional)	0.0	0.3	0.06	0.38	0.003*
Maintenance	0.2	0.2	0.25	0.33	0.220
other - amenities	0.5	0.9	0.26	0.12	0.000*
Public art	0.8	0.8	0.37	0.41	0.011*
Public art (additional)	0.0	0.4	0.12	0.42	0.011*
Public pride	0.3	0.4	0.41	0.41	0.179
Public pride (additional)	n/a	n/a	n/a	n/a	n/a
Seating (fixed)	0.8	1.0	0.34	0.15	0.001*
Seating (additional)	0.3	0.6	0.40	0.44	0.023*
Security cameras	0.6	0.6	0.47	0.49	0.025*
Security cameras (additional)	0.0	0.1	n/a	0.30	0.326
Security presence	0.2	0.4	0.37	0.44	0.346
Security presence (additional)	0.1	0.6	0.21	0.37	0.000*
Signage	1.0	1.0	0.03	0.00	0.319
Signage (additional)	0.3	0.7	0.32	0.42	0.001*
Transport (access to)	0.6	0.5	0.37	0.51	0.299

^{*}Significant at 0.01 level; n/a = no data recorded.

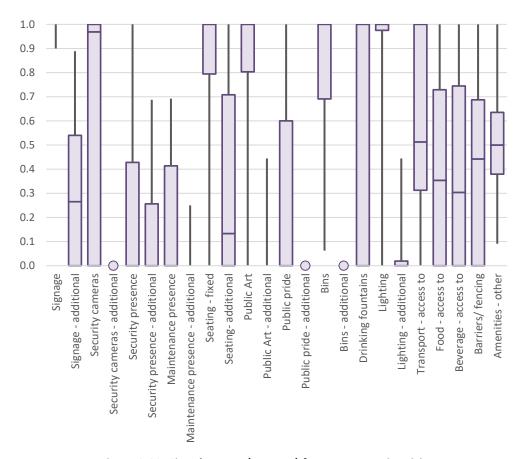


Figure 9-32: Site elements (average) for non-event site visits

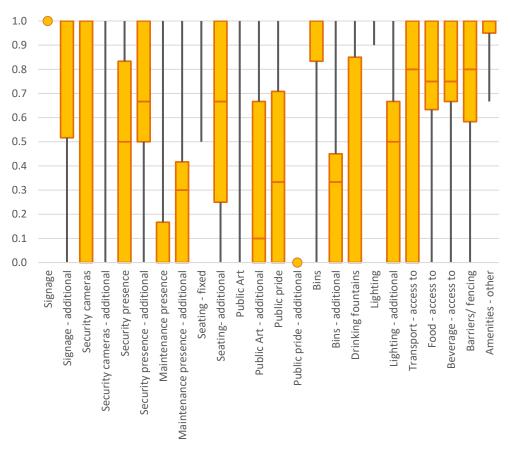


Figure 9-33: Site elements (average) for event site visits

Analysis of the site elements across all site visits (153 non-event visits and 30 event visits) expressed the variability of site elements in case study sites. As shown in Table 9-12, the standard deviation, calculated to quantify the amount of variation, confirms that site element presence was not consistent across all sites, with the presence of individual elements varying between non-events and events. A lower standard deviation indicates less variation in presence recorded. For most elements, the variation for both conditions was similar. The variation for elements that are typically site-specific, such as barriers, was high (0.36) whereas the variation for common elements such as signage was low (0.0). When additional elements were compared with the related fixed elements (non-additional), the variation typically decreased (excluding lighting and signage), indicating additional elements are more consistently present and variable during events, which may be because of the differing natures of the events.

T-tests on the presence values of site elements during events and site elements during non-events were conducted to determine whether a statistically significant difference existed between the averages (m). The magnitude of the significance of the difference indicates the strength of the relationship between individual site elements and the difference between the conditions (event and non-event) (Table 9-12).

For site elements considered fixed, minimal to no significant difference exists between the two types of conditions, with the significance difference typically greater than p > 0.01 (Table 9-12). This indicates that events did not influence the presence of fixed elements. The results for additional site elements did have clear significant differences between the two types of conditions, with the significance difference typically p < 0.01, excluding security cameras-additional, where presence was not recorded during events. The statistically significant differences suggest there is a relationship between the additional site elements and event conditions.

The DAF rating was typically higher for event conditions. This is supported by research, which states that users are more likely to visit during changed conditions. It also supports the conclusion in Section 9.2 that temporary interventions can positively contribute to public space.

The site elements are discussed individually below, including the comparison with the DAF rating, which was used to determine the influence of the elements on the publicness. The tables of average presence compared with the DAF rating for both conditions are provided in Appendix 4.B.

Barriers

An analysis of barriers showed there was a statistically significant difference in average presence between conditions, with barriers more likely to be present during events. The results had a bi-modal distribution when compared with the DAF rating and considering all conditions combined. Strong trends were not evident. Barrier presence appears to decrease with publicness during non-events (Figure 9-34) and slightly increase with publicness during events (Figure 9-35). Because barriers influence events and non-events differently, further investigation is required to determine if the barriers are influential and whether they are attractors, detractors or linked to increased use.

Beverages and Food (access to)

Access to beverages and food included food trucks (Figure 9-36), pop-ups (Figure 9-37 and Figure 9-38) and cafés within or in proximity (directly adjacent) to the case study sites. The analysis showed there was a statistically significant difference in average presence between conditions with beverages and food, with a greater presence during events—most likely because of additional temporary food vendor options. There is a clear trend indicating that greater accessibility to beverages and food is linked to increased publicness. This is consistent with research that shows that beverage and food accessibility leads to a consumer environment that is linked to longer stays. Therefore, it is concluded that beverage and food access is a variable that should be measured when determining the publicness of a site or event. Further investigation is required to confirm the style of beverage option that has a greater link to publicness.

Bins

There was a statistically significantly greater presence of bins during events (Figure 9-38 and Figure 9-39). This is consistent with City of Adelaide event permits, which require additional bins to be provided. The number of bins is directly related to the maximum number of attendees. No trends were noted for publicness and the review of bins was unable to determine whether bins are an attractor, detractor or linked to increased use. Further investigation is required to determine how or if there is a link between bins and publicness.

Drinking fountains

An analysis of drinking fountains presents unusual yet statistically significant differences in average presence results. The presence of drink fountains was recorded in seven case study sites during non-events, and reduced to five during events. This might have resulted from event setup that blocked access to (sight of) drink fountains. The results superficially indicate that the lack of drinking fountains during event conditions is related to an increase in publicness. Further investigation is required to confirm if there is a link between drink fountains and publicness.

Lighting

Lighting was present at all case study sites except Himeji Gardens and Glover Playground. The absence of lighting in these two locations is a strategic decision of the City of Adelaide to minimise afterhours use. The analysis showed that there is a statistically significant difference in the average presence of lighting (fixed and additional), with additional lighting present during events (Figure 9-40 and Figure 9-41). Fixed lighting results presented no trends or clear relationships when compared with the DAF rating and considering all conditions. This result is because of presence or absence of lighting being consistent across all sites during all site visits.

Additional lighting presence increases with publicness for the event condition. This trend is strong, indicating additional lighting is a variable to be considered for increasing the publicness of public spaces during events. This may translate into increased publicness for non-event public spaces. The noted trend in the data may be because of timing and type of events and which events occurred during the study period. For instance, no events occurred at Gilles Street School after hours requiring lighting. These findings suggest additional lighting can be a positive attractor to public spaces as a temporary intervention.

<u>Maintenance</u>

Minimal average presence was recorded for maintenance (fixed, Figure 9-42 and Figure 9-43). The minimal recording may be because of maintenance activities occurring prior to or after site visits, which were therefore not covered as part of the study. The analysis showed a statistically significant difference in average presence (fixed and additional), with additional maintenance more likely to be present during events and fixed maintenance more likely to be present during non-events. These results were as expected and consistent with City of Adelaide daily maintenance programs. Strong trends were not apparent. Additional maintenance appears to increase with publicness for the event condition. No trends were noted for fixed maintenance because of the minimal average presence recorded. These finding are minimal and unable to support the conclusion that maintenance positively contributes to public space.

Other amenities

Other amenities were included to identify if site elements had been missed in the design of the DAF. No additional amenities were identified.

Public art

Public art (fixed and additional) was dependent on the site and public space typology. The analysis showed a statistically significant difference in the average presence between conditions, with public art (fixed and additional) more likely to be present during events, most likely because of the type of

events occurring during the site assessment timeframe. Fixed public art presence results showed no trends or clear relationships when compared with DAF rating and considering all conditions. This result is because of the presence or absence of fixed public art being consistent across all sites during all site visits.

Additional public art presence appears to increase with publicness of the event condition (Figure 9-41). This trend indicates additional public art is a variable to be considered for increasing publicness during event conditions, suggesting that additional public art can be a positive attractor to public spaces as a temporary intervention. The role of public art as an attractor is supported by research, which states that users are more likely to visit during changed conditions, with public art acting as a drawcard or the event itself. The Oi You! Urban Art Festival (August 2013) in Hajek Plaza is one example of public art becoming the event. This festival consisted of exhibitions and film screenings in Hajek Plaza, street art tours and a series of large-scale murals painted around Adelaide.

Public pride

Recorded instances of public pride were minimal and unable to be statistically analysed. Further investigation is required to determine how or if there is a link between public pride and publicness.

Seating

Fixed seating was present at all sites except Peel Street (Figure 9-44) and at comparable levels during all site visits except Moonta Street. Additional seating was present at all sites except Castle Street and Hajek Plaza, with greater variation in numbers and presence. Analysis of seating (fixed and additional) showed a statistically significant difference in average presence between conditions, with greater presence of additional seating during events—most likely because of temporary interventions of food vendors during events and outdoor dining permits (Figure 9-45). No trends were noted for publicness compared with fixed seating. For additional seating, a clear trend emerged, with the DAF rating increasing as the seating increased. This indicates that additional seating is a variable influencing publicness. This result may be in part due to the presence of outdoor dining—as seen with the results for Peel Street and Rundle Street—which have significantly more seating (- additional then seating – fixed). These findings suggest that extra additional seating can be an attractor to public spaces and is a variable associated with increased use. Because additional seating influences both events and non-events, further investigation is required to determine if the seating characteristics stated by Whyte (1980) are influential as an attractor, detractor or linked to increased use.



Figure 9-34: Barrier installed on North Terrace for an evening at the Art Gallery of South Australia. (Photo by author 2017)



Figure 9-35: Barrier installed outside (Stella Bowen Park/Tarntanya Wama, Park 26) to distinguish access between two events, Carols by Candlelight (free public event) and Christmas Proms (ticketed private event). (Photo by author 2018)



Figure 9-36: Food trucks in (Stella Bowen Park/Tarntanya Wama, Park 26) during Tour Down Under. (Photo by author 2013)



Figure 9-37: Pop-up coffee vendor on North Terrace during Tour Down Under. (Photo by author 2013)



Figure 9-38: Additional bins and beverage access in Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) during the Neil Finn free open-air concert.

(Photo by author 2017)



Figure 9-39: Additional bins installed in Himeji Gardens for the Studio Ghibli/Espionage Gallery pop-up event. (Photo by author 2014)



Figure 9-40: Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) event lighting during the 2017 Neil Finn free open-air concert during the Adelaide Festival. Ambient lighting in the background and feature wayfinding lighting in foreground.

(Photo by author 2017)



Figure 9-41: Combined temporary lighting and public art on North Terrace during the Adelaide Festival. (Photo by author 2018)



Figure 9-42: Maintenance activities in (Stella Bowen Park/Tarntanya Wama, Park 26). (Photo by author 2014)

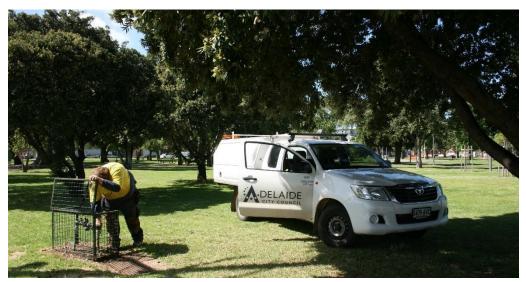


Figure 9-43: Maintenance activities in Whitmore Square/Ivarrityi. (Photo by author 2013)



Figure 9-44: Outdoor dining seating in Peel Street during a non-event day. (Photo by author 2019)



Figure 9-45: Additional seating in Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) during Tour Down Under. (Photo by author 2013)

Security cameras

Security cameras were present at 11 of the 16 case study sites. The analysis showed a statistically significant difference in the average presence, with a greater presence during non-event conditions (Figure 9-46). This result was unexpected and might have been caused by event setup that blocked sight of security cameras. No trends were noted for the DAF rating. The review of security cameras was unable to determine whether security cameras are an attractor, detractor or linked to increased use.

Recorded instances of additional security cameras were minimal and unable to be statistically analysed.

Security presence

Security presence (fixed and additional) was site-dependent. The analysis showed there was a statistically significant difference in the average presence of additional security between conditions, with additional security being more likely during events (Figure 9-47). There is a clear trend indicating that a greater security presence (fixed and additional) was linked to increased publicness during events. This is consistent with research, which shows that the presence of security (guards or police) can act as a deterrent for unwanted or illegitimate behaviour, thereby ensuring the space is safe and secure. Security presence (fixed and additional) is confirmed as a variable that should be measured when determining the publicness of a site or event. This finding suggests that an additional security presence can be a positive attractor to public spaces and is a variable associated with increased use. Further investigation is required to determine which security characteristics, or the degree of security presence, act as an attractor, detractor or are linked to increased use.

<u>Signage</u>

Fixed signage was recorded at all sites during the 183 site visits, with no variation. A review of fixed signage was unable to determine whether signage was an attractor or detractor or linked to increased use (Figure 9-48). Additional signage was site-dependent, with none recorded at Castle Street and Glover Playground. The analysis showed a statistically significant difference in average presence between conditions with additional signage having a greater presence during events. This is consistent with City of Adelaide event permits, which require appropriate levels of signage, except as a means of marketing for events and except as means of appropriating space within the case study sites (Figure 9-48 and Figure 9-49). There is a clear trend indicating that the DAF rating increases when additional signage is present. This trend has strong links to events, where the amount of signage was significantly greater than during non-events. These findings suggest that additional signage can be an attractor to public spaces and is confirmed as a variable associated with increased use. Given that additional signage influences both events and non-events

differently, further investigation is required to determine which signage characteristics act as an attractor, detractor or are linked to increased use.

Transport (access to)

No trends or statistically significant differences in average presence were noted for publicness and transport. An analysis of transport was unable to determine whether access options were an attractor or detractor or linked to increased use. Transport access was site-dependent, with sites that had mixed transport options recording higher DAF ratings. Further investigation is required to determine which transport options (bus, car, bike) increase publicness.



Figure 9-46: Security camera signage on Hindley Street. (Photo by author 2019)



Figure 9-47: Additional security presence during the Neil Finn free open-air concert in Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) as part of the 2017 Adelaide Festival. (Photo by author 2017)



Figure 9-48: Right: Event signage on Rundle Street providing advance notice for pedestrians and vehicles. (Photo by author 2018). Left: Regulatory signage adjacent to Rundle Street in a popular busking area. (Photo by author 2019)



Figure 9-49: Advanced notice event signage placed throughout Adelaide CBD to highlight road closures in place for the annual Zombie Walk between 2014 and 2019. Signs were located on case study sites, North Terrace and Rundle Street. (Photo by author 2019)

9.3.4 Site elements summary

This subsection highlighted a variation in the role of site elements during nonevents and events and the influence of additional elements on public space. The above analysis determined that additional site elements had a bearing on publicness and that events positively contributed to public space.

The findings revealed a positive relationship between the independent variables of additional site elements and publicness, as shown by a clear trend indicating that additional elements are variables associated with increased use. For instance, seating was an attractor, with additional seating linked to more users. The results indicate that additional site elements sustain interest more

effectively than standard layouts, with publics staying longer at sites with more items.

The analysis concluded that the selected 24 measures are variables influencing the publicness of public space. This study would have benefited by including the physical condition of the elements; however, this would have required a high degree of judgement and the results not have been replicable.

The next section discusses site surfaces and structures, providing insights into how particular features attract users and encourage site-based activity, allowing analysis of interventions during events and non-events. These insights suggest which site surfaces and structures contribute to or erode publicness.

9.4 Site surfaces, structures and publicness

Assessing the presence of site surfaces and structures against the DAF rating indicates whether the presence of selected features (temporary or permanent) is related to the publicness of public spaces during events and non-events.

Thirteen site surface and structure measures were identified to establish the base information for assessment using the Design Assessment Framework (Chapter Seven). The measures are typical surfaces and structures found within public space, influencing usability and user quality of life. The 13 measures allowed for systematic observations assessing how public space is used. They include:

- Paving;
- Paving (additional);
- Gardens;
- Gardens (additional);
- Lawn;
- Lawn (additional);
- Shade (vegetation);
- Shade (vegetation, additional);
- Shade (built);
- Shade (built, additional);
- Water;
- Water (additional); and
- Other surface changes.

This assessment measured visible surfaces and structures. Features included major and minor surfaces and structures that foster interaction but exclude features such as topography (mounds, cliffs) and built form (architecture, for instance, buildings). Topography and built form are acknowledged as an

integral component within urban public space and considered a constant attractor to destinations. Consequently, they were excluded from the assessment. Temporary site surfaces and structures, such as marquees (shade, built, additional), rugs (paving, additional) for events (Figure 9-50) and umbrellas for outdoor dining, were included.



Figure 9-50: Example of additional surfaces and structures provided in Whitmore Square/Ivarrityi for a community consultation event in 2018. Items were selected to engage the community and promote interaction. (Photo by author 2018)

The following subsections present the findings and provide insights into how particular surfaces and structures attract users and encourage site-based activity, allowing analysis of interventions during events and non-events. The first analysis of site surfaces and structures compared the DAF rating of the 16 case study sites with the surface and structure scores. The second analysis divided data into the non-event and event conditions to determine whether additional surfaces and structures contribute to or erode the publicness of a site. The third analysis reviewed each of the 13 site surfaces to determine whether any individual measure had more bearing on the DAF rating.

9.4.1 Site surfaces, structures findings and discussion

For the first analysis, the 16 case study sites and 183 site visits were assessed to determine a site surface and structure score for each site. This was compared with the DAF rating determined in Section 9.2, as shown in Table 9-13 (refer to Appendix 4.A and Appendix 4.B for additional information). Site surfaces and structures were scored out of 13 (seven fixed and six additional/temporary surfaces and structures).

Minimal variation was noted in the data, indicating that surfaces and structures remained constant throughout the study. A total score of 13 indicated the

assessed public space contained all 13 measures (site surfaces and structures). A score of 0 indicated that the space did not contain any measures. Accordingly, higher scores indicate a greater number of surfaces and structures within each case study site.

Table 9-13: DAF rating of case study sites (ranked least to most public) compared with site surfaces and structures across all site visits

Case study site	Publicness Average (m)	Site surfaces and structures – combined Average (m)	Surfaces and structures – fixed Average (m)	Surfaces and structures – additional Average (m)
	Pub Ave	Site stru Ave	Surfa fixed Avera	Surf addi Ave
Castle Street	2.18	3.00	3.00	0.00
Gilles Street School	2.58	5.83	4.63	0.13
Glover Playground	3.05	4.75	4.63	0.13
Whitmore Square/Ivarrityi	3.63	4.45	4.45	0.00
Himeji Gardens	3.70	6.90	6.80	0.10
Rundle Place	3.82	2.00	2.00	0.00
Peel Street	4.11	1.00	1.00	0.00
Hajek Plaza	4.22	2.21	2.21	0.00
North Terrace	4.26	5.18	5.18	0.00
Elder Park (Stella Bowen Park/Tarntanya	4.75	5.59	5.29	0.29
Wama, Park 26)				
Adelaide Railway Station	4.88	2.00	2.00	0.00
Adelaide Central Market	4.88	2.31	2.00	0.31
Hindley Street	4.97	2.70	2.00	0.70
Hindmarsh Square/Mukata	5.28	5.50	4.33	1.17
Rundle Street	5.34	3.38	3.08	0.31
Moonta Street	5.58	2.22	2.00	0.22

No case study site achieved a total score of 13 at any site visit throughout the study timeframe. Events held in 2018 in Whitmore Square/Ivarrityi (Figure 9-50) and Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) Figure 9-40) would have achieved a score of 13.

During the study timeframe, Himeji Gardens (m = 6.90) achieved the highest score of eight on one site visit (Table 9-13 and Appendix 4.A for breakdown of each site visit). Peel Street (m = 1.00) noted no variation or change of surfaces scoring a one at all site visits. A review of the case studies sites did not indicate a correlation between surfaces and structure and the publicness of public space, suggesting that these variables do not contribute to the fluctuation in how public each case study site is and the publicness of public space typologies.

Unlike amenities, comparisons of site surface and structure scores, the DAF rating and public space typologies do not suggest that site surfaces and structures (combined fixed and additional) contribute to the publicness of public space (Table 9-13, Appendix 4.A and Appendix 4.B). No trends or patterns were discerned linking surfaces and structures to public space typologies. Further review of the individual components is required.

Comparisons of the DAF rating and site surfaces and structures, divided into combined, fixed and additional, did not indicate whether fixed or additional site surfaces contributed more to publicness or the noted fluctuation in how public each case study site was and how public the assessed public space typologies were.

9.4.2 Site surfaces findings and comparison between nonevent and event conditions

The comparison of the DAF rating and site surfaces and structures (divided into combined, fixed and additional) during non-events and events did not indicate whether fixed or additional site surfaces and structures contribute to publicness (Table 9-14 and Table 9-15).

This second analysis of site surfaces and structures did not support the Section 9.2 expectation that temporary interventions can positively contribute to public space. This conclusion may be associated with the minimal to no changes in surface and structure during the 183 site visits. The results were expected to differ for sites where surfaces and structures did vary throughout the year, which had greater weather pattern deviations and consistently held major events. Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) is one example that, since the data collection closed, has seen temporary garden beds, trees, stages, ice rinks, pavilions, roadways and public toilets installed. The temporary surfaces and structures dramatically altered the existing site and patterns of use. Future research would be required to reassess how surfaces and structures contribute to public space.

Table 9-14: DAF rating of case study sites (ranked least to most public) for non-event site visits compared with site surfaces and structures

Case study site	Publicness – non-event Average (m)	Site surfaces and structures – combined Average (m)	Surfaces and structures – fixed Average (m)	Surfaces and structures – additional Average (m)
Gilles Street School	0.25	5.33	5.33	0.00
Castle Street	2.00	3.00	3.00	0.00
Glover Playground	3.05	4.75	4.63	0.13
Himeji Gardens	3.42	6.78	6.78	0.00
Rundle Place	3.58	2.00	2.00	0.00
Whitmore Square/Ivarrityi	3.63	4.45	4.45	0.00
Hajek Plaza	3.98	2.00	2.00	0.00
Peel Street	4.11	1.00	1.00	0.00
North Terrace	4.21	5.10	5.10	0.00
Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26)	4.56	5.62	5.31	0.31
Adelaide Central Market	4.77	2.33	2.00	0.33
Adelaide Railway Station	4.88	2.00	2.00	0.00
Rundle Street	4.94	3.30	3.10	0.20
Hindley Street	4.97	2.70	2.00	0.70
Moonta Street	5.56	1.86	1.86	0.00
Hindmarsh Square/Mukata	6.75	6.00	5.00	1.00

Table 9-15: DAF rating of case study sites (ranked least to most public) for event site visits compared with site surfaces and structures

Case study site	Publicness – event Average (m)	Site surfaces and structures – combined Average (m)	Surfaces and structures – fixed Average (m)	Surfaces and structures – additional Average (m)
Castle Street	4.00	3.00	3.00	0.00
North Terrace	4.75	6.00	6.00	0.00
Gilles Street School	4.92	6.33	5.67	0.67
Hindmarsh Square/Mukata	4.98	5.40	4.20	1.20
Hajek Plaza	5.08	3.00	3.00	0.00
Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26)	5.35	5.50	5.25	0.25
Moonta Street	5.67	3.50	2.50	1.00
Rundle Place	5.92	2.00	2.00	0.00
Adelaide Central Market	6.17	2.00	2.00	0.00
Himeji Gardens	6.25	8.00	7.00	1.00
Rundle Street	6.67	3.67	3.00	0.67
Hindley Street	n/a	n/a	n/a	n/a
Peel Street	n/a	n/a	n/a	n/a
Whitmore Square/Ivarrityi	n/a	n/a	n/a	n/a
Adelaide Railway Station	n/a	n/a	n/a	n/a
Glover Playground	n/a	n/a	n/a	n/a

n/a = no events recorded.

9.4.3 Site surfaces and structures review

The following subsection outlines the third analysis of site surfaces and structures. The 13 measures were analysed to determine whether site surfaces and structures are a variable to determine the publicness of public space, whether any individual measures have a bearing on publicness and whether events positively contribute to public space.

This subsection assesses how particular surface features attract users and encourage site-based activity. This allows analysis of interventions during non-events and events. The results will provide landscape architects with the following:

- specific features that are associated with increased use; and
- specific features that are associated with diverse staying activities.

Table 9-16: Descriptive comparison of presence of statistics of site surfaces and structures during non-event and event site visits

Surfaces and structures	Surfaces and structures – non-events Average (m)	Surfaces and structures – events Average (m)	standard deviation (SD) – non-events	Standard deviation (SD) – events	Significance (p*)
Gardens	0.6	0.8	0.49	0.41	0.000*
Gardens (additional)	n/a	n/a	n/a	n/a	n/a
Lawn	0.1	0.4	0.47	0.49	0.038*
Lawn (additional)	n/a	n/a	n/a	n/a	n/a
Other	0.2	0.4	0.32	0.39	0.159
Paving	1.0	1.0	0.0	0.0	n/a
Paving (additional)	0.0	0.0	0.06	0.09	0.167
Shade (built)	0.6	0.6	0.51	0.46	0.350
Shade (built, additional)	0.2	0.4	0.29	0.43	0.000*
Shade (vegetation)	0.25	0.6	0.52	0.48	0.019*
Shade (vegetation, additional)	n/a	n/a	n/a	n/a	n/a
Water	0.1	0.3	0.34	0.47	0.570
Water (additional)	0.0	0.0	0.0	0.100	0.326

^{*}Significant at 0.01 level; n/a = no data recorded.

Table 9-16 presents the average presence of the surfaces and structures during the site visits along with the standard deviations. Average presence ranged from a high of 1.0 (present on all sites visits) to a low of 0.1 (present on one site visit). As shown in Figure 9-51 and Figure 9-52, there was minimal to no variation between the presence of individual surfaces and structures during non-events (Figure 9-51) and events (Figure 9-52). The presence of shade (built,

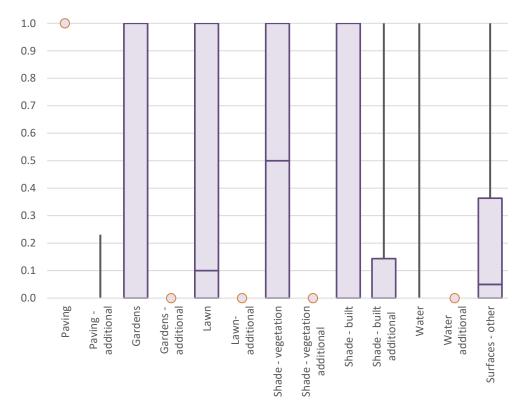


Figure 9-51: Site surfaces and structures (average) for non-event site visits.

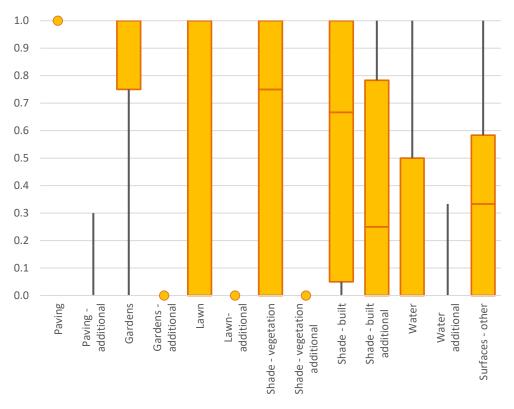


Figure 9-52: Site surfaces and structures (average) for event site visits.

additional), for instance, fluctuated throughout the site visits. During non-events, the average presence was 0.2 (min = 0.0 max = 1.0) whereas during events, the average presence of shade (built, additional) was 0.4 (min = 0.0 max = 1.0). The average presence of surfaces and structures (excluding shade, built, additional) did not illustrate a trend of surfaces or structures increasing publicness. These findings do not provide sufficient evidence that the surfaces or structures are a variable in publicness or if there is a clear link between public space typologies and site surfaces and structures. This result supports the conclusion above, suggesting that site surfaces and structures do not contribute to the fluctuation of the publicness of each case study site and the publicness of public space typologies.

An analysis of the site surfaces and structures across all site visits (153 non-event visits and 30 event visits) did not express the variability of site surfaces and structures in case study sites. As shown in Table 9-16, the standard deviation, calculated to quantify the amount of variation, confirmed that the presence of site surfaces and structures was consistent across all sites, with minimal to no variation between non-events and events. A lower standard deviation indicates less variation in presence. For most surfaces and structures, the variation for both conditions was similar. The variation for surfaces and structures that are typically site-specific, such as water, was high (0.34) whereas the variation for common surfaces and structures, such as paving, was low (0.0). Comparison between additional surfaces and structures to the related fixed was unable to be statistically analysed because of minimal to no recorded presence of additional surfaces and structures.

T-tests on the presence values of event and non-event surfaces and structures were conducted to determine whether a statistically significant difference existed between the average. The magnitude of the significance of the difference indicates the strength of the relationship between individual site surfaces and structures and the difference between the conditions (event and non-event) (Table 9-16). For fixed site surfaces and structures, minimal to no significant difference exists between the two types of condition, with the significance difference typically greater than p > 0.01 (Table 9-16). This indicates that events did not have an influence on the presence of fixed surfaces and structures. The results for additional site surfaces and conditions were minimal. A clear significant difference between the two types of conditions was unable to be determined. The statistically significant differences results were unable to suggest whether there is a relationship between additional site surfaces and event or non-event conditions.

The DAF rating was typically higher for event conditions. No trend or relationship between the DAF rating, conditions and site surface and structures score was noted. The site surface and structure analysis did not support the

Section 9.2 conclusion, suggesting that temporary interventions can positively contribute to public space.

The site surfaces and structures with significant findings in Table 9-16 are discussed individually below, including the comparison to the DAF rating that was used to determine the influence of the surfaces and structures on publicness. The tables of average presence compared with the DAF rating for both conditions are provided in Appendix 4.B.

Gardens

Gardens were present at all case study sites in varying size and forms. The analysis showed a statistically significant difference in average (m) presence between conditions with a greater presence of gardens during events. This result was not expected and is most likely caused by events creating focal points of existing site planting, improvements to sites before events or the layout of the events taking advantage of existing planting as barriers. No trends were noted for the DAF rating and the review of gardens was unable to determine whether existing gardens are an attractor, detractor or linked to increased use.

There were no recorded instances of gardens (additional) or planting within the site assessment timeframe; hence, this study was unable to determine whether gardens (additional) are an attractor, detractor or linked to increased use. The results were time- and event-specific and may influence future studies, depending on selected sites and times of assessment. This study noted instances of additional planting during events in Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26), Rundle Street, North Terrace and Whitmore Square/Ivarrityi (Figure 9-50) after the site assessment timeframe. The presence of gardens (additional, planting) is not an unlikely occurrence and therefore should be taken into consideration in future studies.

Lawn

Lawn was present at eight case study sites in varying size and forms. The analysis showed a statistically significant difference in average (m) presence between sites with a greater presence of lawn during events. This result was not expected, and is linked to Gilles Street School, in which visibility of lawn was dependent on event setup. No trends were noted for publicness and the review of lawn was unable to determine whether lawn is an attractor, detractor or linked to increased use.

Similarly to gardens, there were no recorded instances of lawn (additional) within the site assessment timeframe, although some occurred later and it can be assumed that this element will be of future interest for practice and research.

Shade (vegetation)

Shade by vegetation (mature trees) was present at eight case study sites in varying size and forms. The analysis showed a statistically significant difference in average (m) presence between conditions, with a greater presence of shade during events. This is most likely caused by events creating focal points of existing site planting, or the layout of events taking advantage of existing planting as shelter. This was the case for the markets at Gillies Street School, which provided built shelter (Figure 9-53) and seating under mature trees (Figure 9-53). No trends were noted for publicness and the review of shade by vegetation was unable to determine whether shade trees are an attractor, detractor or linked to increased use.

Similarly, to gardens and lawns, there were no recorded instances of additional mature shade vegetation.



Figure 9-53: Shade options provided for publics at Gillies Street School during one of the markets. Event setup included additional seating, additional access to food and additional bins. (Photo by author 2014)

Shade (built)

Analysis of (fixed and additional) built shade showed a statistically significant difference in average (m) presence between conditions, with greater presence of shade (built, additional) during events, most likely resulting from temporary interventions of food vendor options during events and outdoor dining permits.

Strong trends were not evident. Shade (built, additional) appears to increase with the DAF rating during non-events, indicating that this is a variable for publicness in everyday conditions (Figure 9-53 and Figure 9-54). Because shade (built, additional) influences both events and non-events differently, further investigation is required to determine which shade characteristics are influential and whether shade (built, additional) is an attractor, detractor or linked to increased use. This result may be in part due to the presence of outdoor dining.



Figure 9-54: Shade (built, additional) at Himeji Gardens for the Studio Ghibli/Espionage Gallery pop-up event. (Photo by author 2014)

9.4.4 Site surfaces and structures summary

This subsection highlighted a minimal to no variation in the role of site surfaces and structures during non-event and event conditions and minimal to no influence of additional surfaces and structures on public space.

The findings on site surfaces and structures, excluding shade (built, additional) did not illustrate a trend of surfaces or structures increasing publicness, nor did it provide sufficient evidence that the surfaces or structures were a variable in publicness or whether there was a clear link between public space typologies and site surfaces and structures. From this result, it is concluded that site surfaces and structures do not contribute to the fluctuation in the publicness of each case study site or the publicness of public space typologies.

The next section discusses site activities, providing insights into the relative vibrancy of urban public spaces during events and non-events. These insights suggest which activities within public space contribute to or erode publicness.

9.5 Site activities and publicness

Assessing the presence of site activities against the DAF rating indicates whether the presence of selected activities (formal or informal) is related to the publicness of public spaces during events and non-events. The data provides additional information, allowing for assessments to consider the mix of users and the intensity of usage. An analysis of site activities responds to possible influences from a spatial context, including adjacent sites.

Twenty-one activity measures (subjective and objective) that commonly occur in public space were identified to establish the base information required for the assessment using the Design Assessment Framework (Chapter Seven). These measures include:

- Formal recreation (sport);
- Informal recreation (seating);
- Commercial activities;
- Cultural activities*;
- Passing through*;
- Tourist activities (sightseeing)*;
- Prohibited or illegitimate activities;
- Informal recreation (reading);
- Informal recreation (lying down);
- Informal recreation (picnic);
- Formal recreation (fitness groups);
- Informal recreation (other);
- Informal recreation (play);
- Buskers;
- Event setup;
- Construction works;
- Commuting*;
- Business (in course of work)*;
- Social* or entertainment;
- Shopping or commerce; and
- Not evident.*

These 21 measures allowed for systematic observations, assessing how public space is used. Activities included were optional (non-site-specific, only occurring in good conditions) and necessary (site-specific, occurring in all conditions). Optional and necessary activities are outlined in Chapter Five.

The following subsections present the findings and provide insights into the relative vibrancy of urban public spaces during events and non-events. The first

^{*} Highlighted terms are activities as judged by the researcher.

analysis of site activities compared the DAF rating of the 16 case study sites with the activities score. The second analysis divided data into non-event and event conditions to determine whether necessary activities or optional activities contribute to or erode the publicness of a site. The third analysis reviewed each of the 21 site activities to determine whether an individual measure had more bearing on the DAF rating.

9.5.1 Site activities findings and discussion

For the first analysis, the 16 case study sites and 183 site visits were assessed to determine an activity score for each site. This was then compared with the DAF rating determined in Section 9.2, as shown in Table 9-17 (refer to Appendix 4.A and Appendix 4.B for additional information). Site activities were scored out of 21. A total score of 21 indicated the assessed public space contained all 21 measures (site activities). A score of 0 indicated the space did not contain any measures. Accordingly, a higher score indicated a greater versatility within each case study site.

No case study site achieved a total score of 21 at any site visit. Rundle Street (m = 8.31) achieved the highest score of 14 on one site visit (refer Appendix 4.A for breakdown of each site visit). Castle Street recorded the least number of activities and was the most consistent in regard to site activities with total scores of 0 or 2 (m = 1.45), indicating that the relative vibrancy of the urban public had little variation throughout the study (Figure 9-55).



Figure 9-55: Activities recorded at Castle street were limited to cyclists or pedestrians (transitory publics). (Photo by author 2019)

A comparison of the DAF rating and site activities for individual case study sites indicates that site activities contribute to publicness. A review of the site visits showed a correlation between the number of activities recorded at a case study

site and the DAF rating (Table 9-17). The greater the number of activities, the higher the DAF rating. The overall increase of both scores—indicating that land ownership and temporary change of legal responsibility are not directly linked to publicness and activities—could contribute to public space by encouraging use by diverse publics. This result may be related to the type of activities that occurred during the site visits and it may be influenced by events.

Table 9-17: DAF rating of case study sites (ranked least to most public) compared with site activities across all site visits

Case study site	Publicness – Average (m)	Site activities – combined Average (m)	
Castle Street	2.18	1.45	
Gilles Street School	2.58	3.00	
Glover Playground	3.05	2.63	
Whitmore Square/Ivarrityi	3.63	5.27	
Himeji Gardens	3.70	4.10	
Rundle Place	3.82	4.10	
Peel Street	4.11	5.75	
Hajek Plaza	4.22	4.71	
North Terrace	4.26	7.18	
Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26)	4.75	7.59	
Adelaide Railway Station	4.88	5.58	
Adelaide Central Market	4.88	7.15	
Hindley Street	4.97	7.20	
Hindmarsh Square/Mukata	5.28	7.58	
Rundle Street	5.34	8.31	
Moonta Street	5.58	7.67	

9.5.2 Site activities findings and comparison of non-event and event conditions

The correlation between publicness and activities is supported by comparing the publicness and activities score during non-event and event conditions (Table 9-18 and Table 9-19).

Observations recorded suggest Adelaide public spaces are primarily used as designed with minimal deviance from social norms. During events the case study sites showed a considerable higher number of activities then non-event conditions. Parks & Gardens remained the least public of public spaces overall with the least variation in activities, noting activities in Himeji Gardens increased substantially during events. The overall increase of publicness and activities scores during events supports the Section 9.2 conclusion, which suggests temporary interventions can positively contribute to public space. These finding suggests events positively contribute to public space by increasing the opportunity of activities that cater for a broad demographic representation of life in urban spaces.

Table 9-18: DAF rating of case study sites (ranked least to most public) for non-event site visits compared with site activities

Case study site	Publicness – non- event Average (m)	Site activities – combined Average (m)	
Gilles Street School	0.25	0.00	
Castle Street	2.00	1.40	
Glover Playground	3.05	2.63	
Himeji Gardens	3.42	3.89	
Rundle Place	3.58	3.78	
Whitmore Square/Ivarrityi	3.63	5.27	
Hajek Plaza	3.98	4.64	
Peel Street	4.11	5.75	
North Terrace	4.21	7.00	
Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26)	4.56	7.46	
Adelaide Central Market	4.77	6.75	
Adelaide Railway Station	4.88	5.58	
Rundle Street	4.94	7.40	
Hindley Street	4.97	7.20	
Moonta Street	5.56	6.86	
Hindmarsh Square/Mukata	6.75	4.00	

Table 9-19: DAF rating of case study sites (ranked least to most public) for event site visits compared with site activities

Case study site	Publicness – event Average (m)	Site activities – combined Average (m)
Castle Street	4.00	5.00
North Terrace	4.75	12.00
Gilles Street School	4.92	12.00
Hindmarsh Square/Mukata	4.98	12.70
Hajek Plaza	5.08	12.67
Elder Park (Stella Bowen Park/Tarntanya	5.35	16.25
Wama, Park 26)		
Moonta Street	5.67	14.50
Rundle Place	5.92	16.00
Adelaide Central Market	6.17	16.00
Himeji Gardens	6.25	15.00
Rundle Street	6.67	17.67
Hindley Street	n/a	n/a
Peel Street	n/a	n/a
Whitmore Square/Ivarrityi	n/a	n/a
Adelaide Railway Station	n/a	n/a
Glover Playground	n/a	n/a

n/a = no events recorded

9.5.3 Site activities review

The following subsection outlines the third analysis of site activities. The 21 activity measures are analysed to determine whether site activities are a variable to determine the publicness of public space, whether any individual measure has a bearing on publicness and whether events positively contribute to public space, as concluded above in section 9.2. This analysis divided site activities into two separate groups—the condition of non-event and the condition of event. Here, the results indicated a strong relationship between activity and the publicness of public spaces.

This subsection assesses the site activities compared with user statistics and site elements. This allows an analysis of interventions during non-events and events. The results will provide landscape architects with notification of the following:

- any reduction in activities and publics undertaking activities because of degrees of exclusion; and
- whether there is a link between public space typologies and the form of social interaction that occurs.

Table 9-20 presents the average presence of the activities during the site visits along with the standard deviations. Average presence ranged from a high of 1.0 (present on all sites visits) to a low of 0.1 (present on one site visit). As shown in Figure 9-56 and Figure 9-58, there was variation between the presence of individual activities during non-events (Figure 9-56) and events (Figure 9-58). For instance, the presence of prohibited or illegitimate activities (Figure 9-57, Figure 9-59) fluctuated throughout the site visits during non-events, where the average was 0.2 (min = 0.0 max = 0.7), whereas during events, the average was 0.5 (min = 0.0 max = 1.0). The average presence illustrated a slight trend of activities increasing publicness of the event condition. The noted trend does not provide sufficient evidence that the activities alone accounted for increased publicness.

An analysis of the site activities across all site visits (153 non-event visits and 30 event visits) expressed the variability of activities in case study sites. As shown in Table 9-20, the standard deviation, calculated to quantify the amount of variation, confirms that the presence of site activities was not consistent across all sites, with the presence of individual activities varying between non-event conditions and event conditions. A lower standard deviation indicates less variation in presence recorded. Interestingly, for most site-specific activities, the variation for the conditions was similar, for instance, informal recreation (lying down) was low (0.08) whereas the variation for common activities such as passing through was high (0.4).

Table 9-20: Descriptive comparison of presence of statistics of Site Activities during nonevent and event site visits

Activities					
	Activities – non- events Average (m)		- (a:	– (a:	(,d)
	Activities – events Average (m)	Activities – events Average (m	Standard deviation (SD) non-events	Standard deviation (SD) events)	Significance (p*
	Activiti events Averag	Activities – events Average (m	Standard deviation non-even	Standard deviation events)	nific
	Act eve Ave	Act eve Ave	Sta dev nor	Sta dev eve	Sigi
Business (in course of work)	0.0	0.8	0.38	0.35	0.022*
Buskers	0.51	0.3	0.15	0.40	0.106
Commercial activities	0.4	0.5	0.43	0.46	0.334
Commuting	0.7	0.8	0.37	0.40	0.527
Construction works	0.1	0.1	0.21	0.32	0.776
Cultural activities	0.0	0.1	0.08	0.17	0.334
Event setup	0.0	0.8	0.09	0.4	0.000*
Formal recreation (fitness	0.1	0.0	0.20	0.09	0.508
groups)					
Formal recreation (sport)	n/a	n/a	n/a	n/a	n/a
Informal recreation	0.4	0.4	0.39	0.40	0.179
Informal recreation (lying	0.0	0.0	0.08	0.12	0.493
down)					
Informal recreation (other)	0.1	0.2	0.13	0.35	0.046*
Informal recreation (picnic)	0.0	0.0	0.04	0.09	0.194
Informal recreation (play)	0.0	0.0	0.16	0.10	0.426
Informal recreation (reading)	0.0	0.0	0.04	0.06	0.386
Not evident	0.3	0.4	0.28	0.43	0.029*
Passing through	0.8	0.8	0.36	0.40	0.042*
Prohibited or illegitimate	0.2	0.5	0.23	0.45	0.998
activities					
Shopping or commerce	0.3	0.5	0.35	0.44	0.116
Social or entertainment	0.6	0.9	0.34	0.33	0.048*
Tourist activities (sightseeing)	0.3	0.4	0.29	0.42	0.997

^{*}Significant at 0.01 level; n/a = no data recorded.

T-tests on the presence values of site activities for events and non-events were conducted to determine whether a statistically significant difference existed between the average. The magnitude of the significance of the difference indicates the strength of the relationship between individual site activities and the difference between the conditions (Table 9-20). A minimal significant difference was noted between the two conditions, with the significance difference typically greater than p > 0.01 (Table 9-20). This indicates that events did not have an influence on the presence of activities.

The DAF rating was typically higher for event conditions. Only slight trends between the DAF rating, conditions and site activities scores were noted. This is supported by research, which states that users are more likely to visit during changed conditions. It also supports the conclusion in Section 9.2, suggesting that temporary interventions contribute to public space.

The site activities with significant findings (Table 9-20) are discussed individually below, including the comparison with the DAF rating, which was used to determine the influence of the activities on publicness. The tables of average presence compared with the DAF rating for both conditions are provided in Appendix 4.B.

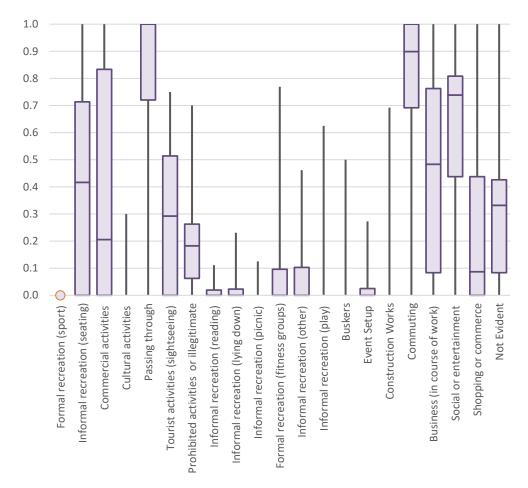


Figure 9-56: Site activities (average) for non-event site visits

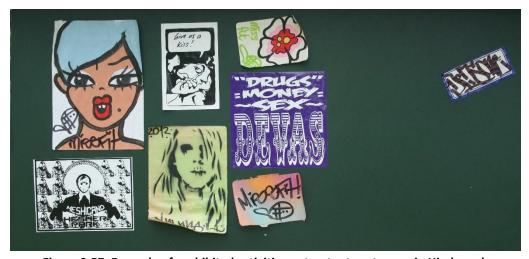


Figure 9-57: Example of prohibited activities—street art paste-up—in Hindmarsh Square/Mukata during non-event time. Works were removed within 48 hours of installation. (Photo by author 2013)

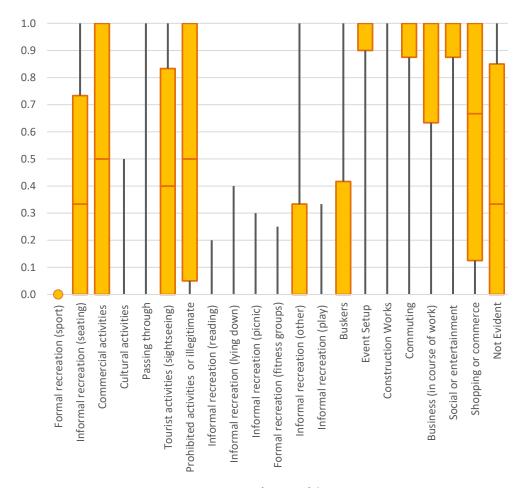


Figure 9-58: Site activities (average) for event site visits



Figure 9-59: Example of a tolerated prohibited activity—street art installation—spilling onto Hindley Street outside of the event designated area during the West End After Dark Event.

Works were tolerated during the events and removed within 48 hours of the event conclusion. (Photo by author 2016)

Business (in course of work) activities

Business included activities that were occupation-specific, such as rubbish collection, horticultural activities and construction work. The analysis showed a statistically significant difference in average presence between conditions with business activities having greater presence during events. This was most likely because of an increase in publics at sites undertaking their chosen occupation. This result was as expected during event conditions.

The presence of business activities increased with publicness for non-event conditions, which was also expected. This may be because of ongoing City of Adelaide daily maintenance programs and construction activities occurring adjacent to Elder Park Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) during the site assessment timeframe (Figure 9-60). As business activities influence both events and non-events differently, further investigation is required to determine which business activities drive increased use and their role in social interaction.

Event setup activities

Event setup results were as expected because of the relationship between event setup and events. Event setup included all activities required to 'bump in' and 'bump out' and behind the scenes activities of events but excluded front of house activities during events such as performances (Figure 9-61). The analysis showed a statistically significant difference in average presence between conditions, with event setup having a greater presence during events. This was most likely because of temporary altered use and change of usage patterns, for instance, length of stay and passing through activities. No trends were noted for publicness and the review of event setup activities was unable to determine whether this activity alone was linked to increased use. Nonetheless, the results do suggest that events increase non-site-specific activities more than site-specific activities.

<u>Informal recreation (other) activities</u>

Other informal recreation activities were included to identify whether any activities had been missed in the design of the Design Assessment Framework. For this study, informal recreation (other) refers to activities that do not typically occur at case study sites, for instance, dog walking and roller skating (Figure 9-62). As expected, analysis of informal recreation (other) showed a statistically significant difference in average presence between conditions, with other activities more likely to be present during events. The difference in average presence between conditions is most likely caused by temporary changes in site design, which alter activities occurring at case study sites. No trends were noted for publicness and the review of informal recreation (other) activities was unable to determine whether this activity alone was linked to

increased use. Although similar to event setup, the results do suggest that events increase non-site-specific activities more than site-specific activities.

Not evident activities

Not evident activities are subjective and include any activity the assessor was unable to distinguish or separate out from the other activities when undertaking the site assessment. Analysis of not evident activities showed a statistically significant difference in average presence between conditions, with this activity more likely to be present during events. This result may be because of the nature of the events, for instance, the Adelaide Fringe Festival street closure of Rundle Street (Figure 9-63), where activities undertaken by users were subject to change or momentary distraction. Thus, a user's activity could quickly change from passing through to social and entertainment. There is a clear trend indicating that a greater presence of not evident activities is linked to increased publicness. This is consistent with research, which shows that when users are comfortable, they will use space in manners that are unexpected or unplanned, which is linked to longer stays. The results support the suggestion above that events increase non-site-specific activities more than site-specific activities.

Passing through activities

Passing through activities include movement through a site without stopping or engaging with the surrounds. This activity was expected to occur in all typologies, particularly Streets & Promenades and Plazas & Squares (Figure 9-64). Passing through activities occurred at all sites except Gilles Street School and Glover Playground (sites with the most control). This result was expected because of the site design of each case study site and the selected study boundaries. An analysis of passing though activities showed a statistically significant difference in average presence between conditions, with this activity more likely to be present during non-events. The difference in average presence between conditions is most likely caused by the addition of temporary changes in site design, altering movement through and to the sites. No trends were noted for publicness and the review of passing through activities was unable to determine whether this activity is an attractor, detractor or linked to increased use. Nonetheless, the results do suggest that events are linked to a reduction of activities. In particular, passing through activities decreased during event conditions. This suggests that non-site-specific activities are influenced more by events than site-specific activities.



Figure 9-60: Construction site setup for the Riverbank Bridge in Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26). The construction activities altered movement patterns on site and increased the diversity of publics. (Photo by author 2014)



Figure 9-61: Free public concert and the stage show 'dirtsong' during the 2014 Adelaide Festival event setup (bump out) in Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26). The activities related to this event setup altered movement patterns of site, disrupted usual seating areas and increased the diversity of publics. (Photo by author 2014)



Figure 9-62: Dog walkers in Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26). Dog walking does not typically occur in Elder Park and was actively discouraged by the City of Adelaide by-laws during the study timeframe. (Photo by author 2014)

Social or entertainment activities

Public spaces have been referred to as social and entertainment spaces. The presence of social and entertainment activities at all sites was expected, with a greater presence during events. The two anomalies were Castle Street, for which no activities were recorded under any conditions, and Hindmarsh Square/Mukata, for which no social and entertainment activities were recorded during non-event conditions. The analysis showed a greater presence during events. A statistically significant difference in average presence between conditions was evident, with this activity more likely to be present during events. No trends were noted for publicness and the review of social and entertainment activities was unable to determine whether this activity alone is linked to increased use. The results suggest that events increase non-site-specific activities.

Prohibited or illegitimate activities

Prohibited or illegitimate activities did not yield a statistically significant finding. Two notable trends were discerned. Prohibited activities included smoking in non-smoking areas, drinking in dry zones, riding bikes on footpaths, graffiti, littering, skateboarding and other small, wheeled vehicles on footpaths (City of Adelaide by-laws prohibit small wheeled vehicles of footpaths). Some activities that were prohibited during the study timeframe are now legal, for instance, riding bikes on footpaths. Illegitimate activities included those typically associated with illegitimate publics such as the presence of bedding/camping equipment and unattended clothing (Figure 9-65).

The prohibited or illegitimate activities results had a bi-modal distribution when compared with the DAF rating for non-event conditions, and a clear trend was not evident. The results for prohibited or illegitimate activities had a tri-modal distribution when compared with the DAF rating and considering all conditions combined, there was no clear trend. While there was no trend during any conditions, the study recorded more prohibited or illegitimate activities during events, with the majority of case study sites recording a clear increase in these activities during events. This result may be caused by the nature of events such as the Adelaide Fringe Festival where activities that are typically prohibited become the social norm.



Figure 9-63: Street party on Rundle Street during the Adelaide Fringe Festival 2014. The density of activities meant that individual actions could not be distinguished or separated out from the other activities, such as passing through the space to reach fringe events, moving from food venues to tables, buskers with and without permits, the homeless or fringe performers. (Photo by author 2014)

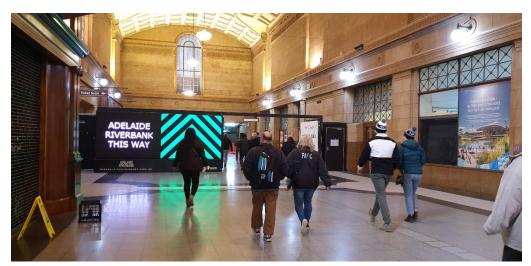


Figure 9-64: Movement through the Adelaide Railway Station from North Terrace to the Adelaide Riverbank. The publics in this instance did not engage with the surroundings or other users. (Photo by author 2019)



Figure 9-65: Clothing drying in Hindmarsh Square/Mukata as part of an event back of house.

This activity would normally be associated with illegitimate publics and therefore monitored or removed for defined public view. (Photo by author 2017)

9.5.4 Site activities summary

This subsection highlighted a variation in the role of site activities during nonevent and event conditions and the influence of these activities on public space. The analysis determined that site activities have a bearing on publicness and events can positively contribute to public space. The results varied between necessary (site-specific) and optional (non-site-specific) activities and the publicness of public space, suggesting that events increase non-site-specific activities more than site-specific activities. These results are consistent with the findings of Mehta (2009), which revealed that people only linger and engage in social activities when there are things to do and see. Therefore, timeframes for studies should expand to represent changes of space from event conditions and everyday conditions to understand what effectively happens and explore the role of different activities within a selected public space.

The results of this study are also in line with those of Mehta (2009), stating that public space performs differently on different occasions. This indicates that functional design for one typology of publics such as the defined public, or for a condition such as an event, is not desirable when seeking to increase the publicness of public space. Adelaide public spaces are and will continue to be multiple-use spaces. Multiple publics and activities should be considered in their design, management, programming and maintenance.

The final section discusses site context and conditions, providing insights into the comfort, quality and aesthetic considerations for measuring the use of public spaces during events and non-events. The insights identify the site context and conditions of public space that contribute to or erode publicness.

9.6 Site context, conditions and publicness

Assessing site context and conditions against the DAF rating indicates whether features such as comfort, quality and aesthetics are related to the publicness of public space.

The appearance of public space affects its use, thereby affecting the success of the space. The success of an individual public space can be determined by the range of components and perceptual qualities, which contribute to the quality of urban life (Cybriwsky 1999; Dempsey 2008; Ewing & Handy 2009; Marans 2012). Key to success is the perceived comfort of a space (Pasaogullari & Doratli 2004) as well as its perceived quality and aesthetics. These three considerations have been identified as key variables in measuring the utilisation of public space and are linked to site context and conditions. Fifteen site context and conditions measures were identified to establish the base information required

for evaluation using the Design Assessment Framework (refer Chapter Seven). These measures of comfort, quality and aesthetics and include:

- Natural surveillance;
- Constant users;
- Clear design intent;
- High prospect/low refuge;
- Significance and value;
- Social imageability;
- Restorative places;
- Social interaction and territoriality;
- Orientation;
- Movement;
- View;
- Change in use;
- Neighbourhood awareness;
- Private-public awareness; and
- Thematic continuity.

These 15 measures allowed for systematic observations assessing how public space is used. This assessment measured the visible and identified key variables for measuring the utilisation of public spaces. The urban design qualities identified by Ewing and Handy (2009), namely, enclosure, human scale, transparency and complexity, were excluded from the individual assessments. Social imageability was included because of the consensus by Ewing and Handy (2009), Gehl (1987) and Lynch (1960) that highly imageable places are well formed, contain distinct parts, are instantly recognisable and contribute to a sense of place. Landmarks and distinctive buildings are examples of imageability.

The following subsections present the findings and provide insights into the comfort, quality and aesthetic considerations for measuring the utilisation of public spaces during events and non-events. The first analysis compared the DAF rating of the 16 case study sites with the site context and conditions score. The second analysis divided data into non-event and event conditions to determine whether comfort, quality and aesthetics contribute to or erode publicness. The third analysis reviewed each of the 15 site contexts and conditions to determine whether any individual measure had more bearing on the DAF rating.

9.6.1 Site context, conditions findings and discussion

For the first analysis, the 16 case study sites and 183 site visits were assessed to determine a site context and conditions score for each site. This score was compared with the DAF rating determined in Section 9.2 and as shown in Table

9-21 (refer to Appendix 4.A and Appendix 4.B for additional information). Site context and conditions were scored out of 15. A total score of 15 indicated the assessed public space contained all 15 measures (site context and conditions). A score of 0 indicated the space did not contain any measures. Accordingly, a higher score indicates a greater degree of comfort, quality and aesthetics for each case study site.

Table 9-21: DAF rating of case study sites (ranked least to most public) compared with site context and conditions across all site visits

Case study site	Publicness Site context and	
	Average (m)	conditions -
		combined
		Average (m)
Castle Street	2.18	10.73
Gilles Street School	2.58	8.83
Glover Playground	3.05	12.63
Whitmore Square/Ivarrityi	3.63	11.09
Himeji Gardens	3.70	10.00
Rundle Place	3.82	9.20
Peel Street	4.11	12.88
Hajek Plaza	4.22	8.00
North Terrace	4.26	14.64
Elder Park (Stella Bowen Park/Tarntanya Wama,	4.75	13.59
Park 26)		
Adelaide Railway Station	4.88	13.75
Adelaide Central Market	4.88	11.38
Hindley Street	4.97	12.20
Hindmarsh Square/Mukata	5.28	12.42
Rundle Street	5.34	12.23
Moonta Street	5.58	13.00

Minimal variation was noted in the data, indicating that site context and conditions remained constant throughout the study. North Terrace was the only site to contain all site context and conditions measures at seven of the 11 site visits undertaken (refer Appendix 4.A for breakdown of each site visit). A review of the case study sites did not indicate a correlation between context and conditions and the publicness of public space, suggesting that site context and conditions do not contribute to fluctuations in the publicness of the individual case study sites.

Similarly to site surfaces and structures, the review of the site context and conditions score, the DAF rating and the public space typologies do not suggest that site context and conditions contribute to the publicness of public space typologies (Table 9-21, Appendix 4.A and Appendix 4.B). No trends or patterns were discerned linking site context and conditions to public space typologies. Further review of the individual components is required.

9.6.2 Site context and conditions findings and comparison between non-event and event conditions

A comparison of the DAF rating and the site context and conditions score during the non-events and events did not indicate whether site context and conditions contributed to publicness or the noted fluctuation in the publicness of each case study site (Table 9-22 and Table 9-23). No trends or patterns were discerned linking site context and conditions, public space typologies events or non-events. The site context and conditions analysis did not support the conclusion in Section 9.2, suggesting that temporary interventions contribute to public space.

Table 9-22: DAF rating of case study sites (ranked least to most public) for non-event site visits compared with site context and conditions

Case study site	Publicness – non-	Site context and	
	event	conditions –	
	Average (m)	combined	
		Average (m)	
Gilles Street School	0.25	8.67	
Castle Street	2.00	10.70	
Glover Playground	3.05	12.63	
Himeji Gardens	3.42	9.89	
Rundle Place	3.58	9.33	
Whitmore Square/Ivarrityi	3.63	11.09	
Hajek Plaza	3.98	7.55	
Peel Street	4.11	12.88	
North Terrace	4.21	14.60	
Elder Park (Stella Bowen Park/Tarntanya			
Wama, Park 26)	4.56	14.08	
Adelaide Central Market	4.77	11.42	
Adelaide Railway Station	4.88	13.75	
Rundle Street	4.94	12.30	
Hindley Street	4.97	12.20	
Moonta Street	5.56	13.00	
Hindmarsh Square/Mukata	6.75	13.00	

Table 9-23: DAF rating of case study sites (ranked least to most public) for event site conditions compared with site context and conditions

Case study site	Publicness – event Average (m)	Site context and conditions – combined Average (m)
Castle Street	4.00	11.00
North Terrace	4.75	15.00
Gilles Street School	4.92	9.00
Hindmarsh Square/Mukata	4.98	12.30
Hajek Plaza	5.08	9.67
Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26)	5.35	12.00
Moonta Street	5.67	13.00
Rundle Place	5.92	8.00
Adelaide Central Market	6.17	11.00
Himeji Gardens	6.25	11.00
Rundle Street	6.67	12.00
Hindley Street	n/a	n/a
Peel Street	n/a	n/a
Whitmore Square/Ivarrityi	n/a	n/a
Adelaide Railway Station	n/a	n/a
Glover Playground	n/a	n/a

n/a = no events recorded

9.6.3 Site context and conditions review

The following subsection outlines the third analysis of site context and conditions. The 15 measures are reviewed to determine whether site context and conditions are a variable determining the publicness of public space, whether any individual measure had a bearing on publicness and whether events contribute to public space, as concluded in Section 9.2. This analysis divided site surface and structures into two separate groups—the condition of non-event and the condition of event.

This subsection evaluates the character of the different sites to determine whether an assessment of site context and conditions provides a guide to development and design changes.

Table 9-24 presents the average presence of the elements during the site visits along with the standard deviations. Average presence ranged from a high of 1.0 (present on all sites visits) to a low of 0.1 (present on one site visit). As shown in Figure 9-66 and Figure 9-67, there was little to no variation between the presence of individual contexts and conditions during non-events (Figure 9-66) and events (Figure 9-67). The presence of clear design intent, for instance, fluctuated throughout the site visits. During non-events, the average was 0.5 (min = 0.0 max = 1.0) whereas during events, the average was 0.4 (min = 0.0 max = 1.0).

Table 9-24: Descriptive comparison of presence of statistics of site context and conditions during non-event and event site visits

during non-event and event site visits						
Site context and conditions	Site context and conditions – non-events Average (m)	Site context and conditions – events Average (m)	Standard deviation (SD) – non-events	Standard deviation (SD) – events	Significance (p*)	
Change	0.5	0.7	0.47	0.48	n/a	
Clear design intent	0.5	0.4	0.48	0.45	n/a	
Constant users	0.8	0.8	0.25	0.32	n/a	
High prospect/low refuge	0.6	0.5	0.46	0.48	n/a	
Movement	0.8	0.7	0.45	0.46	0.008*	
Natural surveillance	0.9	0.7	0.28	0.46	n/a	
Neighbourhood awareness	0.8	0.7	0.40	0.46	n/a	
Orientation	0.9	0.8	0.34	0.40	n/a	
Private-public awareness	1.0	1.0	0.00	0.0	n/a	
Restorative places	0.4	0.5	0.49	0.52	0.004*	
Significance and value	0.9	0.9	0.25	0.30	n/a	
Social imageability	1.0	1.0	0.0	0.0	n/a	
Social interaction and	0.9	0.9	0.26	0.30	n/a	
territoriality						
Thematic continuity	0.9	0.8	0.32	0.41	n/a	
View	0.9	0.8	0.34	0.40	n/a	

^{*}Significant at 0.01 level; n/a = no data recorded.

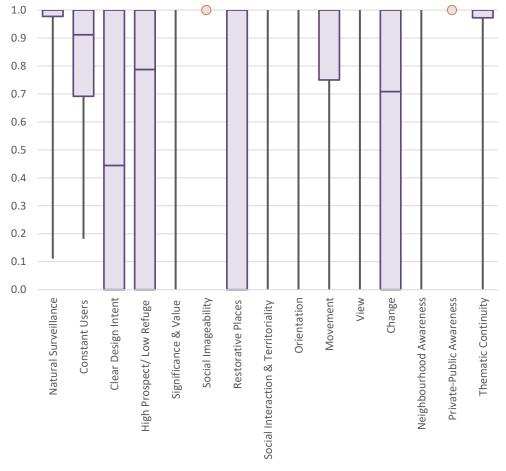


Figure 9-66: Site context and conditions (average) for non-event site visits

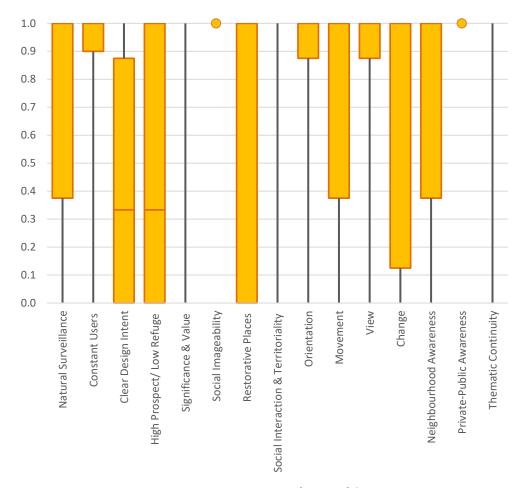


Figure 9-67: Site context and conditions (average) for event site visits

The average presence did not reflect a context and conditions trend increasing publicness of the event conditions as the previous assessment suggested.

An analysis of the site context and conditions across all site visits (153 non-event visits and 30 event visits) expressed the consistency of context and conditions in the case study sites. As shown in Table 9-24, the standard deviation, calculated to quantify the amount of variation, confirms that the presence of context and conditions was consistent across all sites with minimal to no variation of individual context and conditions between non-events and events. A lower standard deviation indicated less variation in presence recorded.

T-tests on the presence values of site context and conditions for events and non-events were conducted to determine whether a statistically significant difference existed between the average. The magnitude of the significance of the difference indicates the strength of the relationship between individual site context and conditions and the difference between the conditions (event and non-event) (Table 9-24). A significant difference of greater than p < 0.01 (Table 9-24) was noted for movement and restorative places. No other results were recorded because of minimal variation between conditions. This indicates that events did not have an influence on the presence of site context and conditions.

The DAF rating was typically higher during events. No trend or relationship between the DAF rating, the conditions and site context score and condition was noted. The site context and condition analysis does not support the conclusion in Section 9.2, suggesting that events contribute to public space.

The site context and condition with significant findings (Table 9-24) is discussed individually below. This includes the comparison with the DAF rating, which was used to determine the influence of context and conditions on publicness. The tables of average presence compared with the DAF rating for both conditions are provided in Appendix 4.B.

Movement

The analysis suggested that movement in the case study sites increased during non-events (Figure 9-68), as shown by the statistically significantly greater presence of movement within sites compared with events (Figure 9-69). The difference in average presence between conditions is most likely caused by the addition of temporary changes in site design, which alter movement through or around the case study sites.

No trends were noted for DAF rating. Therefore, the review of movement was unable to determine whether movement is an attractor, detractor or linked to increased use to guide future development and design changes. Further investigation is required to determine how or whether there is a link between movement and publicness.

Restorative places

The analysis showed that there was a statistically significant greater presence of restorative places during events. The difference in average presence between conditions is most likely caused by the temporary changes in site design options during events, such as additional seating and barriers, which change how the site functions and increase the level of comfort within the site (Figure 9-70).

No trends were noted for publicness. Therefore, the review of restorative places was unable to determine whether restorative places are an attractor, detractor or linked to increased use and whether restorative places can guide future development and design changes. Further investigation is required to determine how or whether there is a link between restorative places and publicness.



Figure 9-68: North Terrace typical movement patterns during non-event times. Movement is free-flowing, allowing pedestrians to pause, take photographs or gather.

(Photo by author 2017)



Figure 9-69: North Terrace during an Art Gallery of South Australia exhibition, opening with speeches, live music and performances for a 2-hour period (event conditions). The event setup diverted the typical movement patterns, pushing pedestrians to the outer edge of the site into the sun and traffic noise. (Photo by author 2019)



Figure 9-70: Example of a restorative place. The 2018 Whitmore Square/Ivarrityi community consultation provided a greater range of seating options, including rugs and tables. The placement of the additional elements changed how the site functioned and increased the level of comfort for a diversity of age groups and abilities.

(Photo by author 2018)

9.6.4 Site context and conditions summary

This subsection highlighted minimal to no variation in the role of site context and conditions during the condition of non-event and event and minimal to no influence of context and conditions to the publicness of public space. The findings on site context and conditions (excluding movement and restorative places) did not provide sufficient evidence that site context and conditions are a variable in publicness. This result indicates that site context and conditions do not contribute to the publicness fluctuation of each case study site.

Further investigation is required to determine how or whether there is a link between site context and conditions and publicness and if these 15 measures can guide development and design changes.

9.7 Summary

The primary aim of this thesis was to understand the publicness of public space and how events alter the use of public space. This chapter addressed this aim by measuring the performative value (accessibility) and social exchange of public spaces in Adelaide, South Australia. The Design Assessment Framework

developed in Chapter Seven was used to collate data for an analysis of elements, surfaces, structures, activities, conditions and context for 16 sites across Adelaide at different times. Three different analyses measured differences in publicness for the selected spaces during non-event and event conditions.

The first analysis identified a publicness score for the 16 case study sites. The results indicated that the greater the diversity of public accessibility measures, the higher the DAF rating. Importantly, a review of the minimum, average and maximum DAF ratings for visits to each site indicated significant fluctuations in the presence of different publics, and therefore, the publicness of the spaces. For instance, Moonta Street consistently scored the most public space (m = 5.58, min = 4.58, max = 6.75). Rundle Street presented all public accessibility measures on one site visit (max = 7), while Castle Street presented no public accessibility measures on one site visit (min = 0).

The findings on public accessibility measures suggest that public spaces are not static or have an 'increasingly one-dimensional character' (Koolhaas, Sorkin & De Cauter 2007 in Avermaete & Teerds 2007, p. 36). For instance, the results for Gilles Street School suggest that there may be a link between site elements and the erosion of publicness for events creating commercial spaces. This was reflected in a low DAF rating (m = 2.58) and a high site element score (m = 10.33, m = 9.17, m = 1.17). The results support the thesis standpoint that land ownership, including temporary legal responsibility, is not a defining factor of the publicness of urban public space. The site itself—its elements and activities—have the greatest influence on publicness. There is not a lack or loss of public space but a lack of public activity appealing to diverse publics. Events can then contribute to public space by increasing the opportunity for public spaces to cater for a broader demographic representation.

The second analysis divided data into non-event and event conditions to determine how elements, surfaces, structures, activities, site conditions and context have a bearing on the DAF rating. Site elements comprise fixed and (temporarily) additional features and represent changed circumstances, accommodating more or different people. Activities are curated for a particular time. Surface, structures and context are fixed. While the results were varied, in general, the site elements and activities both had a bearing on publicness, with those linked to events contributing to greater publicness. For instance, Himeji Garden's DAF rating increased from m = 3.42 to m = 6.25, while site elements increased from m = 0.33 to m = 7 when additional elements where present. This supports the conclusion that temporary interventions within the physical space contribute to public space. Unlike elements, the findings for site surfaces and structures and context and conditions yielded minimal to no variation in the data collected for each measure, comparing event to non-event

conditions. Further investigation is required to determine how or whether there is a link between site context and conditions, context and conditions and publicness.

The third analysis reviewed the individual measures for each DAF component with regard to the DAF rating to determine whether the selected measures were variables that influence the publicness of public space. The results varied, indicating a more nuanced relationship between fixed and additional elements, necessary (site-specific) and optional (non-site-specific) activities and the publicness of public space. The findings presented a positive relationship between the independent variables of additional site elements, optional activities and publicness. This was reflected in a clear trend, indicating that temporary measures are variables associated with increased use. For instance, additional seating during events was determined to be an attractor within case study sites. Additional site elements sustained interest and increased length of stay, compared with standard layout, surfaces and context.

The analyses support claims (in previous chapters) that the design of urban landscapes influences the behaviour of users. All three analyses confirmed the temporal nature of public space presented in Chapter Three and supported the typology of publics presented in Chapter Five. By determining the DAF rating, the degrees of publicness were shown to be related to flexible design, diversity of users and diversity of activities. Case study sites with minimal temporary changes were shown to be less public.

Events are typically considered to reduce publicness but were unexpectedly shown by the statistical tests as positively contributing to public space. Further, the addition of temporary site elements, which were shown by Whyte (1998) to reduce the presence of unwanted publics, increased the diversity of public measures and so increased the overall publicness of a public space.

These results not only contribute to the wider debate about the publicness of public spaces but also have specific implications for landscape architects concerned with the design of public space. The results suggest that by focusing on activity rather than aesthetic elements of public space, opportunities are created to fundamentally change the way that public spaces operate in relation to their urban contexts.

Chapter Ten continues this discussion by presenting the outcomes of this thesis in response to the research questions and the initial hypothesis devised in the early stages of the dissertation journey. This is followed by a discussion indicating how the research contributes to more nuanced and relevant decision-making by design professionals.

Chapter Ten

Discussion:

Insights from Adelaide



So, how public is public space and do events pose a threat?

A thesis typically starts with a question researched in a controlled environment with controlled conditions. Instead, this thesis started with a deceptively simple and benign sign: "Warning: You may find event equipment and patrons on the pathway" (Figure 10-2). The City of Adelaide signage raised questions about how the terms 'public' and 'public space' are defined and demanded interrogation of the question: Do temporary events pose a threat to public space and, if so, how can Landscape Architects assess these spaces for effective design?



Figure 10-2: Pelzer Park/Pityarilla (Park 19) Adelaide, South Australia, event signage. (Photo by author 2018)

Chapter Ten discusses the findings of the thesis and outlines what these findings mean for landscape architects. In addition, Chapter Ten addresses the commonly reported conflict between public space and private use of these spaces, such as events. It is also concerned with the inadequacy of current design theory, methodologies, techniques, and tools, used by landscape architects and others to assess public space.

The issues were addressed by the following research questions:

- Do temporary events pose a threat to public space and, if so, how can landscape architects assess these spaces for effective design?
- How public is public space?
- Is there a blurring of public and private space and what consequences does this have?
- How do temporary events affect the use of public space?
- What are the implications of temporary events for the effective design of urban public space?

 What analytical methods, techniques and tools are missing in design of public spaces?

These research questions were examined through an iterative research framework linking theory (Part A) and practice (Part B). The following sub sections discuss the outcomes of this thesis responding to the research questions and the initial hypothesis devised in the early stages of the dissertation journey.

10.1 Questioning publicness and publics

To interrogate *how public is public space* a methodical examination of the definition of public space (Chapter Two), narratives of erosion of public space (Chapter Four) and diversity of publics (Chapter Five) was undertaken in Part A. The examination was followed in Part B by an exploration of the complex interrelationship between the public (diverse users of space, recognised as a variety of 'publics') and events (both a form of limiting access and a means to increase access) at 16 case study sites.

Part A revealed a spectrum of positions, where public space debates were rarely tackled beyond a discipline's field of knowledge. Research presented surveillance and the policing of public space as a policy and governance response, with social and health benefits to characterise and argue for the accessibility of public space. Key findings of the literature review were the consistent characterisation of exclusion (marginalisation) and inclusion (belonging) based on a particular ideal of open space as free for all to use, although effectively for a limited sector of people.

The common threads in the definitions of public space were persistent assumptions of a democratic ideal and recognition there are not many spaces, today, which match that ideal. This has led to expectations for public space to be simultaneously, passive and active (Figure 10-1), capable of hosting both daily occupation and special events, resulting in a seeming loss of distinction between private and public use. As shown in Chapter Three and Chapter Nine, no single ideal public space exists, as public space depends on the nature and degree of public accessibility (publicness). Definitions of public space, therefore, are often metaphorical, describing a place where some sort of public interaction is practiced. As highlighted by Houssay-Holzschuch (De Backer et al., 2016) the use of ill-defined democratic ideals has resulted in fixed, pre-assigned identities for public space occupation, which, while powerful, are formed from limited concepts of diversity. The ideal presents a distorted reading of public space, discounting the varying degrees of legal ownership, governance, and

activation, or the changing political, social, and cultural nature of public space use.

A mis-placed appeal to a poorly defined ideal of public space, that does not properly account for and include the rich diversity of the public, is why public space is so contested. It is why people are seemingly excluded or included, and why the future of public space is lamented. Rather than rest on definitions that are critically one-dimensional and fixed, we should interrogate what activates or erodes public space. To expand the theoretical debate and to encapsulate the state of play, a new definition of public space has been proposed by this thesis.

Public space comprises social places outside the home and workplace, which are generally accessible by all members of the public, and which allow for interaction and opportunities for contact and proximity.

This definition sets aside legal ownership and focusses on the value of publicly accessible space to foster social activity and exchange. It also allows for some restriction of access. In this context, private space that generally offers public access and social exchange is as public as public space.

This thesis expanded the definition of public space beyond legal ownership and governance for two reasons. Firstly, public space debates were dominated by narratives of erosion and the loss of public rights. The debates typically presented a binary representation of public or private (magnet or menace) related to legal ownership and governance. The use of a binary schema is challenged by the literature of criminology, which suggests instead that this presents a problematic view of public space (Hayward in De Backer et al., 2016) and a polarised political position related to identity (Campbell, 2013). The concern of most authors is private spaces and exclusive activities. The reality is far more complex.

The contradictions of purpose in public space design are made clear in Part B. Many authors hold the view that the design of public spaces by architects, landscape architects and urban designers is circumscribed by representations of use that embody unacknowledged assumptions about appropriate and prohibited behaviour. Behaviour in turn is affected by the deliberate blurring of private and public uses. This further raised concerns regarding the erosion of public space, what roles landscape architects play in designing public spaces, and how landscape architects should respond to simplistic institutional briefs. Landscape architects require awareness of these challenges and a structure to design for them, particularly considering the many ways public spaces are appropriated for private activities and considering the great diversity of publics who use public space.

The emphasis on erosion of physical public space manifested by loss of access may be premature and unfounded. The extent of erosion can be understood through assessment of a space, an assessment of activities and an interrogation of who is excluded. Missing from dominant arguments is the consideration of temporary activities such as events designed to attract users to a destination for a given timeframe. The role of events raises questions of inclusion and exclusion and emphasises 'time' as an explicit factor in how to design spaces, for whom and when.

To examine the role of events further the thesis highlighted five overarching public space typologies, which offer an enduring structure to the city. The five overarching typologies of public spaces are plazas and squares, parks and gardens, streets and promenades, waterfronts, and commercial spaces. The significance of these five overarching public space typologies in urban form has been apparent from the ancient Agora in Athens to Central Park in New York City, and is continually linked to issues of territorial identity, defence, and public life (Balassiano, 2013; Charlesworth, 2005; Curtis et al., 2007; Tuan, 1979; Varnelis & Friedberg, 2008).

The second reason the definition was expanded is that public space debates did not generally acknowledge publics are diverse and in flux. Diversity of publics is associated with an understanding that publics have different relationships to place linked with the wider social context of their cultural grouping, other publics present within a particular place and the activities occurring at a particular time. An individual's behaviour and their notions of expected uses will change depending on the setting thereby amending their relationship to space and amending the typology of public they are acting within.

To further expand the theoretical debate and encapsulate the state of play, a new typology of publics has been proposed by this thesis.

New typology of publics: the defined public, the appropriating public, the transitory public and the illegitimate public

A skateboarder will change from 'defined' in skate parks to 'illegitimate' in formal plazas, and transition between the two typologies in activity hubs, which combine play and formal recreational opportunities. The negative result of the binary public and private schema is a demonization of those who are not acting in a socially defined norm in socially defined places.

Chapter Nine confirmed the importance of the typology of publics in determining the degree of public accessibility within public space. Emphasis on the diversity of *use*, not legal ownership, within the Design Assessment

Framework (DAF, discussed in 10.2), expanded the definition of public space to include some otherwise private spaces. This was highlighted in the assessment of two Commercial Spaces, Rundle Place and the Central Markets, where public accessibility increased during events (filming of television commercials and the Adelaide Fringe Festival) when transitory public's movement patterns were maintained. The assessment showed that publicness was an outcome of flexible design, diversity of users and diversity of activities. In this scenario the distinction between private and public was temporary.

This finding not only contributes to the wider debate about the publicness of public spaces, but also has specific implications for landscape architects concerned with the effective design of public space (discussed 10.4). In this thesis, effective design is the enhancement of public access and social activity, which facilitates publicness. For landscape architects this means a fundamental rethinking of the distinction of public and private spaces. The adoption of the proposed public space definition and typology of public challenge simple binary ideas of public and private space and offer a more detailed way to assess public space.

The opening image of an event sign stating "Warning: You may find event equipment and patrons on the pathway" is one example that supports this conclusion (Figure 10-2). The simple and benign wording – warning and patron - juxtaposed with the space (Pelzer Park/Pityarilla (Park 19)) and the activity being referenced (free, non-ticketed public celebration of the reopening of the Park's Activity Hub) temporarily transformed the public park to an exclusive, regulated space of negotiation and potential conflict. As identified in Chapter Four, exclusive activities can be overt (paid events, legible ownership and regulation via policies and signage to control or prohibit access and behaviour) or subtle (free events, small footprints, and temporary change of use such as personal training in a park). Overt and subtle activities were noted during this event, resulting in an ambiguous distinction between private and public space with free activities (live music, speeches) and commercial offerings (food trucks, face painting) specifically selected to draw a crowd for the duration and encourage the crowd to leave promptly at its conclusion. In this instance the consequence of a diminished distinction between private and public was of no concern and the private activities were of benefit to a greater diversity of people that would normally occupy the space. Again, this is supported by findings in Chapter Nine, which suggested that when exclusive activities within public space are subtle, fluctuate or are within a defined period, the consequences of limiting public access are minimal and may in fact be positive.

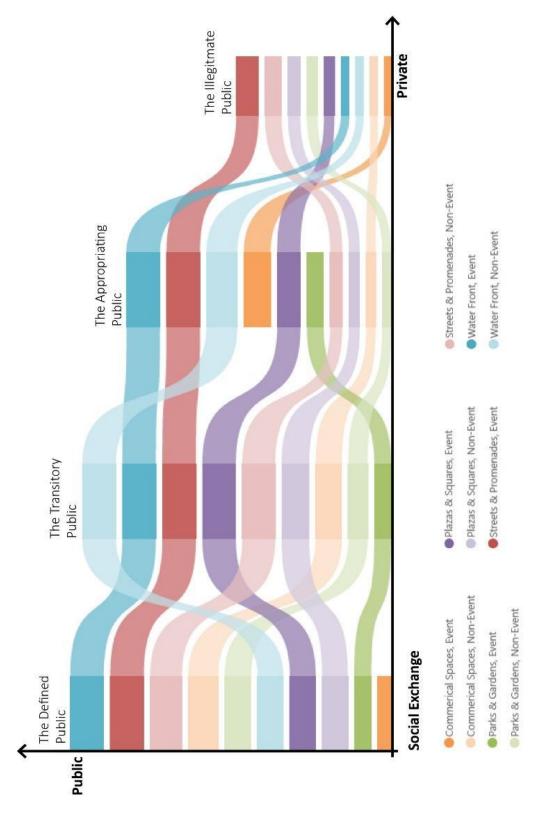


Figure 10-3: Spectrum of Publicness. Representation of the publicness of public space as an outcome of public and private social exchange influenced through the presence of events and in recognition of the typology of publics.

The findings show that the publicness of public space is a spectrum (Figure 10-3) and not an absolute. The spectrum accommodates shifting degrees of publicness through varying forms of temporary activation and public accessibility. Accessibility and publicness are not determined by the deliberate inclusion of specific users at a particular time, and events are not necessarily a method of ongoing exclusion. Rather, accessibility and publicness are directly related to the temporal nature of spatial occupation and events can foster diversity, interaction, and community engagement as an outcome of social exchange.

If, as shown in this thesis, publicness is an outcome of *use* by a *range of publics*, landscape architects are in a pivotal position to effectively influence public space design when faced with balancing the demands of clients and the public. While landscape architects may need to design sites that are recognisable examples of expected models of public space, they have an obligation and role to increase the diversity of users through generating new possibilities for social exchange. Those who do not recognise or acknowledge the spectrum of publicness contribute to a legacy of poorly designed public spaces that may be public in name but not in function.

10.2 Improving assessment methods

To improve the publicness of public space, various analytical methods, techniques, and tools used by landscape architects were reviewed (Chapter Six). The review highlighted that approaches to assessing public space were limited. In particular, a new methodological approach that positioned events in the context of a growing calendar of temporary activities was required. In addition, the thesis highlighted that available approaches were fragmented and only provided findings within a narrowly defined study and site context. The lack of assessment methods for public space, that include temporary events and activities, is a weakness for landscape architecture where contemporary public space is a response to simplistic institutional brief requirements emphasising budgets, politics, or aesthetics.

In response, this thesis developed and presented the Design Assessment Framework (DAF) in Chapter Seven. The DAF provides pre- and post-design assessment as a guide for alternative design strategies and policy formation for publicly accessible landscapes by two means. The first is to comprehensively capture and assess elements of the existing environment. The second is to introduce a new tool for measuring the degree of publicness in public space. Its point of difference is benchmarking overall publicness by the positioning of the user as the key element in the definition of public space - *social places outside*

the home and workplace generally accessible by all members of the public, and which allow for interaction and opportunities for contact and proximity.

Used in Chapter Nine, the DAF measured the publicness of public spaces in 16 public spaces in Adelaide, South Australia. The findings are significant as they revealed a nuanced relationship between fixed and additional elements, necessary (site specific) and optional (non-site specific) activities, and the publicness of public space. The key findings include:

- No case study site revealed a consistent DAF rating. There were significant fluctuations in the presence of different publics between site visits and therefore the publicness of the spaces;
- Most sites demonstrated temporary interventions, such as additional seating provided by food vendors during events, were attractors as they increased length of stay, compared to standard layout, surfaces and context. For instance, Himeji Garden's DAF rating increased from m=3.42 to m=6.25 and site elements increased from m=0.33 to m=7 when additional elements where present, supporting the conclusion that temporary interventions within the physical space can positively contribute to public space; and
- Most sites revealed a positive relationship between optional activities, additional elements, and publicness, as shown by a clear trend indicating temporary measures are variables associated with increased use. Additional beverage and food, lighting, public art, seating, and security presence were variables associated with increased use and publicness in all sites except Commercial Spaces.

The pool of data analysed in Chapter Nine not only provides landscape architects with an appreciation of how, and why different publics are attracted to or avoid spaces, it also shows publicness is positively related to flexible design, diversity of users and diversity of activities, emphasising that public spaces are not static. In doing so, the DAF offered a way to systematically compile data necessary for effective design, not a standardised list of elements to be included in all public spaces. Effective design (discussed 10.4) requires an understanding of context, data on who is using the site, data on activities, and data on site elements, surfaces, and structures.

The DAF provided the acknowledgment of diversity, and significant insights into a recent project of the Author's: the development of Morton Road Sports and Community Hub, Christie Downs. This project is a collaboration of the City of Onkaparinga, the local community, state government, commonwealth government and the Roger Rasheed Sports Foundation to transform a reserve perceived negatively because of security and safety issues into an active sports and recreation hub. The initial design brief was to deliver a skate park (Figure

10-4) and multi-use tennis courts for the Roger Rasheed Sports Foundation's free sports coaching and mentoring programs for children from disadvantaged backgrounds.

However, the application of the DAF found the brief should be expanded to increase the diversity of publics who frequent the site and facilitate opportunities for informal positive social exchange. Further, a missing need was highlighted and resulted in the proposed installation of lighting and direct paths of travel required for those who transitioned through the site after hours. As a result, the built outcome, scheduled late 2021, will include activity nodes such as playspaces (junior and youth), entertainment hubs (bbq) and passive areas (seating, walking paths, open space) designed for flexibility and to allow a diversity of temporary activities and formal events to occur.



Figure 10-4: Morton Road Skate Park in construction. (Photo by author 2021)

To determine the success of the development the City of Onkaparinga would typically undertake a post-occupancy evaluation consisting of pedestrian and traffic counts. Because of the Author's involvement, the DAF will be applied post design to assess the social outcome of the development and determine if the change of brief increased the reserve's publicness by attracting a diversity

of users and facilitating positive social exchange, thus influencing the perceptions of the reserve. The findings from pre and post design assessments will be incorporated into the City of Onkaparinga's design brief and open space framework (policy document) to emphasise to roles of users in decision making.

Landscape architects can and should build on data from previous site assessments to enable effective design and expand institutional briefs. Building on previous site assessment is applicable for new developments, such as Morton Road, or redevelopments, such as the Hajek Plaza, a missed opportunity reflected upon in 10.5. The successful integration of the DAF into practice will be subject to landscape architects' willingness to acknowledge the temporary nature of many activities by different users. How the DAF contributes to landscape architectural practice is further outlined in Chapter Eleven.

10.3 Events are opportunities not threats

To interrogate whether *temporary events pose a threat to public space* a methodical examination of public space (Chapter Three), narratives of erosion (Chapter Four) and diversity of publics (Chapter Five) was undertaken in Part A. The examination was followed by Part B, which explored the role of events and showed that the answer is not straightforward and cannot be quantified by a percentage. Part B demonstrated that the answer must consider that public space is in a constant state of change, created through a nuanced relationship between the public, fixed, and additional elements, necessary (site specific) and optional (non-site specific) activities. This relationship is why public spaces are significant areas of social interaction, conflict, research, and debate and why events are opportunities and not threats to publicness.

Public space debates can assume a simplistic ideal of public space. Neither 'free' nor 'all' need to be consistent attributes. Public spaces have a long history of contest created by activation, events, marketing, and privatisation, resulting in times of exclusion and times of social cohesion or celebration. How the degrees and forms of contest evolve and fluctuate, highlight the ways public spaces are used by different publics, who are also in flux, changing from one typology, such as the defined public, to another, such as the illegitimate public, because of their chosen activity.

In response, this thesis focused on performance, social value, and activation of public space. This allowed for a deeper investigation into the concept of accessibility, recognising a spectrum of publicness. Accessibility was tested by an analysis of events as they foster a unique category of timed and temporary

social exchange. The ability of events to be variously public and private is a result of the inconspicuous and self-evident nature of public space, being simultaneously a magnet and menace. The magnet, to reiterate, is the invitation and freedom for all to experience space and take part in social exchange. The menace is activation that temporarily impedes publicness and controls behaviour, often depicted as exclusion and privatisation.

Chapter Nine, considered in relation to the literature examined, showed that the influence of events on public spaces is a result of how the space is temporarily modified. The study of 16 public spaces in Adelaide demonstrated that events were a positive influence on public space through the provision of temporary change and activation. This conclusion was the same for events labelled as private or public. Some sites promoted cross-over activities such as education and play with markets (seen at Gilles Street School), some temporarily limited access during sporting events, music festivals or cultural events (seen at Elder Park, Stella Bowen Park/Tarntanya Wama, Park 26), others provided a spectacle such as art exhibitions, engagements or weddings (seen at Himeji Gardens), or provided entertainment such as street parties (seen at Moonta Street), or family gatherings such as birthday parties (seen at Glover Playground). Regardless of various forms of temporary restrictions to access or use, these sites all increased in publicness during the events observed as they increased the number and diversity of publics present.

The typology of publics identified in this thesis was used to measure whether temporary events were threats or opportunities. As the case studies demonstrated, competing demands between the defined, appropriating, transitory or illegitimate publics could coexist when activities were temporary. Events provided opportunities for competing demands and publics to coexist.

Within Adelaide there are numerous public spaces, owned and governed by local government for the public, which illustrate that events are a positive influence on public space. Five examples are presented below.

Pelzer Park/Pityarilla (Park 19), introduced at the start of this thesis, is a traditional park and garden. Its redesign as a community recreation hub emphasised an opportunity for temporary commercial activities (events) to diversify user groups and increase length of stays. The outcome included power bollards for events, hardstand areas for food trucks and marquees, and policy change allowing public areas to be booked for temporary private activities. These items were seamlessly integrated with traditional park and garden elements such as play equipment, picnic tables and shelters. The integration allowed for overt events such as the community opening (Chapter One) and subtle events such as birthday parties and bike tours to occur simultaneously. Within Pelzer Park/Pityarilla (Park 19) non-commercial activities such as freely

meeting family and friends continued and in some instances were enhanced during events.

Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26), one of the case study sites, is a traditional waterfront and preeminent public space in Adelaide, designated for large events. Its design is open, simple with minimal infrastructure or fixed amenities. Events held are diverse, drawing specific publics such as personal training sessions and corporate cup (annual running and walking event) without alienating regular users. It also hosts large community and cultural events such as the annual Adelaide Festival concert series, which displaces regular users for a defined period. The series includes such offerings as the *Neil Finn free open-air concert* (Figure 10-5) and the *Summerhouse* (Figure 10-6) representing two different event opportunities.



Figure 10-5: Neil Finn free open-air concert in Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) as part of the 2017 Adelaide Festival. (Photo by author 2017)



Figure 10-6: The Summerhouse in Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) as part of the 2021 Adelaide Festival. The venue hosted music concerts and a free entry bar with views of the park land. (Photo by author 2021)

These two events had different reliance on commercial activities to attract publics and two different degrees of site modification. The Neil Finn event used the spectacle of a concert and his celebrity to attract and engage diverse publics. The event allowed attendees to bring their own food and drink, with more available for purchase. There was no age limit and no pre-purchased seating. The event layout kept movement patterns open for transitory publics and defined publics around the site, did not actively exclude illegitimate publics and welcomed the appropriating publics. The Summerhouse attracted diverse publics through a combination of free activities (Breakfast with Papers) and restricted entry activities (Vinyl Destination). The activities welcomed appropriating publics while alienating regular users and excluding illegitimate publics. The event was primarily for those over 15, outside food and drink was not permitted, and all activities were seated. The commonalities between these two events were the celebration of community and encouragement of diverse positive social exchange. The events, both well attended, provided an opportunity for those who would not normally visit Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) to venture to the precinct and engage with other publics. Unlike Pelzer Park/Pityarilla (Park 19) non-commercial activities such as freely meeting family and friends did not continue and were not enhanced during events.

The Fork in the Road - The Forkening - Unley-sh Your Hunger! - held at Orphanage Park Millswood (Figure 10-7) and the Bowden Fringe held at Bowden Park (Figure 10-8) are further examples of events organised for community entertainment centred around the inclusion of commercial activities. Both were held in traditional public spaces, designed for passive recreation and family gatherings. The events were marketed as community initiatives and programmed as hubs of activity with free entertainment (face painting, lawn games, buskers) and ticketed entertainment (fringe shows, magicians). The sites were temporarily modified to include additional seating, bins and shelters, while still allowing for transitory publics to move through the space. Both events were well attended, with many users bringing their own blankets, chairs and games. The mix of activities and site elements diversified user groups, encouraged interaction, and encouraged the public to linger. Similar to Pelzer Park/Pityarilla (Park 19) non-commercial activities such as freely meeting family and friends continued and in some instances were enhanced during events.



Figure 10-7: Fork in the Road - The Forkening - Unley-sh Your Hunger! – held at Orphanage Park Millswood. The event ran from 11am-4pm and featured a variety of new and old food trucks, drinks, free kids entertainment and live music. (Photo by author 2019)



Figure 10-8: Bowden Fringe at Bowden Park included a program of entertainment, with a mix of free and ticketed activities for the Bowden Community, live music, family entertainment, Fringe shows, food trucks, local wines and craft beer tasting, alongside the commercial activities of Plant 4 markets. (Photo by author 2019)

The events discussed above were complementary to existing uses (recreation, gathering and entertainment), temporary and promoted as accessible for all. They were planned to attract a crowd and to disperse the crowd when events concluded. Once the events were concluded, all sites reverted to their regular function as community hubs for recreation for which they were designed. They demonstrated how events can increase publicness by providing a series of activities that could be engaged with separately and independently of each other, forming an overall event of many social activities. The importance of these examples lies in the generation of new social exchange, even temporarily, where it might not otherwise occur.

If, as shown in this thesis, events are opportunities and not threats to public space, landscape architects are in a pivotal position to effectively influence public space design by accommodating formal activities proposed by clients

and informal activities by diverse publics. The influence lies in a more varied and inclusive consideration of how public space might be used and an acknowledgment that increasing the diversity of users generates new possibilities for social exchange. This approach contributes to the discourse of contemporary landscape architecture, from the policy and management focus of local governments to the design perspective of private practice.

This does not mean landscape architects should explicitly design and plan for events nor promote policy that mandates all spaces facilitate events. Rather landscape architects have an obligation to advocate for better design and inclusive public spaces that are public in function and name. In doing so, landscape architects should promote the opportunities events provide to bring the community together for positive social exchange.

While there is much concern about threats to public spaces, a more pressing concern should be that we are not attracting diverse people to public space in the first place, and this should be a designer's logical first focus for effective design. Without this first step *how public* may be a moot point.

10.4 The DAF for effective design

To provide guidance for effective design, a clear definition of *effective* is required. In response, the following definition has been offered.

Public space design which enhances public access and activity, facilitating publicness through the promotion of diverse user experience, diverse site conditions and diverse site elements.

This definition acknowledges the importance of diversity. The definition expands on the generalised assumptions and models of successful public space, outlined in Chapter Four, typically used to celebrate built outcomes. Successful public space design, as stated in the literature reviewed, is often determined by a simplistic idea of accessibility, and characterised by range of components and perceptual qualities (Table 4-2). The difference between effective and successful is the acknowledgement of the nuanced relationship between the diverse public, site elements and activities discussed above.

If, as shown in this thesis, publicness is an outcome of *use* by a *range of publics*, landscape architects should focus on *effective* design rather than *successful* design. This focus will influence public space design, from site feasibility studies and community consultation through to post occupancy assessments. The focus is applicable for speculative design, design strategies and policy

formation for publicly accessible landscapes, in education, public and private practice sectors.

The DAF is ideal for guiding effective design as it offers data driven pre- and post-design assessments. The contribution of the DAF include:

- Provision of data to supplement, debunk or support site specific perspectives of use;
- Provision of clear evidence of existing spatial site use, which can be used as a foundation for conversations during community consultation and design review;
- Provision of cost effective and targeted site analysis and site investigation, providing clear data to understand site context and users;
- Provision of data for feasibility analysis, and modelling allowing examination of speculative design and development proposals to determine if or how proposed new facilities could be beneficial to the performative value of the site;
- Provision of data to scope change and inform design briefs to ensure access and equity is achieved promoting social exchange;
- Provision of data to inform place planning and grant applications;
- Provision of clear evidence of use for strategies and planning policies, enabling benchmarking, targets for ongoing review;
- Provision of a transferable system of measurement, to enable detailed review of city-wide public spaces to assist in forecasting expenditure and creating works programs to ensure diverse spaces are created and maintained;
- Facilitated and increased knowledge transfer between built environment research, education, governance, and practice;
- Provide data to improve site and research documentation;
- Provide data documenting change in a public space over time as a before and after survey; and
- Provision of post-occupancy data to evaluate what is working well and provide a evidence base for future improvements.

The contributions, outlined above, include key examples of possible wideranging applications. In summary, the DAF guides effective design by providing a reliable data driven tool to assess temporary activities and a means to understand how to increase the diversity of publics using public space. By providing a data driven foundation for critical and speculative design, landscape architects can explore the many ways that a site might enable and encourage co-habitation of diverse publics within a site at the same time and over time in regular cycles of various lengths. This exploration will minimise controversy or misunderstandings created by too-simplistic ideas of public accessibility. The application of the DAF is an opportunity for landscape architects to influence public space, champion publicness and become built environment leaders.

10.5 Public space reflections

Landscape architects are in a pivotal position to influence the effective design of public space and create richer spaces, rather than a division of public and private. The redevelopment of Hajek Plaza into Adelaide Festival Plaza is a missed opportunity where landscape architects could, and should have, unravelled the spectrum of publicness to build on the interrelationship between the public and temporary events.

Hajek Plaza, one of the case study sites explored in this thesis (Figure 10-9), was a 1977 collaboration between Hassell and Partners and Czech-born sculptor Otto Hajek entitled the 'City Sign' (SA Memory, 2003; South Australia Government, 2016). The plaza was to be a modern garden and sculpture used as a meeting place, for entertainment, and for public enjoyment. The design was heavily criticised from its unveiling and never fulfilled Otto Hajek's vision (Langford, 2019). The modernist outdoor space was out of place in Adelaide's green urban fabric and as shown in the case study data (Chapter Nine) rarely attracted users unless an event was held. The space was too hot in summer, too glary in winter, vibrated when heavy vehicles used the underground parking and road network, flooded during large rain events, contained no wayfinding, and held no amenity despite the artwork.



Figure 10-9: Hajek Plaza as designed by Otto Hajek. (Photo by author 2014)

In 2015 Renewal SA, a South Australian State Government Department, announced plans to redevelop Hajek Plaza into Adelaide Festival Plaza. Their vision was to create a "world-class destination and the heart of the Adelaide Riverbank's core entertainment precinct" to "establish a world-class meeting space that all South Australians can be proud of and will want to spend time in" (South Australia Government, 2019). With an estimated budget of \$900 million the redevelopment, once complete, will include the upgrade of the Festival Theatre, a new public square, a 27-storey office tower, carpark, retail space and the proposed SKYCITY Casino expansion (Cheng, 2016; Gameng, n.d; South

Australia Government, 2019). \$760 million was committed by private developers, namely the Walker corporation and SKYCITY. \$220 million was committed for the festival plaza upgrade.

The 2015 concept design was developed by ARM Architecture and landscape architecture consultants Taylor Cullity Lethlean in collaboration with the Adelaide Festival Centre's architectural consultants Hassell (Figure 10-10). The designs have altered with Adelaide based landscape architecture firms including Oxigen and Aspect Studios involved in the strategy, planning, design and documentation of select work packages. To date three work packages have been completed, namely a new tram line and stop, and the riverbank promenade to ensure public accessibility to the Festival Theatre during construction.



Figure 10-10: Adelaide Festival Plaza Concept design 2015 (Image credit South Australian Government, 2019)



Figure 10-11: Adelaide Festival Plaza stage 1 of the redevelopment open to the public. (Photo by author 2021)

The aspirations of the 1977 design and the 2015 concept design are the same. Both proposed to create a space for public gatherings and events, be the centrepiece of a revitalised arts culture, and provide leisure space for city

workers (Figure 10-11). The difference is the execution and materiality. The 1977 design included the hardscape of a traditional Mediterranean plaza that emphasised form and function, with Otto Hajek's geometric concrete sculptures acting as the key attractor to invite the public to linger. The 2015 design represents recent landscape architectural trends with the inclusion of water features, shade and planted arbours covering up to a third of the plaza, and outdoor rooms reducing the scale of the space. The 2015 concept proposes retail activities and free WiFi access as means to invite the public to "linger and embrace the Adelaide climate" (South Australia Government, 2019), characterised by hot, dry summers and mild, wet winters.

The controversy of the plaza design continues. Unlike the 1977 commentary, which focused on the design and aesthetics of the landscape, the 2015 and ongoing commentary has focused on the private development and partnerships established for the project to proceed. Recent design concerns also have a commercial slant with the Adelaide Festival Centre, Adelaide Casino and Adelaide Venue Management stating the plaza area is inadequate to safely stage large events because of unnecessary and obstructive design features (AdelaideNow, 2019). We will need to wait until late 2021 to see if the public reacts to the redevelopment in the same manner as they did for Otto Hajek's proposal.

The missed opportunity for landscape architects and for Adelaide Festival Plaza was the acknowledgement of a spectrum of publicness and the careful consideration of how the proposed public and private uses could interact and overlap to create seamless publicly accessible space. By acknowledging that the distinction between public and private is in a constant state of flux the plaza could be opened to a diversity of users. Further, design for inclusion of temporary event activities to facilitate moments of social exchange for a wider diversity of publics is required to meet the 2015 concept design aspiration. This is of importance as the proposed mixed uses include competing stakeholders (office tower, government agencies, festival centre and casino) and competing publics (transitory and defined) attracted to and through the public functions (outdoor rooms for the arts, cultural and leisure spaces).

An acknowledgment of the diversity of publics is imperative when open space is at a premium in the context of urbanisation, population growth and climate change. The challenge to landscape architects will be accommodating diversity and encouraging positive social interaction in a plaza marketed as a site of spectacle. The approach of landscape architects to ongoing re-design of public space will increase public accessibility and foster sustainable spaces increasing amenity, safety, and liveability.

Chapter Eleven Concluding reflections

Figure 11 - 1: Neil Finn free open-air concert in Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) as part of the 2017 Adelaide Festival. (Photo by author 2017)



Chapter Eleven summarises the contributions of the research, and directions for further research. The thesis concludes by reflecting upon the current state of play of public space and providing an afterword reflecting on the importance of public space.

11.1 Contribution of the research

This thesis sought to expand the theoretical debate regarding the publicness of public space to the discipline of landscape architecture. In doing so, it recognised a need to develop resources and frameworks with practical applications for education, and the public (government) and private (practice) sectors.

This work contributes to wider debates about the publicness of public spaces, offering a new definition of public space, a new typology of publics and the Design Assessment Framework (DAF) to assess public spaces for effective design.

The new definition of public space encapsulates current concerns, focussing on the value of publicly accessible space to foster social activity and exchange.

The typology of publics—the defined public, appropriating public, transitory public and illegitimate public—outlined in Chapter Five recognises the diversity of publics in public space and acknowledges that this diversity cannot be predicted or controlled. In proposing the typology, the thesis has contributed to theoretical debates and education through examining who is public and why all users should be considered public.

The emphasis on a user typology highlighted the gap in knowledge, identified in Chapter Seven, regarding public space frameworks and assessments. The DAF addresses this gap and provides a data-driven integrated approach to measure public spaces and assess publicness. Its point of difference is in the positioning of the public as the key element in the proposed definition of public space.

By emphasising publics instead of legal ownership, this thesis has recognised a link between activation, design and management of public spaces, concluding events can positively contribute to the accessibility of public space by increasing the opportunity for public spaces to cater to a broad representation of the public or many publics. The emphasis on public also contributes to education through providing a data driven foundation for critical and speculative design. Further, it provides an important and timely counter point to the majority voice presenting narratives of erosion of public space. This

counter point allows landscape architects to explore the many ways in which a site might enable and encourage co-habitation of diverse publics within a site, both at the same time and over time, in regular cycles of various lengths.

The focus on activity and providing more variously used and valued open space generates opportunities for fundamentally changing the way that public spaces operate. The DAF facilitates knowledge transfer between built environment research, practice and governance bodies, bridging the gap between theory, design and management. In doing so, the thesis has contributed to the role of landscape architects by providing a reliable tool to assess temporary activities and a means to assess how to increase the diversity of publics using public space.

11.2 Directions for further research

As the thesis developed and data were analysed, several study areas were highlighted by the researcher that would benefit from additional research and testing. Further research opportunities include:

- in-depth testing of the DAF in other Australian and international cities to assess transferability of the framework and further challenge the definition of publics and public space;
- focus on public space typologies that were beyond the scope of this thesis, such as memorial gardens and grounds, show grounds and state and national parks;
- in-depth analysis of events that are long term—over one month in duration—and permanent forms of private activities. Example events include Tree Climb Adelaide, the Adelaide Fringe Festival Garden of UnEarthly Delights and Superloop Adelaide;
- in-depth analysis of commercial settings that rely on public attendance and market themselves as public. Example locations include the Adelaide Zoo, Museums and Art Galleries;
- addressing cultural appropriation of space and illegitimate users through questions of public space exclusivity;
- in-depth testing to confirm how adaptable the DAF is to non-academic assessment environments and everyday practice; and
- addressing the effects of natural disasters and interruptions to expected lifestyles such as those caused by the coronavirus epidemic (COVID-19, which occurred during the finalisation of this thesis) on the use of public space and diversity of publics within public space during times of social isolation or enforced limitations to access.

11.3 Conclusion

This thesis expected to find that events transformed public spaces into exclusive spaces represented by loss of public diversity. Instead, the findings highlighted that a new approach to the definition of 'public space' and 'public' was required. The thesis identified that no single ideal public space exists. Publicness is a spectrum reflecting diversity of users and diversity of activities, which can be enabled by flexible or otherwise considered design. Events can foster diversity. This encourages interaction, community engagement and social exchange.

The thesis has emphasised the importance of temporary activity in the provision of public space, which is an acknowledgment of complexity in providing inclusive social space. This emphasis positions the public as the defining factor of publicness. Further, the findings suggest that there is not an erosion of public space, but a lack of positive social activity, concluding that events can positively contribute by increasing the opportunity of public spaces to cater for a broader demographic representation.

The findings of the thesis call for nuanced attention to public space and highlight the need for a more effective assessment of public space that considers the temporal nature of social exchange. The developed typology of publics and the DAF offers an effective tool for landscape architects to assess how and why different publics are attracted to different public spaces. This same framework demonstrates that temporary events are not necessarily a threat to the public accessibility (publicness) of space and may increase it.

An acknowledgement of change, and the spectrum of publicness (refer 10.3), has specific implications for landscape architects concerned with the effective design of public space and places them in an influential position through questioning and recognising the complex relationships between public and private within urban public spaces. As designers of public space, they must concede they work within a complicated landscape where all choices are open to public scrutiny and shifting priorities for use. Landscape architects could, and should, unravel the spectrum of publicness, as they have the training to recognise the importance of place and the skills to encapsulate the importance of place through design. With an acknowledgment of the spectrum of publicness (Figure 10-3) and the tools to demonstrate this to others through clear assessment of sites and site use, landscape architects can create richer places for the public to interact.

Whether working in government (public sector) or as consultant (private sector) the DAF can help landscape architects, deliver better design and management of public spaces. The position of landscape architects in local or

state government bring with it influence that can improve institutional briefs and regulatory planning instruments, or create strategic directions or documents, style guides or design principles, that advocate for and support better design.

The new typology of publics and the DAF are the means for landscape architects to assess public spaces for implementation of a spectrum of inclusivity. This positive perspective dispenses with awkward justifications of designs for an ill-defined and increasingly irrelevant division of public and private space in the evolving, rich and complex open spaces of our cities.

Welcome, a spectrum of Publicly Accessible Spaces Ahead!



11.4 Afterword

This thesis started with the assumption that public space should be accessible for all. This assumption shaped my practice and pushed me to investigate how public is public space. The analysis presented in the preceding chapters represented a controlled study environment and concluded that the publicness of public space is a spectrum and not an absolute. What I was not expecting was that events in 2020 and 2021 would provide an opportunity to observe the nuances of this spectrum while I was finalising my thesis.

The World Health Organisation declared a worldwide public health emergency of international concern on 30 January 2020 and a worldwide pandemic of the coronavirus disease 2019, commonly known as COVID-19, on 11 March 2020 (WHO 2020). From 21 March 2020, measures including physical distancing laws (social distancing) and border closures were progressively put in place to protect South Australians and flatten the COVID-19 curve (South Australia Government 2020; SA Health 2020). At the height of the measures—between 27 March and 11 May 2020—unprecedented restrictions for gatherings were put in place. People were discouraged from using public spaces such as skate parks (Figure 11-5) and playgrounds (Figure 11-6), with many council's deciding to temporarily close or restrict access to them. Live entertainment venues also closed. Restaurants and pubs became takeaway only, with popular outdoor dining streets emptied (Figure 11-7). Fines were issued to those breaching physical distancing laws and COVID -19 restrictions.



Figure 11-3: King Rodney Park/Ityamai-Itpina (Park 15) Skatepark. Barrier installed by the City of Adelaide to temporarily close the skate park to protect the health of residents.

(Photo by author 2020)



Figure 11-4: King Rodney Park/Ityamai-Itpina (Park 15) Glover East Playspace. Signage installed by the City of Adelaide to temporarily close the playspace to protect the health of residents. (Photo by author 2020)

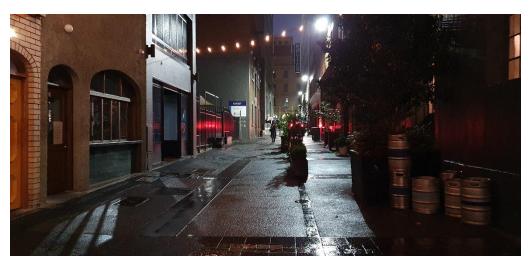


Figure 11-5: Peel Street transformation from a busy outdoor dining venue on a Friday night to an empty street. (Photo by author 2020)



Figure 11-6: Chalk Art around the City of Unley created as a way for neighbours to connect and interact. (Photo by author 2020)

The emphasis on social distancing had a profound and immediate impact, changing the atmosphere of Adelaide overnight. As restrictions escalated, the overlooked significance of public spaces in our daily lives became news items, opinion pieces and a visual representation of the pandemic. Walls and Walliss (2020), Klinenberg (2020), Walker (2020), Suricio (2020), Kling (2020), Tovey (2020), Butler-Bowdon (2020) and Iveson (2020), Honey-Rosés et. al (2020) Alter (2020) Florida (2020) Null and Smith (2020) Roberts (2020) and van der Ber (2020) are a few of many planners, designers, architects, landscape managers and journalists who contributed to a wide discussion of the effect of COVID-19 and public space. The discussions primarily centred on right of access, creeping commercialisation and what will be the long-term impacts of the COVID-19 pandemic on public space once the restrictions have been lifted. Many authors questioned if a fundamental 'change will be created for our relationship with public space and presented a fear that our sense of place and space may be permanently transformed' and an 'uncertainty about how COVID-19 will impact future public space design' (Honey-Rosés et al. 2020, p. 2). The same arguments have been presented in the preceding chapters in which this thesis provided a counter point, COVID-19 just replaced erosion in the debate.

An acknowledgement of the performative value and social context—core of the thesis argument—of public accessible space also became apparent, without being linked to legal ownership or rights. What many had taken for granted—the power of publicly accessible space to create public life, connect people and foster connections to spaces—was observed. The playgrounds, the outdoor dining areas, the festivals were celebrated for the connections and social proximity they provided rather than demonised for eroding public space. The true nature of public space—the ability to invite everyone no matter their age, gender, physical ability, or social status to interact, engage and feel a part of a collective public life—became the discussion point. The discussion mirrored the definition proposed as part of this thesis and conclusion that temporary activities, such as events, facilitate moments of social exchange for a wider diversity of publics.

COVID-19 highlighted that everyday moments in public life are inspirational, and connections, no matter how small, are paramount for public life. I observed this first hand from a routine of walking in my neighbourhood each day, which three months pre COVID-19 I would not have done as I did not feel comfortable or welcomed. Pre COVID-19 it was hard to believe people lived in my neighbourhood, as the sightings were rare of anyone except commuters. This green neighbourhood changed for the better. There were signs of life from people out walking or riding and acknowledging others with a friendly hello, to front yards becoming the centre of family activities. Importantly people were

interacting and reaching out to others (all with the 1.5 m social distance in mind).

Best of all is what I refer to as the rise of the chalk artist (Figure 11-5 and Figure 11-9). Children were taking back our most prolific public space, the footpath, and no one questioned their right to do so. Hopscotch, running tracks, obstacle courses, messages of hope and greetings appeared throughout the neighbourhood. This small sign of life brought a smile to those who passed, with people interacting by either responding to the messages with their own or taking up the obstacle challenges. These signs of life demonstrated the small ways in which people were connecting and why a real connection to place is needed to maintain a public life.

We have an opportunity to put in practice what we aspire to and not take public space for granted. This thesis is a body of research to help position landscape architects to play a curated role for future-proofing cities in times of need and assist in ensuring a prosperous social state of play.

Reference List

6° Urban. (2013) Adelaide fine grain a strategy for strengthening the fine grain of the Adelaide City Centre. South Australia, Adelaide City Council.

Α

ABC News (2019) Melbourne's Federation Square granted heritage status for historical, social significance, *ABC News*, 27 August 2019 Available from: https://www.abc.net.au/news/2019-08-27/federation-square-receives-heritage-listing/11451664 [Accessed: 1 September 2019]

AdelaideNow (2019) Festival Plaza Adelaide: Alarm raised over redevelopment, AdelaideNow, 9 November 2019 Available from:

https://www.adelaidenow.com.au/south-australia-adelaide-oval-festival-centre-convention-centre-and-casino-raise-festival-plaza-alarm [Accessed: 8 December 2019]

AILA (n.d.a) Landscape Architecture - A Profession of 'Place' Available from: https://www.aila.org.au/imis_prod/AILAWeb/2015_News/Landscape_Architecture__A_Profession_of_Place.aspx [Accessed: 28 October 2018]

AILA (n.d.b) What is a Landscape Architect? Available from: http://www.aila.org.au/iMIS_Prod/AILAWeb/Explore_Landscape_Architecture/Become_a_Landscape_Architect/AILAWeb/Become_a_Landscape_Architect.aspx?hkey=44f1299b-4162-40e7-a03c-2efeb4d090d8 [Accessed: 28 October 2018]

AILA (2019) International Key Note Addresses. *The Square & The Park* Melbourne, Victoria, Australia. 10-13 October. Available From: https://www.aila.org.au/TSATP/Home/TSATP/Default.aspx?hkey=39717070-b978-492a-b2d6-c59aab8cd866

Alexander, C. (1977) A Pattern Language: Towns, Buildings, Construction. New York, Oxford University Press.

Amin, A. (2008) Collective culture and urban public space. *City: Analysis of urban trends, culture, theory, policy, action.* 12 (1), 5-24.

Amir, S. & Gidalizon, E. (1990) Expert based method for the evaluation of visual absorption capacity of the landscape. *Journal of Environmental Management*. 30, 251-163.

Aoki, Y. (1991) Evaluation methods for landscapes with greenery. *Landscape Research*. 16 (3), 3-6.

Aoki. Y. (1999) Review article: Trends in the study of psychological evaluation of landscape. *Landscape Research*, vol.24 (1), 85-94.

Appleyard, D. (1980) Liveable Streets. Berkeley, University of California Press.

Appleyard, D., Lynch, K., & Meyer, J.R. (1964) The view from the road. *Joint Center for Urban Studies of the Massachusetts Institute of Technology and Harvard University.* Cambridge, Massachusetts, MIT Press.

Appleton, J. (1975) Landscape evaluation: The theoretical vacuum. *Transactions of the Institute of British Geographers*. 66, 120-123.

ArchitectureAU (2020) NSW government introduces public space charter, *Landscape Australia*, Available From:

https://landscapeaustralia.com/articles/nsw-government-introduces-public-space-charter/?utm_source=Landscape+Australia&utm_campaign=1d51dd09f5-

LA_2020_26_october&utm_medium=email&utm_term=0_99db55805d-1d51dd09f5-41166509&mc_cid=1d51dd_09f5&mc_eid=1dea19eddc_[Accessed: 31 October 2020]

Arefi, M. (2009) Publics and the city. Journal of Urban Design. 14 (2), 230-231.

Arendt, H. (1958) The Human Condition. Chicago, University of Chicago Press.

Arendt, H. (1965, 1973) On Revolution. London: Penguin Press.

Asen, R. (2000) What put the 'counter' in counterpublic? Communication Theory. 10, 424-446.

Aspect Studios (2020) *About Us* Available From: https://www.aspect-studios.com/au/ [Accessed: 27 September 2020]

Australian Government Department of the Environment (2015) *The Adelaide Parklands and City Layout, South Tce, Adelaide, SA, Australia.* Commonwealth of Australia, Australia. Available from:http://www.environment.gov.au/cgi-

bin/ahdb/search.pl?mode=place_detail;place_id=105758 [Accessed: 21 March 2015]

Australian Institute of Criminology (2003) *Understanding situational crime prevention*. AIC, Australia. Available from: http://www.aic.gov.au/publications/current%20series/crm/1-20/crm003.html [Accessed 29 June 2014]

Australian Institute of Landscape Architects (n.d.) What does a landscape architect do? Available from http://www.aila.org.au [Accessed: 24 July 2017]

Avermaete, T. & Teerds, H. (2007) Architectural Positions on the Public Sphere: the 2007 Delft Lecture Series [Dispatch] *Places* 19 (2), 36-39.

В

Balaji, M. (2014) *The Challenge of pluralism: Public sphere for me, but not for thee,* Available from:http://www.huffingtonpost.com/murali-balaji/the-challenge-of-pluralis b 4904864.html?view=print&comm ref=false [Accessed: 6 March 2014]

Balassiano, K. (2013) The mechanics of sustaining spaces for the public. *Planning Practice & Research*. 28 (5), 1-14.

Balram, S., & Dragićević, S. (2005) Attitudes toward urban green spaces: Integrating questionnaire survey and collaborative GIS techniques to improve attitude measurements. *Landscape and Urban Planning*. 71 (2), 147-162.

Bambrick, H. J., Capon, A. G., Barnett, G. B., Beaty, R. M., & Burton, A. J. (2011) Climate change and health in the urban environment: Adaptation opportunities in Australian cities. *Asia-Pacific Journal of Public Health*. 23 (2), 67S-79S.

Banerjee, T. (2001) The future of public space: Beyond invented streets and reinvented places. *Journal of the American Planning Association*. 67 (1), 9-24.

Barlow, E. (2001) Landscape Design: A cultural and Architectural History, New York, Harry Abrams

Barnes, M. (2002) The role of perception in the designing of outdoor environments. In: Shoemaker, C. (ed.) *Interaction by Design: Bringing people and plants together for health and well-being*. Iowa State Press, 135-140.

BDLA (n.d.) *The Work of Landscape Architects Today*. Available from: https://www.bdla.de/english/landscape-architecture-working-profile [Accessed: 28 October 2018]

Beauregard, R.A. (2004) The right to the city: Social justice and the fight for public space. *Annals of the Association of American Geographers*. 94 (2), 427-428.

Bechtel, R. B. & Zeisel, J. (1987) Observations: The world under a glass. In: Bechtel, R. B., Marans, R. W., & Michelson W. (eds) *Methods in environmental and behavioral research*. New York, Van Nostrand Reinhold Company, 11-4.

Bechtel, R.B., Marans, R. W., & Michelson, W. (1987) Introduction: Environmental Design Research. In: Bechtel, R. B., Marans, R. W., & Michelson W. (eds) *Methods in environmental and behavioral research*. New York, Van Nostrand Reinhold Company. 1-10.

Bedenbaugh, C. (2003) *Measuring fear of crime on campus: A study of an urban university*. Unpublished M.A. Thesis, University of Louisiana at Lafayette.

Bell, S. (1999) Landscape: Pattern, Perception and Process. London, E. & F.N. Spon.

Bentley, I. (1999) Urban Transformations: Power, People and Urban Design. Routledge, London.

Berman, M. (1982) All that is Solid Melts into Air: The Experience of Modernity. New York: Penguin Books.

Berman, M. (1986) Take it to the streets: Conflict and community in public space. *Dissent*. 33, 476-485.

Berney, R. (2010) Learning from Bogotá: How municipal experts transformed public space. *Journal of Urban Design*. 15 (4), 539-558.

Bertolini, L. (1999) Spatial development patterns and public transport: The application of an analytical model in the Netherlands. *Planning Practice and Research*. 14 (2), 199-210.

Bishop, I.D. & Hulse, D.W. (1994) Prediction of scenic beauty using mapped data and geographic information systems. *Landscape and Urban Planning*. 30, 59-70.

Bishop, P. & Williams, L. (2012) The Temporary City. London, New York: Routledge.

Blacksell, M. & Gilg, A.W. (1975) Landscape evaluation in practice: The case of south-east Devon. *Transactions of the Institute of British Geographer*. 66, 135-140.

Blakely, E. J. & Snyder, M. G. (1997) Fortress America: Gated communities in the United States. Washington, DC: Brookings Institution Press.

Blomley, N. (2004 *Unsettling the City: Urban Land and the Politics of Property*. London: Routledge.

Blumstein, A., Wallman, J., & Farrington, D. (Eds.). (2006). *The crime drop in America*. Cambridge University Press.

Boddy, T. (1992) Underground and overhead: Building the analogous city. In: Sorkin, M. (ed.) *Variations on a Theme Park*. New York, Noonday Press, 123-153.

Borst, H. C., de Vries, S. I., Graham, J. M. A., van Dongen, J. E. F., Bakker, I., & Miedema, H. M. E. (2009) Influence of environmental street characteristics on walking route choice of elderly people. *Journal of Environmental Psychology*. 29 (4), 477-484.

Bosselmann, P. (2008) *Urban Transformation: Understanding City Design and Form.* Washington DC: Island Press.

Bosselmann, P. & Craik, K. H. (1987) Perceptual simulations of environments. In: Bechtel, R. B., Marans, R. W., & Michelson, W. (eds) *Methods in environmental and behavioral research*. New York, Van Nostrand Reinhold Company, 162-190.

Borja, J. (1998) Citizenship and public space. *Urbanitats*. CCCB, Center of Contemporary Culture of Barcelona.

Bounds, M. (2004) *Urban Social Theory: City, Self and Society*. South Melbourne: Oxford University Press.

Boyer, M. (1993) The city of illusion: New York's public places, In: Knox, P. (ed.) *The restless urban landscape*. Upper Saddle River, New Jersey: Prentice Hall.

Boyer, M. (1994) The City of Collective Memory. Cambridge, Massachusetts: MIT Press.

Brantingham, P.L. & Brantingham, P. J. (1993) Nodes, paths and edges: Considerations on the complexity of crime and the physical environment. *Journal of Environmental Psychology* 13, 3-28.

Brower, S. (1980) Territory in Urban Settings. In: Altman, I. & Wohliwill, J.F. (eds.) *Human behaviour and environment: Advances in theory and research*. Volume 4. United Kingdom, Springer, 179-207.

Brown, L. J., Dixon, D., & Gillham, O. (2009) *Urban Design for an Urban Century: Placemaking for People*. Wiley.

Buchanan, C. (2007) Measuring pedestrian activity. Transport for London, London.

Buchanan, P. (1988) What city? A plea for place in the public realm. *Architectural Review*. 1101 (November), 31-41.

Butler-Bowdon, C. (2020) Now's time to treasure our public spaces. *The National Tribune*. 17 April 2020. Available from:https://www.nationaltribune.com.au/now-s-time-to-treasure-our-public-spaces/ [Accessed: 22 April 2020]

Burgers, J. (ed.) (1999) De Uistad: Over Stedelijk Vermaak. Utrecht, Van Arkel.

Burk, A. L. (2003) Private grief's, public places. *Political Geography*. 22, 317-333.

Byers, J. (1998) The privatization of downtown public space: The emerging grade-separated city in North America. *Journal of Planning Education and Research*, 17(3), 189-205.

Byrne, J., & Sipe, N. (2010). *Green and open space planning for urban consolidation—A review of the literature and best practice*. Urban Research Program, Griffith University.

C

CABE Space (2004) *The value of public space*. London, CABE – The Commission for Architecture and the Built Environment.

CABE Space (2007) *This way to better streets.* London, CABE – The Commission for Architecture and the Built Environment.

Campbell, E. (2012) Transgression, affect and performance: Choreographing a politics of urban space. *British Journal of Criminology*, 53(1), 18-40.

Canter, D. (1977) The Psychology of Place. London, Architectural Press.

Capps, K. (2019) Are Dog Parks Exclusionary?. *CityLAB*, 28 February 2019. Available from: https://www.citylab.com/equity/2019/02/chicago-dog-park-lincoln-yards-gentrification-racial-divide/581086/?utm_campaign=citylab-daily-

newsletter&utm_medium=email&silverid=%25%25RECIPIENT_ID%25%25&utm_source=news letter [Accessed: 27 January 2020]

Carmona, M. (2010a) Contemporary public space: Part One: Critique. *Journal of Urban Design*. 15 (1), 123-148.

Carmona, M. (2010b) Contemporary public space: Part Two: Classification. *Journal of Urban Design*. 15 (2), 157-173.

Carmona, M. (2015) Re-theorising contemporary public space: a new narrative and a new normative, *Journal of Urbanism: International Research on Placemaking and Urban Sustainability*, 8:4, 373-405.

Carmona, M. (2019) Principles for public space design, planning to do better. *URBAN DESIGN International*. 24, 47–59.

Carmona, M. & De Magalhaes, C. (2006) Public space management - present and potential. *Journal of Environmental Planning and Management*. 49 (1), 75-99.

Carmona, M., De Magalhaes, C. & Hammond, L. (2008) *Public Space: The Management Dimension*. London, Routledge.

Carmona, M., Heath, T., Oc, T. & Tiesdell, S. (2003) *Public Places Urban Spaces: The Dimensions of Urban Design*. Oxford, Architectural Press.

Carr, S., Francis, M., Rivlin, L. G. & Stone, A. M. (1992) *Public Space*. Cambridge University Press.

Carlson, A. (1993) On the theoretical vacuum in landscape assessment. *Landscape Journal*. 12 (1), 51-56.

Carter, P. (2005) The making of Federation Square: Mythform. Victoria, Miegunyah Press.

Carter, P. (2006) Writing public space: Design, philosophy, art. New Zealand Sociology, 21(1), 9.

Corman, H., & Mocan, N. (2005). Carrots, sticks and broken windows. *The Journal of Law and Economics*, 48(1), 235-266.

Cattell, V., Dines, N., Gesler, W., & Curtis, S. (2008) Mingling, observing and lingering: Everyday public spaces and their implications for well-being and social relations. *Health & Place*. 14 (3), 544-561.

Charlesworth, E. R. (ed.). (2005) *Cityedge: Case Studies in Contemporary Urbanism*. Oxford, Routledge.

Chen, B., Adimo, O. A., & Bao, Z. (2009) Assessment of aesthetic quality and multiple functions of urban green space from the users' perspective: The case of Hangzhou Flower Garden, China. *Landscape and Urban Planning*, 93 (1), 76-82.

Cheng, L. (2016) *Green light for ARM and TCL's Adelaide Festival Plaza redevelopment,* ArchitureAU. Available from:

https://architectureau.com/articles/green-light-for-arm-and-tcls-adelaide-festival-plaza/[Accessed: 8 December 2019]

City of Adelaide. (n.d.) *Adelaide Park Lands Events Management Plan 2016-2020.* Available from: https://d31atr86jnqrq2.cloudfront.net/docs/adelaide-park-lands-events-management-plan-2016-2020.pdf?mtime=20191021123417 [Accessed: 27 September 2020]

City of Adelaide. (n.d.) *City Facts & Figures*. Available from: https://www.cityofadelaide.com.au/city-living/welcome-to-adelaide/city-facts-and-figures/ [Accessed: 27 May 2018]

Clarke, J. (2004) Dissolving the public realm? The logics and limits of neo-liberalism. *Journal of Social Policy*, 33, 27-48.

Clarke, R. V. (1983) Situational crime prevention: Its theoretical basis and practical scope. *Crime and Justice: An Annual Review of Research*, 4, 225-256.

Clarke, R. V. and Felson, M. (1993) Routine activity and rational choice. Vol. 5. *Advances in Criminology Theory*. New Brunswick: Transaction Publishers, Inc.

Clay, G. R., & Smidt, R. K. (2004) Assessing the validity and reliability of descriptor variables used in scenic highway analysis. *Landscape and Urban Planning*. 66 (4), 239-255.

Cohen, L.E & Felson, M. (1979) Social change and crime rate trends: A routine activity approach. *American Sociological Review*. 44, 588-608.

Coleman, A. (1985) Utopia on Trial: Vision and Reality in planned Housing. Shipman, London.

Conegan, S. (2014) We let men take up more public space. Available from: http://www.timescolonist.com/opinion/columnists/shannon-corregan-we-let-men-take-up-more-public-space-1.862131 [Accessed: 24 February 2014]

Cook, R. (2000) Do Landscapes Learn? Ecology's New Paradigm and Design in Landscape Architecture. In: Michel Conan (ed.) *Environmentalism in Landscape Architecture*. Washington, D.C.: Dumbarton Oaks Trustees for Harvard University, 115-132.

Cooper, D.E. & Palmer, J.A. (2002) Fifty key thinkers on the environment. Routledge, London.

Cornish, D. B. & Clarke, R. V. (2003) Opportunities, precipitators and criminal decisions: A reply to Wortley's critique of situational crime prevention. In: Smith, M. & D.B. Cornish (eds.). *Theory for Practice in Situational Crime Prevention*. Monsey, New York, Criminal Justice Press, 41-96.

Cosgrove, D. (1984) Social Formation and Symbolic Landscape. London, Croom Helm.

Crang, M. (1998) Cultural Geography. Routledge, London.

Crawford, M. (1995) Contesting the public realm: Struggles over public space in Los Angeles. *Journal of Architectural Education*. 49 (1), 4-9.

Crofts, R. S. (1975) The landscape component approach to landscape evaluation. *Transactions of the Institute of British Geographers*. 66, 124-129.

Crowther, P. (2016), Temporary Public Spaces: A Technological Paradigm. *The Journal of Public Space*. 1 (1), 63-74.

Cullen, G. (1961) *The Concise Townscape*. London, Reed Educational and Professional Publishing.

Cunningham, P., & Cullen, D. (1993) Pedestrian flow data collection and analysis. *Transport*. 100 (1), 59-69.

Curtis, S., Gesler, W., Fabian, K., Francis, S., & Priebe, S. (2007) Therapeutic landscapes in hospital design: A qualitative assessment by staff and service users of the design of a new mental health inpatient unit. *Environment and Planning C: Government and Policy*. 25(4), 591-610.

Cuthbert, A. R. (1995) The right to the city: Surveillance, private interest and the public domain in Hong Kong. *Cities*. 12 (5), 293-310.

Cybriwsky, R. (1999) Changing patterns of urban public space: Observations and assessments from the Tokyo and New York metropolitan areas. *Cities*. 16 (4), 223-231.

Czerniak J. & Hargreaves, G. (eds.) (2007) Large parks, Princeton Architectural Press, New York.

D

Dakin, S. (2003) There's more to landscape than meets the eye: towards inclusive landscape assessment in resource and environmental management. *The Canadian Geographer/Le Géographe Canadien*. 47 (2), 185-200.

Daniel, T.C., (2001) Whither scenic beauty? Visual landscape quality assessment in the 21st century. *Landscape and Planning*. 54, 267-281.

Daniere, A. & Douglass, M. Ed. (2009) *The Politics of Civic Space in Asia: Building Urban Communities*. New York, Routledge.

Dark Matter Laboratory (2019) A Smart Commons: A New Model for Investing in the Commons 13 September 2019, Available from:https://provocations.darkmatterlabs.org/a-smart-commons-528f4e53cec2 [Accessed: 22 September 2019]

Davey, P. (2001) Regionalism: Time to Review and Renew. *Architectural Review*. 210 (1257), 34-35.

Davidson, R.A. (2013) 'Friendly authoritarianism' and the bedtaun: Public space in a Japanese suburb. *Journal of Cultural Geography*. 30 (2), 187-214.

Davis, M. (1992) City of Quartz. New York, Vantage.

Davis, M. (1998), *Ecology of Fear: Los Angeles and the Imagination of Disaster*. New York, Vintage Books.

Dawson, A. (2006) Geography of Fear: Crime and the Transformation of Public Space in Post-Apartheid South Africa. In: Low, S. & Smith, N. (eds.) *The Politics of Public Space* New York: Routledge, 123-142.

De Backer, M., Melgaço, L., Varna, G., & Menichelli, F. (Eds.). (2016). *Order and conflict in public space*. London, Routledge.

De Certeau, M. (1984) The Practice of Everyday Life. University of California Press, Berkeley.

De Magalhães, C. (2010) Public Space and the Contracting-out of Publicness: A Framework for Analysis, *Journal of Urban Design*, 15 (4), 559-574.

De Magalhaes, C. & Carmona, M. (2006) Innovations in the management of public space, reshaping and refocusing governance, *Planning Theory and Practice*. 17 (3), 289-303.

De Solà-Morales, M. (1992) Public and collective space: The urbanisation of the private domain as a new challenge. La\/anguardia, Barcelona. Available from:https://vdocuments.mx/solamorales-public-and-collective-spacertf.html [Accessed: 15 September 2018]

Dear, M., & Flusty, S. (1998). Postmodern urbanism. *Annals of the Association of American geographers*, 88(1), 50-72.

Dearden, P. (1985) Focus: Landscape aesthetics. *The Canadian Geographer/Le Géographe Canadien*. 29 (3), 263-265.

Dempsey, N. (2008) Quality of the built environment in urban neighbourhoods. *Planning, Practice & Research*. 23 (2), 249-264.

Denhart, H. (2009) Deconstructing disaster: Psycho-social impact of building deconstruction in Post-Katrina New Orleans. *Cities*. 26, 195-201.

Desimini, J. (2014) From Planned Shrinkage to Formerly Urban Staking Landscape Architecture's Claim in the Shrinking City Debate. *Landscape Journal*, 33(1), 17-35.

Devereux, M., & Littlefield, D. (2017) *A literature review on the privatisation of public space*. Bristol, England. University of the West of England

Devine-Wright, P. (2005) Beyond NIMBYism: Towards an integrated framework for understanding public perceptions of wind energy. *Wind Energy*. 8 (2), 125-139.

Devlin, K. (1990) An examination of architectural interpretation: Architects versus non-architects, *Journal of Architectural and Planning Research*. 7 (3), 235–244.

Deutsche, R. (1992) Art and public space: Questions of democracy. Social Text. 33, 34-53.

Dines, N. & Cattell, V. (2006) *Public Spaces, Social Relations and Well-being in East London,* Bristol, The Policy Press.

Dixon, J., Levine, M., & McAuley, R. (2006). Locating impropriety: Street drinking, moral order and the ideological dilemma of public space. *Political Psychology*, 27(2), 187-206.

Dodge, M. & Kitchin, R. (2004) *Code, space and everyday life,* CASA Working papers, no 81. London, Centre for Advanced Spatial Analysis (UCL). Available from:

http://www.casa.ucl.ac.uk/working_papers/paper81.pdf [Accessed: 3 April 2005]

Doherty, J., Busch-Geertsema, V., Karpuskiene, V., Korhonen, J., O'Sullivan, E., Sahlin, I., Petrillo, A. & Wygnanska, J. (2008) Homelessness and exclusion: regulating public space in European cities. *Surveillance & Society*, 5(3).

Dovey, K. (2014). Framing places: mediating power in built form. Routledge.

Drucker, S. & Gumpert, G. (1998) Public Spaces and the Right of Association, *Free Speech Yearbook*. 36 (1), 25-38.

Duany, A., Speck, J. & Lydon, M. (2010) The Smart Growth Manual. New York, McGraw Hill.

Duany, A., Plater-Zyberk, E. & Speck, J. (2000) *Suburban Nation: The Rise of Sprawl and the Decline of the American Dream*. New York, North Point Press.

Dung, C. (2009) *Public Space Combinations* (Unpublished doctoral dissertation) RMIT University, Melbourne, Victoria.

E

Ehrenfeucht, R. & Loukaitou-Sideris, A. (2010) Planning urban sidewalks: Infrastructure, daily life and destinations. *Journal of Urban Design*. 15 (4), 459-471.

Eley, G. (1992) Nations, publics and political cultures: Placing Habermas in the nineteenth century. In: Calhoun, C. (ed.) *Habermas and the Public Sphere*. Cambridge, MA, MIT Press.

Ellin, N. (1996) Postmodern Urbanism. Oxford, Blackwell.

Ellickson, R.C. (1996) Controlling chronic misconduct in city spaces: Of panhandlers, skid rows and public-space zoning. *Yale Law Journal*. 105, 1165-2303.

Engwicht, D. (1999) Street Reclaiming, Creating Liveable Streets and Vibrant Communities. Gabriola Island, BC, New Society Publishers.

Escobedo, F. J., Kroeger, T. and Wagner. J. E. (2011) Urban Forests and Pollution Mitigation: Analyzing Ecosystem Services and Disservices. *Environmental Pollution* 159 (8): 2078–2087.

Ewing, R., & Handy, S. (2009) Measuring the unmeasurable: Urban design qualities related to walkability. *Journal of Urban Design*. 14 (1), 65-84.

Ewing, R., Handy, S., Brownson, R.C., Clemente, O. and Winston, E. (2006) Identifying and measuring urban design qualities related to walkability. *Journal of Physical Activity and Health*. 3, Supplement 1,223-240.

F

Felonneau, ML (2004) Love and loathing of the city: Urbanophilia and urbanophobia, topological identity and perceived incivilities. *Journal of Environmental Psychology*. 24, 43-52.

Fernandez Per, A. & Mozas, J. (2012) Strategy and Tactics in Public Space. Amsterdam: A+T.

Fitzpatrick, K, & LaGory, M (2002) Unhealthy places: The ecology of risk in the urban landscape. Routledge.

Fleck, R.K, & Hanssen, F.A, (2006) The Origins of Democracy: A Model with Application to Ancient Greece. *The Journal of Law & Economics*. Vol. 49, No. 1, 115-146

Flusty, S. (1997) Building paranoia. In: N. Ellin (ed.) *Architecture of Fear*. New York: Princeton Architectural Press, 47–59.

Flynn, K. (2001) Study Says a Slumping Economy Doesn't Mean Crime Will Rise. *The New York Times*, 20.

Foltete, J. C., & Piombini, A. (2007) Urban layout, landscape features and pedestrian usage. *Landscape and Urban Planning*. 81(3), 225-234.

Foreground (2019) Public space should not be managed as a business. Foreground Available from:https://www.foreground.com.au/public-domain/public-space-fed-square-apple/ [Accessed: 12 Mar 2019]

Forsyth, A., Jacobson, J. and Thering, K., (2007) *Moving Design: Spaces of Transportation* (No. CTS 07-09). University of Minnesota Center for Transportation Studies. Available from: https://conservancy.umn.edu/handle/11299/5559 [Accessed: 14th May 2010]

Forsyth, A., Jacobson, J. & Thering, K. (2010) Six assessments of the same places: Comparing views of urban design, *Journal of Urban Design*. 15 (1), 21-48.

Foucault, M. (2008). The birth of biopolitics. Basingstoke: Palgrave Macmillan.

Franck, K. A, & Stevens, Q. (eds.). (2007) *Loose Space: Possibility and Diversity in Urban Life*. London, Routledge.

Francis, M. (2001) A case study method for landscape architecture. *Landscape Journal*. 20 (1), 15-29.

Francis, J., Giles-Corti, B., Wood, L., & Knuiman, M. (2012) Creating sense of community: The role of public space. *Journal of Environmental Psychology*. 32 (4), 401-409.

Francis, J., Wood, L. J., Knuiman, M., & Giles-Corti, B. (2012) Quality or quantity? Exploring the relationship between Public Open Space attributes and mental health in Perth, Western Australia. *Social Science & Medicine*. 74 (10), 1570-1577.

Fraser, B. (2007) Madrid's Retiro Park as publicly-private space and the spatial problems of spatial theory. *Social & Cultural Geography*. 8 (5), 673-700.

Freshkills Park Alliance (2021) Donors and Sponsors, New York, n.d. Available from: https://freshkillspark.org/the-park/donors [Accessed: 24 January 2021]

Friends of the High Line (2021), *DONATE*, New York, n.p. Available from: https://www.thehigh line.org/donate/?fhlr=sidenav&utm_source=highline&utm_medium=website-navigation&utm_content=website-sidenav&utm_campaign=donate_[Accessed: 24 January 2021]

Frost, N (2014) In France's cities, public space risks becoming a women-free zone, CityMetric. Available from: http://www.citymetric.com/politics/frances-cities-public-space-risks-becoming-women-free-zone-453 [Accessed: 16 November 2014]

Frow, J. (1991) Michel de Certeau and the practice of representation. *Cultural Studies*. 5 (1), 52-60.

Frumkin, H. (2002) Urban Sprawl and Public Health. *Public Health Reports, May-June 2002*. Association of Schools of Public Health (117), 201 – 217.

Frumkin, H. (2003) Healthy places: Exploring the evidence. *American Journal of Public Health*. 93 (9), 1451-1456.

Fyfe, N. (ed.) (1998) *Images of the Street, Planning, Identity and Control in Public Space*. London, Routledge.

G

Gaffikin, F., Mceldowney, M., & Sterrett, K. (2010) Creating shared public space in the contested city: The role of urban design. *Journal of Urban Design*, 15 (4), 493-513.

Gaffney, C. T. (2014) The mega-event city as neo-liberal laboratory: The case of Rio de Janeiro. *Percurso Acadêmico*, 217-237.

Gale, T. (2009) Urban beaches, virtual world and the 'end of tourism'. Mobilities, 4, 119-138.

Gameng, M (n.d) *Another milestone reached for \$900m Adelaide Festival Plaza redevelopment*, Available from: https://blog.plantminer.com.au/another-milestone-reached-for-900m-adelaide-festival-plaza-redevelopment [Accessed: 8 December 2019]

Garreau, J. (1991) Edge City: Life on the New Frontier. London, Doubleday.

Gates, L. B., & Rohe, W. M. (1987) Fear and reactions to crime a revised model. *Urban Affairs Review*. 22 (3), 425-453.

Gaventa, S. (2006) New Public Space. Great Britain, Mitchell Beazley.

Geenens, R., & Tinnevelt, R. (eds.). (2009) *Does truth matter? Democracy and public space*. Netherlands, Springer Science + Business Media.

Geenens, R., & Tinnevelt, R. (2009) Truth and public space: Setting out some signposts. In: Geenens, R., & Tinnevelt, R. (eds), *Does truth matter? Democracy and Public Space*. Netherlands, Springer Science + Business Media, 1-14.

Gehl, J. (1996) Life Between Buildings: Using Public Space, 3rd edn. Skive, Arkitektens Forlag.

Gehl, J. (2010) Cities for People. Washington DC, Island Press.

Gehl, J. & Gemzøe, L. (2001) New City Spaces. Copenhagen, The Danish Architectural Press.

Gehl, J. & Svarre, B. (2013) How to Study Public Life. Island Press, Washington.

Gehl, J. & Matan, A. (2009) Two perspectives on public spaces. *Building Research & Information*, 37 (1), 106–109

Gehl Architects Aps (2011) *Public Spaces & Public Life Study: City of Adelaide 2011*. Denmark: Ghel Architects ApS

Geppert, A. (2013). Fleeting cities: Imperial expositions in Fin-de-Siècle Europe. London: Palgrave Macmillan.

Gilson, N. (2019) The city as billboard: Fed Square, Apple and brand urbanism, *Foreground*, 18 April 2018. Available from:https://www.foreground.com.au/cities/city-billboard-fed-square-apple-brand-urbanism/[Accessed: 15 September 2019]

Glazer, N., & Lilla, M. (1987) The public face of architecture: Civic culture and public spaces. Free Press, New York.

Goad, P. (2002) New Land, New Language: Shifting grounds in Australian Attitudes to Landscape, Architecture and modernism. In: Treib, M. (ed.) *The Architecture of Landscape* 1940-1960. University of Pennsylvania Press, 238-269.

Gobster, P. H. (1995) Perception and use of a metropolitan greenway system for recreation. *Landscape and Urban Planning*. 33, 401-413.

Gobster, P. H., Stewart, S. I., & Bengston, D. N. (2004) The social aspects of landscape change: protecting open space under the pressure of development. Landscape and Urban Planning. 69 (2), 149-151.

Goffman, E. (1959) The Presentation of the Self in Everyday Life. New York: Doubleday Anchor.

Goffman, E. (1963) *Behaviour in Public Places: Notes on the Social Order of Gatherings.* New York, The Free Press.

Goodman, D. (1992) Public sphere and private life: Toward a synthesis of current historiographical approaches to the old regime. *History and theory*, 1-20.

Goodsell, C.T. (2003) The concept of public space and its democratic manifestations. *American Review of Public Administration*. 33 (4), 361-383.

Gottlieb, N. (2010) Language in Public Space in Japan. Japanese Studies. 30 (3), 323-324.

Graham, M. & Khosravi, S. (2002) Reordering public and private in Iranian cyberspace: Identity, politics and mobilization. *Identities: Global Studies in Culture and Power*. 9 (2), 219-246.

Graham, S. (2001) The spectre of the splintering metropolis. Cities. 18 (6), 365 – 368.

Graham, S. & Marvin, S. (2001) *Splintering Urbanism: Networked Infrastructures, Technological Mobilities and the Urban Condition*, London, Routledge.

Green Adelaide (n.d.) *Green Adelaide*. Available from: https://www.greenadelaide.sa.gov.au/ [Accessed: 26 September 2021]

Gulick, J. (1998) The disappearance of public space: An ecological Marxist and Lefebvrian Approach. In: Light, A. & Smith, J. (eds.) *The Production of Public Space*. Oxford, Rowan and Littlefield, 135-156.

Н

Habermas, J. (1989) *The public sphere: An inquiry into a category of Bourgeois society,* Cambridge, MIT Press.

Hall, E.T. (1966) *The Hidden Dimension: Man's Use of Space in Public and Private*. New York, Doubleday & Co.

Hajer, M. & Reijndrop, A. (2001) *In Search of New Public Domain: Analysis and strategy*, Rotterdam, NAi Publishers.

Harcourt, B.E., & Ludwig, J. (2006) Broken Windows: New Evidence from New York City and a Five-City Social Experiment. The University of Chicago Law Review, 73(1), 271-320.

Hardy, Q. (2014) *How Urban Anonymity Disappears When All Data Is Tracked*. Available from: http://bits.blogs.nytimes.com/2014/04/19/how-urban-anonymity-disappears-when-all-data-is-tracked/?_php=true&_type=blogs&_php=true&_type=blogs&_r=1& [Accessed: 26 April 2014]

Harrison, R. P (2009) *Forests: The Shadow of Civilization*. Chicago, The University of Chicago Press.

Hart, R., (1979) Children's experience of place. New York, Irvington. In:

Hedman, R., & Jaszewski, A. (eds.) *Fundamentals of Urban Design*. Washington DC, Planners Press. American Planning Association.

Harvey, D. (1992) Social postmodernism and the city. International Journal of Urban and Regional Research, 16 (4), 588-601.

Hayek, F. A. (1945) The use of knowledge in society. *The American Economic Review*, 35, 519–530.

Healthy Parks Healthy People SA (2017) Discussion paper Connecting nature and parks to mental health promotion and mental illness prevention strategies in South Australia. Government of South Australia, South Australia

Healthy Parks Healthy People SA (n.d) *Making contact with nature, second nature.* Government of South Australia, South Australia

Heritage Council of Victoria (2019) *Federation Square, DETERMINATION OF THE HERITAGE COUNCIL*, Heritage Council of Victoria.

Hil, R. & Bessant, J. (1999) Spaced-out? Young people's agency, resistance and public space. *Urban Policy and Research*. 17 (1), 41-49.

Hillier, B. (1996) Cities as movement economies. Urban design international, 1(1), 41-60.

Hillier, B. (2012). The genetic code for cities: is it simpler than we think?. In *Complexity theories* of cities have come of age (pp. 129-152). Springer, Berlin, Heidelberg.

Holden, A. & Iveson, K. (2003), Designs on the urban: New Labour's urban renaissance and the spaces of citizenship, *City: analysis of urban trends, culture, theory, policy, action*, 7:1, 57-72.

Howley, P. (2011), Landscape aesthetics: Assessing the general publics' preferences towards rural landscapes. *Ecological Economics*, 72, 161-169.

Hubbard, P. (2004), "Defending the indefensible?" A response to Carina Listerborn's 'Prostitution as 'urban radical chic': the silent acceptance of female exploitation", *City* 8(3), 399–402.

Hurley, D. (2004) Scientists at work – Fenton Earls; On Crime as Science (a neighbour at a Time), *NY Times*, F1 (Jan 6, 2004)

ı

IFLA World. (n.d.) *About IFLA*, Available from: http://iflaonline.org/about/ [Accessed: 24 July 2017]

IFLA World. (n.d.) *About Landscape Architecture,* Available from: http://iflaonline.org/about/landscape-architecture/ [Accessed: 28 October 2018]

Intelligent Community. (n.d.) *The Smart21 Communities of the Year,* Available from: https://www.intelligentcommunity.org/smart21 [Accessed: 27 May 2018]

Iveson, K. (1998) Putting the public back into public space. *Urban Policy and Research*. 16 (1), 21-33.

Iveson, K. (2000) Beyond designer diversity: Planners, public space and a critical politics of difference, *Urban Policy and Research*. 18 (2), 219-238.

Iveson, K. (2003) Justifying exclusion: The politics of public space and the dispute over access to McIvers ladies' baths, Sydney. Gender, *Place & Culture: A Journal of Feminist Geography*. 10 (3), 215-22.

Iveson, K. (2007) Publics and the City. Carlton, Blackwell Publishing.

Iveson, K. (2020) We don't know what we've got until it's gone – we must reclaim public space lost to the coronavirus crisis. *Landscape Australia*. 17 April 2020. Available from: https://landscapeaustralia.com/articles/we-dont-know-what-weve-got-till-its-gone-we-must-reclaim-public-space-lost-to-the-coronavirus-crisis/# [Accessed: 22 April 2020]

J

Jabareen, Y. R. (2006) Sustainable urban forms their typologies, models and concepts. *Journal of planning education and research*. 26 (1), 38-5.

Jackson, J. B. (1987a) The discovery of the street. In: Glazer, N., & Lilla, M. (eds.) *The Public Face of Architecture: Civic Culture and Public Spaces*. Free Press, 75-8.

Jackson, J. B. (1987b) Forum follows function. In: Glazer, N., & Lilla, M. (eds.) *The Public Face of Architecture: Civic Culture and Public Spaces*. Free Press, 117-123.

Jackson, J. B. (1987c) The American public space. In: Glazer, N., & Lilla, M. (eds.) *The Public Face of Architecture: Civic Culture and Public Spaces*. Free Press, 276-291.

Jacobs, A., (1985) Looking at Cities. Cambridge, Harvard University Press.

Jacobs, A., (1995) Great Streets. Cambridge, MIT Press.

Jacobs, A., & Appleyard, D. (1987) Toward an urban design manifesto. *Journal of the American Planning Association*. 53 (1), 112-120.

Jacobs, J. (1961) The Death and Life of Great American Cities. New York, Random House.

Jacobs, J. (1984) *The Death and Life of Great American Cities: The Failure of Modern Town Planning*. London, Peregrine Books.

Jalowiecki, B. (1989) Local systems and social development. Geoforum. 20 (2), 141-150.

James, P., Tzoulas, K., Adams, M.D., Barber, A., Box, J., Breuste, J., Elmqvist, T., Frith, M., Gordon, C., Greening, K.L. and Handley, J., (2009) Towards an integrated understanding of green space in the European built environment. *Urban Forestry & Urban Greening*. 8 (2), 65-75.

Jayne, M., Holloway, S.L. & Valentine, G. (2006) Drunk and disorderly: alcohol, urban life and public space. *Progress in Human Geography*. 30 (4), 451-468.

Jodidio, P. (2011) Temporary architecture now! (Mul ed.). Cologne: Taschen.

Johns, R. (2001) Skateboard city. Landscape Design. 303, 42-44.

Johnson, A. J., & Glover, T. D. (2013) Understanding urban public space in a leisure context. *Leisure Sciences*, 35(2), 190-197.

Johnson, D. & Langmead, D. (1986) *The Adelaide City Plan: Fact and Fiction*. Adelaide: Wakefield Press.

Johnson, F. & Walliss, J. (2014). Defining a 'New Civic': Redesigning Adelaide's Victoria Square/Tardanyangga within an era of reconciliation. Proceedings of 12th Australasian Urban History/Planning History Conference: Landscapes and Ecologies of Urban and Planning History,

Jones, M. (1991) The elusive reality of landscape. Concepts and approaches in landscape research. *Norsk Geografisk Tidsskrift - Norwegian Journal of Geography*. 45 (4), 229-244.

Jorgensen, A. Hitchmough, J. & Calvert, T (2002) *Woodland* spaces and edges: their impact on perception of safety and preference. *Landscape and Urban Planning* 60, 135-150.

K

Kaplan, R. and Kaplan, S. (1995) *The Experience of Nature: A Psychological Perspective*. Ann Arbor, MI: Ulrich's Bookstore.

Karmali, S. (2018) Ralph Lauren to take over Central Park in celebration of 50th anniversary, Harper Bazzar Available from:

https://www.harpersbazaar.com/uk/fashion/shows-trends/a22549480/ralph-lauren-to-take-over-central-park-in-celebration-of-50th-anniversary/ [Accessed: 9 September 2019]

Karrholm, M. (2016), *Retailising space: Architecture, retail and the territorialisation of public space*. London, Routledge.

Kilian, T. (1998) Public and private, power and space. In: A. Light & J. M. Smith (eds.) *Philosophy and Geography II: The Production of Public Space*. Lanham, MD, Rowman & Littlefield,115 – 134

Kitchen, T. & Schneider, R.H., (2007) *Crime Prevention and the Built Environment*. London, Routledge.

Kıvanç Ak, M. (2013) Visual Quality Assessment Methods in Landscape Architecture Studies, Advances in Landscape Architecture. Ozyavuz, M. (ed.), *InTech*, DOI: 10.5772/55769. Available from:http://www.intechopen.com/books/advances-in-landscape-architecture/visual-quality-assessment-methods-in-landscape-architecture-studies [Accessed: 13 September 2016]

Klinenberg, E. (2020) We Need Social Solidarity, Not Just Social Distancing. *The New York Times*. 14 March 2020. Available from: https://www.nytimes.com/2020/03/14/opinion/coronavirus-social-distancing.html [Accessed: 22 April 2020]

Kling, S. (2020) Is the City Itself the Problem? *CityLab.* 20 April 2020. Available from:https://www.citylab.com/perspective/2020/04/coronavirus-cases-urban-density-suburbs-health-parks-cities/610210/ [Accessed: 22 April 2020]

Kneale, J. (2001) The place of drink: temperance and the public,1956–1914. *Social and Cultural Geography*. 2 (1), 43-59.

Kohn, M. (2004) *Brave New Neighbourhoods: The Privatization of Public Space*. New York, Routledge.

Koolhaas, R. (1995) Generic city. New York, 010 Publishers.

Koolhaas, R. (2003) Dump space: freedom from order. *Wired. a*vailable from: www.wired.com/archive/11.06/dump_spc_pr.html [Accessed: 9 April 2005]

Koolhass, R. (1995) What Ever Happened to Urbanism?. In: Koolhaas, R., & Mau, B. (1995) S, M, L, XL: Small, Medium, Large, Extra-Large: Office for Metropolitan Architecture. New York, 010 Publishers, 959-971

Koolhaas, R., & Mau, B. (1995) *S, M, L, XL: Small, Medium, Large, Extra-Large: Office for Metropolitan Architecture*. New York, 010 Publishers.

Korpela, K. M., Hartig, T., Kaiser, F. G., & Fuhrer, U. (2001) Restorative experience and self-regulation in favorite places. *Environment and Behaviour*. 33 (4), 572-589.

Kostof, S. (1992) *The City Shaped Urban Patterns and Meaning Throughout History*. Bulfinch, Boston.

Krupa, F. (1993) The Privatization of Public Space. M.A. thesis [Online] Available from: http://www.translucency.com/frede/pps. html [Accessed: 13 April 2014]

Kubrin, C.E. & Weitzer, R. (2003) New directions in social disorganisation theory. *Journal of Research in Crime and Delinquency*. 40 (4), 374-402.

Kuo, F. E., Bacaicoa, M., & Sullivan, W. C. (1998) Transforming inner-city landscapes trees, sense of safety and preference. *Environment and Behavior*. 30 (1), 28-59.

Kurniawati, W. (2012) Public space for marginal people. *Procedia-Social and Behavioral Sciences*. 36, 476-484.

L

Lapping, M.B (1975) Environmental Impact Assessment Methodologies: A Critique. 4 B.C. Envtl. Aff.L. Rev 123, Available from: http://lawdigitalcommons.bc.edu/ealr/vol14/iss1/8 [Accessed: 15 March 2016]

Lang, J. (1994) Urban Design: The American Experience, New York, Van Nostrand Reinhold.

Langford, C. & The Adelaide City Explorer Team (2019) *City Sign Sculpture Garden*. Available from: https://adelaidecityexplorer.com.au/items/show/95 [Accessed: 8 December 2019]

Laughlin, D.L. & Johnson, L. C. (2011) Defining and exploring public space: perspectives of young people from Regent Park, Toronto. *Children's Geographies*. 9 (3-4), 439-456.

Lawson, B. (2001) Language of Space. New York, Routledge.

Leber, J. (2014) One company is trying to count and track all of New York City's pedestrians. *FastCompany.* 12 February 2014. Available from: http://www.fastcoexist.com/3025926/one-company-is-trying-to-count-and-track-all-of-new-york-citys-pedestrians [Accessed: 21 April 2014]

Lees, L., (2003) The ambivalence of diversity and the politics of urban renaissance: The case of youth in downtown Portland, Maine. *International Journal of Urban and Regional Research*. 27, 613–634.

Lefebvre, H. (1991) The Production of Space. Oxford, Basil Blackwell.

Lefort, C. (1998) *Human Rights and the Welfare State. In Democracy and Political Theory*. Cambridge, Wiley English edition.

Leitao, A. B., & Ahern, J. (2002) Applying landscape ecological concepts and metrics in sustainable landscape planning. *Landscape and Urban Planning*. 59 (2), 65-93.

Leorke, D. (2014) The Struggle to Reclaim the City: An Interview With Michael Sorkin, *Space and Culture*. 18 (1), 1-8.

Listerborn, C. (2005) How public can public spaces be? *City: Analysis of Urban Trends, Culture, Theory, Policy, Action*. 9 (3), 381-388.

Litman, T. & Brenman, M. (2011) A new social equity agenda for sustainable transportation: Draft for discussion. Victoria, Canada, Victoria Transport Policy Institute.

Little, J., Panelli, R. & Kraack, A. (2005) Women's fear of crime: A rural perspective. *Journal of Rural Studies*. 21 (2), 151-163. Available from: https://eric.ed.gov/?id=EJ697973 [Accessed: 10 April 2005]

Litton Jr, R. B. (1979) Descriptive approaches to landscape analysis: A conference on applied techniques for analysis and management of the Visual Resource. *USDA, Forest Service, Pacific Southwest Forest and Range Experiment station Research Paper*. Berkeley, California.

Lofland, L. (1998) *The Public Realm, Exploring the City's Quintessential Social Territory*. New York, De Gruyter.

Loukaitou-Sideris, A. (1996) Cracks in the city: addressing the constraints and potentials of urban design. *Journal of Urban Design*. 1 (1), 91-103.

Loukaitou-Sideris, A. & Banerjee, T. (1998) *Urban Design Downtown: Poetics and Politics of Form*. Berkeley, University of California Press.

Loukaitou-Sideris, A. & Ehrenfeucht, R. (2009) *Sidewalks: Conflict and Negotiation Over Public Space*. MIT Press, Cambridge.

Low, S. & Smith, N. (eds.) (2006) The Politics of Public Space. New York, Routledge.

Lowenthal, D. & Bowden, M. J. ed. (1976) *Geographies of the Mind: Essays in Historical Geosophy*. New York, Oxford University Press.

Luke, T. (2004) The Co-Existence of Cyborgs, Humachines and Environments in Postmodernity: Getting over the End of Nature. In: Graham, S. (ed.) *The Cybercities Reader*. London, Routledge, 107-110.

Lucas, C (2019) Fed Square added to state's heritage register just 17 years after opening, *The Age*, 26 August 2019. Available from:

https://www.theage.com.au/politics/victoria/fed-square-added-to-state-s-heritage-register-just-17-years-after-opening-20190826-p52kxv.html [Accessed: 15 September 2019]

Lurie, S. (2019) There's No Such Thing as a Dangerous Neighborhood, *CityLab*, 25 February 2019. Available from: https://www.citylab.com/perspective/2019/02/broken-windows-theory-policing-urban-violence-crime-data/583030/?fbclid=IwAR0-

| I8uliWyHsaVysRDV8HBCPS1Oy2QykGXaOFlpgT6P2vXaqDXMPIzIIvc [Accessed: 22 September 2019]

Luymes, D. T & Tamminga, K. (1995) Integrating public safety and use into planning urban greenways. *Landscape and Urban Planning*. 33, 391-400.

Lynch, K. (1960) The Image of the City. Cambridge, MIT Press.

Lynch, K. (1972) What time is this place? Cambridge, MIT Press.

M

Ma, G., Muller, D., Park, S. B., Muller-Schneiders, S., & Kummert, A. (2009) Pedestrian detection using a single monochrome camera. *Intelligent Transport Systems*. 3 (1), 42-56.

Malone, K. (2002) Street life: youth, culture and competing uses of public space. *Environment and Urbanization*. 14 (2), 157-168.

Madanipour, A. (1996) *Design of Urban Space: An Inquiry into a Socio-Spatial Process*. John Wiley & Son Ltd.

Mandanipour, A. (2003) Public and Private Spaces of the City. London, Routledge.

Marans, R. W. (2012) Quality of urban life studies: An overview and implications for environment-behaviour research. *Procedia-Social and Behavioral Sciences*, 35, 9-22.

Marcuse, P. (2011) The tabooed after-life of 9/11, City: Analysis of Urban Trends, Culture, Theory, Policy, Action. 15 (3-4), 392-406.

Marne, P. (2001) Whose public space was it anyway? Class, gender and ethnicity in the creation of the Sefton and Stanley Parks, Liverpool: 1858–1872. *Social & Cultural Geography*. 2 (4), 421-443.

Martin, C. (2019) Wrong division: The rise of privately-owned public space, *Foreground*, 25 November 2019. Available from: https://www.foreground.com.au/public-domain/wrong-division-the-rise-of-privately-owned-public-space/ [Accessed: 29 November 2019]

Marx, L. (1991) The American ideology of space. In: Wrede, S, & Adams, W. H. (eds.) *Denatured Visions: Landscape and Culture in the Twentieth Century.* New York, Museum of Modern Art, 62-78.

Marcus, C. C., Francis, C., & Russell, R. (1998) Urban plazas. In: Cooper Marcus, C. & C. Francis (eds.), *People places: Design guidelines for urban open space* (Second ed.) (13-84). New York: John Wiley & Sons.

Markowitz, F.E., Bellair, P.E., Liska, A.E. & Liu, J (2001) Extending social disorganisation theory: Modelling the relationships between cohesion, disorder and fear. *Criminology*. 39 (2), 239-320.

Massey, D. (2005) For Space. London: Sage Publications.

Matan, A. (2011) Rediscovering Urban Design through Walkability: An Assessment of the Contribution of Jan Gehl. MA thesis, Curtin University.

Matsuoka, R. H., & Kaplan, R. (2008) People needs in the urban landscape: analysis of landscape and urban planning contributions. *Landscape and urban planning*. 84 (1), 7-19.

Mattson, K. (1999) Reclaiming and remaking public space: Towards an architecture for American democracy. *National Civic Renewal*. 88 (2), 133-144.

McLaughlin, K. (2007) Revisiting the public/private divide: Theoretical, political and personal implications of their unification. *Practice: Social Work in Action*. 19 (4), 241-253.

Mehta, V. (2007) Lively streets: Determining environmental characteristics to support social behavior. *Journal of Planning Education and Research*. 27, 165-187.

Mehta, V. (2009) Look closely and you will see, listen carefully and you will hear: Urban design and social interaction on streets. *Journal of Urban Design*. 14 (1), 29-64.

Mehta, V., & Mahato, B. (2020) Designing urban parks for inclusion, equity and diversity. *Journal of Urbanism: International Research on Placemaking and Urban Sustainability*, 1-33.

Mendieta, E. (2011) The politics of terror and the neoliberal military minimalist state, *City:* analysis of urban trends, culture, theory, policy, action, 15:3-4, 407-413.

Merx, S. (2011) Public Pie Performing public space, Performance Research, A Journal of the Performing Arts, 16:2, 132-137.

Meyer, E. K. (2008) Sustaining beauty. The performance of appearance: A manifesto in three parts. *Journal of Landscape Architecture*, 3(1), 6-23.

Meyer, E. K. (2011) The Expanded Field of Landscape Architecture (Excerpt), *Scenario 06: Migration* Available from: https://scenariojournal.com/article/the-expanded-field-of-landscape-architecture-excerpt/[Accessed: 16 September 2018]

Meyer, E. K. (1997) The Expanded Field of Landscape Architecture, In: Thompson, G.F., & Steiner, F.R. (eds.) *Ecological Design and Planning*. New York: John Wiley & Sons, 45-79.

Mitchell, D. (2003) *The Right to the City: Social Justice and the Fight for Public Space*. New York, Guilford Press.

Mitchell, D. & Staeheli, L. (2006) Clean and safe? Property redevelopment, public space and homelessness in Downtown San Diego, In: Low, S. & N. Smith (eds.) *The Politics of Public Space*. London, Routledge, 143–175.

Miller, K. (2007) *Designs on the Public: The Private Lives of New York's Public Spaces.* Minneapolis, University of Minnesota Press.

Minton, A. (2006) What Kind of World Are We Building? The Privatisation of Public Space. London, RICS.

Minton, A. (2018) The Price of Regeneration. *Places Journal*, September 2018. Available from: https://placesjournal.org/article/the-price-of-regeneration-in-london/ [Accessed: 30 September 2018]

Mitchell, D. (1995) The end of public space? People's park, definitions of the public democracy. *Annals of the Association of American Geographers*. 85 (1), 108-133.

Mock, B. (2016) For African Americans, Park Access Is About More Than Just Proximity. *CityLAB*, 2 June 2016. Available from:https://www.citylab.com/design/2016/06/for-african-americans-park-access-is-about-more-than-just-proximity/485321/ [Accessed: 27 January 2020]

Montgomery, J. (1998) Making a city: urbanity, vitality and urban design. *Journal of Urban Design*. 3 (1), 93-116.

Montgomery, J. (2005) Dublin, Sheffield, Manchester and Adelaide: Cultural quarters as mechanisms for urban regeneration. In: Charlesworth, E. R. (ed.). (2005) *Cityedge: Case Studies in Contemporary Urbanism*. Oxford, Routledge.

Moss, S. J. (2005) Who Owns the Earth? An ENN Commentary. *San Francisco Community Power*, 13 June. Available from: http://www.enn.com/today.html?id=7935 [Accessed: 14 June 2005]

Mumford, L. (1961) *The City in History: Its Origins. Its Transformations and Its Prospects*. United States, Harcourt, Brace & World, Inc.

Murphy, C. (2001) Customised quarantine. Atlantic Monthly, July-August, 22 – 24.

N

Nagel, T. (1995) Personal rights and public space. Philosophy and Public Affairs. 24 (2), 83-107.

Nasar, J. (1998) The Evaluative Image of the City. Thousand Oaks, CA: Sage.

Nasar, J.L & Fisher, B (1993) 'Hot Spots' of fear and crime: A multi-method investigation. *Journal of Environmental Psychology* No.13, 187-206.

Nasar, J.L & Jones, K.M. (1997) Landscape of Fear and Stress. *Environment and Behavior*, (3), 291-323.

Németh, J., & Schmidt, S. (2011) The privatization of public space: modeling and measuring publicness. *Environment and Planning B: Planning and Design*, 38(1), 5-23.

Newell, P. B. (1995) Perspectives on privacy. *Journal of environmental psychology*, 15(2), 87-104.

Newman, O. (1973) *Defensible Space: People and Design in the Violent City,* London, Architectural Press.

Nicholson, C.J. (2004) Elegance and grass roots: The neglected philosophy of Frederick Law Olmsted. *Transactions of the Charles S. Peirce Society*, 40(2), 335-348.

Norberg-Schulz, C (1980) *Genius Loci towards a phenomenology of Architecture,* New York, Rizzoli International Publications.

Nuttgens, P. (1972) The Landscape of Ideas. Great Britain, Faber and Faber.

0

Oc, T. & Tiesdell, S. (1997) Safer City Centres: Reviving the Public Realm, London, Paul Chapman.

O'Flanagan, R. (2014) People can safely help maintain public spaces. *Guelph Mercury Tribune*. 7 February 2014. Available from: https://www.guelphmercury.com/opinion-story/4357873-people-can-safely-help-maintain-public-spaces/[Accessed: 20 June 2014]

O'Hamm A., Vaital, D. & Lang, P. J. (1989) Fear conditioning, meaning and belongingness: A selective association analysis. *Journal of Abnormal Psychology*. 98 (4), 395-406.

Ogden, M. & Florance, L. (2017) Federation Square Apple store backlash based on 'misunderstanding', site designer says. ABC News. Available from: http://mobile.abc.net.au/news/2017-12-21/federation-square-apple-store-reaction/9279910?pfmredir=sm&sf177063794=1 [Accessed: 27th May 2018]

Oldenburg, R. (1999) *The Great Good Place: Cafes, Coffee Shops, Bookstores, Bars, Hair Salons and the Other Hangouts at the Heart of a Community*, 2nd edn. New York, Marlowe.

Olmsted, F. L. (1997) 'Park' from the American Cyclopedia of 1875. In C. E. Beveridge & C. F. Hoffman (Eds.) *Writings on Public Parks, Parkways and Park Systems, Papers of Frederick Law Olmsted,* 5 Baltimore, MD: John Hopkins Univserity Press.

Olmsted, F. & Sutton, S. (1997). Civilizing American cities. New York: Da Capo Press.

Olmsted, F. L., Beveridge, C. E., & Rocheleau, P. (1995). Frederick Law Olmsted: Designing the American Landscape. Italy, Rizzoli.

Ortega, F. (2004a) The new public space of politics. *International Review of Sociology: Revue Internationale de Sociologie*. 14 (2), 209-221.

Ortega, F. (2004b) Politics in the new public space, *International Review of Sociology*, 14 (2), 205-207.

O'Sullivan, K. (2014) Column: *The internet gives us actual free speech*. Available from: http://www.loyolamaroon.com/2.6713/column-the-internet-gives-us-actual-free-speech-1.2860339#.UyPxwvmSyWN [Accessed: 15 March 2014]

Owens, P. M. (1993) Neighborhood form and pedestrian life: Taking a closer look. *Landscape and Urban Planning*. 26 (1), 115-135

OED Online (2020) Oxford University Press. Available from: https://www-oed-com.proxy.library.adelaide.edu.au/view/Entry/154052?rskey=1UaS9Y&result=1 [accessed September 27, 2020].

Özgüner, H. & Kendle, A. D. (2006) Public attitudes towards naturalistic versus designed landscapes in the city of Sheffield (UK). *Landscape and Urban Planning*. 74 (2), 139-157.

P

Painter, K. (1996) The Influence of street lighting improvements on crime, fear and pedestrian street use, after dark. *Landscape and Urban Planning*. 35, 193-201

Palmer, J.F., & Hoffman, R.E. (2000) Rating reliability and representation validity in scenic landscape assessment. *Landscape and Urban Planning*. 54, 149-161.

Papadakis, A. & Watson, H. (Eds) (1990) *New Classicism: Omnibus Edition*. London, Academy Editions.

Parkinson J.R. (2009) Does Democracy Require Physical Public Space?. In: Geenens R., Tinnevelt R. (eds) *Does Truth Matter?*. Springer, Dordrecht.

Pasaogullari, N., & Doratli, N. (2004) Measuring accessibility and utilization of public spaces in Famagusta. *Cities*. 21 (3), 225-232.

Pauleit, S., & Duhme, F. (2000) Assessing the environmental performance of land cover types for urban planning. *Landscape and Urban Planning*. 52 (1), 1-20.

Penning-Rowsell, E.C (1975) Constraints on the application of landscape evaluations. *Transactions of the Institute of British Geographers*. 66, 149-155.

Perec, G. (1997) *Approaches to what? Species of Spaces and Other Pieces.* Trans. Sturrock. Harmandsworth, Penguin, 205-207.

Perkins, D.D, Meeks, J.W & Taylor, R.B (1992) The physical environment of street blocks and resident perceptions of crime and disorder: Implications for theory and measurement. *Journal of Environmental Psychology.* 12, 21-34.

Perkins, D.D, Wanderson, A, Rich, R.C. & Taylor, R.B (1993) The physical environment of street crime: Defensible space, territoriality and incivilities. *Journal of Environmental Psychology*. 13, 29-49.

Petroski, H. (2004) Technology and architecture in an age of terrorism. *Technology In Society*. 26, 161-167.

Porteous, J. D. (1990) *Landscapes of the Mind: World of Sense and Metaphor*. Canada, Toronto Press.

Poynter, G., Viehoff, V., & Li, Y. (Eds.). (2015) *The London Olympics and urban development: The mega-event city*. London, Routledge.

Punter, J. (1991) Participation in the design of urban space. Landscape Design, 200, 24-27.

Q

Quayle, M. & Driessen van der Lieck, T. (1997) Growing community: A case for hybrid landscapes. *Landscape and Urban Planning* 39, 99-107.

R

Raco, M.(2003) Remaking place and securitising space: Urban regeneration and the strategies tactics and practices of policing in the UK. *Urban Studies*. 40 (9), 1869-1887.

Ranson, S. (2012) Remaking public spaces for civil society. *Critical Studies in Education*. 53 (3), 245-261.

Raymen, T. (2016) Designing-in crime by designing-out the social? Situational crime prevention and the intensification of harmful subjectivities. *The British Journal of Criminology*, 56(3), 497-514.

Relph, E. (1976) Place and Placelessness. London, Pion.

Robinson, D.G. et al. (eds.) (1976) *Landscape evaluation - the landscape evaluation research project 1970-1975*. Manchester, University of Manchester.

Rodwin, L. & Hollister, R. M. ed. (1984) Cities of the mind. New York, Plenum Press.

Rogers, P. (2016) *Resilience and the City: Change, (Dis)Order and Disaster.* London and New York, Routledge.

Romer, R., & Sathisan, S. (1997) *Integrated systems methodology for pedestrian traffic flow analysis, Transportation Research Board.* Paper 971195.

Rossi, A. (1982) *The Architecture of the City*. 1966. Trans. Ghirardo and Ockman. Cambridge, MIT Press.

Ruppert, E.S. (2006) Rights to public space: regulatory reconfigurations to liberty. *Urban Geography*, 27 (3), 271-292.

Rybczynski, W. (1999) A clearing in the distance: Frederick Law Olmsted and America in the 19th century. New York, Simon and Schuster.

S

SA Health (2020) *Coronavirus disease 2019 (COVID-19)* Available from: https://www.sahealth.sa.gov.au/wps/wcm/connect/public+content/sa+health+internet/cond itions/infectious+diseases/covid+2019 [Accessed: 07 July 2020]

SA Memory (2003) Hajek sculpture plaza, Available from: https://www.samemory.sa.gov.au/site/page.cfm?c=634 [Accessed: 8 December 2019]

Sampson, R.J. & Raudenbush, S.W (2004) Seeing disorder: Neighborhood stigma and the social construction of 'broken windows'. *Social Psychology Quarterly*. 67 (4), 319-342.

Smets, P., & Watt, P. (2013) Exclusion and belonging in urban public and quasi-public space. *The open urban studies journal*, 6(1), 27-29.

Schmitt, A. (2015) *3 Anti-Youth Policies that are Hurting Your City*, Available from: http://magazine.good.is/articles/three-anti-youth-policies/ [Accessed: 17 January 2015]

Scazzosi, L. (2004) Reading and assessing the landscape as cultural and historical heritage. *Landscape Research*. 29 (4), 335-355.

Sell, J. L., J. G. Taylor, and E. H. Zube. (1984) Toward a Theoretical Framework for Landscape Perception. In Saarinen, T.F., Seamon, D. & Sell, J.L. (ed) *Environmental Perception and*

Behavior: An Inventory and Prospect, Chicago, Department of Geography, University of Chicago. 61-83

Senatsverwaltung für Stadtentwicklung, & Denton, J. (2007) *Urban pioneers: Berlin: Temporary use and Urban Development in Berlin*. Berlin: Jovis.

Sennett, R. (1977) The Fall of Public Man. London, Faber & Faber.

Sennett, R. (1990) *The Conscience of the Eye. The Design and Social Life of Cities.* New York, Alfred Knopf.

Shanahan, D. F., Lin, B. B., Bush, R., Gaston, K. J., Dean, J. H., Barber, E., & Fuller, R. A. (2015) Toward improved public health outcomes from urban nature. *American journal of public health*. 105 (3), 470-477.

Shonfield, K. (nd) At home with strangers: Public space and the new community. Working Paper 8. *The Richness of Cities, Urban Policy in a New Landscape*. London, Comedia & Demos.

Sibley, D. (1995) Geographies of Exclusion. London, Routledge.

Sircus, J. (2001) Invented places. Prospect. 81, 30-35.

Sitte, C. (1886) Monuments and Plazas. In Glazer, N., & Lilla, M. (eds.) *The public face of architecture: Civic culture and public spaces.* Free Press, 48-59.

Smith, A. (2018) Paying for parks. Ticketed events and the commercialisation of public space. *Leisure Studies*, *37*(5), 533-546.

Smith, N. (1996) *The New Urban Frontier: Gentrification and the Revanchist City*. London, Routledge.

Sommer, R. (1969) *Personal Space. The Behavioral Basis of Design*. Englewood Cliffs New Jersey, Prentice Hall.

Sorensen, A, Koizumi, H. & Miyamoti, A. (2009) Machizukuri, civil society and community space in Japan. In: Daniere, A. & Douglass, M. (eds.) *The Politics of Civic Space in Asia: Building Urban Communities*. New York, Routledge, 33-50.

Sorkin, M. (ed.) (1992) Variations on a Theme Park: The New American City and the End of Public Space. New York, Hill & Wang.

South Australia Government (2016) Festival Plaza Art Works To Be Removed As Preparation For Redevelopment Begins, Available from: https://theadelaideriverbank.com.au/festival-plaza-art-works-removed-as-preparation-for-redevelopment-begins/ [Accessed: 8 December 2019]

South Australia Government (2019) *Adelaide Festival Plaza Redevelopment*, Available from: https://theadelaideriverbank.com.au/projects/adelaide-festival-plaza-upgrade/ [Accessed: 8 December 2019]

South Australia Government (2020) *Keeping SA Safe And Strong SA.GOV.AU: COVID-19,* Available from: https://www.covid-19.sa.gov.au/ [Accessed: 07 July 2020]

Southworth, M., & Owens, P. M. (1993) The evolving metropolis: studies of community, neighborhood and street form at the urban edge. *Journal of the American Planning Association*. 59 (3), 271-287.

Sotoudehnia, F., & Comber, L. (2011) Measuring perceived accessibility to urban green space: an integration of GIS and participatory map. In 14th AGILE Conference on Geographic Information: Advancing Geoinformation Science for a Changing World.

Squires, C.R. (2002) Rethinking the black public sphere: An alternative vocabulary for multiple public spheres. Communication Theory. 12 (4), 446-468.

Staeheli, L. A. & Thompson, A. (1997) Citizenship, Community and Struggles for Public Space. *The Professional Geographer*. 49 (1), 28-38.

Steinitz, C. (1990) A Framework for Theory Applicable to the Education of Landscape Architects (and Other Environmental Design Professionals). *Landscape Journal*, 9(2), 136-143.

Steinitz, C. (2008) Landscape planning: A brief history of influential ideas, *Journal of Landscape Architecture*, 3:1, 68-74,

Summerling, P. (2011) *The Adelaide Park Lands a social history*. South Australia, Wakefield Press.

Suricio, J. (2020) The Power of Parks in a Pandemic. *CityLab.* 9 April. *Available from:* https://www.citylab.com/perspective/2020/04/coronavirus-nature-city-park-funding-accessibility-location/609697/ [Accessed: 22 April 2020]

T

Talen, E. (2000) Measuring the public realm: A preliminary assessment of the link between public space and sense of community. *Journal of Architectural and Planning Research*. 17 (4), 344-360.

Tanizaki, J. I. (1977) *In Praise of Shadows* (Thomas J Harper and Edward G Seidensticker Trans.) New Haven, Leete's Island Books.

Taylor, A 2014, 'Future cities', Catalyst, television program, ABC, 4 December.

Taylor, R.B (1989) Towards an environmental psychology of disorder: Delinquency, crime and fear of crime. In: Stokes, D. & Altman, I. (eds.) *Handbook of Environmental Psychology*. New York, NY: John Wiley, Vol 2, 951-986.

Taylor, J. G., Zube, E. H. & Sell, J. L. (1987) Landscape Assessment and Perception Research Methods. In Bechtel, R.B., Marans, R. W, & Michelson W. (eds.) *Methods in Environmental and Behavioral research*. New York, Van Nostrand Reinhold Company, 361-393.

Terkenli, T. S. (2005) New landscapes spatialities: The changing scales of function and symbolism. *Landscape and Urban Planning*. 70,.165-176.

The Centre for Urban Design and Mental Health (2019) A Case Study of Urban Design for Wellbeing and Mental Health in Adelaide, Australia. *Journal of Urban Design and Mental Health*; 2019:6; Advance publication Available from: https://www.urbandesignmenta lhealth.com/journal-6-adelaide.html [Accessed: 12 August 2019]

Thwaites, K. (2001) Experiential landscape place: An exploration of space and experience in neighbourhood landscape architecture. *Landscape Research*. 26 (3), 245-255.

Tibbalds, F. (2001) *Making People Friendly Towns: Improving the Public Environment in Towns and Cities*, 2nd edn. London, Spon Press.

Tovey, J. (2020) The coronavirus has made me so grateful for city parks. We should fight for them. *The Guardian*. 20 April 2020. Available from: https://www.theguardian.com/lifeandstyle/2020/apr/20/the-coronavirus-has-made-me-so-grateful-for-city-parks-we-should-fight-for-them [Accessed 22 April 2020]

Trancik, R. (1986) Finding Lost Space: Theories of Urban Design. New York, Van Nostrand Reinhold.

Tschumi, B. (1996) Architecture and Disjunction. Cambridge, MA: MIT Press.

Tschumi, B. (2010) Event-cities 4. Cambridge, MA: MIT Press.

Tuan, Y. (1979) Landscapes of Fear. New York, Pantheon Books.

Tunstall, S., Tapsell, S. and House, M., (2004) Children's perceptions of river landscapes and play: What children's photographs reveal. *Landscape Research*. 29, 181-204.

Turner, J.R. (1975) Applications of Landscape Evaluation: A Planner's View. *Transactions of the Institute of British Geographers*. 66, 156-161.

Twain, M. (1897) *Following the equator: a journey around the world*. Hartford Conn. American Publishing Company. 181

U

Urban Green Spaces Taskforce (2002) *Urban Spaces, Better Places, Final Report of the Urban Green Spaces Taskforce.* London, DTLR.

Unwin, K.I. (1975) The relationship of observer and landscape in landscape Evaluation. *Transactions of the Institute of British Geographers*. 66, 130-134.

Urry, J. (1995) Consuming places. London: Routledge.

Usher, R. (2002) Putting space back on the map: Globalisation, place and identity. *Educational Philosophy and Theory*. 34 (1), 41-55.

V

Vaughan, L., Clark, D. L. C. & Shahbaz, O. (2005) Space and exclusion: The relationship between physical segregation, economic marginalisation and poverty in the city. In: van Nes, A, (ed.) (Proceedings) 5th International Space Syntax Symposium. TU Delft: Delft. 379-394. Available from: http://discovery.ucl.ac.uk/675/[Accessed: 21 April 2014]

Van Den Berg, L., Pol, P.M.J., Mingardo, G. & Speller, C.J.M (2006) *The Safe City: Safety and Urban Development in European Cities.* England. Ashgate Publishing Limited.

Van Melik, R., Van Aalst, I., & Van Weesep, J. (2007) Fear and fantasy in the public domain: the development of secured and themed urban space. *Journal of urban design*. 12 (1), 25-42.

Varna, G. (2014) *Design and the Built Environment: Measuring Public Space: The Star Model.* Abingdon, UK: Routledge

Varna, G., & Tiesdell, S. (2010) Assessing the publicness of public space: The star model of publicness. *Journal of Urban Design*. 15 (4), 575-598.

Varnelis, K., & Friedberg, A. (2008) Place: The networking of public space. In K. Varnelis (ed.) *Networked publics*. Cambridge MIT Press. 15-42.

Venturi, R., Scott Brown, D., & Izenour, S. (1972) *Learning from Las Vegas*. Cam-bridge, MIT Press.

Vernez Moudon, A. (1994) Getting to know the built landscape: Typomorpology. In: Frank, K. & Schneekloth. H. (eds) *Ordering Space: Types in Architecture and Design.* New York, Van Nostrand Reinhold, 289-311.

Victorian Government (2014) Federation square civic and cultural charter Victorian Government

Voyce, M. (2006) Shopping malls in Australia: The end of public space and the rise of 'consumerist citizenship'? *Journal of sociology*, 42(3), 269-286

W

Walker, A (2020) In the coronavirus crisis, who gets to be outside?. *Curbed*. 30 March. Available from: https://www.curbed.com/2020/3/27/21191714/coronavirus-public-spaces-parks-hiking-trails [Accessed: 22 April 2020]

Walls, W. & Walliss, J. (2020) The People's Park: Why is the opening of Northcote Golf Course to the public so exciting?. *Landscape Australia*. 7 October. Available from: https://landscapeaustralia.com/articles/northcote-gold-course/ [Accessed: 20 October 2020]

Wallin, L. (1998) Stranger on the green. In: Light, A. & Smith, J. M. (eds.) *Philosophy and Geography II: The Production of Public Space*. Lanham MD, Rowman & Littlefield, 99–113.

Walliss, J. (2012) The politics of aesthetics: expanding the critique of Headland Park, Sydney. *Journal of Landscape Architecture*, 7:2, 6-13,

Walliss, J. (2014) 'Transformative Landscapes: Postcolonial Representations of Uluru-Kata Tjuta and Tongariro National Parks', *Space and Culture*, 17(3), pp. 280–296.

Walliss, J. (2017a) The Antipodean limits of a manifesto: OMA and the Australian countryside. Landscape Australia. 10 October. Available from: https://landscapeaustralia.com/articles/the-antipodean-limits-of-a-manifesto-oma-and-the-australian-countryside/ [Accessed: 20 October 2020]

Walliss, J. (2017b) Proactive Practices: Raising the social stakes in design. 31 January. Available from: https://landscapeaustralia.com/articles/proactive-practices-raising-the-social-stakes-in-design/ [Accessed: 20 October 2020]

Walliss, J. (2018) December. Designing the Contemporary Civic: Three Australian Squares. In *Great Asian Streets Symposium*.

Walliss, J. (2020) China as a laboratory for change. *Landscape Australia*. 25 January. Available from: https://landscapeaustralia.com/articles/041-la157_part2_china-as-a-lab-for-change-rev/ [Accessed: 20 October 2020]

Walzer, M. (1986) Pleasures and Costs of Urbanity. In P. Kasinitz, (ed.) *Metropolis: Center and Symbol of our Times*. New York: New York University Press.

Ware, I., Bryant, L. & Zannettino, L. (2011) Young men, public space and the production of fear in downtown Adelaide. *Urban Research & Practice*. 4 (2), 193-206.

Webster, C. (2001) Gated cities of tomorrow. Town Planning Review. 72 (2), 149-170.

Weintraub, J. (1995) Varieties and Vicissitudes of Public Space. In P. Kasinitz, (ed) *Metropolis: Center and Symbol of our Times*. New York: New York University Press.

Weintraub, J. (1997) The theory and politics of the public/private distinction. In: Weintraub, J. & and Kumar, K. (eds.) *Public and private in thought and practice: Perspectives on a grand dichotomy*. Chicago: University of Chicago Press, 1-42.

Weisburd, D. & Green, L. (1995) Measuring Immediate Spatial Displacement: Methodological Issues and Problems. *Crime and Place*. 4, 349-61.

Wekerle, GR. & Whitsan, C. (1995) *Safe Cities: Guidelines for Planning, Design and Management*. Van Nostrand Reinhold, New York.

Westphal, J. (2004) Capturing place identity: An examination of factors influencing landscape assessment strategies. *Landscape Review*. 9 (1), 39-47.

Westwood, A. (2014) Between The spheres: Breaking the boundary between private and public spheres in Wilkie Collins's The Woman in White and William Holman Hunt's The Lady of Shalott, *n.p.* Available from: http://open.conted.ox.ac.uk/resources/documents/between-spheres-breaking-boundary-between-private-and-public-spheres-wilkie [Accessed: 12 April 2014]

White, R. (1999) Public spaces, social planning and crime prevention. *Urban Policy and Research*. 17 (4), 301-308.

Whyte, W. H. (1958) *The Exploding Metropolis: A Study of the Assault on Urbanism and How Our Cities Can Resist It.* New York, NY: Doubleday.

Whyte, W. H. (1980) *The Social Life of Small Urban Spaces.* Washington, DC: Conservation Foundation.

Whyte, W. H. (1988) City: Rediscovering the Centre. New York: Doubleday.

Whyte, HW (2000) How to Turn a Place Around. Projects for Public Space Inc.

Wilson, J. & Kelling, G. (1982) Broken windows. Atlantic Monthly. March, 29-36.

Wilson, E. (1995) The rhetoric of urban space. *New Left Review*. 1(209), January – February, 146-160.

Wolfe, A. (1997) Public and private in theory and practice: Some implications of an uncertain boundary. In: Weintraub, J. & Kumar, K. (eds.) *Public and private in thought and practice: Perspectives on a grand dichotomy*. Chicago: University of Chicago Press, 182-203.

Wolfinger, N. (1995) Passing moments: Some social dynamics of pedestrian interaction. *Journal of Contemporary Ethnography*. 24 (3), 323-340.

Woolley, H. (2006) Freedom of the city: Contemporary issues and policy influences on children and young people's use of public open space in England. *Children's Geographies*, 4 (1), 45-59.

WHO (2020) *Timeline of WHO's response to COVID-19.* Available from: https://www.who.int/news-room/detail/29-06-2020-covidtimeline [Accessed: 07 July 2020]

Worpole, K. & Knox, K. (2007) *The Social Value of Public Spaces*. York: Joseph Rowntree Foundation.

Wrede, S, & Adams, W. H. (1991) Introduction. In: Wrede, S, & Adams, W. H. ed. *Denatured Visions: Landscape and Culture in the Twentieth Century*. New York, Museum of Modern Art, 4-6

Y

Young, I.M. (1990) *Justice and the politics of difference*. Princeton University Press.

Young, I.M. (1997) Difference as a resource for democratic communication. In: Bohman, J. & Rehg, W. (eds.) *Deliberative Democracy: Essays on Reason and Politics*. Cambridge: MIT Press, 383-406.

Yang, B. & Kaplan, R. (1990) The perception of landscape style: A cross-cultural comparison. *Landscape and Urban Planning* 19, 251-262.

Ζ

Zacharias, J., Stathopoulos, T., & Wu, H. (2004) Spatial Behavior in San Francisco's Plazas: The Effects of Microclimate, Other People, and Environmental Design. *Environment and Behavior*, 36(5), 638–658.

Zhelnina, A. (2011). 'It's Like a Museum Here': The Shopping Mall as Public Space. Summary. *Laboratorium. Журнал социальных исследований*, 3(2).

Zuve, E.H., Sell, J.L. & Taylor, J.G, (1982) Landscape Perception: Research Applications and Theory. *Landscape Planning* 9:1-33

Zucker, P. (1959) *Town and Square: From the Agora to Village Green.* New York, Columbia University Press.

Zukin, S. (1991) *Landscapes of Power. From Detroit to Disney World*. Berkeley: University of California Press.

Zukin, S. (1995) The Cultures of Cities. Oxford: Basil Blackwell.

Bibliography

Α

Adelaide City Council (2012) Placebook. Adelaide, South Australia (Author).

Adelaide City Council (2013) Place Capital Inventory. Adelaide, South Australia (Author).

Adelaide City Council (2015) *National Listing*. Adelaide, South Australia (Author) Available from http://www.adelaidecitycouncil.com/planning-development/city-heritage/national-listings/ [Accessed: 21 March 2015]

Ahern, J. (1991) Planning for an extensive open space system: linking landscape structure and function. *Landscape and Urban Planning*. 21 (1-2), 131-145.

Aiello, J.R and Thompson, D.E. (1980) Personal Space, Crowding and Spatial Behavior in a Cultural Context. In: Altman, I. & Wohliwill, J.F. (eds.) *Human Behaviour and Environment: Advance in Theory and Research*. Volume 4. United Kingdom, Springer, 107-179.

Alaniz Uribe, F. & Sandalack, B.A. (2015) How to measure public space quality? Urban form and walkability in Calgary, Canada, WALK21 2015 - VIENNA [PDF] Available from: www.ucalgary.ca/urbanlab/files/urbanlab/2015-10-23_walk21_alanizuribe_f.pdf [Accessed: 31 October 2016]

Allmendinger, P. (2002) Planning theory. Basingstoke, Palgrave.

Amemiya, M. & Yokohari, M. (date unknown) *Analyzing the fear of crime in parks and greenways: A case study of Tsukuba science city, Japan*. Working paper.

Andrews, H. F. & Ziegler, S. (1987) Children and Built Environment. In: Bechtel, R.B., Marans, R. W, & Michelson W. (eds) *Methods in Environmental and Behavioral research*. New York, Van Nostrand Reinhold Company, 301-335.

Aurigi, A. (2005) *Making the Digital City, The Early Shaping of Urban Internet Space*. London, Ashgate.

Atkinson, R. (2003) Domestication by cappuccino or a revenge on urban space? Control and empowerment in the management of public spaces. *Urban Studies*. 40 (9), 1829-1843.

В

B.C. Ministry of Forests Forest Practices Branch (1997) *Visual Landscape Inventory: Procedures and Standards Manual.* The Province of British Columbia, Resources Inventory Committee. Available from: https://www.for.gov.bc.ca/hts/risc/pubs/culture/visual/vli.pdf [Accessed: 3 April 2016]

Batty, M. (2004a) *A new theory of space syntax*, CASA Working papers, no 75. London, Centre for Advanced Spatial Analysis (UCL). Available from: http://www.casa.ucl.ac.uk/working_papers/paper75.pdf [Accessed: 10 April 2005]

Batty, M. (2004b) Hierarchy in Cities and City Systems, CASA Working papers, no 85. London, Centre for Advanced Spatial Analysis (UCL). Available from: http://www.casa.ucl.ac.uk/working_papers/paper85.pdf [Accessed: 10 April 2005]

Bauman, Z. (2004) New Frontiers and Universal Values. *Border*. Barcelona, Center of Contemporary Culture of Barcelona.

Bertolini, L. & Djist, M. (2003) Mobility environments and network cities. *Journal of Urban Design*. 8 (1), 27–43.

Bohl, C. (2002) *Place Making: Developing Town Centers, Main streets and Urban villages.* Washington DC, ULI- the Urban Land Institute.

Bonnent, P. & Gill, D. (1973) *Nature in the Urban Landscape: A study of City Ecosystems*, Baltimore, York Press.

Bourassa, S. C. (1994) Landscape aesthetics and criticism. In: Cheng, F., Harrison, F. & Tupu, S. (eds). *The Culture of Landscape Architecture*. Edge Publishing Committee, 95-106.

Brown, B., Werner, C., Amburgey, J., & Szalay, C. (2007) Walkable route perceptions and physical features: Converging evidence for en route walking experiences. *Environment and Behavior*. 39 (1), 34-61

Brownlow, A. (2005) A geography of men's fear. Geoforum. 36 (5), 581-592

C

CABE Space (2004) *Is the Grass Greener...? Learning from International Innovations in Urban Green Space Management* (London: CABE – The Commission for Architecture and the Built Environment).

Castells, M. (1983) The City and the Grassroots. Berkeley: University of California Press.

Castells, M. (1996) The Rise of the Network Society, Oxford, Blackwell.

Chatterton, P. & Hollands, R. (2002) Theorising urban playscapes: producing, regulating and consuming youthful nightlife city spaces. *Urban Studies*. 39, 95–116.

Chenoweth, R. (1992) Research – Hype and Reality. Landscape Architecture. 82 (3), 47-48.

Chennayeff, S. & Alexander, C. (1963) *Community and Privacy: Toward a New Architecture of Humanism*. New York, Doubleday.

Clay, G. R., & Daniel, T. C. (2000) Scenic landscape assessment: the effects of land management jurisdiction on public perception of scenic beauty. *Landscape and Urban Planning*. 49 (1), 1-13.

Co.Exist (2014) Mapping America's Homelessness Problem Visualizes the Extent of an Often Invisible Problem. Fast Company, Available from: http://www.fastcoexist.com/3030363/visualized/mapping-americas-homelessness-problem-visualizes-the-extent-of-an-often-invisible [Accessed: 28 June 2014]

Cole, R. (2005) Don't Let L.A Be the GM of Cities. *Los Angeles Times*, 14 June 2005. Available from: www.latimes.com/news/opinion/commentary [Accessed: 20 June 2005]

Coles, R. W. & Bussey, S. C. (2000) Urban forest landscapes in the UK – progressing the social agenda. *Landscape and Urban Planning*. 52, 181-188.

Cooper, A & Murray, R. (1992) A structured method of landscape assessment and countryside management. *Applied Geography*. 12, 319-338.

Corbett, P. (2005) New Valley alleys are the cat's meow. The Arizona Republic, 14 June 2005.

Corner, J. (1996) The obscene (American landscape). In: Spens, M. (ed). *Landscape Transformed, London*. Academy Editions, 10-13.

Corner, J. ed. (1999) *Recovering Landscape- Essays in Contemporary Landscape Architecture*. USA, Princeton Architectural Press.

Cranz, G. (1980) Women in urban parks. *Signs: Journal of Women in Culture and Society*, *5*(S3), S79-S95.

Cranz, G. (1991) Four Models of Municipal Park Design in the United States. In: Wrede, S, & Adams, W. H. ed. *Denatured Visions: Landscape and culture in the Twentieth Century.* New York, Museum of Modern Art, 118-123.

D

Day, N. & Brown-May, A. (2005) Federation Square. Victoria, Hardie Grant Books.

De Ridder, K., Adamec, V., Bañuelos, A., Bruse, M., Bürger, M., Damsgaard, O. & Thierry, A. (2004) An integrated methodology to assess the benefits of urban green space. *Science of the Total Environment*, 334, 489-497.

De Sousa, C. A. (2003) Turning brownfields into green space in the City of Toronto. *Landscape and urban planning*. 62 (4), 181-198.

Developer Jay Cross on What Makes a Great Public Space, (2014) Available from: http://www.businessweek.com/articles/2014-03-20/developer-jay-cross-on-what-makes-a-great-public-space [Accessed: 22 March 2014]

DeWolf, C. (2005) Post these bills: Posters aren't just urban clutter, For many They're the Only Way to get a Message Out. *Maisonneuve* 15, 15 June 2005.

Doeksen, H. (1997) Reducing crime and the fear of crime by reclaiming New Zealand's Suburban Street. *Landscape and Urban Planning*. 39, 243-252.

E

Ellin, N. (1999) Postmodern Urbanism, rev. edn. Oxford, Blackwell.

Estlund. D, (2009) Epistemic Proceduralism and Democratic Authority. In: Geenens, R., & Tinnevelt, R. (eds) *Does truth matter?: democracy and public space*. United Kindgom Springer, 15-28.

Executive Editors, (2014) *Public parks, private payment*. Available from: http://www.executive-magazine.com/opinion/leaders/public-parks-private-payment [Accessed: 22 March 2014]

F

Fabos, J. G. (1995) Introduction and overview: the greenway movement, uses and potentials of greenways. *Landscape and Urban Planning*. 33, 1-12.

Fernandez, M. (2005) *Crime prevention and the perception of safety in campus design*. M.A. Thesis Louisiana State University.

Fisher, B. S. & Nasar, J. L (1992) Fear of crime in relation to three exterior site features, prospect, refuge and escape. *Environment and Behavior*. 24 (1), 35-65.

Fisher, B. S. & Nasar, J. L. (1995) Fear spots in relation to microlevel physical cues: exploring the overlooked. *Journal of Research in Crime and Delinquency*. 32 (2), 214-239.

Ford, M. (2014) *A Dictator's Guide to Urban Design*. Available from: http://www.theatlantic .com/international/archive/2014/02/a-dictators-guide-to-urban-design/283953/ [Accessed: 21 April 2014]

Forman, R. T. T. & Godron (1986) Landscape Ecology. USA John Wiley & Son Inc.

Frampton, K. (1991) In Search of the Modern Landscape. In: Wrede, S, & Adams, W. H. (ed.) *Denatured Visions: Landscape and culture in the Twentieth Century.* New York, Museum of Modern Art, 42-61.

Friends of the High Line (nd), *High Line Self-Guided Visit*, New York, n.p. Available from: http://www.thehighline.org/pdf/high-line-self-guide-spring.pdf_[Accessed: 7 June 2014]

G

Gobster, P. H (1998) Urban parks as green walls or green magnets? Interracial relations in neighbourhood boundary parks. *Landscape and Urban Planning*. 41, 43-55.

Goodyear, S. (2014) The Quest to Measure the Brain's Response to Urban Design. *CityLab*, 6 May 2014. Available from: http://www.citylab.com/tech/2014/05/quest-measure-brains-response-urban-design/9046/ [Accessed: 28 June 2014]

Goodyearaug, S. (2012) 'Walk Score' Is Great, But it Still Doesn't Capture 'Walk Appeal' Available from: http://www.theatlanticcities.com/commute/2012/08/walk-score-great-it-still-doesnt-capture-walk-appeal/2858/ [Accessed: 21 February 2014]

Graham, S. & Marvin, S. (1999) Planning cybercities? Integrating telecommunications into urban planning? *Town Planning Review*. 70 (1), 89-114.

Н

Hall, P. & Imrie, R. (1999) Architectural practices and disabling design in the built environment. Environment & Planning B. *Planning & Design*. 26, 409-425.

Harrisson, F. (2003) Not nothing: Shades of public space. *Journal of Australian Studies* 27 (76), 35-43.

Hayden, S. (2003) Taste Great, Less Filling, AD Space: Will Advertisers learn the Hard Lesson of Over–Development? *Wired*. 11 June 2003. Available from: www.wired.com/archive /11.06/ad spc pr.html [Accessed: 14 April 2005]

Heart Foundation, Planning Institute Australia, Australian Local Government Association (2009) Healthy spaces & places: a national guide to designing places for healthy living: an overview. Kingston, ACT, Planning Institute of Australia.

Howley, P., Donoghue, C. O., & Hynes, S. (2012) Exploring public preferences for traditional farming landscapes. *Landscape and Urban Planning* 104 (1), 66-74

Hume, C., Timperio, A., Ball, K., Salmon, J. andrianopoulos, N. & Crawford, D. (nd), *Public open spaces- what features encourage children to be active?* Centre for Physical Activity and Nutrition Research Deakin University.

Huxley, M. (1994) Escaping the culture: Landscape Architecture and praxes of empowerment. In: Cheng, F., Harrison, F. & Tupu, S. ed. *The Culture of Landscape Architecture*, Edge Publishing Committee, 35-42.

ı

Imrie, R. & Hall, P. (2001) Inclusive Design: Designing and Developing Accessible Environments. London, Spon Press.

Intermethod (2013A) *Splash Adelaide North Terrace Deck Chairs Snapshot Evaluation*. Adelaide, South Australia: Adelaide City Council.

Intermethod (2013B) *Splash Adelaide Bike Park Snapshot Evaluation*. Adelaide, South Australia: Adelaide City Council.

Intermethod (2013C) *Splash Adelaide Gawler Place Pop Up Plaza Snapshot Evaluation.* Adelaide, South Australia: Adelaide City Council.

Intermethod (2013D) *Splash Adelaide Coromandel Place Parklet Snapshot Evaluation*. Adelaide, South Australia: Adelaide City Council.

Intermethod (2013E) *Splash Adelaide Leigh Street Alfresco Dining Snapshot Evaluation.* Adelaide, South Australia: Adelaide City Council.

Intermethod (2013F) *Splash Adelaide Chesser Street Alfresco Snapshot Evaluation*. Adelaide, South Australia: Adelaide City Council.

Intermethod (2013F) *Splash Adelaide James Place Eating Area Snapshot Evaluation*. Adelaide, South Australia: Adelaide City Council.

Intermethod (2013G) *Shopper travel Choice survey.* Adelaide, South Australia: Adelaide City Council.

Iveson, K. (2010) Introduction. *City: Analysis of Urban Trends, Culture, Theory, Policy, Action* 14 (1-2), 25-32.

Iveson, K. (2011) Ten Years After 9/11, City: Analysis of Urban Trends, Culture, Theory, Policy, Action 15 (3-4), 389-391.

Iveson, K. (2011) Ten Years After 9/11: Part Two, City: Analysis of Urban Trends, Culture, Theory, Policy, Action 15 (5), 589-590.

ı

Jackson, J. B. (1991) The Past and Future Park. In: Wrede, S, & Adams, W. H. ed. *Denatured Visions: Landscape and culture in the Twentieth Century.* New York, Museum of Modern Art, 129-134.

Jacobs. J. (1961) The uses of sidewalks: Contact. In: Glazer, N., & Lilla, M. (eds. 1987), *The Public Face of Architecture: Civic Culture and Public Spaces*. Free Press, 95-112.

James, F.P., (2000) Reliability of Rating Visible Landscape Qualities. *Landscape Journal*. 19 (1-2), 166-178.

Jellicoe, Sir G. (1991) Jung and the Art of landscape: A personal experience. In: Wrede, S, & Adams, W. H. (eds.) *Denatured Visions: Landscape and Culture in the Twentieth Century.* New York, Museum of Modern Art, 124-128.

Jim, C. Y., & Chen, S. S. (2003) Comprehensive greenspace planning based on landscape ecology principles in compact Nanjing city, China. *Landscape and Urban Planning*. 65 (3), 95-116.

Johnston, L. (2001) Crime, Fear and Civil Policing. Urban Studies. 38 (5-6), 959-976.

Jones, K. R., & Wills, J. (2005) *The invention of the park: From the Garden of Eden to* Disney's Magic Kingdom. Oxford, Polity.

K

Kitchen, T., & Schneider, R. H. (2006) *Crime Prevention and the Built Environment*. New York, Routledge.

Konduri, V.S. (2014) Architecture Critic Lectures on 'The Politics of Public Space', Available from: http://www.thecrimson.com/article/2014/2/7/architecture-public-space-lecture/ [Accessed: 21 April 2014]

Krog, S. R. (1991) Whither the Garden? In: Wrede, S, & Adams, W. H. (eds.) *Denatured Visions: Landscape and Culture in the Twentieth Century.* New York, Museum of Modern Art, 94-105.

L

Leach, H. (2000), *Cultivating Myths: Fiction, Fact & Fashion in Garden History*. New Zealand, Random House.

Lee, D.B. & Bourderonnet, M. (Host) (21 August 2018) *The Midnight Charette Sharon Zukin on Privately Managed Public Spaces, Gentrification and Urban Authenticity* [Audio podcast] Available from: https://www.spotify.com/au/[Accessed: 1 September 2019]

Lefort, C. (1986) Politics and Human Rights. In: *The Political Forms of Modern Society. Bureaucracy, Democracy, Totalitarianism*. Cambridge: MIT Press, 39-272.

Leith, S. (2001) Assigning Value to Open Space. MA Environmental Studies dissertation. University of Adelaide, Adelaide.

Livingston, M., Shaw, W. W., & Harris, L. K. (2003) A model for assessing wildlife habitats in urban landscapes of eastern Pima County, Arizona (USA). *Landscape and Urban Planning*. 64 (3), 131-144.

Llewelyn-Davis (2000) *Urban Design Compendium*. London, English Partnerships/The Housing Corporation.

Lothian, A., (2012) Measuring and Mapping Landscape Quality Using the Community Preferences Method. Blenheim, New Zealand Planning Institute Annual Conference.

Los Angeles County Bicycle Coalition (nd) 2011 Los Angeles Bicycle and Pedestrian Count Report. Los Angeles, Los Angeles County Bicycle Coalition.

Low, S. M., Taplin, D., & Scheld, S. (2005) *Rethinking Urban Parks: Public Space and Cultural Diversity*. Austin, University of Texas Press.

M

m-bike.org. (2012) *Detroit's WalkScore is broken. Bikescore to*? Available from: http://www.m-bike.org/blog/2012/05/15/detroits-walkscore-is-broken-bikescore-too/ [21 April 2014]

Mahdjoubi, L. & Wiltshire, J., (2001) Towards a framework for evaluation of computer visual simulations in environmental design. *Design Studies*. 22 (2), 193-209.

Marans, R. W (1987) Survey research In: Bechtel, R. B., Marans, R. W., & Michelson W. (ed.) *Methods in Environmental and Behavioral research.* New York, Van Nostrand Reinhold Company, 41-81.

Martin, R. (2014) Fundamental #13, The Design Observer Group Available from: http://places
.designobserver.com/feature/real-estate-and-the-responsibility-of-architects/38450/
[Accessed: 29 May 2014]

Mathew, W.H. (1970) *Mazes & Labyrinths, Their History & Development*. 2nd ed. New York, Dover Publication Inc.

Melucci A. (1984) An end to social movements? Soc. Sci. Info. 23, 819-835.

Miethe, T. (1995) Fear and withdrawal from urban life. *Annals of the American Society of Political and Social Science*. 539, 14-27.

Mitchell, D., & Staeheli, L. A. (2009) Public space. *International Encyclopaedia of Human Geography*. London, Elsevier, 511-516

Mitchell, W. J. (1996) City of Bits: Space, Place and the Infobahn. Cambridge: MIT Press

Morlet, C. (2014) Shared Space and Slow Zones: Comparing Public Space in Paris and New York. Project for Public Spaces. Available from: http://www.pps.org/blog/shared-space-and-slow-zones-comparing-public-space-in-paris-and-new-york/#.U39cQTpm5rM.twitter [Accessed: 28 June 2014]

Moughtin, C. (2003) Urban Design: Street and Square. Oxford: Elsevier Ltd.

N

Nayak, A. (2003) 'Through children's eyes': childhood, place and the fear of crime. *Geoforum*. 34, 303-315.

New Economics Foundation (2004) *Clone Town Britain, The Loss of Local Identity on the Nation's High Streets.* London, New Economics Foundation.

Norwich, J. J. (2009) The Great Cities in History. London, Thames & Hudson.

0

Özhancı, E., Yılmaz, H., (2011) Evaluation of Recreation Areas for Visual Landscape Quality; Sample of Erzurum, Turkey. Iğdır Univ. *J. Inst. Sci. & Tech.* 1 (2), 67-76.

P

Pearson, M. P., & Richards, C. (eds.), (2004) *Architecture and Order: Approaches to Social Space*. London, Routledge.

Penning-Rowsell, E. C. & Lowenthal, D. ed. (1986), *Landscape Meaning and Values*. London, Allen & Unwin.

Perkins, D. D., & Brown, B. B. (n.d) Revised Block Environmental Inventory. University of Utah.

Perkin, D.D. and Taylor, R.B. (1996) Ecological assessments of community disorder: Their relationship to fear of crime and theoretical implications. *American Journal of Community Psychology*. 24, 63-107.

Phelps, J. (2014) The Green Team: On Occupying Urban Space, Available from: http://www.metropolismag.com/Point-of-View/February-2014/The-Green-Team-On-Occupying-Urban-Space/ [Accessed: 21 April 2014]

Planning Advisory Service (1965) *Information Report No. 199 The Pedestrian Count,* Chicago. American Society of Planning Officials.

Project for Public Spaces (2009) *Lincoln Place: Making Lincoln Place 'A Place' in Downtown Madison, NJ.* New York, Project for Public Spaces.

Purciel, M. & Marrone, E. (2006) *Observational Validation of Urban Design Measures for New York City Field Manual.* New York, Active Living Research Program.

Pushkarev, B., & Zupan, J. (1975) *Urban Space for Pedestrians: A Report of the Regional Plan Association*. Cambridge: The MIT Press.

R

Rad, V.B & Ngah, I.B (2014) Assessment of Quality of Public Urban Spaces. *Science International*. 26 (1), np.

Relph, E. C. (1987) *The Modern Urban Landscape: 1880 to the Present*. Baltimore: Johns Hopkins University Press

Remmert, H. (1980) Ecology A Textbook. New York, Springer-Verlong Berlin-Heidlberg.

Rheingold, H. (1993) *The Virtual Community: Homesteading on the electronic frontier*. Addison-Wesley Longman Publishing Co., Inc.

Rivlin, L. G. (2007) Found spaces. Freedom of choice in public life. In: Franck, K. & Stevens, Q. (eds.), *Loose Space: Possibility and Diversity in Urban Life*. Oxon: Routledge, 38-53.

Roberts, M. & Turner, C. (2005) Conflicts of liveability in the 24-hour city: learning from 48 hours in the life of London's Soho, *Journal of Urban Design*. 10 (2), 171-193

Robertson, A. (1997) Introduction: Research on forest environmental influences in a changing world. *Agricultural and Forest Meteorology* 84, xiii-xvi

Rodriguez, G. (2014) *The U.S. Has Let the Public Square Become a Metaphor and That Can't Be Good for Our Democracy*. Available from: http://www.citywatchla.com/lead-stories-hidden/6736-the-u-s-has-let-the-public-square-become-a-metaphor-and-that-can-t-be-good-for-our-democracy [Accessed: 27 April 2014]

Rose, M. (2002) Landscape and labyrinths. Geoforum, 33, 455-467

Rosenblum, R. (1991) The Withering Greenbelt: Aspects of landscape in Twentieth Century painting. In: Wrede, S, & Adams, W. H. ed. *Denatured Visions: Landscape and culture in the Twentieth Century*. New York, Museum of Modern Art, 33-41

Ruskin, J. (1880) The Seven Lamps of Architecture, Kent, George Allen

Rycroft, S. (1996) Mapping, Modernity and the new landscape. In: Spens, M. ed. *Landscape Transformed, London*, Academy Editions, 30-37

S

Sampson, R J. & Groves. W. B. (1989) Community structure and crime: Testing social-disorganization theory. *American Journal of Sociology.* 94 (4), 774-802. Reprinted in Frances Cullen and Velmer Burton, eds., *Contemporary Criminological Theory*. Dartmouth Publishing Co., 1994.

Sanday, P. R. (1974) Female status in the public domain. In: Rosaldo, M. & Lamphere, L. (eds.) *Woman, culture and society*. Stanford: Stanford University Press, 189-206.

Sarkissian, W. (1983) *The Australian Vandalism Prevention Information Kit.* Australia, Social Impacts Publications.

Sassoon, J. (1984) Ideology, symbolic action and rituality in social movements: the effects on organizational forms. *Soc. Sci.Info.* 23 (86), 1-73.

Sassen, S. (1994) Cities in a World Economy. Thousand Oaks CA, Pine Forge Press.

Schneider, R., Arnold, L., & Ragland, D. (2009) Methodology for counting pedestrians at intersections: use of automated counters to extrapolate weekly volumes from short manual counts. *Transportation Research Record: Journal of the Transportation Research Board*. 2140, 1-12.

Schinazi, V. R. (2005) *Spatial representation and low vision: Two studies on the content accuracy and utility of mental representations*, CASA Working papers, no 93, [Internet], London, Centre for Advanced Spatial Analysis (UCL). Available from: http://www.casa.ucl.ac.uk/working _papers/paper93.pdf [Accessed: 10 April 2005]

Schmidt, T. (1998) An environment behaviour approach to public space design: the study of two urban spaces in Brisbane. *Landscape Australia*. 3, 240-246.

Schmitt, A. (2014) The 5 Cities Where It's Easiest — and Hardest — to Walk to the Grocery Store. Available from:_http://usa.streetsblog.org/2014/03/27/the-5-cities-where-its-easiest-and-hardest-to-walk-to-the-grocery-store/ [Accessed: 21 April 2014]

Schweizer, T. (2005) Everyday Walking Culture. Paper presented at The 6th International Conference on Walking in the 21st Century, September 22-23 2005, Zurich, Switzerland. Available from: www.walk21.ch [Accessed: 28 May 2013]

Scully, V. (1991) Architecture: the natural and the Manmade. In: Wrede, S. & Adams, W. H. (eds.) *Denatured Visions: Landscape and Culture in the Twentieth Century*. New York, Museum of Modern Art, 7-18.

Scruton R. (1984) Public Space and the classical Vernacular. In Glazer, N., & Lilla, M. (1987 *The Public Face of Architecture: Civic Culture and Public Spaces*. Free Press, 13.

Seamon, D. & Sowers, J. (2008) Place and Placessness, Edward Relph. In: Hubbard, P. Kitchen, R. & Vallentine, G. (eds.) *Key Texts in Human Geography*. London, Sage, 43-51.

Seddon, G. (1997a) Words and Weeds: some notes on language and landscape. In: Seddon, G. (ed.) *Landprints*. USA, Cambridge University Press, 15-27.

Seddon, G. (1997b) Prelude: Dual allegiances. In: Seddon, G. (ed.) *Landprints*. USA, Cambridge University Press, xi-xviii.

Seddon, G. (1997c) The nature of nature. In: Seddon, G. (ed.) *Landprints*. USA, Cambridge University Press, 7-14.

Sennett, R. (1992) The Fall of Public Man, New York, W.W. Norton.

Shane, D. G. (2005) *Recombinant Urbanism: Conceptual Modelling in Architecture, Urban Design and City Theory*. Great Britain, Wiley-Academy.

Shields, R. (1991) *Places on the Margin*, London, Routledge.

Slessor, C. (2014) Architectural Review's Latest Issue: 'Is This The End of Public Space?' Available from: http://www.archdaily.com/486724/architectural-review-s-latest-issue-is-this-the-end-of-public-space/?ad_medium=widget&ad_name=architecture-publications&ad_content=486724 [Accessed: 17 March 2014]

Spens, M. (1996) Landscape Transformed. In: Spens, M. (ed.) *Landscape Transformed, London*. London: Academy Editions, 6-9.

Spreckelmeyer, K. (1987) Environmental Programing. In: Bechtel, R. B., Marans, R. W, & Michelson W. (eds.) *Methods in Environmental and Behavioral research*. New York, Van Nostrand Reinhold Company, 247-26.

Steadman, R. G. (1979) The assessment of sultriness. Part I: A temperature-humidity index based on human physiology and clothing science. *Journal of Applied Meteorology*. 18 (7), 861-873.

Stilgoe, J. R. (1988) *Borderland: Origins of the American Suburb 1820-1939.* New Haven, Yale University Press.

Subijanto, R. (2011) The visibility of a pious public. Inter-Asia Cultural Studies. 12 (2), 240-253.

T

Tang, I. C., Sullivan, W. C., & Chang, C. Y. (2015) Perceptual evaluation of natural landscapes: The role of the individual connection to nature. *Environment and Behavior*. 47 (6), 595-617.

Taylor, J., Paine, C., & FitzGibbon, J. (1995) From greenbelt to greenways: four Canadian case studies. *Landscape and Urban Planning*. 33(1), 47-64.

Tinkler, K. J. (1975) On the choice of methods in the factor analysis of connectivity matrices: a reply. *Transactions of the Institute of British Geographers*, 168-171.

Thomas, M. R. (2002) A GIS-based decision support system for brownfield redevelopment. *Landscape and Urban Planning*. 58 (1), 7-23.

Touraine, A. (1971) The May Movement: Revolt and Reform. New York, Random House.

U

Urban, J. (2004) Genius Loci in Transition. Landscape Architecture. 94 (4), 68–78.

United States. Public Buildings Service (2007) *Achieving great federal public spaces: a property manager's guide*, U.S. General Services Administration, Public Buildings Service, Washington, D.C.

V

Vanderbilt, T. (2012) What's Your Walk Score? Available from: http://www.slate.com/articles/life/walking/2012/04/walking_in_america_how_walk_score_p uts_a_number_on_walkability_.html [Accessed: 21 April 2014]

Van Alen Institue (2014), How Does the Brain Respond to the City? Available from: http://www.vanalen.org/elsewhere/events/how-does-the-brain-respond-to-the-city/, [Accessed: 28 June 2014]

Van Herzele, A., & Wiedemann, T. (2003) A monitoring tool for the provision of accessible and attractive urban green spaces. *Landscape and Urban Planning*. 63 (2), 109-126.

Veitch et al. (2014) A natural experiment to examine the impact of park renewal on park-use and park-based physical activity in a disadvantaged neighbourhood: the REVAMP study methods. *BMC Public Health*, 14:600 Available from: http://www.biomedcentral.com/1471-2458/14/600 [Accessed: 7 March 2016]

W

Walk Score. Available from: http://www.walkscore.com/ [Accessed: 21 April 2014]

Walliss, J. (2018) A contemporary Asian practice. *Landscape Australia*. 31 May. Available from: https://landscapeaustralia.com/articles/055-la157_part3_a-contemporary-asian-practice/ [Accessed: 20 October 2020]

Walliss, J. (2020) China as a laboratory for change. *Landscape Australia*. 25 January. Available from: https://landscapeaustralia.com/articles/041-la157_part2_china-as-a-lab-for-change-rev/ [Accessed: 20 October 2020]

Walliss, J. & Rahmann, H. (2015) Designing the twenty-first century urban park: design strategies for a warming climate. In *Living and Learning: Research for a Better Built Environment: 49th International Conference of the Architectural Science Association* (pp. 869-878).

Walliss, J. & Rahmann, H. (2018) Reflections on an Australian education. *Landscape Australia*. 9 Jul. Available from: https://landscapeaustralia.com/articles/reflections-on-an-australian-education/ [Accessed: 20 October 2020]

Ware, S. A (2005) Whose Past? Landscape Australia. 27 (2) May, 12-16.

Welsh, B. & Farrington, D. (2002) *Crime Prevention Effects of Closed Circuit Television: A Systematic Review*, London, Home Office.

Whithouse, D. (2005), Half of humanity set to go urban. *BBC News Website*, 19 May 2005. Available from: http://news.bbc.co.uk/go/pr/fr/-/2/hi/science/nature/4561183.stm [Accessed: 20 May 2005]

Wilton, R. D. (1998), The constitution of difference: Space and psyche in landscapes of exclusion. *Geoforum.* 29 (2), 173-185.

Woolley, H., Rose, S., Carmona, M. & Freeman, J. (nd) *The Value of Public Space, How High Quality Parks and Public Spaces Create Economic, Social and Environmental Value, London, CABE Space.*

Worpole, K. (1999) Open all hours, like it or not. New Statesman, xxvi – xxvii.

Y

Yang, D. (2006) *Waterfronts: Spatial Composition and Cultural Use*, Unpublished PhD thesis, University College London.

Z

Zeisel, J. (1990) Inquiry by Design. Cambridge, Cambridge University Press.

Zetter, R. & Butina-Watson, G. (eds.) (2006) *Designing Sustainable Cities in the Developing World*. London, Ashgate.

Appendices

Table of contents

Appen	dix 1: Public space term use by discipline and author	p. 423
	dix 2: Methods, technique and tools to assess public space typologies and gies of publics	p. 431
2.A	Overview of assessment methods and disciplines, linked with researchers and consultants practicing those methods	p. 433
2.B	Detailed overview of observation methods	p. 441
2.C	Detailed overview of interview methods	p. 471
Appen	dix 3: Design assessment framework approach self-administered	p. 481
questi	onnaire surveys	
3.A	Ethics Clearance	p. 483
3.B	Analysis & Evaluation of Civic Space: Implications for the Landscape Architect. Defining 'Civic' Space	p. 489
3.C	Analysis & Evaluation of Civic Space: Implications for the Landscape Architect. Design Awards Criteria	p. 499
Appen	dix 4: Methods, technique and tools to assess public space typologies and	p. 515
typolo	gies of publics	
4.A	Data sets	P. 517
4.B	Data scores	p. 519
4.C	T-test results	p. 521

Appendix 1

Public space term use by discipline and author

Definitions of public space in academic literature is subjective and numerous (Madanipour 1996). Over 300 articles, books, reference publications and other sources were examined to develop the categorisation of Public Space, Public Realm, Public Sphere and Public Domain present in Chapter Two. The sources included literature reviews, policy comparisons, methodologies or approaches recommendations, surveys, interviews, observations or case studies. Appendix 1 expands on Table 2-1: Public Space term use by Discipline, presenting authors who have presented definitions of the term Public Space, Public Realm, Public Sphere and Public Domain.

The categorisation of disciplines below acknowledges the complexities of the terms and of the disciplines. The categorisation of disciplines demonstrates how the term is used in the same context and to acknowledge similarities. For instance, Urban planning and Urban design use the term public space in the same context.

The categorisation of authors below acknowledges a number of authors are cross disciplinary. Discipline categorisation below is related to the sources reviewed.

Appendix Table 1.A- 1: Public Space term use by Discipline and Author

	Term			
Discipline	Public Space	Public Realm	Public Sphere	Public Domain
Anthropology and social anthropology	Edward T. Hall Marc Augé Mark Graham Mizuko Ito Nan Ellin Néstor García Canclini Setha Low Shahram Khosravi		Arjun Appadurai Cindi Katz Dale F. Eickelam David Harvey Ida Susser Neil Smith Roberto j. González Talal Asad	Peggy R. Sanday
Architecture	Adèle Naudé Santos Aldo Rossi Aldo van Eyck Alessandro Aurigi Andres Duany Artemis Anninou Bernard Rudofsky Bernard Tschumi Bill Hillier Birgitte Svarre	Alessandro Aurigi Frederique Krupa Geoffrey Broadbent Kim Dovey Lars Gemzøe Margaret Crawford Peter Buchanan	Alessandro Aurigi Hans Teerds Margaret Crawford Tom Avermaete	Geoffrey Broadbent Richard Rogers

	Bryan Lawson		
	CABE		
	Camillo Sitte		
	Charles Jencks		
	Christopher		
	Alexander		
	Clive Briffett		
	Crawford		
	David Grahame		
	Shane		
	Denise Scott		
	Brown		
	Deyan Sudjic		
	Elizabeth Plater-		
	Zyberk		
	Frederique Krupa		
	Geoffrey		
	Broadbent		
	Gordon Cullen		
	Hajo Neis		
	Ingrid Fiksdahl-		
	King		
	J. Meejin Yoon		
	Jan Sircus		
	Julienne Hanson		
	Karen A. Franck		
	Kim Dovey		
	Lars Gemzøe		
	LeCorbusier		
	M. Christine		
	Boyer		
	Manuel De Solà-		
	Morales		
	Margaret		
	Michael Sorkin		
	Murray		
	Silverstein		
	Naciye Doratli		
	Nil Pasaogullari		
	Norman Edwards		
	Oscar Newman		
	Peter		
	Bosselmann		
	Peter Calthorpe		
	Quentin Stevens		
	Rachel Berney		
	Rem Koolhass		
	Richard Burdett		
	Robert Venturi		
	Sandra Kaji-		
	O'Grady		
	Sara Ishikawa		
	Serge Chermayeff		
	Steven Izenour		
	Teddy Cruz		
	Vikas Mehta		
Architecture critic	Michael		
	Kimmelman		
	Reyner Banham		
Author	Charles T.		
	Goodsell		
	Georges Perec		
	James Howard		
	Kunstler		
Communications	Robin Andersen	Paolo Carpignano	
20mmamications		. acio cai pignano	

	Susan Drucker		Robin Andersen	
	Gary Gumpert			
	Paolo Carpignano			
Criminologist	George L. Kelling			
	Rob White			
	Wesley G.			
	Skogan			
	James Q. Wilson George L. Kelling			
	Patricia I.			
	Brantingham			
	Paul J.			
	Brantingham			
Ecopsychology,	David Victor			
environmental	Canter			
psychology and	lanto Ware			
psychology	Jacinta Francis			
	Kenson Kwok			
	Lana Zannettino Leanne G Rivlin			
	Lia Bryant			
	Marie-Line			
	Félonneau			
	Rachel Kaplan			
	Robert Sommer			
	Vicky Cattell			
	Yoji Aoki			
English	Lauren Berlant	David Fleming	Andrew Ross	
	David Fleming		David Fleming	
			Ken Hirschkop Lauren Berlant	
			Melba Cuddy-	
			Keane	
			Michael Warner	
			Thomas Keenan	
Geography -	Adam Holden	Kurt Iveson	David Harvey	
Political, social,	Adrienne Burk	Nicholas R Fyfe	Kurt Iveson	
cultural, human	Albert Thompson			
and urban	Alec Brownlow			
	Alice Coleman			
	Andy Merrifield			
	Anne Buttimer			
	Arnaud Piombini Ash Amin			
	C.Y. Jim			
	David Seamon			
	Denis E.			
	Cosgrove			
	Don Mitchell			
	Edward Relph			
	Fariba			
	Sotoudehnia			
	Gill Valentine			
	Jacob Sowers			
	Jean-Christophe Foltête			
	Jordi Borja			
	Kurt Iveson			
	Lex Comber			
	Luca Bertolini			
	Lynn A. Staeheli			
	Mark Jayne			
	Mike Raco			
	Neil Smith			
	Nicholas R Fyfe			
	Nick Dines			

	Pauline Marne			
	Phil Hubbard			
	Ronald A.			
	Davidson			
	Robbert D.			
	Wilton			
	Roman			
	Cybriwsky			
	Ronald A.			
	Davidson			
	Sarah Curtis			
	Sarah L.			
	Holloway			
	Sophia S. Chen			
	Ted Kilian			
	Victor R. Savage Wil Gesler			
	Yi-Fu Tuan			
Historian		Pocalica	Varue Varnelie	
Historian	Kazys Varnelis	Rosalyn	Kazys Varnelis	
	Kevin Mattson	Deutsche	Rosalyn	
	M. Christine		Deutsche	
	Boyer			
	Rosalyn Deutsche			
	Sara M. Evans			
	Spiro Kostof			
	Thomas C. Holt			
	Mark Lilla			
Journalist	Matt Ford			
Journalist	Joel Garreau			
Landscape	CABE	Catherine Dung	James Corner	Catherine Dung
architecture	Carolyn Francis	James Corner	Kristine F Miller	James Corner
architecture	Catherine Dung	Kristine F Miller	MISHINE I IVIIIIEI	James Corner
	Chun-Yen Chang	MISCHICT WITHET		
	Clare Cooper			
	Marcus			
	Elizabeth K.			
	Meyer			
	Fiona Harrisson			
	Hein Doeksen			
	Helen Woolley			
	I-Chun Tang			
	J.B. Jackson			
	Jack Ahern			
	James Corner			
	Jane Hutton			
	Jill Desimini			
	Johanna Phelps			
	Kevin Thwaites			
	Kristine F Miller			
	Kym M. Jones			
	Lawrence Halprin			
	Margaret			
	Livingston Mark Francis			
	Michael D.			
	Fotheringham			
	Rodney H.			
	Matsuoka			
	Sharon Leith			
	Simon Bell			
	William C.			
	Sullivan			
Media studies	Anne Friedberg		Anne Friedberg	
	Luke Goode		Luke Goode	

Other	Andrew M. Stone	Dana Polan	Bruce Robbins	
	Antoni untadas	George Yodice	Dana Polan	
	Ashley Dawson	Luke Goode	Fredric Jameson	
	Benjamin Fraser	Howard Frumkin	George Yodice	
	Bruce Mau		Kenneth	
	Bruce Robbins		McLaughlin	
	Chatford Clark		Lisa McLaughlin	
	Chris Mitchell Dale Leorke		Murali Balaji	
	Dana Polan			
	Deyan sudjic			
	Eric Kluitenberg			
	Garrett Hardin			
	Harry C. Boyte			
	Jeffrey Tumlin			
	Kenneth			
	McLaughlin			
	Laura Vaughan			
	Leo Marx			
	Lisa K. Harris			
	Lisa McLaughlin			
	Marc Hochstein			
	Mary Gail Snyder Ozlem Sahbaz,			
	Rianne Subijanto			
	Robert C.			
	Ellickson			
	Robin Usher			
	Sigrid Merx			
	Sigrid Merx			
	Stewart Ranson			
	William W. Shaw			
Philosophy	Bart Verschaffel	Bart Verschaffel	Claude Lefort	Claude Lefort
	Cheryl Misak Claude Lefort	Claude Lefort	James Bohman Jürgen Habermas	
	Ina Blom	Roger Scruton	Roger Scruton	
	James Bohman		Noger Scruton	
	Roger Scruton			
	Roger Scruton			
	Thomas Nagel			
Planning	Alexander R.	Claudio De	Claudio De	Arnold Reijndorp
S	Cuthbert	Magalhães	Magalhães	Claudio De
	Brian G. Field	Frank Gaffikin	Matthew	Magalhães
	Camillo Sitte	Katia Balassiano	Carmona	Leo Hammond
	Claudio De	Ken Sterrett	Alexander R.	Maarten Hajer
	Magalhães	Leo Hammond	Cuthbert	Matthew
	Colin Buchanan	Malachy		Carmona
	Danielle Leahy	Mceldowney		Alexander R.
	Laughlin	Matthew		Cuthbert
	Danielle Leahy	Carmona Alexander R.		
	Laughlin Edward J. Blakely	Cuthbert		
	Francis Tibbalds	Laura C. Johnson		
	Frank Gaffikin	Danielle Leahy		
	Jack Ahern	Laughlin		
	Jack L Nasar	J		
	Jack L. Nasar			
	Jeff Speck			
	Katia Balassiano			
	Ken Sterrett			
	Laura C. Johnson			
	Laura C. Johnson			
	Leo Hammond			
	Mahyar Arefi Malachy			
	Malachy Mceldowney			
	iviceidowney			

	Matthew Carmona			
	Michael Batty			
	Peter M. Owens			
	Sidney N. Brower			
	Susan Handy			
Political theorist,	Alison Young	Hannah Arendt	Catherine R	Arnold Reijndorp
science and Politics	Amos Rapoport Bonnie Fisher	John R. Parkinson Alison Young	Squires Hannah Arendt	Maarten Hajer Nancy Fraser
Tonties	Claude Lefort	Alison roung	John R. Parkinson	Namey Traser
	Hannah Arendt		Linda M. G. Zerilli	
	John R. Parkinson		Molly Cochran	
	Michael C		Nancy Fraser	
	Dawson Mike Davis		Raf Geenens Ronald Tinnevelt	
	Raf Geenens		Ronald Tillievelt	
	Ronald Tinnevelt			
	Benjamin Barber			
Social sciences	Alison Young	John Clarke	Stewart Ranson	Stewart Ranson
	Karen Malone	Stewart Ranson		Richard Hil
	Richard Hil Stewart Ranson	Alison Young		
	Terance D.			
	Miethe			
Sociology	Beng Huat Chua	John Michael	Gemma Edwards	Arnold Reijndorp
	Chua Beng-Huat	Roberts	John Michael	Lewis Mumford
	Erving Goffman Fèlix Ortega	Lewis Mumford Lyn H. Lofland	Roberts Jürgen Habermas	Ray Oldenburg Richard Sennett
	Georg Simmel	Georg Simmel	Lewis Mumford	Peter M. Owens
	Ho Kong Chong	Laura C. Johnson	Michael E.	Judith Bessant
	John Michael		Gardiner	
	Roberts		Nelson A.	
	Lewis Mumford Marcel Mauss		Pichardo Nick Crossley	
	Margaret Kohn		Richard Sennett	
	Nathan Glazer		Stanley	
	Ray Oldenburg		Aronowitz	
	Richard Ling		William DiFazio	
	Richard Sennett Rob White		Georg Simmel	
	Rowland			
	Atkinson			
	Saskia Sassen			
	Sharon Zukin			
	Stanley			
	Aronowitz Terance D.			
	Miethe			
	Thomas T.W. Tan			
	Valerie LimNyuk			
	Eun William DiFazio			
	William DiFazio William H Whyte			
	Kevin Fitzpatrick			
	Mark LaGory			
	Peter M. Owens			
	Laura C. Johnson			
	Rob White Judith Bessant			
	Jaaren Dessant			
Urban planning,	Ali Madanipour	Anastasia	Anastasia	Anne Matan
urban design and	Allan Jacobs	Loukaitou-Sideris	Loukaitou-Sideris	George Varna
urban theorists	Anastasia Loukaitou-Sideris	Anne Matan Francis Tibbalds	George Varna Jan Gehl	John Friedmann Peter Marcuse
	Anne Matan	George Varna	Peter Marcuse	Steve Tiesdell
	Bart Verschaffel	Henry Shaftoe	Renia	Emily Talen
	CABE	Jan Gehl	Ehrenfeucht	

Writer Anna Minton Alison Westwood Howard Virginia Woolfe	Beauregard Roger Trancik Stephen Carr Steve Tiesdell Taner Oc Tim Heath Trevor Boddy Tribid Banerjee Vikas Mehta William Fulton Emily Talen Dolores Hayden Peter Caltorpe William H Whyte Lean Krier Peter Katz Andres Duany Elizabeth Plater- Zyberk Wakhidah Kurniawati Nicola Dempsey Michael Southworth Reid Ewing Yosef Rafeq Jabareen Richard Florida Marc Hochstein	
Rheingold McKenzie Wark	Howard Virginia Woolfe Rheingold	

Appendix 2

Methods, techniques and tools to assess public space typologies and typology of publics

Over 150 articles, books, reference publications and other sources were examined to develop a categorisation of 45 methods, techniques and tools used to assess landscapes and in particular public urban spaces over the last 60 years. All were empirical and analytical research methods, techniques and tools developed to assess design, planning and construction. The sources included literature reviews, policy comparisons, methodologies or approaches recommendations, studies drawing on original data involving surveys, interviews, observations or case studies.

The 150 sources reviewed constitute a small amount of studies published with an urban space emphasis. However common to all approaches is the ability of methods, techniques and tools to reduce detail into levels of importance and meaning to enable interpretation.

Appendix 2 expands on information presented in Chapter Six providing further details on individual methods.

Appendix 2.A expands on Table 6-1 and Table 6-4 to present the Researchers and Consultants practicing the 45 methods outlined in Chapter Six. The categorisation of disciplines below acknowledges the complexities the disciplines. The categorisation of disciplines demonstrates how the methods, tools and techniques are used in the same context and to acknowledge similarities. For instance Urban planning and Urban design use same methods.

The categorisation of authors below acknowledges a number of authors are cross disciplinary. Discipline categorisation below is related to the sources reviewed.

Appendix 2.B and Appendix 2.C presents a detailed overview Observation Methods and Interview Methods respectively outlining the strengths, Weakness, Challenges and Limitations, ability to distinguish between public space typologies and ability to distinguish between typologies of publics.

Appendix 2.A

Overview of assessment methods and disciplines, linked with researchers and consultants practicing those methods

The table below represents a diverse sample of disciplines rather than an attempt to be comprehensive. Authors highlighted represent different relationships, current, historical, new to the academic field and known luminaries. Reviewed texts are those which have been published in English language papers from 1960-2016 and represent a progression of knowledge. Authors who overlapped between disciplines are included in each discipline heading. Disciplines also relate to field papers were published in.

List excludes authors who have researched and assessed methods.

Appendix 2 Table 1: Overview of assessment methods and disciplines, linked with researchers and consultants practicing those methods

Methodological	Observation methods			Interview methods			Infrastructure methods	
Approach	Qualitative	Combined Qualitative/Quantitative	Quantitative	Qualitative	Combined Qualitative/Quantitative	Quantitative	Qualitative	Quantitative
	 Environmental Impact Assessments Field Notes Human Traces or Tracing Photo documentation Tracking and Shadowing Visual assessment 	Case studies Systematic Observation or Field Observation Test walks Walkability index Walking audit instruments	Behavioural methods Block environmental Inventory Counting, Pedestrian Flows and Staying Activities Desktop audits Figure ground mapping Place audits Post occupancy evaluations Site inventory Tracking	 Design Workshops Discussion Groups Interviews (unstructured) 	Interviews (structured) Self-Reporting (diaries/noting)	Interviews Questionnaires (online, in person, postal) Surveys (online or in person)	 Altered photos Computer Simulation Landscape Evaluation Scenic beauty estimation models Visual assessment 	 Environmental and walkability audits Pedestrian modelling Space syntax Urban design context analysis Smart places
Discipline	Consultants and Resear	rchers						
Anthropology	 Aldo Rossi Christopher Alexander Edward T. Hall Setha M Low 	Benjamin FraserEdward T. HallSetha M Low	• Setha M Low					
Architecture	 Bo Chen Camillo Sitte David L. Phillips M. Christine Boyer Michael Sorkin Oscar Newman Peter Bosselmann Philip Thiel Rem Koolhass Roger S. Ulrich Tawfiq M Abu-Ghazzeh Vikas Mehta William H. Lucy 	 Aldo Rossi Bo Chen Camillo Sitte Christopher Alexander David L. Phillips Denise Scott Brown M. Christine Boyer Michael Sorkin Mohammed Abdullah Eben Saleh Naciye Doratli Nil Pasaogullari Oscar Newman Peter Bosselmann Philip Thiel Robert Ventuir Saleh Al-Hathloul Steven Izenour Tawfiq M Abu-Ghazzeh William H. Lucy 	Bo Chen Camillo Sitte Christopher Alexander Denise Scott Brown M. Christine Boyer Michael Sorkin Oscar Newman Philip Thiel Robert Ventuir Steven Izenour Vikas Mehta	 Aldo van Eyck Bo Chen Oscar Newman Robert W. Marans 	 Belinda Yuen Bo Chen Oscar Newman Tawfiq M Abu-Ghazzeh Wong Nyuk Hien 	Jian Gea Kazunori Hokao Lale Berköz Naciye Doratli Nil Pasaogullari Oscar Newman Robert W. Marans Vedia Dökmeci	• Susan D. Rodiek	
Art	George Catlin Thomas Moran							
Behavioural Epidemiology, Public Health & Behavioural Health & Medicine	- momas iviolali		 Dr Alison Carver Dr Anna Timperio Dr Clare Hume Dr Jenny Veitch Dr Nick Andrianopoulos Prof Billie Giles-Corti 	 Dr Anna Timperio Dr Clare Hume Dr Nick Andrianopoulos Prof David Crawford Prof Jo Salmon Prof Kylie Ball 		 Dr Anna Timperio Dr Clare Hume Dr Nick Andrianopoulos Prof David Crawford Prof Jo Salmon Prof Kylie Ball 		

			Prof David Crawford					
			Prof Jo Salmon					
			Prof Kylie Ball					
Biology			• Ann P. Kinzig					Michael R. Thomas
			Chris A. Martina					
			• Lisa K. Harris					
			Paige S. Warren					
			William W. Shaw					
Biometeorology,		Robert G. Steadman						
Botany			• William H. Brewer					
Cartography	Christiane Weber	Christiane Weber	Christiane Weber					
	 Jacky Hirsch 	Jacky Hirsch	Jacky Hirsch					
Civil Engineering	• Dr. George L. Peterson							
Climatology	Filip Lefebre	Filip Lefebre	Filip Lefebre					
	Koen De Ridder	Koen De Ridder	Koen De Ridder					
	Martin Burger	Martin Burger	Martin Burger					
	Michael Bruse	Michael Bruse	Michael Bruse					
Criminology	• Emily Winston	• Emily Winston	Emily Winston					
	• Reid Ewing	Reid Ewing	Patricia I.					
	• Ross C. Brownson	• Ross C. Brownson	Brantingham					
	Susan Handy	Susan Handy	Paul J. Brantingham					
	,	•	Reid Ewing					
			Ross C. Brownson					
			Susan Handy					
Ecology		Roland Ennos	Aldo Leopold					
		Stephan Pauleit	• Sigurd F. Olson					
		Yvonne Golding	Sigura 1. Olson					
Economics		- Ivoline coloning				Cathal O'Donoghue		
Leonomies						Peter Howley		
						Stephen Hynes		
Education		a Inguino Figuraft				• Stephen Hynes		
Education		Ingunn FjørtoftJostein Sageie						
Engineering	 Alberto Bañuelos 	 Alberto Bañuelos 	 Alberto Bañuelos 			 Raymond De Young 	• Robert K. Smidt	
	• Barani Raman	Alessandro Toccolini	Barani Raman			Shawn Turner		
		Barani Raman	Robert K. Smidt					
		D. Damigos						
		D. Kaliampakos						
		Giulio Senes						
		Natalia Fumagalli						
Environmental	Vladimir Adamec	Vladimir Adamec	Vladimir Adamec					
Chemistry						a Anna Chiasa		
Environmental						Anna Chiesura		
management								
Environmental Planning						Bong Koo LeeDr. Scott Shafer		
Environmental	Charles Egerton	Barbara Brown	Barbara Brown	Vicky Cattell	Dr Rachel Kaplan	Dr Abraham	Dr Rachel Kaplan	Barbara Brown
Psychology,	Osgood	Charles Egerton Osgood	Charles Egerton	violity Cutteri	Dr Kacher Kaplan Dr Stephen Kaplan	Wandersman	Dr Kacher Kaplan Dr Stephen Kaplan	Salbara Brown
Community	Dr Rachel Kaplan	D.Mark Fentonb	Osgood		- Di Stephen Kapian	Dr Rachel Kaplan	• Frances E. Kuo	
Psychology,	George Suci	Dr Rachel Kaplan	Dr Rachel Kaplan			Dr Stephen Kaplan	• Tig Calvert	
Social	George Suci Goesta Ekman		Dr. Abraham			Florian G. Kaiser		
Psychology &		George Suci George Street					• Yoji Aoki	
Psychology &	• Leanne G Rivlin	Goesta Ekman Goesta Ekman	Wandersman			• Frances E. Kuo		
	Robert Sommer	• Leanne G Rivlin	George Suci			• John W Meeks		
	• Teodor Kuennapas	Robert Sommer	Goesta Ekman Goesta Ekman Goesta Ekman Goesta Ekman Goesta Ekman Goesta Ekman Goesta Ekman Goesta Ekman Goesta Ekman Goesta Ekman Goesta Ekman Goesta Ekman Goesta Ekman			Kalevi M. Korpela		
	• Terry C. Daniel	Sheridan Coakes	Jacinta Francis					

	• Yoji Aoki	Teodor Kuennapas Terry C. Daniel Vicky Cattell	 John W. Meeks Leanne G Rivlin Prof Douglas D. Perkins Ralph Taylor Robert Sommer Sandra A. Shermana Teodor Kuennapas Terry C. Daniel Vanessa L. Malcarne Vicky Cattell 			 Prof Douglas D. Perkins Ralph Taylor Terry C. Daniel Terry hartig Urs fuhrer Vicky Cattell 		
Environmental Science					Kazuo YabeMaureen E. Austin			
Epidemiology		David R. Ragland						David R. Ragland
Forestry					• R. Bruce Hull • R.W Coles • S.C Bussey	 Hirokazu Oku Hubert Gulinck James F Palmer Katsue Fukamachi Lisa Hörnsten Martin Hermy Pieter Roovers R.W Coles S.C Bussey 	Hirokazu OkuKatsue FukamachiKevin W. Larkin	
Gardening	• Sir Humphrey Repton		• Sir Humphrey Repton					
Geography	 Arnaud Piombini Don Mitchell Jay Appleton Jean-Christophe Foltête Kurt Iveson Neil Smith Roman Cybriwsky Ronald A. Davidson Susan Dakin Yi Fu Tuan 	 Arnaud Piombini C.Y. Jim Christopher A. De Sousa Christopher A. De Sousa Don Mitchell G.D. Daniels J.B. Kirkpatrick Jay Appleton Jean-Christophe Foltête Joan M. Welch Kurt Iveson 	 Arnaud Piombini C.Y. Jim, Don Mitchell Fariba Sotoudehnia Jay Appleton Jean-Christophe Foltête Kurt Iveson Lex Comber Neil Smith Nick Dines Roman Cybriwsky 	 C.Y. Jim Fariba Sotoudehnia Kurt Iveson Lex Comber Nick Dines Ronald A. Davidson Sarah Curtis Shivanand Balrama Sophia S. Chen Susan Dakin Suzana Dragićević Wil Gesler 	 C.Y. Jim Christopher A. De Sousa Fariba Sotoudehnia Felix Kienast Kurt Iveson Lex Comber Marcel Hunziker Matthias Buchecker Shivanand Balrama Sophia S. Chen Suzana Dragićević Yi Fu Tuan 	 C.Y. Jim Christopher A. De Sousa Fariba Sotoudehnia Lex Comber Nick Dines Ronald A. Davidson Sarah Curtis Shivanand Balrama Sophia S. Chen Susan Dakin Suzana Dragićević 	 Aldo Leopold Andrew W. Gilg Dov Nir Mark Blacksell R. Burton Litton Jr. Roger S. Crofts Susan Dakin Władysław Niewiarowski 	

	 Marisa T.M. Frischenbruder Michael Pacione Neil Smith Nick Dines Roman Cybriwsky Sarah Curtis Shivanand Balram Sophia S. Chen Suzana Dragićević Torsten Wiedemann Wil Gesler William D. Solecki Yi Fu Tuan 	 Ronald A. Davidson Sarah Curtis Thomas Schweizer Wendy Y. Chen Wil Gesler Yi Fu Tuan 	• Yi Fu Tuan		• Wil Gesler • Yi Fu Tuan		
Geology		Clarence E Dutton				Marie Morisawa	
Health Sciences	Billie Giles-Corti Jacinta Francis Lisa J. Wood Matthew Knuiman	Billie Giles-Corti Jacinta Francis Lisa J. Wood Matthew Knuiman		Billie Giles-Corti Jacinta Francis Lisa J. Wood Matthew Knuiman		William Morris Davis	
◆ Kiat W. Tan	Ochieng A. Adimob	Ochieng A. Adimob	Ochieng A. Adimob	Ochieng A. Adimob			
Architecture • Alan James Simson • Ann Forsyth • Anne Whiston Spirn • Catherine Dung • Cecelia Paine • Clare C. Marcus • Ervin H. Zube • Fiona Harrison • Gary R. Clay • Ian McHarg • James Corner • James Taylor • Jody Rosenblatt Naderi • John Brinckerhoff Jackson • John FitZGibbon • Justin Jacobson • Katie Thering • Ken Studtmann • Kym M. Jones • Lance M. Neckar • Michael Southworth • Peter Walker • Randolph Hester • Richard Haag • Rodney H. Matsuoka • Susan Herrington • Trudy Schmidt • Zhiyi Bao	 Moura Quayle Patsy Eubanks Owens Paulo R.M. Pellegrino 	 Ann Forsyth Anne Whiston Spirn Byoung-Suk Kweon Carolyn Francis Catherine Dung Christopher D. Ellis Christopher Tunnard Clare Cooper Marcus Ervin H. Zube Gary R. Clay lan McHarg Jack Ahern James Corner James W. Varnib Jody Rosenblatt Naderi John Brinckerhoff Jackson Margaret Livingston Maurice Nelischer Nathan H. Perkins Peter Walker Randolph Hester Richard Haag Rodney H. Matsuoka Roger S. Ulrich Samuel D. Brodya Sang-Woo Lee1 Scott P.B. Henderson Trudy Schmidt Wes Highfield Zhiyi Bao 	 Ann Forsyth Clare Cooper Marcus James Corner John Brinckerhoff Jackson Justin Jacobson Katie Thering Peter Walker Randolph Hester Richard Haag Zhiyi Bao 	 Clare Cooper Marcus Dicle Oguz Keisuke Yoshida Kym M. Jones Patsy Eubanks Owens Randolph Hester Richard Haag Rodney H. Matsuoka Shoichiro Asakawaa Trudy Schmidt Zhiyi Bao 	 Byoung-Suk Kweon Christopher D. Ellis Dr. Halil Özgüner Gary R. Clay Gloria E. Helfand Joan I. Nassauer Joanne Westphal John Fitzsimonds John Schneeman Joon Sik Park Kym M. Jones Magdalena Bacaicoa Nathan H. Perkins Randolph Hester Richard Haag Rodney H. Matsuoka Ruth Yabes Samuel D. Brodya Sandra Kosek Sang-Woo Lee1 Steven K. Barnhart Terry Brown Trudy Schmidt Wes Highfield William Sullivan 	 Ann Forsyth Anna Jorgensen Assenna Todorova Brett Grimm Catherine Dung Chun-Yen Chang Denise E. Hands Gary R. Clay I-Chun Tang James Hitchmough Joanne Westphal Justin Jacobson Katie Thering Magdalena Bacaicoa Richard Haag Robert D. Brown Sampei Yamashita Shoichiro Asakawa Tetsuya Aikoh William C. Sullivan William P. Stewarta William Sullivan 	Catherine Dung

			T			T	T	
Landscape ecology						Thomas Crow		
Landscape						Anthony D. Kendle		
management						Richard Bisgrove		
Landscape		Friedrich Duhme						
Planning		Per G Berg						
Natural Resource management							Derek Liebertb Sarah Taylor Layell	
management							Sarah Taylor LovellWilliam C. Sullivan	
Other	Adelaide City	Active Living Research	ACAORN (Australian	Centre for Physical	Project for Public Space	Centre for Physical	British Columbia	Gehl Architects
(includes local	Council	Adelaide City Council	Child and Adolescent	Activity and Nutrition		Activity and Nutrition	Ministry of Forests	Project for Public
and state	 Centre for Physical 	Australian Government	Obesity Research	Research		Research	Centre for	Space
government departments,	Activity and Nutrition Research	Department of Health	Network)	Centre for Transportation Studies		Human-Environment Descared Laboratory	Transportation Studies	University of Western
research	Centre for	and Ageing ◆ Australian Local	Adelaide City CouncilAustralian and New	Transportation Studies • Department of City		Research Laboratory Intermethod	 Department of City and Regional Planning, 	Australia
institutions,	Transportation	Government Association	Zealand Obesity	and Regional Planning,		Project for Public	Cornell University	
practitioners)	Studies	Behavioural Risk Factor	Society	Cornell University		Space	 Federal Highway 	
	Department of City	Surveillance System	Centre for Physical	Federal Highway			Administration	
	and Regional Planning, Cornell	British Columbia Ministry of Forests	Activity and Nutrition Research	Administration • Independent Newham			Kristen DayLand Use Consultants	
	University	Ministry of Forests • Cancer Council	City of Melbourne	Users Forum			University of	
	 Federal Highway 	Centers for Disease	Department of City	NHS Confederation			Minnesota	
	Administration	Control and Prevention	and Regional	 Project for Public 			• USDA Forest Service	
	Gehl Architects	Gehl Architects	Planning, Cornell	Space				
	 Metropolitan Design Center 	Harvard Landscape Analytic styre Crown	University • Design Trust for	University of Minnesota				
	Taylor Cullity	Architecture Group Land Use Consultants	Public Spaces	Willinesota				
	Lethlean	National Heart	Gehl Architects					
	• Transport Research	Foundation of Australia	GSA Urban					
	Centre	Planning Institute of	Development Officers					
	 University of Minnesota 	Australia • Project for Public Space	IntermethodInternational Physical					
	Willinesota	South Australian Active	Activity and					
		Living Coalition	Environment Network					
		USDA Forest Service	(IPEN)					
		Walk Score	 International Society for Behavioral 					
			Nutrition and Physical					
			Activity					
			Kristen Day					
			Los Angeles County Discale Coulities					
			Bicycle Coalition • Project for Public					
			Space					
			Taylor Cullity Lethlean					
			• The Nutrition Society					
			Transport for London Transport for London					
			U.S. General Service Administration					
			Urban Imprint					
			Van Alen Institute					
Philosophy			Henry David Thoreau					
Placemaking			Dr Mariela Alfonzo					
Planning	• Alexander R.	Alexander R. Cuthbert	Alexander R. Cuthbert	Danielle Leahy Laughlin	Danielle Leahy Laughlin	Greg Lindsey	Andrew Lothian	
	Cuthbert	Danielle Leahy Laughlin	Boris Pushkarev	• Laura C. Johnson	• Jack L Nasar	Jack L Nasar	• J. R. Turner	
	Jack L Nasar Deter M. Owens	Eckart Langea Francisco Algain Haiba	Colin Buchanan Cras Linday		• Laura C. Johnson	Larissa Larsen Makata Vakabari		
	Peter M. Owens	Francisco Alaniz Uribe	Greg Lindsey		Lauren B Gates	Makoto Yokohari		

Political Science, political theorist, science and politics	• Bonnie S. Fisher	 Jack Ahern Jack L Nasar Larissa Larsen Laura C. Johnson Manfred Kühn Peter M. Owens Peter V. Schaeffe Susan Handy 	 Jack Ahern Jeffery M. Zupan Peter M. Owens Wendy Sarkissian Bonnie S. Fisher Mike Davis Prof Richard C Rich 		William M. Rohe Bonnie S. Fisher	 Mamoru Amemiya Marco Amati Bonnie S. Fisher Prof Richard C Rich 		
Psychiatry				• Stefan Priebe				
Public Health		• Lindsay S. Arnold	Billie Giles-Corti Lisa Wood Matthew Knuiman					• Lindsay S. Arnold
Social Science		Ann Van Herzele	•	 David N. Bengsten Paul H Gobster Susan I. Stewart	David N. BengstenPaul H GobsterSusan I. Stewart			
Sociology	 Erving Goffman Kevin Fitzpatrick Lewis Mumford Mark LaGory Ray Oldenburg Sharon Zukin William H. Whyte 	 Erving Goffman Kevin Fitzpatrick Lewis Mumford Mark LaGory Peter M. Owens Ray Oldenburg Sharon L. Harlan Sharon Zukin William H. Whyte 	 Erving Goffman Kevin Fitzpatrick Lewis Mumford Mark LaGory Ray Oldenburg Sharon Zukin William H. Whyte 	 Kevin Fitzpatrick Laura C. Johnson Lewis Mumford Mark LaGory Ray Oldenburg 	 Kevin Fitzpatrick Laura C. Johnson Lewis Mumford Mark LaGory Ray Oldenburg 	 Cheryl Bedenbaugh Kevin Fitzpatrick Lewis Mumford Mark LaGory Ray Oldenburg Sharon L. Harlan 		
Tourism	Shu-Chun Lucy Huang	Shu-Chun Lucy Huang	Shu-Chun Lucy Huang	Christine A. Vogt		Christine A. Vogt Peter Fredman		
Town Planning Transportation	Annette Thierry Ole Damsgaard Otto Clements	Annette Thierry Ole Damsgaard	Annette Thierry Ole Damsgaard Otto Clements					
planning Urban Design and Urban Planning	 Otto Clemente Allan Jacobs Ann Forsyth Donald Appleyard Donald Appleyard Emily Talen Gordon Cullen Jan Gehl Jane Jacobs John R. Myer Kevin Lynch Wakhidah Kurniawati 	Otto Clemente Donald Appleyard Emily Talen Gordon Cullen Jan Gehl Jane Jacobs K Al-Kodmany Muhammad Aslam Mughal Wakhidah Kurniawati Michael Southworth Reid Ewing Robert Schneider	Otto Clemente Donald Appleyard Emily Talen Jan Gehl K Al-Kodmany Marlon Boarnet Wakhidah Kurniawati	Donald Appleyard John R. Myer K Al-Kodmany Kevin Lynch	Donald Appleyard	Donald Appleyard Wakhidah Kurniawati	• K Al-Kodmany	Robert Schneider

Appendix 2.B

Detailed overview of observation methods

The following subsections present a detailed overview of observation methods outlined in Chapter Six subsection 6.1.1 Observation (Descriptive) Methods outlining the strengths, Weakness, Challenges and Limitations, ability to distinguish between public space typologies and ability to distinguish between typologies of publics.

The Observation methods detailed below represent methods applicable for assessing uses and appreciation of urban public space within Landscape Architecture and not a comprehensive list of all observation methods.

Observation methods – qualitative

Field Notes	Assessment	Assess	ment us	ers		Data		Conce	ots meas	sured															
Also known as	approach					collect	ed																		
Systematic observation and Field Observation	riptive inventory Expert I c preference approach	approach Governments (local, state, federal)	Researchers	Designers/practice	community	Subjective	Objective	Access	Residential grain/neighbourhood	Size (scale, human scale)	Transport environment (quality and quantity)	Ecological structures	Morphologically	Historical interpretation	Land use	Views	Amenities	Public life (types of active use)	Landscape characteristics	Architectural characteristics	Safety	People	imageability	enclosure	transparency
	x x x		х	х		х	х	х		х	х		х		х	х	Х	х	Х	х	х	х	Х	Х	х
Description	Field Notes (or keepi	ng a diary)	allows re	eal time an	d syste	matic qu	alitative	supplem	nentary i	nformat	ion to be	gathere	d and ca	n assist	in explair	ning qua	ntitative	data gat	hered.						
Aim	Field Notes (or keeping a diary) allows real time and systematic qualitative supplementary information to be gathered and can assist in explaining quantitative data gathered. Notation of details, nuances and non-visual elements which cannot be mapped, counted or photographed increase knowledge of how public spaces are used.																								
Method																hs.									
Strengths	Provides an over	<u> </u>										p. 000.0.								,	,	,	р		
01.01.81.10	Collects non-visu	-							-	-	_	ovemen	and act	ual mo	vement th	rough a	snace):	and taste	(Shafto	e 2008)					
Weakness,	May not corresp						CACATAT	quantics	, 1110 (C11	iciic (icc	6 01 111	overnen.	t arra acc	uui IIIO	verneric tr	поавіта	space,	ana taste	(Silaito	c, 2000 ₁					
Challenges and	 Subject to report 			сэ схрстст	100 01 3	pacc																			
Limitations	 Accuracy of stud 	_		how tho n	articina	nts undo	rctand th	no tacks																	
Limitations	•			•	•																				
	Miscommunicat					-																			
	Detailed explana																								
Implications for	Field notes have wide	•		•				•	•		•	•			_							•	_	_	
landscape	comparative sites du	• .	_					•			_	•	•		•					•	•			•	
architects	landscape architectu			_								•			•				-	•				-	
	instance PPS and Gel	il Architec	ts simplif	ied their m	nethods	after nu	merous	trials to	address	the issue	of incori	rect inte	rpretatio	ons. The	eir method	ds includ	le check	lists with	simple	English t	o enable	participa	ants of a	ny age to	take
	part in studies.																		11.00						–
Ability to	The tools and technic	-						between	typolog	ies of pu	blics. The	distinct	ion is rel	lated to	manual c	bservat	ions wh	ich look t	or differ	ences in	patterns	of use r	o matte	r how bri	iet. The
distinguish	distinction is subject			dgements																					
typology of	The Defined Public	Yes	5		Т	he Appro	opriating	g Public	Yes			The	e Transito	ory Pub	olic	Yes			The	Illegitim	ate Publi	c Y	es		
publics									1																
Ability to	The tools and technic	lues used	in Field N			clear dist	tinction l	between																	
distinguish public	Parks & Gardens	Yes		Stree			Yes			Plazas &	Squares	Yes	;		Wate	rfronts		Yes		C	commerci	al Space	s Yes		
space typologies				Prom	enades	5																			

Human Traces or Tracing	Assessment approach		Assessi	ment users		Data collect	tad	Conce	ots measured															
ITACIIIg	Descriptive inventory Expert panel Public preference approach	Descriptive inventory - Design approach	Governments (local, state, federal)	Researchers	Designers/practice	Subjective	Objective	Access	Residential grain/neighbourhood Size (scale, human scale)	Transport environment (quality and quantity)	Ecological structures	Morphologically	Historical interpretation	Land use	Views	Amenities	Public life (types of active use)	Landscape characteristics	Architectural characteristics	Safety	People	imageability	enclosure	transparency
	х	х		х	х	х		х		х							х				х			
Description	Human Traces		g provid	e informati	on regarding	how diffe	rent type	es of space	es are used in	particular v	ways. Tr	aces inc	lude desi	re paths	through	n grass w	hich indi	cate shor	t cuts,	signs of g	raffiti an	d litter,	areas of	neglect
Aim	or illegitimate u To determine m		t nottor	ns hoforo s	ommonoina.	docian dov	·olonmon	+ ovelen	o how poople	rolata amai	ionally	ta thair	nhysical s		المحد طاء	tormino	the dear	oo to whi	ich tha	nhysical .	onvirann	ant off	acts their	
Aim	behaviour and		•		_	-	•		e now people	relate emo	lionally	to their	pnysicais	surround	iings, ae	termine	tne degre	ee to wn	ich the	pnysicai	environn	ient and	ects their	
Method	Human activity								above or outsi	de. Traces a	are colle	cted by	mapping	lines of	movem	ent onto	a plan dı	uring a sr	ecific t	imeframe	2.			
Strengths Weakness,	Provides aProvides aCan be und	clear pic	ture of le	ess trafficke		te lines of	flow																	
Challenges and Limitations	Tracing is nDifficult to			er of peopl	e																			
Implications for landscape architects	Implications for site. Successful including syster	use of H	uman Tr	aces or Tra	cing to inforr	n private į			-					_	-	-	-	-	_	_	_			
Ability to	Review of Hum			-		•					•					al observ	ation, wh	nich look	s for dif	fferences	in patte	rns of us	se. The	
distinguish	challenge is to e		•	changes an	d events are	observed	and the	assessor	does not place	personal s	ubjectiv	e stered	otypes ove	er obser	vations									
typology of publics	Tracing – No Pu		Yes			The Appr	opriating	Public	Yes		The	e Transi	tory Publi	C	Yes			The II	legitim	ate Publi	c Y	es		
	Tracing – Birds	Eve																						
	The Defined Pu	-	Yes			The Appr	opriating	Public	Yes		The	e Transi	tory Publi	С	Yes			The II	legitim	ate Publi	c Y	es		
Ability to	Site specific. No	o distinct	ion betw	veen public	space typolo	gies.			1															
distinguish public space typologies	Parks & Garden	ns N	lo	-	Streets & Promenad	es	No		Plazas	& Squares	No			Wate	rfronts		No		C	Commerc	ial Space	s No		

Photo Documentation Also known as	Assessi approa			Assess	ment us	ers		Data collect	ed	Conce	pts mea	sured				1					ı				1		
Photo Tracking	Descriptive inventory Expert panel	Public preference approach	Descriptive inventory - Design approach	Governments (local, state, federal)	Researchers	Designers/practice	community	Subjective	Objective	Access	Residential grain/neighbourhood	Size (scale, human scale)	Transport environment (quality and quantity)	Ecological structures	Morphologically	Historical interpretation	Land use	Views	Amenities	Public life (types of active use)	Landscape characteristics	Architectural characteristics	Safety	People	imageability	enclosure	transparency
	Х	Х	х	Х	Х	х	X		Х	Х	Х	х	X		Х	х	х		Х	х	Х	х		х			
Description	Photo Documentation is typically used to document situations, interactions, the character of a public space to aid communication and analysis at a later date. Map patterns of use of a select user group in a select public space typology to document life and conditions. Photos are taken at eye level over a set time period, with (manual) or birds-eye without (time-lapse) the observer present.																										
Aim						•			<i>.</i>																		
Method			-							-			-														
Strengths						-						or rates	and the ab	ollity to i	repeat												
								/er/revie	w new c	onnectio	ons																
144		•					e and spa																				
Weakness,		_		_	ida of sti	idy and	what info	rmation	is collec	ted																	
Challenges and		ntic glimp																									
Limitations					-		_	nnson, 20	11)																		
		pact of w			•	chweizei	r, 2005)																				
		n be an ii		-	-																						
		ne intens			•																						
Implications for	_		-		-	assist in	redesign	, auditing	g, mainte	enance a	nd mana	agemen	t of built la	ndscape	es and ca	in assist	in desig	n and pla	nning wi	nen com	bined w	ith other	r method	ls outline	ed in thi	s study in	cluding
landscape		udies and														1 . 1		٠.					,				
architects		-				-	-				-		cape archi			e wnich i	use a ra	nge of te	cnniques	, toois ai	na meth	ods. The	successi	rui pnoto	o aocum	entation	
A bilibu da		•											place audi														
Ability to distinguish						IDIICS IS S					_	undert	aking data								1			1			
_	The De	fined Pul	olic	Yes				The Appro	opriating	g Public	Yes			The	Transit	ory Publi	ic	Yes			The	Illegitima	ate Public	C Y	es		
typology of publics																											
Ability to	Site cod	ocific Em	nhacic ic	on the	cituatio	denicto	ad and no	ot the doc	ian ther	ofore th	a metho	d is able	to disting	uich hot	ween tw	nologies											
distinguish public		Garden:			Situation			ine ues		cioie ili					-	Pologies		orfronts		Voc			ommor-	al Coass	s Vss		
space typologies	Parks &	Garden	S Y	es			eets & omenade:	•	Yes			Piazas 8	Squares	Yes	1		vvate	erfronts		Yes			ommerci	ai Space	s Yes		
space typologies						PIC	menaue	•																			

Tracking and	Assessment Assessment users	Data Co	oncepts measured			
Shadowing	approach	collected				
	Descriptive inventory Expert panel Public preference approach approach Governments (local, state, federal) Researchers Designers/practice community	Subjective Objective	Residential grain/neighbourhood Size (scale, human scale) Transport environment (quality and quantity)	Ecological structures Morphologically Historical interpretation		Landscape characteristics Architectural characteristics Safety People imageability enclosure transparency
	x x x	X	X		X X	X X
Description				_		along a route. Activities range from stopping and sitting
	to subtle acts such as turning your head and changing landscape architectural firms recommended this techn			This method is used widely in	n environmental psychology and	political science. William H Whyte and many
Aim	Determine how people move through a space, what the	•		ut the nublic knowing		
Method	There are a number of different techniques dependan	•			nd shadowing observation. All te	echniques are undertaken in the field.
Strengths	Stationary Observation involves discreetly watching pages of GPS method of tracking involves uploading data into goinclusion of data about physical features. GIS is seen at Use of surveyors to manually track/count participation.	tterns of movement and eographic information so a monitoring tool in te	d recording their movements u ystem (GIS), where it is combir rms of mapping usage factors a	indertaken manually or throu ned and layered with a geogra	igh time lapse photography. aphical map to enable productio	n of visual representations for analysis. GIS allows for
Strengths	 Manual tracking can add additional information st Information gathered by GPS tools are more preci 	ch as why, how, who, w	eather conditions and events		y area which may be effect the s	study areas use.
Weakness,	Use of surveyors to manually track/count participations	nts reduces accuracy				
Challenges and	 high associated costs in time and materials 					
Limitations	- · · · · · · · · · · · · · · · · · · ·	now they are followed.	Therefore studies in which pe	ople are asked to undertake r	routine behaviour may not depic	ct actual perceptions, activities or characteristics which
	would normally take place.	data basassa af		dana an arama da dara		
	GPS devices require direct line of sight between re-				If direct lines of sight are not as	hieved results become inconsistent or unreadable.
	Age and capability of GPS devices limits amount o		tenites at an times which can t	de impracticar in urban areas.	in unect lines of signt are not ac	inleved results become inconsistent of unreadable.
	Battery life of GPS devices limits length of data co					
	GPS units requires training or instruction before u					
Implications for	Many studies use the method of tracking or shadowing		cations of tracking or shadowir	ng for landscape architects are	e related to the objective of the	study undertaken and what information is collected.
landscape	Tracking or shadowing has the potential to shape rede	ign, auditing and mana	gement of built landscapes and	d can assist in design and plar	nning when combined with othe	r methods outlined in this study including case studies
architects	and behavioural mapping.					
Ability to	Review of methods, tools and techniques used as part	of Tracking or Shadowir	ng indicated only Stationary Ob	servation can provide clear d	listinction between typologies of	f publics. Other tools and techniques rely on selected
distinguish	participants, aware of their involvement.					
typology of publics	Tracking Shadowing					
publics	ShadowingGPS					
	The Defined Public Yes	The Appropriating Pul	blic No	The Transitory Public	No	The Illegitimate Public No
	Stationary Observations – manual	<u> </u>				I
	Stationary Observations – time lapse photography The Defined Dublic Vec	The American Co.	alia Vas	The Terrettee D. 1.0	Voc	The Illegities at a Dublic V
	The Defined Public Yes	The Appropriating Pul	blic Yes	The Transitory Public	Yes	The Illegitimate Public Yes
Ability to	Site specific. No distinction between public space typo					
distinguish public space typologies	Parks & Gardens No Streets & Promena	No	Plazas & Squares	No W	Vaterfronts No	Commercial Spaces No
	. remend					

Visual Assessment Assessment users Data Concepts measured															
Assessment approach collected															
Community Comm	 Public life (types of active use) Landscape characteristics Architectural characteristics Safety People imageability enclosure transparency 														
Description Visual assessments (visual quality, scenic beauty) are comparative assessment approaches which combine descriptive methods and preference methods. Visual assessment approaches which combine descriptive methods and preference methods.	l assessments directly address the users and encourage their														
and scenic quality (Aoki 1999; Dakin 2003). Visual assessments have been credited to Kevin Lynch originating from his 1960 work entitled 'The Image of the City' emphasised the visual landscape quality and its effects on users. From the 20th Century used in environmental management and policies and became a scientific Yılmaz, 2011; Kıvanç Ak 2013). Assessment findings are a result of an observer's perceptual, cognitive, emotional process in interaction with apparent (visible) lar landscapes has been regard by many authors as the hardest phenomenon that can be analysed and measured in an Environment (e.g. Daniel, 2001; Kalın, 2004; Image of the City' emphasized in an Environment (e.g. Daniel, 2001; Kalın, 2004; Image of the City' emphasized in environmental management and policies and became a scientific yılmaz, 2011; Kıvanç Ak 2013). Assessment findings are a result of an observer's perceptual, cognitive, emotional process in interaction with apparent (visible) lar	Wiltshire, 2001; Lothian, 2012; Kıvanç Ak 2013). The judgements or ratings are a combination of physical and cognitive measures correlated to provide a foundation of predictive models for estimating landscape preferences and scenic quality (Aoki 1999; Dakin 2003). Visual assessments have been credited to Kevin Lynch originating from his 1960 work entitled 'The Image of the City' (Kıvanç Ak 2013) which looked at the city in a systemic way and emphasised the visual landscape quality and its effects on users. From the 20th Century used in environmental management and policies and became a scientific research area with its important literature (Özhancı and Yılmaz, 2011; Kıvanç Ak 2013). Assessment findings are a result of an observer's perceptual, cognitive, emotional process in interaction with apparent (visible) landscape characteristics (Daniel, 2001). Thus visual quality of landscapes has been regard by many authors as the hardest phenomenon that can be analysed and measured in an Environment (e.g. Daniel, 2001; Kalın, 2004; Kıvanç Ak 2013). Assess the economic and aesthetic nature of landscapes in visual descriptive terms. Visual assessment is a matrix based assessment using qualitative data to determine quantitative results. Focus is on the visual aesthetic character of a landscape and built form and subsequent perceptions and experiences. Assessment methodologies including inventory analysis differ depending on objective of the study (planning, design and management) (Palmer and Hoffmann, 2000). Current Visual assessment methods combine														
	Visual assessment is a matrix based assessment using qualitative data to determine quantitative results. Focus is on the visual aesthetic character of a landscape and built form and subsequent perceptions and experiences.														
photography, digital drawings and computer aided programs to create visualisations. The method involves development of a checklist or matrix to distinguish be undertaken by assigning values to each element. Because of data collections being participatory many researchers recommend using a combined method (Forsyt Projects in Australia are examining cultural and characteristics of places as part of Visual assessment. The use of geographic information systems (GIS) to assess visual landscape variables has been shown to be reproducible (Bishop and Hulse, 1994, Balram & I public preference and not descriptive outcomes.	Visual assessment is a matrix based assessment using qualitative data to determine quantitative results. Focus is on the visual aesthetic character of a landscape and built form and subsequent perceptions and experiences. Assessment methodologies including inventory analysis differ depending on objective of the study (planning, design and management) (Palmer and Hoffmann, 2000). Current Visual assessment methods combine photography, digital drawings and computer aided programs to create visualisations. The method involves development of a checklist or matrix to distinguish between key elements of the study area. Assessments are undertaken by assigning values to each element. Because of data collections being participatory many researchers recommend using a combined method (Forsyth et al. 2008, 2010; Kıvanç Ak 2013). Projects in Australia are examining cultural and characteristics of places as part of Visual assessment. The use of geographic information systems (GIS) to assess visual landscape variables has been shown to be reproducible (Bishop and Hulse, 1994, Balram & Dragićević 2005) for studies which measures attitudes and														
 differentiate between proposals and supposed visual impacts for context sensitive solutions 															
 Weakness, Challenges and Limitations Meakness, Challenges and Limitations Meakness, Challenges and Limitations Meakness, Challenges and Limitations Limitations are the same for disciplines such as expert resource managers, ecologists, geographers, environmental experts, psychologists in research and aca expert witness cases Images miss the site characteristics of smell and noise. Labs are used to avoid any disturbance but in reality natural setting are full of disruptions Black and white images are used to avoid colour influence but may lack in the fine grain detail provided by colour Peripheral information/prior information bears on valuation and comparisons Evaluations don't reference activities Results are based on photograph selection and the process of creating images is time-consuming Rating have clear limitation resulting from the absence of motivations. historical and cultural contexts included in analyse of the data. 															
I VICTORIAL INTERPRETARIOR IN THE PROPERTY OF	sessment within design auditing planning administration or														
Implications for landscape architects are related to the selected role the assessment. Findings have the potential to shape daily life, physical planning and design works when used within planning, design, auditing and management prachitects implications of visual assessment if they are for information only (expert witness, administration or management). Successful visual assessments which inform prachitecture are those which place equal weighting on public and expert opinions.	private practice and advance the discipline of landscape														
Implications for landscape architects are related to the selected role the assertant methods varying and range of criticisms, the resulting implications for landscape architects are related to the selected role the assertant management. Findings have the potential to shape daily life, physical planning and design works when used within planning, design, auditing and management proposed implications of visual assessment if they are for information only (expert witness, administration or management). Successful visual assessments which inform proposed architecture are those which place equal weighting on public and expert opinions. Ability to Study specific. The focus on perception means the methods do not provide clear distinction between typologies of publics. The missing distinction is related to visual assessment methods varying and range of criticisms, the resulting implications for landscape architects are related to the selected role the assertant methods are related to the selected role the assertant planning and design works when used within planning, design, auditing and management proposed implications of visual assessments which inform proposed in the proposed in the selected role the assertant planning and design works when used within planning, design, auditing and management proposed in the proposed in the selected role the assertant planning and design works when used within planning, design, auditing and management proposed in the proposed in the selected role that are related to the selected role the assertant planning and design works when used within planning, design, auditing and management proposed in the selected role that are related to the selected role that are related to the selected role that are related to the selected role that are related to the selected role that are related to the selected role that are related to the selected role that are related to the selected role that are related to the selected role that are related to the selected role that are related to the selected rol	private practice and advance the discipline of landscape														
Implications for landscape architects are related to the selected role the assertion management. Findings have the potential to shape daily life, physical planning and design works when used within planning, design, auditing and management productions of visual assessment if they are for information only (expert witness, administration or management). Successful visual assessments which inform productions are those which place equal weighting on public and expert opinions. Ability to distinguish Because of Visual assessment methods varying and range of criticisms, the resulting implications for landscape architects are related to the selected role the assertion management. Findings have the potential to shape daily life, physical planning and design works when used within planning, design, auditing and management production in the production of management). Successful visual assessments which inform production architecture are those which place equal weighting on public and expert opinions. Study specific. The focus on perception means the methods do not provide clear distinction between typologies of publics. The missing distinction is related to visual assessor or a selected group of public users where the landscape is valued in its viewform (e.g. Unwin, 1975) not as an object.	private practice and advance the discipline of landscape visual assessment based on judgements from an individual														
Implications for landscape architects are related to the selected role the assessment. Findings have the potential to shape daily life, physical planning and design works when used within planning, design, auditing and management productions of visual assessment if they are for information only (expert witness, administration or management). Successful visual assessments which inform productions are those which place equal weighting on public and expert opinions. Ability to distinguish assessor or a selected group of public users where the landscape is valued in its viewform (e.g. Unwin, 1975) not as an object. The Defined Public Yes/No The Appropriating Public Yes/No The Transitory Public Yes/No	private practice and advance the discipline of landscape														
Implications for landscape architects are related to the selected role the assessment. Findings have the potential to shape daily life, physical planning and design works when used within planning, design, auditing and management proposed implications of visual assessment if they are for information only (expert witness, administration or management). Successful visual assessments which inform proposed implications of visual assessment if they are for information only (expert witness, administration or management). Successful visual assessments which inform proposed implications of visual assessments which inform proposed implications of visual assessments which inform proposed implications of visual assessments which inform proposed implications of visual assessments which inform proposed implications of visual assessments which inform proposed implications of visual assessments which inform proposed implications of visual assessments which inform proposed implications of visual assessment within planning, design, auditing and management proposed implications of visual assessments which inform proposed implications of visual assessments which inform proposed implications of visual assessments which inform proposed implications of visual assessments which inform proposed implications of visual assessments which inform proposed implications of visual assessment if they are for information only (expert witness, administration or management). Successful visual assessments which inform proposed implications of visual assessment if they are for information only (expert witness, administration or management). Successful visual assessments which inform proposed implications of visual assessments which inform proposed implications of visual assessments which inform proposed implications of visual assessments which inform proposed implications of visual assessments which information only (expert witness, administration or management). Successful visual assessments which information on visual assessments which informatio	private practice and advance the discipline of landscape visual assessment based on judgements from an individual														
Implications for landscape architects are related to the selected role the assessment. Findings have the potential to shape daily life, physical planning and design works when used within planning, design, auditing and management productions of visual assessment if they are for information only (expert witness, administration or management). Successful visual assessments which inform productions of visual assessment if they are for information only (expert witness, administration or management). Successful visual assessments which inform productions architecture are those which place equal weighting on public and expert opinions. Study specific. The focus on perception means the methods do not provide clear distinction between typologies of publics. The missing distinction is related to visual assessor or a selected group of public users where the landscape is valued in its viewform (e.g. Unwin, 1975) not as an object. The Defined Public Yes/No The Appropriating Public Yes/No The Transitory Public Yes/No Site specific. No distinction between public space typologies.	private practice and advance the discipline of landscape visual assessment based on judgements from an individual														

Observation methods - combined qualitative and quantitative

Case Studies	Assessi approa			Assess	ment us	ers		Data collect	ted	Conce	ots mea	sured															
	Descriptive inventory Expert panel	Public preference approach	Descriptive inventory - Design approach	Governments (local, state, federal)	Researchers	Designers/practice	community	Subjective	Objective	Access	Residential grain/neighbourhood	Size (scale, human scale)	Transport environment (quality and quantity)	Ecological structures	Morphologically	Historical interpretation	Land use	Views	Amenities	Public life (types of active use)	Landscape characteristics	Architectural characteristics	Safety	People	imageability	enclosure	transparency
	х		Х	х	х	х	х	х	х	х	Х	х	х	Х	х	х	Х	х	Х	х	Х	х	х	х	Х	х	х
Aim Method	While noted as similar assessment methods since Fredric Law Olmsted works these studies are now commonly referred to as case studies which allow for communication between practitioners and the general public. As stated by Francis (2001) case studies are appropriate and effective form of analysis for landscape architecture as they allowed for description, evaluation and prediction of use and design. Private practice and academic studies have contributed to knowledge base for Landscape Architects, influenced development and assisted in promotion of the discipline. Seminal examples are numerous and include the well-known case study strategy of Gehl Architects 'public space public life studies' undertaken as part of their consultancy projects internationally. Their studies focus the big picture primarily walkability and urban design for pedestrians. Refer table Aim varies depending on the objective of the case study. Method of case studies varies depending on site and discipline. • Adaptability																										
Strengths	• Ad	laptabili	ty						ture urb	an nlann	ing urh	an desigr	ı law bu	siness	medicin	e engine	ering	sociology,	econom	ics geog	ranhy ar	nd nsvch	ology				
Weakness,		laptabili		een mar	inpic disc	ipiiires ii	.c.aag	ai cinicco	tare, are	arr prarrir	6, αι δ	an acsig.	.,,	3111033)	mearem	e, engine		300.0.0847		103, 5005	apiiy ai	та роуст	0.067.				
Challenges and			•	nd critic	al analysi	S																					
Limitations	• Mi	inimal pe	eer revie	ew	•																						
	• Ab	sent or	minimal	systema	itic meth	odology	(Francis	2001).																			
	• Lin	nitation	of speci	fic study	timefrar	nes (era))																				
		ard geo																									
			•					•	osi 2004).																		
Implications for																		resulting									
landscape		•			•				•	_	•			•	_		_	comparati		_	•	_		•	-		
architects			-	-				-		-			dits and o		_	ecnnique	es, toois	s and meth	10as. In	e success	itui case	studies	typically	combine	a two	or more n	netnoas
Ability to					•							-				and dackt	ton aud	dits which	ook for	differenc	oc in nat	ttorns of	iusa no i	natter he	w hria	f	
distinguish typology of publics		fined Pu		Yes		II DELWE			ropriatin			Telateu	.o manua			sitory Pub		Yes	OOK TOT	umerenc			nate Publ		es es	1.	
Ability to	Case st	udies ca	n provid	de clear (distinctio	n betwe	en public	space t	vpologie	s. The dis	stinction	is relate	d to man	ual oh	servation	ns and de	sktop a	audits which	ch look f	or differe	nces in	patterns	of use n	o matter	how h	rief.	
distinguish public space typologies		& Garder		Yes		Str	eets &		Yes				Squares		es			aterfronts		Yes		-		cial Space			

Systematic Observation	Assessm	nent ap	proach	Assess	ment us	ers			Data collect	ed	Concep	ts meas	sured														
Also known as Field observation and Casual observation	Descriptive inventory Expert panel	Public preference approach	Descriptive inventory - Design approach	Governments (local, state, federal)	× Researchers	× Designers/practice	community	Subjective	× Objective	× Access	Residential grain/neighbourhood	× Size (scale, human scale)	Transport environment (quality and quantity)	× Ecological structures	× Morphologically	× Historical interpretation	× Land use	Views	× Amenities	Public life (types of active use)	× Landscape characteristics	× Architectural characteristics	× Safety	× People	imageability	× enclosure	× transparency
Description	. ^ .	Systematic observation allows real time and systematic qualitative supplementary information to be gathered and can assist in explaining quantitative data gathered. Systematic observation differs from Field Notes as Systematic observation is a combination of Qualitative and Quantitative research allowing statistical data to be collected and assessed to enable development of initial															^										
		Systematic observation allows real time and systematic qualitative supplementary information to be gathered and can assist in explaining quantitative data gathered.															tial										
Aim							•				nted to in			•	-	•			Casual O	Jacivatio	711.						
Method											s and first				•	•			ts should	he simn	le For in	stance F	PPS and i	Gehl Arch	nitects si	imnlified	their
Wicthou											heir meth													dem Arci	incects si	шршса	tiicii
Strengths									•		nce peopl			CKIISES W	ien simp	ic Englis	,,, to cite	abic part	icipants c	n uny ug	c to take	parem	<u>staales.</u>				
Strengths				•					-		s, moven		_	moveme	nt and a	ctual me	ovemen	t through	h a space)							
Weakness,							ence of s		, textura	quantic	.5, 1110 7 611		ciiig oi i	ovee	inc and a	ctual III.	<u> </u>	t till o agi	та зрасс	<i>)</i>							
Challenges and		•	•			-	participa	•	erstand	the task	5																
Limitations											at end of	studies	s. which	can resu	lt in erro	rs and s	ubiectiv	e iudgen	nents by	research	ers						
Implications for			•		_		_				e and sys											nas the p	otential	to shape	physica	l plannin	g and
landscape architects	-							•			d shape n		•			-			_					•		•	_
·	disciplin	e of lan	dscape a	architect	ure are	those wl	nich use a	a range (of techni	ques, to	ols and m	ethods	and hav	e a clear	defined	scope c	of assess	ment.									
Ability to distinguish	The too	ls and to	echnique	es used i	n the me	ethod of	Systema	tic obse	rvation c	an provi	de clear d	distincti	on betwe	een typo	logies of	f publics	. The dis	stinction	is related	l to man	ual obse	rvations	which lo	ook for d	ifference	es in patt	erns of
typology of publics	use no r	natter h	now brie	f.																							
	The Def	ined Pu	blic	Yes			Т	he Appı	opriatin	g Public	Yes			Th	e Transit	ory Pub	olic	Yes			The	Illegitim	ate Publ	ic Y	es		
Ability to distinguish	The tool	ls and to	echnique	es used i	n the me	ethod of	Systema	tic obse	rvation c	an provi	de clear d	distincti	on betwe	een pub	ic space	typolog	ies. The	distincti	on is rela	ted to m	anual ob	servatio	ns.				
public space	Parks &	Garden	s Y	es		Str	eets &		Yes	-	Р	lazas &	Squares	Ye	s		Wat	erfronts		Yes		С	ommerc	ial Space	es Yes		
typologies						Pro	menades	5																-			

Field Observations	Assess	ment ap	proach	Assess	ment use	ers		Data collect	ed	Concep	ots meas	ured	1			1					I				ı		
Also known as Casual Observation and systematic observation	Descriptive inventory Expert panel	Public preference approach	Descriptive inventory - Design approach	Governments (local, state, federal)	Researchers	Designers/practice	community	Subjective	Objective	Access	Residential grain/neighbourhood	Size (scale, human scale)	Transport environment (quality and quantity)	Ecological structures	Morphologically	Historical interpretation	Land use	Views	Amenities	Public life (types of active use)	Landscape characteristics	Architectural characteristics	Safety	People	imageability	enclosure	transparency
	х		х	х	х	х	Х		х	х	х	х	х	х	Х	х	х	х	х	х	х	х	х	х		Х	Х
Description	Field o	bservatio	n has m	any simi	larities to	system	atic obs	ervation.	Field ob	servatio	n allows	real tim	e and qua	alitativ	e supplem	entary	informati	on to be	gathered	d and ca	n assist	in explaiı	ning qua	ntitative	data gat	hered.	
Aim	Collect	details,	nuances	and non	-visual el	ements	which c	annot be	mapped	d, counte	d or pho	tograph	ned to inc	rease k	nowledge	of how	public sp	oaces are	e used.								
Method	Subject	tive chec	klists ba	sed on a	ppreciation	on of the	e physic	al elemer	nts and f	irst impr	essions.																
Strengths	• Pr	ovides ar	n overvie	w of pub	olic life ar	nd subtle	brief a	ctivities v	vhich oc	cur, for i	nstance ¡	people v	waving														
	• Co	llects no	n-visual	element	s include	sounds,	feeling	s, smells,	textural	qualities	, movem	ent (fe	eling of m	oveme	ent and ac	tual mo	vement t	hrough	a space)								
Weakness,	• Ma	ay not co	rrespon	d with in	habitants	s experie	ence of	space																			
Challenges and	 Ac 	curacy o	f studies	is attrib	uted to h	ow the p	articipa	ants unde	erstand t	he tasks																	
Limitations	• De	etailed ex	planatio	ns are re	equired re	educe hi	gh dem	and on h	uman re	sources a	at end of	studies	, which ca	an resu	lt in error	s and su	bjective	judgeme	ents by re	searchei	rs						
Implications for	Field o	bservatio	ns (casu	ıal obser	vation) ha	ave wide	implica	ations for	landsca	pe archit	ects. Rea	al time a	and syster	matic c	ualitative	supplei	mentary i	nformat	ion collec	ted duri	ing the a	assessme	nts has	the poter	itial to s	hape phys	sical
landscape	plannir	ng and de	esign for	compara	ative sites	s during	the plai	nning and	design	phases o	f project	s and sh	nape mair	itenan	ce and ma	nageme	ent plans	of speci	fic landsc	ape. Suc	cessful	assessme	ents which	ch inform	private	practice a	and
architects	advand	e the dis	cipline c	of landsca	ape archit	tecture a	are thos	e which ເ	use a rar	nge of ted	chniques	, tools a	ind metho	ds and	l have a cl	ear defi	ined scop	e of asse	essment.	To provi	de com _l	plete ass	essment	s tools, to	echnique	es and me	ethods
		be simpl																									
Ability to			•	es used in	n the met	thod of F	ield ob	servation	can pro	vide clea	r distinct	ion bet	ween typ	ologies	of publics	s. The d	istinction	is relate	ed to man	ual obse	ervation	s which l	ook for o	difference	es in pat	terns of u	ise no
distinguish		how brie																									
typology of publics	The De	fined Pu	blic	Yes				The Appr	opriatin	g Public	Yes			Т	he Transit	ory Pub	olic	Yes			The	Illegitim	ate Publ	ic Y	es		
Ability to	Site sp	ecific. Th	e distinc	tion is re	lated to i	manual d	observa	tions.																			
distinguish public	Parks 8	& Garden	s Y	'es		Stre	ets &		Yes		1	Plazas 8	k Squares	Υ	es		Wate	erfronts		Yes		С	ommerc	ial Space	s Yes		
space typologies						Pror	menade	S																			

Test Walks	Assessment approach Assessment users Data Concepts measured collected														
	Descriptive inventory Expert panel Public preference approach Descriptive inventory - Design approach Governments (local, state, federal) Researchers Access Access Access Access Access Access Access Access Anorphologically Historical interpretation Land use Views Amenities Public life (types of active use) Landscape characteristics Architectural characteristics Safety People imageability enclosure														
	x x x x x x x x x x	X													
Description	est walk method is a term by Gehl Architects to describe a technique which systematically reviews public space to notice problems, given routes or surrounding areas. Test walks provide a base level to determine or pedestrians to move through the city. Data gathered such as waiting times at traffic lights can provide strong political tools for making changes, disturbances or ease to pedestrian flow and provide data on how riendly a city is (Gehl 2010 for studies in Melbourne, Adelaide & Sydney). Gehl Architects method is conducted by following a predetermined (common) route at ordinary pedestrian speed. The successful Test walks typically combine two or more methods outlined in this study including systematic observations, tracking, place audits and counting.														
Aim	ndly a city is (Gehl 2010 for studies in Melbourne, Adelaide & Sydney). Gehl Architects method is conducted by following a predetermined (common) route at ordinary pedestrian speed. e successful Test walks typically combine two or more methods outlined in this study including systematic observations, tracking, place audits and counting. tematically review public space														
Method	est walks are carried out by walking a predefined route noting waiting times, possible hindrances and diversions.														
Strengths	Provides defined data on waiting times Study the impact of traffic on public life Can be undertaken by students, public or experts Inexpensive														
Weakness, Challenges and Limitations	Set processes, specific study timeframes (era), board geographical classification, omission of temporal changes and passage of events, set criteria non-specific to sites and defined walking/cycling routes of this engages with selected participants only Most studies link built form and behaviour without considering the visible landscape e.g. the functional use of space (Foltete and Piombini 2007).	method													
Implications for landscape architects	Test walks have the potential to shape redesign, auditing and management of built landscapes and can assist in design and planning when combined with other methods outlined in this study including case studies behavioural mapping. Review of Test walks indicates there are minimal to no resulting implications of findings if they are for information only. The limitations and validity concerns have wide implications for landscape architects and are related to the objective of the study undertaken and what information is collected.	and													
Ability to	The challenge of Test walks within landscape architecture research and design is the exclusion of participants and the exclusion of all public except the Defined Public.														
distinguish typology of publics	The Defined Public Yes The Appropriating Public No The Transitory Public No The Illegitimate Public No														
Ability to	ite specific. The distinction is related to manual observations.														
distinguish public space typologies	Parks & Gardens Yes Streets & Yes Plazas & Squares Yes Waterfronts Yes Commercial Spaces Yes Promenades														

Walkability Index	Assessment a	pproach	Assessi	ment use	ers		Data collect	ed	Concep	ots meas	ured															
	Descriptive inventory Expert panel Public preference approach	Descriptive inventory - Design approach	Governments (local, state, federal)	Researchers	Designers/practice	community	Subjective	Objective	Access	Residential grain/neighbourhood	Size (scale, human scale)	Transport environment (quality and quantity)	Ecological structures	Morphologically	Historical interpretation	Land use	Views	Amenities	Public life (types of active use)	Landscape characteristics	Architectural characteristics	Safety	People	imageability	enclosure	transparency
	х х	х	х	х	Х			х	Х	х	х	х						х	х	х	х	Х	х			х
Description Aim Method	Walkability in practices in pl place audits a Determine the Audits are typ	ace. Walkand counting qualities vically under	ability ca ng. of neigh ertaken l	n decline bourhoo	e if designed if designed in the designed in t	gn praction that eith	ces are n er suppo who use	ot to star rt or hind an establ	ndard. Tl der walki ished ra	ne succe ing. ting syst	em. The	alkability	index typ	mbines	ombine tv objective	vo or m	ore meth	ods outl	ned in th	nis study	includii	ng systen	natic obs	ervation	s, tracki	ng,
Chungantha	scale, transpaProvides			nplexity	and cohe	erence (<i>A</i>	Aoki 1999	9; Ewing (et al., 20	06; Purc	iel & M	arrone, 2	006). Rat	ings are	e typically	out of 5	5.									
Strengths	Study theCan be urInexpension	impact of ndertaken	f traffic o by stude	ents, pub	lic or ex	perts																				
Weakness, Challenges and Limitations	Set proce engages vMost stud	with select	ed parti	cipants c	nly							·	J	·					cific to s	ites and	defined	walking/	cycling r	outes of	this me	thod
Implications for landscape architects	Walkability in behavioural marchitects and	dex has th napping. R I are relate	e potent eview of ed to the	ial to sha walkabi objectiv	ape rede lity index e of the	esign, aud x indicato study ur	diting an es there ndertake	d manage are minir n and wh	ement o nal to no lat inforr	f built la resultin nation is	ndscape ng impli s collect	es and car cations of ed.	n assist ir f findings	design if they	and plan are for in	ning wh formation	en comb	ined witl The limit	ations ar	ıd validit			•	_		
Ability to distinguish typology of publics	The challenge The Defined P		Yes		landsca			esearch a opriating			exclusion	on of part			exclusior		No	ept the o	lefined p		llegitim	ate Publi	c N	lo		
Ability to	Site specific. N	No distinct	ion betw	een pub	lic space	typolog	gies.																			
distinguish public space typologies	Parks & Garde	ens N	lo			eets & menade	S	No			Plazas 8	k Squares	No	1		Wate	erfronts		No		C	Commerci	ial Space	es No		

Walking Audit Instruments	Assessr	ment ap	proach	Assess	ment us	ers	1	Data collect	ed	Conce	ots meas	ured	1	1				1		1		I	1	1	Ī		
	Descriptive inventory Expert panel	Public preference approach	Descriptive inventory - Design approach	Governments (local, state, federal)	Researchers	Designers/practice	community	Subjective	Objective	Access	Residential grain/neighbourhood	Size (scale, human scale)	Transport environment (quality and quantity)	Ecological structures	Morphologically	Historical interpretation	Land use	Views	Amenities	Public life (types of active use)	Landscape characteristics	Architectural characteristics	Safety	People	imageability	enclosure	transparency
	х		х	Х	х	х	х		х	х	х	х	х		х		х		х	х	х	х	х	X		х	х
Description			Instrume		-	-	e feature	es to asse	ss pede	strian 'frie	endliness	s'															
Aim			qualities																								
Method	-		cally unde		•	•		who use	an estal	olished ch	ecklist w	vith a ra	ting syste	em.													
Strengths		•	nsively m		l urban d	lesign qu	ıalities																				
		•	nage in t	he field																							
		expensiv																									
Weakness,			do not pi																								
Challenges and		•	is based o	•	erson un	dertakir	ng the as	sessmen	t																		
Limitations			ırban eler																								
Implications for		_			•		•	•	_		_		•			in design		_							•	_	
landscape																ons of fin	dings if	they are	tor intor	mation of	only. The	limitati	ons and v	alidity co	oncerns	have wi	de
architects	-		r landsca _l					•																			
Ability to						ents with		<u> </u>				sign is t	he exclus			ts and the			public ex	xcept the		•					
distinguish typology of	The De	tined Pu	iblic	Yes				The Appi	ropriatir	ng Public	No			T	he Trans	itory Publi	C	No			The	Illegitim	ate Publi	c N	0		
publics																											
Ability to	Sita sna	ocific N	o distincti	ion hetu	reen nut	lic space	a typolo	σίος																			
distinguish public	Parks 8			lo	reen put		eets &	Бісэ.	No			Dlazac 9	& Squares	- N	lo		\A/a+	erfronts	I	No			Commerc	ial Space	s No		
space typologies	Parks &	daruer	15 N	10			eets & menade	nc.	INO			ridZdS č	x squares	5 IN	10		vvate	ennonts		INO			Jonnerd	iai Space	2 110		
space typologies						PIC	menaut	-5																			

Appendix 2 Table 2: Seminal Case Studies and Comparative Case Studies in Landscape Architecture. Adapted from Francis 2001 and expanded to acknowledge key works to 2016

Adapted from Francis 2001 and expanded to acknowledge key works to 2015. The table represents a diverse sample of current and known historical case studies from those new to the academic field and known luminaries rather than an attempt to be comprehensive.

Seminal Case Studies

- Al-Badai, Riyadh region, Saudi Arabia
- Amelia Island, FL
- Bedford Square, London, Great Britain
- Blue Carpet, Newcastle, UK
- Boston Commons, MA
- Bryant Park, New York City
- Camp Pendelton Study, CA
- Campo Dei Santi Giovanni E Paola, Venice, Italy
- Cape Cod, MA
- Cariboo region of central interior British Columbia
- Central Park, New York, NY
- Charlotte Square, Edinburgh, Great Britain
- Chasse Terrain, Breda, The Netherlands
- Conventry Solihull Warewickshire, Great Britain
- Daiba, Tokyo Bay, Japan
- Easter Hill Village, Richmond, CA
- Federation Square, Melbourne, Australia
- Fountain Square of Hippocrates, Rhodes, Greece
- FreshKills, Staten Island, United States
- Gas Works Park, Seattle, WA
- Ghiradelli Square, San Francisco, CA
- Gråbrødre Torv, Copenhagen, Denmark
- Greenacre Park, New York, NY
- Hangzhou Flower Garden, China
- Highline, New York, United States
- HongKong, Peoples Republic of China
- Jardin Du Palais-Royal, Paris, France
- Lake Hills, Seattle, WA
- Lille, France
- Louisburg Square, Boston, United States
- Lovejoy & Forecourt Fountains, Portland or Manteo, NC
- Madrid's Retiro Park
- Memorial Bridge, Rojeka, Croatia
- Metro Perth new housing, Western Australia, AUS
- Millennium Park, Chicago, United States
- Münsterplatz, Freiburg, Germany

Comparative Case Studies

- Aarhus green space, Denmark, De Ridder et al. 2004
- American Society of Landscape Architects:100 Years, Simo, 1999
- Behaviour in Public Places, Erving Goffman, 1963
- Cities Reborn, 1987
- City Form and Natural Process, Hough, 1984
- Community Open Spaces, Francis et al., 1984
- Contemporary Landscapes of the World, 1990
- Defensible Space, Oscar Newman, 1972
- Design for Human Ecosystems, Lyle,
- Design with Nature, McHarg, 1995
- Ecological Design, Thompson and Steiner, 1997
- From greenbelt to greenways: four Canadian case studies, Taylor et al., 1995
- Gardens in Health Care Facilities,
 Cooper-Marcus & Barnes, 1995
- Great Streets, Jacobs, 1996
- Greenwich Village, New York, Jacobs
- Grey World, Green Heart, Thayer, 1994
- Image of the City, Lynch, 1961
- L'architettura della cittá, Aldo Rossi, 1966
- Learning from Las Vegas, Robert Venturi, Steven Izenour and Denise Scott Brown, 1972
- Life Between Building, Jan Gehl, 1971
- Liveable Streets, Donald Appleyard, 1985
- Modern Landscape Architecture, Johnson, 1991
- Newham, East London, Cattel et al. 2007
- People Places, Clare C. Marcus and Carolyn Francis, 1990
- People Places, Cooper Marcus and Francis, 1997
- Politics of Park Design, Cranz, 1982

- Münsterplatz, Ulm, Germany
- Nanjing city, China
- National Center for Atmospheric Studies, Boulder, CO
- Old Town Square, Prague, Czech Republic
- Old Town Square, Telč, Czech Republic
- Paley Park, New York, NY
- People's Park, Berkeley, CA
- Piazza Dei Signori, Verona, Italy
- Piazza Della Rotonda, Rome, Italy
- Piazza Delle Erbe, Verona, Italy
- Piazza Navona, Rome, Italy
- Piazza San Marco, Venice, Italy
- Piece Hall, Halfifax, Great Britain
- Place Des Corniéres, Monpazier, France
- Place Stanislas, Nancy, France
- Plan for the Valleys, MD
- Raleigh Greenway, NC
- Reston New Town, VA
- Rockefeller Plaza, New York, United States
- Ruhr area, Germany
- Seaside, FL
- Seattle Freeway Park, Seattle, WA
- Simpang Lima area, Semarang, Indonesia
- Southeast urban fringe, MI
- Southern Eastern Coastal Park, Barcelona, Spain
- Stanford Campus Plan, Palo Alto, CA
- Stortorget Square, Kalmar, Sweden
- Swanston Street, Melbourne, Australia
- Tanner Fountain, Harvard, Cambridge, MA
- The Circus, Bath, Great Britain
- The Roppongi Hills Project, Tokyo, Japan
- The Sea Ranch, California
- The Woodlands New Town, TX
- Tilla Durieux Park, Berlin, Germany
- Times Square, Manhattan, United States
- Tokyo Teleport Town, Tokyo Bay, Japan
- USF Square, Bergen, Norway
- Vietnam Memorial, Washington, DC
- Village Homes, Davis, CA
- Wallingford, Seattle, WA
- Washington Environmental Yard, Berkeley, CA
- Wisconsin Northwood Land, WI
- Zhongshan Shipyard Park, Zhongshan, China

- Public Space Public Life Studies, Gehl Architects, (1968-2016)
- Public Space, Carr et al.,1992
- S,M,L,XL, Rem Koolhaas and Bruce Nau
- Sefton and South East Devon, Blacksell and Gilg 1975
- Stanley Parks, Liverpool: 1858–1872, Marne, 2001
- Taking measures Across the American Landscape, Corner, 1996
- The Concise Townscape, Gordon Cullen, 1961
- The Death and Life of Great American Cities, Jacobs 1961
- The Endless City, Ricky Burdett and Deyan Sudjic, 2008
- The evolving metropolis: studies of community, neighborhood and street form at the urban edge, Southworth, M. &. Owens P.M., 2007
- The Exploding Metropolis, William H Whyte, 1958
- The Image of the City, Kevin Lynch, 1960
- The Rise of the creative Class, Richard Florida, 2002
- The Silent Language, Edward, T. Hall, 1959
- The Social Life of Small Urban Spaces, Whyte 1980
- Urban Parks and Open Spaces, Garvin and Berens, 1997
- Variations on a theme park, red.
 Michael Sorkin 1992
- Yard, Street and Park, Girling and Helphand, 1994

Source: Italics indicates examples from Francis 2001.

Observation methods – quantitative

Behavioural Mapping	Assessi	ment		Assess	ment use	ers		Data		Concept	s meas	ured															
11 5	approa							collect	ed																		
	Descriptive inventory Expert panel	Public preference approach	Descriptive inventory - Design approach	Governments (local, state, federal)	Researchers	Designers/practice	community	Subjective	Objective	Access	Residential grain/neighbourhood	Size (scale, human scale)	Transport environment (quality and quantity)	Ecological structures	Morphologically	Historical interpretation	Land use	Views	Amenities	Public life (types of active use)	Landscape characteristics	Architectural characteristics	Safety	People	imageability	enclosure	transparency
	Х		Х	Х	Х	Х			Х	Х			X						Х	X	Х		X	Х			X
Description Aim	et al. 2 in a nu descrip	008, 201 mber of otions of	10), delin disciplin observe	niting ed es includ d behavi	ges and a ling socia our in co	areas of Il science ntrolled	user dis es, urba I enviror	persal, d n plannii nments c	lirection ng, lands of psychia	provide a of travel, scape arch atric ward of use and	areas c nitectur ls.	of prefer e and ge	ence and eography	l relevai . Behav	nt functi ioural m	ions of denapping h	esign int ias been	erventio credited	ns such a I to Ittels	as furniti on, Rivli	ure, gard n and Pr	lens and	turf. Thi	s quanti	tative te	chnique	is used
Method										ary activiti	•											l at vario	us times	of the o	lay and w	reek Th	is
Wethou		-	-		-		-			determin			_							ilig is co	ilaactee	i at vario	us times	or the c	iay ana v	reek. III	13
Strengths		•								thods and									-	2005h·	Green	2000)					
ou onguio					•		•	•		nd researc			•	турсэч	or place.	5 54611 45		CC13 (21		.,20030,	Orecin,	2000,					
Weakness, Challenges	4									es (Southw																	
and Limitations			-		ective valu					(00000000000000000000000000000000000000			,,														
		_		_	nal descr		J																				
		_		_		-	ides to c	mit or st	tress whi	ich can be	differe	ent for e	ach proje	ect													
		_			in enviro																						
	• Ge	neralist	approac	h which	doesn't lo	ook at si	ite-spec	ific chara	acteristic	S																	
	• Co	llected	data usag	ge is ofte	n minima	al																					
	• Fe	w studie	es examir	ne both (bjective	and sub	jective	measure	S																		
	• Re	lies alm	ost exclu	sively or	subjecti	ve perce	eptions (of the en	vironme	ent rather	than o	n indepe	endent a	nd obje	ctive me	easures (F	Perkins e	t al., 199	92)								
	• So	cial and	physical	environ	mental tr	aits map	pped sep	parately																			
				_	not take																						
			-				ural, env	/ironmer	ntal and o	economic	conditi	ions in r	ecognitio	n of exi	isting pr	oblems,	environr	nental, h	istorical	context	and loca	ıl cultura	ıl norms,	from bu	ıilt form,	materia	ıl and
					ate assess																						
Implications for		•								mapping		_			• •			_				•					
landscape architects	_		•			•	_	_		nparative :		_	•											•	and adva	ance the	5
Ability to distinguish										hods outli							atic obse	rvations	, visuai a	ssessme	nt, place	audits a	ana coun	ting.			
Ability to distinguish typology of publics						sn betwe				xcept app		ing, wn	o are see				II.	V			Th	111:4:	- A - Dodali	- 1			
		fined Pu		Yes						g Public	NO			Ih	ie irans	itory Pub	OIIC	Yes			The	illegitim	ate Publi	С Ү	es		
Ability to distinguish	Site spe	ecific an	d takes i	nto cons	ideration	how ea	ach typo	logy typi	cally fun	ctions.																	
public space typologies	Parks 8	& Garder	ns Y	es			eets & menade	s	Yes			Plazas &	Squares	Ye	es		Wat	erfronts		Yes		C	ommerc	al Space	es Yes		

Block Environmental Inventory	Assessr approa			Assess	ment us	ers		Data collec	ted	Conce	ots meas	sured								1							ı
	Descriptive inventory Expert panel	Public preference approach	Descriptive inventory - Design approach	Governments (local, state, federal)	Researchers	Designers/practice	community	Subjective	Objective	Access	Residential grain/neighbourhood	Size (scale, human scale)	Transport environment (quality and quantity)	Ecological structures	Morphologically	Historical interpretation	Land use	Views	Amenities	Public life (types of active use)	Landscape characteristics	Architectural characteristics	Safety	People	imageability	enclosure	transparency
	х		Х	Χ	Х	Х			Х	х	Х	х													х	x	х
Description Aim	dogs (P invento recomn	erkins e ories use nended	t al., 199 participa combinir	2, Perkir ants' kno ng Block	ns & Bro owledge environ	wn, n.d) of an ar mental i	. Block e ea and ir nventori	nvironm ntuition es with	ental inv to assess resident	ventories s the goo	are assed and batto comp	essmer ad quic	ents of residents of public sold sold sold sold sold sold sold sold	paces f y future	focused e chang	on how es and o	v places overall p	work fro	m user s	tandpoii uglas D. F	nts based Perkins, J	d on obse	ervation. 1eeks an	Block er d Ralph	nvironm Taylor 1	ental 992 stud [,]	
Method												cted m	atching the s	ite cont	text and	l purpo:	se of the	e resear	h. Mapp	ing is co	nducted	at variou	s times o	of the da	y and w	eek.	
Strengths	TalWh	kes into nen com	consider bined wi	ation we th other	eather a		of day nitation a			thods nd resear	ched car	n be qı	ıantified														
Weakness, Challenges					•	ality of s																					
and Limitations	 Fin Em Col Soc Do 	dings ar phasis of llected d cial and es not ta	e based on negati lata usag physical ake cultu	what the ve cues e is ofte environi ral bias	e researd in environ n minim mental t into con	onments nal raits ma sideratic	ides to o and not oped sep	mit or s the pos	itive cue	es			each project														
Implications for		•					_						of block env					_						_			
landscape architects	typicall	y combi	ned two	or more	method	ds outline	ed in this	study i	ncluding	case stud	dies, sys	temati	sical planning c observation		_	-			-	_	nd redes	sign phas	ses of pro	ojects. Su	ıccessfu	I studies	
Ability to distinguish	Conside	ers demo	ographic	of partio	cipants o	only. All o	other po	tential ι	isers are	classed a	as the Ille	egitima	ite Publics.	110				1									
typology of publics	The De	fined Pu	blic	Yes				The App	ropriatin	g Public	No			The	Transit	ory Pub	lic	No			The	Illegitima	ate Publi	c Ye	es		
Ability to distinguish	Site spe	ecific. No	distinct	ion betv	veen pu	blic spac	e typolo	gies						1													
public space typologies	Parks &	Garden	is N	0			ets & menade	S	No			Plazas	& Squares	No			Wat	erfronts		No		C	ommerci	ial Space	s No		

Counting Also known as	Assessmo approach			Assessr	nent users	5	Data collecte		oncepts	measure	ed	ı			1			1	I						
Pedestrian Counts, Pedestrian Cordon Counts, Movements Counts, Gate Counts, Activity Counts and Staying Counts	Descriptive inventory Expert panel	Public preference approach	Descriptive inventory - Design approach	Governments (local, state, federal)	Researchers	Designers/practice community	Subjective	Objective		Residential grain/neighbourhood	Size (scale, numan scale) Transport environment	(quality and quantity) Ecological structures	Morphologically	Historical interpretation	Land use	Views	Amenities	Public life (types of active use)	Landscape characteristics	Architectural characteristics	Safety	People	imageability	enclosure	transparency
			х	х	x	х х		х	х									х				х			
Description	•	•	•			d to provide	•	•		•	•					•							•		
		_			-	yet basic qua				-				•	•	e. Counti	ng quickl	y determ	ine how	many p	eople us	e public sp	aces. Th	ese cou	ints
Aim						antitative da ffectiveness										กพ รทลด	e is used	or which	features	attract	use othe	er than Cor	nmercia	l Snaces	92112
Aiiii				-	-	ise data and	_		_	-		-				-							micreio	Тэрассэ	3 USC
Method		•		•		e field for e								•	•							_			nple to
		•		•		is compiled	-	•	_					-			•	•							-11
					-	strians. Cour practice for				_		-		=					-				-		allow
	-		-			City of Melb				_	-						_	_	CIICS. IVI	ctilou c	an mivorv	C manaar	or auton	latea	
Strengths						ice between													n the city	/					
						the success o					-	_	_												
						the ability to																			
						map databas nd behaviou								-			-		-				vels will	change	} .
			_		-	oncerns by e		_				=	' - '	· - ·		_		i iiiles to	compare	cities v	with other	15			
Weakness, Challenges						as small inac																			
and Limitations	• Cour	nting occi	urs in li	mited ti	meframes	. Timeframe	s may not l	oe reflectiv	e of use	missing	dramatic l	out short	changes in	pedestri	an volu	ımes suc	h as shop	os closing	times o	r the wo	ork crowd	d leaving c	arparks v	which ha	ave an
				_		ne. Timefrar				_	•	red result	:S												
				-		ehaviour can	_	-	-						-+		بطناهم مسنب		محد ماد						
					_	lude probler valking, wall			-	-	rtware mu	ist be ada	ptea for ea	acn proje	ct, sens	sors requ	lire calibi	ration cne	ecks, ma	intenan	ice and co	osts. Most	automa	tea cour	nters
		_			•	hen events,		_	•		ypically no	ot underta	aken on su	ndays, m	ondays	or frida	ys								
						imes people		-	-					-	-		-	me with	weather						
						llected data											public sp	oace usag	e.						
				=		need to bala				_	=		_		-										
		-	-			ertaking the n, temporal (-		-		_	y tney cho	ose to sit w	nich iimi	ts the c	complete	e assessm	ient of a s	site						
		Ū				dised and ra	0 , 1	Ū	•			o weekly	, monthly o	or annual	volum	es									
Implications for	The use o	of countin	ng meth	hods an	d the impli	ications for	landscape a	rchitects ir	design	and rese	earch are v	vide rang	ing. Counti	ng techni	iques e	stablish									
landscape architects			_	, .	_	level data. R		_				•		•							•	, ,		_	s have
						nd design for						gn phases	of project	s. Success	sful stu	dies whi	ch inforn	n private	practice	and adv	vance the	discipline	of land	scape	
Ability to distinguish						ocedures and ly excluding		•				tivity No	distinguist	n betwee	n tvnol	ngies of	publics is	s made							
typology of publics	The Defir			No		., cholduling	1	opriating P					The Transi			No No	P421163 1.		The	Illegitim	nate Publi	ic No			
		J					- 14 19.							,						<i>J</i>					
Ability to distinguish	-				een public	space typo	logies		-							-								-	
public space	Parks & C	Gardens	No)		Streets &		No		Pla	zas & Squ	ares	No		Wa	terfronts	5	No		(Commerc	ial Spaces	No		
typologies						Promena	des																		

Desktop Audit	Assessment		Assess	ment us	ers		Data	a al	Conce	pts meas	sured															
	Descriptive inventory Expert dd dd da panel public preference approach d	Descriptive inventory - Design approach	Governments (local, state, federal)	Researchers	Designers/practice	community	Subjective o	Objective B	Access	Residential grain/neighbourhood	Size (scale, human scale)	Transport environment (quality and quantity)	Ecological structures	Morphologically	Historical interpretation	Land use	Views	Amenities	Public life (types of active use)	Landscape characteristics	Architectural characteristics	Safety	People	imageability	enclosure	transparency
		x	X	X	×		0,	х	X	x	X	X	x	x	X	x	X	X	x	_ x	X	X	X	. -	х	-
Description	Desktop audits of data through administration.	are elec			s and do									acilities a								s and ph			ng or coll	ection
Aim	Collect data rela	ated to	physical f	eatures	, facilitie	es and ar	nenities a	and dete	ermine h	ow a spa	ce is us	ed and wh	no uses	it.												
Method	Desktop audits amenities. Que	are a de	escriptive	method	d, data a	re collec	ted via a	series o	f predefi	ined list o	of ques	tions prov	ided to	auditors			•			ual inte	rpretatio	on of phy	sical fea	tures, fa	cilities an	d
Strengths	InexpensiveEfficient anAllows for eEmphasis of	d econo detail as	sessmen	ts at a la	ater data	a to disc	over/revi				ror rate	es and the	ability	to repea	t											
Weakness, Challenges and	SeparationComplete a	of resea	archer fro	om the p	hysical	landscap	oe.	of the si	te includ	ing user	demog	raphics an	d user	behavio	ur.											
Limitations	 Static glimp Findings ar Static glimp Only captu Impact of v Can be an i Time intension 	e reliantose in til res wha veather ntrusion	t on agen me t can be on equip n of priva	captured oment (S	d (Laugh Schweize	ilin and J er, 2005)	ohnson,		ected																	
Implications for landscape architects	Desktop audits architecture are place audits.																									
Ability to distinguish typology of publics	The distinction publics could be	e built ir	nto place	audits c		d out by	question	s regardi	ing site f	eatures.		_	vs are a	able to pi	resent m	ninimal da	ta on th		•	and the	Illegitim	ate Publ	ics.		on betwee	en
	The Defined Pu	DIIC	Yes				The App	ropriatin	ig Public	NO			T	he Trans	itory Pu	DIIC	No			The	e Illegitim	iate Pub	IIC '	Yes		
Ability to distinguish	The distinction	betwee	n public s	pace ty	pologies	is objec	tive and	limited t	o the res	search ur	ndertak	en.	1							ıl.			<u> </u>			
public space typologies	Parks & Garden		/es		Str	eets &		Yes				& Squares	Y	es		Wate	erfronts		Yes		(Commer	cial Spac	es Ye	5	

Figure Ground Mapping	Assessment approa	Assessment use	ers	Data collected	Concepts me	easured														
	Descriptive inventory Expert panel Public preference approach Descriptive inventory - Design	approach Governments (local, state, federal) Researchers	Designers/practice community	Subjective Objective	Access	grain/neighbourhood Size (scale, human scale)	Transport environment (quality and quantity)	Morphologically	Historical interpretation	Land use	Views	Amenities	Public life (types of active use)	Landscape characteristics	Architectural characteristics	Safety	People	imageability	enclosure	transparency
	X X	X X	Х	X	X X	X	Х			х				Х	X				Χ	Х
Description		oing is an assessment		Figure ground	mapping use p	articipants	knowledge (of an are	a and intuit	ion to ass	ess the	good an	d bad qu	ickly to i	dentify f	uture ch	anges ar	nd overa	ll perfor	mance.
Aim		nip between built and	•																	
Method		ed along with site pla kly builds up two dim															ned with	ground	investiga	ations.
Strengths	Starting point for	or urban design mast	er planning proce	esses and lands	cape architectu	ıral site ana	alysis													
	 Assessments ar 	re repeatable (Aoki 1	999; united states	public building	gs service, 2007	; Forsyth e	t al. 2008, 20	10).												
	Can accurately	depict similarities an	d differences amo	ong the places.		-		•												
	Measure what it	it claims to measure																		
	Measures a nur	mber of fairly comple	x urban-design co	ncepts in a cle	ar and compre	hensible w	ay													
	 Easy to replicat 		J	•	·		•													
		re related to aestheti	c theories and en	nphasise physic	al form (Von N	leiss, 1990;	Cantacuzino	. 1994).												
		emphasises built ele						-												
Weakness,	Time consumin			•			'													
Challenges and		ntion is provided abou	ut the meaning of	the place stud	ied or about us	ers														
Limitations	Weak for open	•	,																	
	 Snapshot of one 	•																		
	•	selection of objective	tangible elemen	ts such as wate	r features and	the exclusi	on of subiect	ve eleme	ents such as	s safety ar	nd comf	ort.								
Implications for		ping has the potentia											es which	inform	private p	ractice a	nd adva	nce the	disciplin	e of
landscape architects		ure are those which i			-	•	_	•	• .	, ,				•					•	
Ability to distinguish	·	een typologies of pu	-	•			·	•	•											
typology of publics	The Defined Public	No		ne Appropriatir	ng Public No			The Tra	insitory Pub	olic	No			The	Illegitima	ite Publi	c N	0		
Ability to distinguish	Cito aposific No dist	tination batusas =	lie coace type lee	0.5																
Ability to distinguish public space		tinction between pub				Dla-ss 0	C	NI-		\\/a+-	f		Na				al Caa	a N.		
typologies	Parks & Gardens	No	Streets &	No		Plazas &	Squares	No		wate	rfronts		No		100	ommerci	ai Space	s No		
typologies			Promenades																	

Pedestrian Flows	Assessment approa	ach Assess	sment users		Data		ncepts m	easured															
Also known as Pedestrian Cordon Counts, Movements Counts, Gate Counts and Pedestrian Flow Survey		approach Governments (local, state, federal)	+	community	Subjective	Objective	Residential	grain/neighbourhood Size (scale, human scale)	Transport environment (quality and quantity)	Ecological structures	Morphologically	Historical interpretation	Land use	Views	Amenities	Public life (types of active use)	Landscape characteristics	Architectural characteristics	Safety	× People	imageability	enclosure	transparency
Description	Pedestrian flows qu			· · · · · · · · · · · · · · · · · · ·	se nuhlic s			are frequ	ent and sv	stemati	c gatherii	ng guant	itative d	ata useo	to justi	fy impro	vements	s and eva	aluate su		failure (of public s	snaces
Aim	Assess the quality a																						
7	demonstrate use.			B 6. 6pa66.	. , p		0.000			0.00, 0.0		,	,				p. 08. a	(. 5, 4 , ,	, a.o. o.o.p			
Method	This technique is ty the number of peop exact as small inacc	ole who cros	ss a spot in a	given timef	ame. Sch	weizer (2005	5) researc	h sugges	ts minimun	n collec	tion time	should b	e 15 mir	utes an	d with a	minimur	n of 100) pedesti	rians. Co				_
Strengths	Allows for com																						
	 Allows for asse 	-		-				-	_	-	_							,					
	Automated ser	sors strengt	ths include t	he ability to	detect and	d retain large	e amount	s of infor	mation, un	dertake	studies i	n all wea	ther cor	ditions	and link	several s	ensors t	together	r				
	Collected data	_		-		_												_		of how	those le	vels will d	change.
	Enable compar	isons of pub	olic space ove	er time and ខ្	geographic	cal lines to c	ompare c	ities with	others														
	Low costs and	low staff red	quirements																				
Weakness,	Use of surveyo	rs to manua	illy track/cou	ınt participaı	nts reduce	s accuracy																	
Challenges and	Outside influer	ices on why	people are ι	using particu	lar spaces	are not con	sidered																
Limitations	Occurs in limite	ed timefram	es. Timefran	nes may not	be reflect	ve of use m	issing dra	matic bu	t short cha	nges in	pedestria	n volume	es such a	as shops	closing	times or	the wor	k crowd	leaving o	carparks	which h	ave an in	flux of
	people exiting	at the same	time																				
	 Occurs in limite 	ed weather o	conditions																				
	 Requires result 																						
	 Position of cou 	-			_		-																
	 Automated ser 		_	-		dalism if loc	ated poo	rly, softw	are must b	e adapt	ted for ea	ch projec	ct, senso	rs requi	re calibr	ation che	ecks, ma	intenan	ce and co	osts			
	 Lack of control 	-	-																				
	 Typically not ur 			-		days occur																	
	 Typically not ur 		-	-	-																		
	 Studies are bas 				vill use pu	blic space th	nus result	s are lim	ited to expe	ected pa	atterns of	use and	not the	quirks w	hich cor	ne with v	weather	٢					
	Omission of ge	.				_																	
	Omission of ter	=																					
	Methodologies										-												
Implications for	The use of Pedestri		-		-		_												-			-	
landscape architects	pedestrian flows or																						
	potential to shape p							ng and d	esign phase	es of pr	ojects. Su	ccesstuls	studies v	vnich inf	rorm priv	vate prac	tice and	a advanc	e the dis	cipline o	riandsc	ape archi	tecture
Abilia, a distribuit	are those which fol	•			•			- :.	laura IV		L. N. 11		L - 4	. A I	-: r	ledia :							
Ability to distinguish	Pedestrian flows as			ers only exc					iertaking th						gies of pi	ublics is r							
typology of publics	The Defined Public	No				opriating Pu	blic No			Т	he Transit	tory Publ	IC	No			The	ıllegitim	nate Publ	ic N	No .		
Ability to distinguish	Site specific. No dis		ween public		gies	T										I		-					
public space	Parks & Gardens	No		Streets &		No		Plaza	s & Squares	s N	0		Wate	erfronts		No		(Commerc	cial Space	es No		
typologies				Promenad	es																		

Place Audits	Assessment approach Assessment users Data Concepts measured
	Descriptive inventory Expert panel Public preference approach Descriptive inventory - Design approach Governments (local, state, federal) Researchers Community Community Subjective Size (scale, human scale) Fransport environment (quality and quantity) Ecological structures Morphologically Historical interpretation Land use Views Amenities Public life (types of active use) Landscape characteristics Architectural characteristics Safety People imageability enclosure transparency
	x x x x x x x x x x x x x x x x x x x
Description	Place audits are assessments of public spaces focused on how places work from user standpoints based on observation. Place audits use participants' knowledge of an area and intuition to assess the good and bad quickly to identify future changes and overall performance.
Aim	Assess public spaces at a site levels to determine public life, use and public space qualities.
Method	Place audits developed by PPS are undertaken on site and are based on common sense and intuition to quickly develop recommendations. Participants use predefined checklists to score selected sites.
Strengths	Checklists with ratings to collect data
Weakness, Challenges and Limitations	 Checklist means trained personnel are not required to undertake data collection Focus on participant perception of design, management, security, image, aesthetics, access and connections Scores talliled at the end of assessments are used to determine appropriate improvements. Assessments are repeatable Provides an overall weighted score for each element to directly compare different places Measure what it claims to measure One page form is easy to manage in the field Easy inventory tool to learn and questions are straight forward It is flexible in that individual questions can be extracted to make shorter inventories tailored to specific questions Lack of information provide about the meaning of the place studied or about users Minimum or maximum numbers of participants are not stated in place audits instructions or methodology of academic studies Different raters might create different scores for the same place Places will be assessed differently based on when measurements are taken Reliability of components can be questionable as selection is based on hypothetical assumptions of importance Rankings are arbitrary or relative only to other elements within the site and don't produce quantitative evaluations Results in generalised judgements Snapshot of one time only Linked to respondents personality Neutral ratings present lack of awareness Voice of majority over minor Preferences vary according to fashion
Implications for	• Limited by the selection of objective tangible elements such as water features and the exclusion of subjective elements such as safety and comfort Place Audits findings have the potential to shape physical planning and design for comparative sites during the planning and design phases of project and planning and administration of specific sites. Successful studies
landscape architects	which inform private practice and advance the discipline of landscape architecture are those which use a range of techniques, tools and methods and involve expert and public participants.
Ability to distinguish	The method is related to aesthetic theories and emphasise physical form therefore does not distinguish between typologies of publics
typology of publics	The Defined Public No The Appropriating Public No The Transitory Public No The Illegitimate Public No
Ability to distinguish	Site specific. The method is related to aesthetic theories and emphasise physical form therefore does not distinguish between public space typologies.
public space typologies	Parks & Gardens No Streets & No Plazas & Squares No Waterfronts No Commercial Spaces No Promenades

Post Occupancy	Assessment approac	ch Assessment	users		Data	Conce	epts measured														
Evaluations	Descriptive inventory Expert panel Public preference approach Descriptive inventory - Design	approach Governments (local, state, federal) Researchers	Designers/practice	٨	Subjective parameter postulos (Objective Objective	Access	Residential grain/neighbourhood Size (scale, human scale)	Transport environment (quality and quantity)	Ecological structures Morphologically	Historical interpretation	Land use	Views	Amenities	Public life (types of active use)	Landscape characteristics	Architectural characteristics	Safety	People	imageability	enclosure	transparency
	x x x	x x	х		х х	х	х х	х			х	Х	Х	Х	Х	Х	Х	Х	Х	х	х
Aim Method Strengths	Post occupancy evaluand large public plaza analysis of a particula projects. Post occuparedesign is required a Assess how successful Participants use prediction of the Checklists with respect to the control of the co	as (Bechtel et al., ar site by a combinancy evaluation properties is full the site is in supplementations.	1987; Coop nation of desincipally counctioning oporting the to score se	per Marcu lifferent su ombines p as planne e occupyir	s & Sarkissiar Irvey techniq articipant ob d. ng public (org	n, 1986; C ues. This servation	cooper Marcus technique was , site analysis,	& Francis 199 adapted from tracing, beha	8; Kaplan et n environme vioural mapp	al., 1998 ntal beha ping and i	; Whyte 1 vioural re	980; Sar search a	kissian 1 and is us	980s-cui ed predo	rent; Zei minantly	sel, 2006 for gove	6). Post c ernment	occupan or insti	cy evalua tutional	ation is ar large scal	n
	Focus on participScores tallied atMake sense to pEasy inventory to	trained personner pant perception of the end of assess eeople who have vool to learn and q	f design, m ments are isited the puestions a	nanagemer used to de places re straight	nt, security, in etermine app forward	mage, aes ropriate i	sthetics, access mprovements														
Weakness, Challenges and Limitations	 Minimum or mai Different assesso Places will be ass Focused on com The complete in Reliability of con Rankings are arb Voice of majority Preferences vary 	nponents can be on the oritrary or relative y over minor according to fasi	of participal ifferent so based on a dis less apquestionabonly to oth	ents are no cores for th when mea oplicable to ble as selecter elemen	t stated in me same place surements at oother kinds tion is based ts within the	ethodolog e taken of enviro on hypot site and d	enments chetical assum don't produce	otions of impo quantitative	ortance and evaluations					·				- 16 1			
Implications for landscape architects	Post occupancy evaluinformation only. Such broader context of the	ccessful Post occu ne geographical Ic	pancy eval	luations w	hich inform p	rivate pra	actice and adv	ance the disci	pline of land	scape arc	hitecture					_	•				the
Ability to distinguish typology of publics	Evaluations are able The Defined Public	to distinguish bet Yes	ween all p		ect transitory e Appropriat			ation of tools		ues emplo sitory Pul	-	No			The I	Illegitima	ate Publi	с Ү	'es		
Ability to distinguish public space typologies	Evaluations are able Parks & Gardens	to distinguish bet Yes	Stre	ublics spac eets & menades	e typologies Yes	because (-	ntion of tools s & Squares	Yes	es emplo	-	erfronts		Yes		Co	ommerci	ial Space	es Yes		

Score Sheets	Assessment ap	proach	Assessi	ment use	ers		Data		Conce	ots mea	sured															
						ı	collect	ed		ı								1	1	ı						
	Descriptive inventory Expert panel Public preference approach	Descriptive inventory - Design approach	Governments (local, state, federal)	Researchers	Designers/practice	community	Subjective	Objective	Access	Residential grain/neighbourhood	Size (scale, human scale)	Transport environment (quality and quantity)	Ecological structures	Morphologically	Historical interpretation	Land use	Views	Amenities	Public life (types of active use)	Landscape characteristics	Architectural characteristics	Safety	People	imageability	enclosure	transparency
	x x	х	x	x		х		X	х	Х	Х	х				х	х	х	х	х	x	х	х	X	х	х
Description	Score sheets a																									he area
	feels walkable																									
	Score sheets a						n how pl	aces wo	rk from ι	ıser staı	ndpoint	s based o	n obser	vation. Sc	ore shee	ts use pa	articipan	ts' know	ledge of	an area	and intu	uition to	assess th	e good a	and bad q	quickly
	to identify futu			· · · · · ·																						
Aim	Assess public s	•				-				-			ı c.	1 1 11												
Method	Score sheet pro					•			•	sites. P	articipa	nts use p	reaetine	ed checkli	sts to sco	ore selec	tea sites	<u>. </u>								
Strengths	Based on o	•			•	•	•		•																	
	Comprehe	•			• .		ind was e	asy to n	nanage ii	n the fie	ıa.															
Markora	Allowed for										C **	***						<u> </u>								
Weakness, Challenges and	Similar val			_					-	_					-	-										
Limitations	AssessmerLimited be	_			-								-		-		-			_			misstatad			
Littitations	Limited beForsyth et																mmercia	ii streets	only and	a precise	scores	seen as i	msstated	•		
	• Ignore use	•	•		_			is allu ii	iventone	es are w	eigiiteu	towarus	wiiat ex	perts con	isiuei iiii	portant										
Implications for	Score Sheets fi		•					ng and d	lecian for	compa	rativo si	ites durin	a the nl	anning an	d decian	nhacac	of projec	t and nl	anning a	nd admir	nictratio	n of sne	rific citos	Succes	cful ctudi	ioc
landscape architects	which inform p																						cinc sites.	Jucces	siui stuul	163
Ability to distinguish	The method is					· ·							BC 01	- comingu	25, 10013	ana me			- capert	a pab	partic	pai.ico.				
typology of publics	The Defined Pu		No	ar rorrir c	.iici cioi		The Appr				3 01 pui	31103	Т	he Transit	tory Pub	lic	No			The	Illegitim	ate Publi	c N	<u> </u>		
-/I	The Defined I	1011C	140				тте дррі	opriaciii	6 I abile	140				iic iiuiisii	cory i ub		140			1116	cg.ciiiii	ate i abii		,		
Ability to distinguish	Site specific. Th	ne metho	d is emp	hasise ni	nvsical fo	orm the	refore do	es not d	distinguis	h betw	en pub	lic space	tvpolog	ies.												
public space	Parks & Garde			p		eets &	2.2.0 00	No				& Squares				Wate	erfronts		No		(Commerc	ial Spaces	s No		
typologies		_ ''	-			menade		1					.	-							-		15000			

Site Inventory Also known as Place Inventories	Assessment approach		Assess	ment us	ers		Data collect	ed	Conce	epts mea	sured															
	Descriptive inventory Expert panel Public preference approach	Descriptive inventory - Design	Governments (local, state, federal)	< Researchers	< Designers/practice	community	Subjective	< Objective	< Access	Residential grain/neighbourhood	Size (scale, human scale)	Transport environment (quality and quantity)	Ecological structures	Morphologically	Historical interpretation	< Land use	Views	< Amenities	Public life (types of active use)	 Landscape characteristics 	Architectural characteristics	< Safety	× People	imageability	< enclosure	< transparency
Description	Site (Place) I	nventory i	s an obse	rvationa	l audit fo	ocused c	n nhysica	al enviro	nment	features	and typi	ically link	ed to w	alking and	d cycling	Site inv	entories	use par	ticinants	knowle	odge of a	n area a		ion to as	sess the	ood 2
Description		•							THI CHE	reatures	ana typi	ically lillic	cu to w	aiking and	a cycling.	. Site iiiv	Cittories	use pui	cicipants	KIIOWIC	uge of a	in area a	na mitait	1011 to as	3033 1110 8	500a
Aim	and bad quickly to identify future changes and overall performance. Determine how places work from user standpoints based on observation.																									
Method	This techniq can be meas		ecklists t	o measu	re urban	design	and envir	onment	al featu	ıres. Typi	cal ques	tions incl	uding p	resence c	of, absend	ce of and	d quanti	ty of, are	e easy for	particip	ants to	answer a	and mea	ns a varie	ety of spa	ices
Strengths	It is a mStraightFlexibleAbility t	entory pro ore neutra forward c o tailor sp o create ir	Il audit to omprehe ecific que	ool than tensive na	the score ture	e sheet–	-while it	counts f	eatures	it does n		•														
Weakness,	• the abil	ity to be fl	exible and	d select o	question	s is also	seen as a	limitati	on as pi	roblemat	ic omiss	ions may	occur													
Challenges and Limitations	 Forsyth 	validity pro et al. (200 use of a pu	8, 2010)	study su	ggested	use of so	core shee		-	_					-	-	number	of peopl	е							
Implications for	Score Invent							anning,	re desig	n and ad	ministra	ntion of sr	pecific s	sites. Succ	essful stu	udies wh	nich info	rm priva	te practio	ce and a	dvance 1	the discir	oline of la	andscape	e archited	cture
landscape architects	are those w																	•	•							
Ability to distinguish	Considers de	emographi	c of parti	cipants c	only. All	other po	tential us	ers are	classed	as the Ill	egitimat	e Publics	•													
typology of publics	The Defined	Public	Yes				The Appr	opriatin	g Public	C No			Т	he Transi	tory Publ	lic	No			The	Illegitim	nate Publ	ic Y	'es		
Ability to distinguish	Site specific	No distin	tion bety	ween pul	blic spac	e typolo	gies																			
public space	Parks & Gar		No			eets &		No			Plazas 8	& Squares	5 N	lo		Wate	erfronts		No		(Commerc	cial Space	es No		
typologies					Pro	menade	es																			

Staying Activities Also known as	Assessment approach	h Assessment users	Data colle		epts measured					1		1	1	1				1	
Activity Counts, Staying Counts, Stationary Mapping, Behavioural Mapping, Walk-By Observations	Descriptive inventory Expert panel Public preference approach Descriptive inventory - Design	Governments (local, state, federal) Researchers	x Designers/practice community Subjective	ObjectiveAccess	Residential grain/neighbourhood Size (scale, human scale)	Transport environment (quality and quantity)	Ecological structures	Morphologically Historical interpretation	Land use	Views	× Amenities	Public life (types of active use)	Landscape characteristics	Architectural characteristics	Safety	People	imageability	enclosure	transparency
Description		^ ^		^ ^	acca counts are	frequent and	cyctor	natic gatheri	na augntita	tivo dat		inctify i	marayan	nonts an	d ovalua	to success	or faile	uro of nu	ublic
Description	Staying activity count spaces. These studies								iig quaiitite	ative dat	a useu ic	justily i	iliproveii	iieiits aii	u evalua	ite success	o Or Talli	ure or pu	אוטג
Aim	Determine how many	<u> </u>	<i>.</i> •	on and activity by	CHECKIISTS, tar	ting notes, pin	itos arī	iu viueos.											
Method	This technique is typic counting the number	cally undertaken in th of people undertakin	ne field for exactly fivens	at a given timefr	ame. Schweize	er (2005) resea	rch su	ggests minim	um collecti	on time	should b	e 15 min	utes and	l with a r	ninimum	n of 100 pe			ī
Strengths	 predefined checklist is used to note activities undertaken and is combined with notes, photos and videos. Staying activities requires results to be exact as small inaccuracies invalidate results. Allows for comparisons of the difference between pedestrian volume on selected days and during events providing data for assessments of pedestrian activity in the city Allows for assessments to determine the success of events and inform decisions about urban planning and management Collected data can be combined with static map databases, weather information, event calendars and other information, to provide data on crowd levels of public space and predictions of change. Staying activity are constant tools which enable comparisons of public space over time and geographical lines to compare cities with others Low costs and low staff requirements Site focused Many studies minimise data validity concerns by engaging university students to collect set data and trained professionals to undertake analysis 																		
Weakness,	·	•		•	ts to collect set	t data and trail	iea pro	oressionais to	undertake	anaiysis	•								
Challenges and	-	to manually track/co es on why people are	•		orod														
Limitations	Counting occurs i influx of people eTimeframes are c	in limited timeframes exiting at the same tire often structured arou weather conditions	s. Timeframes may no me	t be reflective of		amatic but sho	ort cha	nges in pedes	strian volur	nes such	as shops	s closing	times or	the wor	k crowd	leaving ca	rparks	which ha	ave an
		s results to be exact a	as small inaccuracies i	nvalidate results															
	Counts are typical	ally not undertaken wally not undertaken o	hen events, festivals	or public holidays															
		d on assumptions of t	= = = = = = = = = = = = = = = = = = = =		results are lim	ited to expect	ed nati	terns of use a	nd not the	auirks w	hich con	ne with v	weather						
		dies reviewed have co		· -		-	-			-									
		urate picture, studies	_							-, p									
		graphical classification			_	=		· ·	•										
	Methodologies a	re not standardised a	and rarely provide end	ough information	to extrapolate	to weekly, mo	nthly	or annual vol	umes										
Implications for landscape architects	The use of counting m techniques as countin activities. Findings had discipline of landscap	ng only provides high ve the potential to sh	level data. Results ca nape physical planning	n show high use a g and design for c	and range of accomparative sit	ctivities but do es during the	es not olannir	necessarily m	nean a peo	ole frien	dly vibraı	nt enviro	nment o	r provid	ed the p	urpose of	the trip	and stay	
Ability to distinguish	Counting assess activi								tween type	ologies o	f publics	is made							
typology of publics	The Defined Public	Yes	·	propriating Public		b the delivity.		Transitory P		Yes	· pablics	15 made		Illegitima	ite Publi	c Yes	3		
Ability to distinguish	Site specific. No distin	nction between nublic	r snace typologies																
public space typologies	Parks & Gardens	No	Streets &	No	Plaza	s & Squares	No		Wate	erfronts		No		Co	ommerci	ial Spaces	No		
cypologics			Promenades																

Staying Counts	Assessment	t approac	h Assess	sment use	rs		Data		cepts m	neasure	d														
Also known as Counting, Staying Activities, Activity Counts, Stationary Mapping, Behavioural Mapping and Walk-By Observations	Descriptive inventory Expert panel Public preference approach	Descriptive inventory - Design	Governments (local, state, federal)	× Researchers	× Designers/practice	community	Subjective Subjective	x Objective x Access	Residential	grain/neighbourhood Size (scale, human scale)	Transport environment	Ecological structures	Morphologically	Historical interpretation	Land use	Views	x Amenities	Public life (types of active use)	Landscape characteristics	Architectural characteristics	Safety	× People	imageability	enclosure	transparency
Description	Staying cour	nts guickl	v determir	ne how ma	any peo	ple use p	ublic spac	es. These co	unts ar	e frequ	ent and sys	tematic,	gathering	guantita	tive dat	a used t	o justify	improve	ments a	nd evalu	uate succe	ess or fai	lure of	public spa	ices
Aim	Determine h											,	0 0	,			- , ,								
Method	This techniq	<i>.</i>			•		tly five, te	n or fifteen	minute	s, once	an hour, to	gain a r	andom sar	mple to ca	alculate	usage o	f a publi	c space r	er hour	and cor	mplied to	provide	data fo	r the day	by
	counting the checklist/tal counters is i	e number ble is used	of people d to note a	staying w activities a	rithin a s nd dura	space for ition of a	a given tii ctivities ui	meframe. So ndertaken a	hweize nd is co	r (2005) mbined) research s I with notes	uggests , photos	minimum and video	collection os. Counti	n time s	hould be	15 min	utes and	with a r	minimun	n of 100 p	oedestria	ns. A pr	redefined	•
Strengths								olume on se							essment	s of ped	estrian a	activity ir	the city	v					
0		-				-		inform deci		-	_	-	_			о. рес			,	,					
								ather inforn			•	_	•		vide da	ta on cro	wd leve	ls of pub	lic space	e and pre	edictions	of how t	hose le	vels will cl	hange.
						=		f public spac						-											. 0-
		-		quirements							00														
	Site foc			1 2	-																				
			nimise dat	ta validity (concern	s by eng	aging univ	ersity stude	nts to c	ollect se	et data and	trained	profession	nals to un	dertake	analysis	;								
Weakness,				Illy track/c								-				,									
Challenges and		-		-	-	-		re not consi	dered																
Limitations	• Countin	ng occurs	in limited		es. Time	-	-	reflective o		issing d	lramatic bu	t short c	nanges in	pedestria	an volun	nes such	as shop	s closing	times o	r the wo	ork crowd	leaving	carpark	s which h	ave an
				ctured aro		ning the	desired re	sults																	
				conditions	_	J																			
						ll inaccur	acies inva	lidate result	S																
								ublic holida		r															
			•	dertaken d		-	-																		
			•			•	•	lic space thu	s result	ts are lir	mited to ex	pected p	atterns of	use and	not the	guirks w	hich cor	ne with v	weather						
				-	-	-		only one sea								-									
							_	of users un								,, ,		Ü							
			-	lassificatio						0			0												
			•	iges, passa		vents. dir	ection of	travel																	
				• .	-	-		n informatio	n to ext	rapolat	e to weekl	, month	lv or annu	al volume	es										
Implications for	The use of c										•		•			ablish le	vels of u	ise. how	ever. the	ev shoul	d be used	in coniu	ınction	with othe	r
landscape architects	techniques a	_		-			-		_			_	_	_	-					-		-			
, · · · · · · · ·	activities. Fi		•	_				_		_				•			•			•	•	•		•	, 5
	discipline of													5 1	'	•									
Ability to distinguish	Considers de																								
typology of publics	The Defined		Yes		,			oriating Publ					he Transit	tory Publi	ic	No			The	Illegitim	nate Publi	c Y	es		
Ability to distinguish	Site specific	. No com	parison he	tween nul	blic snac	ce typolo	gies																		
public space	Parks & Gar	-	No			ets &		No		Plaz	as & Squar	29	lo		Wate	erfronts		No		(Commerc	ial Snace	s No		
	r units & Gall	acii3								1 102	.as & squar				vvace	01163		. 1.0				.a. space	.5		
typologies					Pro	menades																			

Tracking	Assess	ment ap	proach	Assess	ment u	sers		Data collect	ed:	Conce	pts mea	sured	ı	ı	1	1				ı	1	ı				ı	ı
	Descriptive inventory Expert panel	Public preference approach	Descriptive inventory - Design approach	Governments (local, state, federal)	Researchers	Designers/practice	community	Subjective	Objective	Access	Residential grain/neighbourhood	Size (scale, human scale)	Transport environment (quality and quantity)	Ecological structures	Morphologically	Historical interpretation	Land use	Views	Amenities	Public life (types of active use)	Landscape characteristics	Architectural characteristics	Safety	People	imageability	enclosure	transparency
			Х	х	х	х			х	х							Х		х	х	х		х	х			х
Description								ubordinat									oveme	ent or avo	oidance a	long a ro	ute.						
Aim	_							y are attr							-												
Method								on data c of movem			_	•			_				•		aken in	the field	l. Station	ary Obse	rvation i	nvolves	
Strengths	• Us	e of surv	eyors to	manua	lly track	/count p	articipar	nts maint	ains obj	ectivity o	f data																
	• M	anual tra	cking ca	n add ad	dditiona	linform	ation suc	h as why	, how, v	vho, wea	ther con	ditions a	nd even	ts occur	ring outs	ide of the	e study	area wh	ich may l	e effect	the stu	dy areas	use				
Weakness,	• Us	e of surv	eyors to	manua	lly track	/count p	articipar	nts reduce	es accur	асу																	
Challenges and	• hi	gh associ	iated cos	ts in tim	ne and m	naterials																					
Limitations	• Pa	rticipant	s change	es behav	ioural p	atterns	if they kr	now they	are follo	owed. Th	erefore :	studies i	ո which բ	people a	ire asked	d to unde	rtake r	outine be	ehaviour	may not	depict a	actual pe	erception	s, activiti	es or ch	aracterist	tics
	_	nich wou			•																						
Implications for		•		_		_		architect			-									•			to shape	redesig	n, auditii	ng and	
landscape architects								n and plai							ed in this	study in	cluding	case stu	dies and	behavio	ural ma	pping.					
Ability to distinguish	-			i	•	only. All	•	otential u				egitimat	e Publics					T						1			
typology of publics	The De	fined Pu	blic	Yes				The App	ropriatii	ng Public	No			Th	ne Transi	itory Publ	lic	No			The	Illegitim	nate Publ	ic Y	es		
Ability to distinguish	Site sp	ecific. No	distinct	ion bet	ween pu	ıblic spa	ce typolo	gies																			
public space	<u> </u>	& Garder		lo	- 1		reets &	<u> </u>	No			Plazas 8	Squares	s No	0		Wa	terfronts		No		(Commerc	ial Space	es No		
typologies						Pr	omenade	es					4							-				- 1			

Walk-by Observations	Assessment approach		Assess	sment u	sers		Data collect	ted	Conce	pts meas	sured															
Also known as Staying Activities, Activity Counts, Staying Counts, Stationary Mapping and Behavioural Mapping	Descriptive inventory Expert panel Public preference approach	Descriptive inventory - Design approach	Governments (local, state, federal)	Researchers	Designers/practice	community	Subjective	Objective	Access	Residential grain/neighbourhood	Size (scale, human scale)	Transport environment (quality and quantity)	Ecological structures	Morphologically	Historical interpretation	Land use	Views	Amenities	Public life (types of active use)	Landscape characteristics	Architectural characteristics	Safety	People	imageability	enclosure	transparency
	Х	х	х	Х	х	х		Х	х	Х	х	х	х			х		х	х	х	Х	х	х			Х
Description	Walk-by observ failure of public			etermin	e how m	any peor	ple use p	ublic spa	aces and	how the	y use it.	This met	hods is	frequent	t and sys	tematio	, gatheri	ng quant	itative d	ata usec	l to justii	fy improv	/ements	and eva	aluate suc	cess or
Aim	Determine how	•		se public	c spaces	and how	/.																			
Method	This technique i			•	•			ten or f	ifteen m	inutes, o	nce an h	nour, to g	ain a ra	ndom sa	ample to	calcula	e activit	ies under	taken p	er hour a	and com	plied to r	provide d	lata for	the dav b	V
	counting the nu predefined che	umber o	of people	underta	aking par	ticular a	ctivities a	at a give	n timefra	me. Sch	weizer (2005) res	•		•										•	,
Strengths	Allows for a	compar	risons of t	the diffe	rence be	etween v	olume aı	nd use o	n selecte	d days a	nd durir	ng events	providi	ng data i	for asses	sments	of pedes	strian act	ivity in t	he city						
	Allows for a	assessn	nents to	determiı	ne the su	iccess of	events a	nd infor	m decisi	ons abou	ıt urban	planning	and ma	nageme	ent											
	 Collected d 	data car	n be coml	bined wi	th static	map dat	tabases, v	weather	informa	tion, eve	nt calen	dars and	other i	nformati	ion, to pr	rovide d	ata on cı	owd leve	els of pu	blic spac	e and pr	edictions	s of how	those le	evels will o	change.
	 Low costs a 	and low	staff req	quireme	nts																					
	 Site focuse 	ed																								
Weakness, Challenges and Limitations	 Outside inf Can miss di Timeframe Occurs in li Requires re Counts are Counts are Studies are A number of To obtain a Omission o Omission o Omission o Omission o 	ramatic es are of imited vesults to etypical etypical et based of studi an accur of geogr of tempor	t but shor ften struct weather of the exact ly not unt on assunt es review rate pictut raphical coral chan ge of eve	rt chang ctured a condition ct as sma dertaken dertaken ptions ved have ure, stud classificatinges ents	es in ped round ga ns Ill inaccu n when e n on sun of times e collecte lies need	lestrian vining the racies invevents, fedays, mopeople wed data fed	volumes e e desired validate i estivals o ondays or will use p ocusing o	results results r public r fridays ublic spa	shops clo holidays ace thus one seaso	occur results alon. Thus	re limite results a	d to expe	ected pa true ref	itterns o	of use and	d not th	e quirks	which co	me with	weathe		me				
	Methodolo				d and ra	rely prov	vide enoi	igh info	rmation	o extran	olate to	weekly	monthly	or anni	ual volun	nes										
Implications for landscape architects	The use of walk Results can sho planning and de procedures and	k-by me ow high esign fo	thods and use and or compar	d the im range of rative sit	plication activitie es durin	ns for lan s but doo g the pla	dscape a es not ne	rchitect:	s in desig y mean a	n and re	search a	are wide vibrant e	ranging. nvironn	This tec	chnique e provided	establisl the pur	pose of	the trip a	nd stayi	ng activi	ties. Find	dings hav	e the po	tential 1	o shape p	ohysical
Ability to distinguish	Considers demo						tential u	sers are	classed	as the Ille	egitimat	e Publics														
typology of publics	The Defined Pu		Yes		7		The App			_	<i>5</i>			ne Transi	itory Pub	olic	No			The	Illegitim	nate Publ	lic Y	es/es		
Ability to distinguish	Site specific. No	o distino	ction bety	ween pu	ıblic spac	e typolo	gies			1							II.			1			I			
public space typologies	Parks & Garden		No		Str	eets &		No			Plazas 8	Squares	, N	0		Wa	terfronts	;	No		(Commerc	cial Space	es No)	

Appendix 2.C

Detailed overview of interview methods

The following subsections present a detailed overview of observation methods outlined in Chapter Six subsection 6.1.2 Interview Methods outlining the strengths, Weakness, Challenges and Limitations, ability to distinguish between public space typologies and ability to distinguish between typologies of publics.

The interview methods detailed below represent methods applicable for assessing uses and appreciation of urban public space within Landscape Architecture and not a comprehensive list of all Interview methods.

Interview methods - qualitative

Design Workshops Also known as Focus	Assessmen approach	t	Asses	sment us	ers		Data collecte	ed .	Conce	pts mea	sured															
Groups And Community Engagement	Descriptive inventory Expert panel Public preference approach		Governments (local, state, federal)	Researchers	Designers/practice	community	Subjective	Objective	Access	Residential grain/neighbourhood	Size (scale, human scale)	Transport environment (quality and quantity)	Ecological structures	Morphologically	Historical interpretation	Land use	Views	Amenities	Public life (types of active use)	Landscape characteristics	Architectural characteristics	Safety	People	imageability	enclosure	transparency
)		Х		X		Х	Х	Х		Х	X	Х		Х							Х	Х	X	Х	Х
Description	Design wor				-							-										-	-			
	depth pers		_				-				_	-		-	-		-			_			_			_
	public and								Dy I Olsy	tii et ai.	(2006,	2010) 13 (i iiipoi	tarice to i	ecogins	e arciii	tects (or c	iller de	sign disci	piiries) v	iews ab	out build	iligs ale u	merent	to the g	Cilciai
Aim	Represent				•		-		heir view	s and b	ecome p	oart of th	e desigr	process.												
Method	Open form	at is facilit	ated by or	ne persoi	n to allov	w for wid	e ranging	conver	rsations,	for all m	nembers	of the w	orkshor	to contr	ibute, ke	eep the	conversa	tions or	n topic an	d for pa	rticipant	ts to build	d on comr	nents (F	orsyth e	t al.,
	2008, 2010	•				•			•		•			•		•				•				_		
	workshops	-				-	_		_	-	-					-						-	_			
	participant	-				-					-	_	-		_					orates a	it least o	one other	method	and are	not limit	ted by
Character -	score sheet		-			•		n open	format t	o focus p	participa	ants and	build ca	pacity am	ong the	public	to discuss	design	•							
Strengths	•	es a broad		ti-faceted	d view of	an envir	onment																			
		res attitud ounded an		h noreno	ctivo can	ho obtai	nod																			
		on both st	-					allowing	them to	n raise o	ther issi	IES														
		oup forma	_		_			_	s tricin to	raise o	11101 1330	<i>a</i> C3														
	_	assessed o	-	-					d informa	ation and	d small s	scale urb	an desig	n and pla	nning in	terven	tions to fo	ormulate	e priority	activitie	s. progra	ams and	communit	v vision	ıs	
Weakness, Challenges		ctural des	-					_						-					- 17		-/ 0			,		
and Limitations		f preparat	_				•		•		,		•		•											
	• Not su	ited for a	systematio	assessm	nent																					
	 Conter 	t validity	concerns ((Balram 8	& Dragiće	ević 2005)																			
		selection																								
		landscape				_	-		-	-		nor. Thes	e limitat	ions are t	the same	e for dis	sciplines s	uch as p	osycholog	gy and so	ciology	among o	thers. Ho	wever u	nlike	
		ape archit		-						-				10.2												
		ptions of sompt the									-					•			•	_		•		oncina	rocoarch	
	•	nes. Simpl	•	_	•		-	•	•	•		i S Dias C	an unco	risciousiy	iiiiueiic	e stuu	y participa	ants res	uitilig ili e	expectan	icies reg	arung re	Suits IIIIu	ending	research	1
Implications for	The implica		_ ·		-	-		-				mal to n	o resulti	ng implica	ations of	studie	s where ir	nformat	ion gaine	d is to si	upport a	particula	ar point of	view. ł	nowever	. if the
landscape architects	finding are		-				-		-										_			-	-			
	Design wor	kshops inf	orm priva	te practi	ce and a	dvance th	ne discip	ine of la	andscape	archite	cture ar	e those	which us	e a range	of tech	niques,	, tools and	l metho	ds outline	ed in this	s study i	ncluding	questionr	aire an	d visual	
	assessment																									
Ability to distinguish	As worksho																			focuses	on one	space or	demogra	ohic of p	participa	nts
typology of publics	only thus th			•	cs is limit			-			ate pub	ic. All ot					_	itimate	Publics.		111- ***					
	The Define	d Public	Yes	5			The Appr	opriatin	g Public	No				he Transit	tory Pub	lic	No			Ine	Illegitim	nate Publi	ic Ye	S		
Ability to distinguish	Site specific	No distin	oction het	Ween nu	hlic snac	e typolog	zies																			
public space	Parks & Ga		No	ween pu		e typolog	5163	No			Plazac	& Square	s N	0		\\/\>	terfronts		No		(Ommerc	ial Spaces	No		
typologies	, and a da	GC113	.10			menade:	S	10			. 14243	~ oquuic		•		vva			110		'		iai opaces	.,,		
710	J				110			1											1							

Discussion Groups	Assessment	approach	Assess	ment us	ers		Data collect	ed	Conce	pts measu	ıred															
	Descriptive inventory Expert panel	Descriptive inventory - Design approach	Governments (local, state, federal)	Researchers	Designers/practice	community	Subjective	Objective	Access	Residential grain/neighbourhood	Size (scale, human scale)	Transport environment (quality and quantity)	Ecological structures	Morphologically	Historical interpretation	Land use	Views	Amenities	Public life (types of active use)	Landscape characteristics	Architectural characteristics	Safety	People	imageability	enclosure	transparency
	х		Х	Х		Х	х	Х	Х		Х	Х	х		х	Х	Х	Х	Х	х	Х	Х	Х	х	Х	х
Description	Discussion g				-						compre	ehensive a	nd mult	tifacete	d assess	ments c	of enviro	nments,	which ur	ndertake	n correct	ly can ca	apture a	well-rou	nded an	d in-
Aim	Represent a	II members	of the c	ommuni	ty allowi	ng parti	cipants to	o voice t	heir viev	WS.																
Method	Open forma	t is facilitat	ed by on	e persor	n to allov	v for wid	de rangin	g convei	rsations,	, for all me	mbers	of the wor	kshop to	o contr	ibute, k	eep the	conversa	ations or	n topic ar	d for pa	rticipants	to build	d on com	ments (I	Forsyth e	et al.,
	2008, 2010)	. Outcomes	are tran	scribed,	assesse	d and pr	rovided a	s an end	report.																	
Strengths	ParticipAnalysisCan beTypicall	y involves v	curately ine secor visual me	reported ndary dat thods/ad	d their cl ta source ctivities	nange o es such as	f behavio mapping	ur																		
Weakness, Challenges	-	mpt the re	-	_	-		-	-	-	-		's bias can	uncons	sciously	influen	ce study	particip	ants res	ulting in e	expectar	icies rega	irding re	sults infl	uencing	research	ו
and Limitations		es. Simple	-		=	-	-		-		•															
		preparatio selection o									munity	tako nart	vat dat	tailad n	lanning	nrocess	oc raroly	recult in	discussi	on group	oc renrec	enting al	ll commi	ınity me	mhers	
		ge in gainir	-		=						-	=	-	=	_	processi	es rarely	result ii	i uiscussi	on group	os repres	enting at	ii comini	inity me	IIIDEIS	
		y to Design					_		-				-			a skewe	ed data s	roup in	stead of a	eneralis	ed repre	sentatio	n publics	i.		
		of results a		-								-			-		_		_				радио			
	•	specific que							•		•		_	•		- '	-									
Implications for	The implicat	tions for lar	ndscape a	architect	s are rel	ated to	the objec	tive of t	he study	. There ar	e minin	nal to no re	esulting	implica	ations o	f studies	where i	nformat	ion gaine	d is to s	upport a	particula	ar point o	of view, l	however	, if the
landscape architects	findings are discussion g				_	-			_		-	-		-	_	_			_	-	_	design p	hases of	projects	s. Succes	sful
Ability to distinguish	Considers de	emographi	of parti	cipants c	only. Unl	ess spec	cific quest	tions are	asked r	egarding s	specific	typologies	all othe	er pote	ntial use	ers are c	lassed as	the Ille	gitimate	Publics.						
typology of publics	The Defined	l Public	Yes				The Appı	opriatin	g Public	No			The	Transit	tory Pub	olic	No			The	Illegitima	ate Publi	c Y	es		
Ability to distinguish	Typically site	e-specific tl	nerefore	unless s	pecific q	uestions	s are aske	d regard	ding spec	cific public	space	typologies	no com	nparisor	n betwe	en publi	c space	typologi	es can oc	cur.			I.			
public space typologies	Parks & Gard		No		Stre	eets &		No	<u> </u>		•	Squares	No				erfronts		No		С	ommerc	ial Space	s No		

Interviews	Assess	ment ap	proach	Assess	ment us	ers		Data		Conce	epts mea	asured																
(unstructured)								collect	ted																			
	Descriptive inventory Expert panel	Public preference approach	Descriptive inventory - Design approach	Governments (local, state, federal)	Researchers	Designers/practice	community	Subjective	Objective	Access	Residential grain/neighbourhood	Size (scale, human scale)	Transport environment (quality and quantity)	Ecological structures	Morphologically	Historical interpretation	Land use	Views	Δmonifies		Public life (types of active use)	Landscape characteristics	Architectural characteristics	Safety	People	imageability	enclosure	transparency
	x	х	x	x	Х	х		x	Х		Х		X	Х		Х								х	x	x		х
Description		•				•			•	•		•	ensive and r	nultifa	ceted as	sessme	nts of e	nvironm	nents. \	Vhen เ	underta	aken cor	rrectly in	terviews	s can cap	ture a w	ell-roun	ded
Aim			erspectiv nts to vo					tional ted	chnique	s discuss	ed abov	e.																
Method								nd for nar	ticinant	ts to build	d on con	nmants	. Outcomes	are tra	anscribe	d 20000	hne has	nrovide	nd ac ai	n and r	enort							
Strengths								-					es into phy					-			-	n-nhvs	ical reac	tions no	rcention	of space	<u> </u>	
Strengths				-	-	-		of behavio	_	use or av	oldance	от зрас	es into priy	sicai ci	iaracteri	sation,	sucii as	too ma	cii vege	tation	and no	Jii-piiy3	icai i cac	tions per	гсерион	or space	•	
		•	ın combi	•	•		_																					
		n be sta			, ,																							
Weakness, Challenges	• Ca	ın promp	the res	ults by l	eading t	he parti	cipant (S	Subjective	e Expec	tancy Eff	ect). A r	esearch	er's bias ca	n unco	nsciousl	y influe	nce stud	ly partio	ipants	resulti	ng in e	xpectan	icies reg	arding re	sults inf	luencing	research	h
and Limitations	οι	itcomes.	Simple p	rocesse	s can lea	ad partic	ipants b	y creatin	g prede	efined exp	pectatio	ns.																
		-	-		_	_	_	efore the																				
		_	_					_		-			n low levels		-													
		•	_										Participant			•			• .		_		ed repre	sentatio	n public	S.		
		-			-		-		-	-		-	rtant for mi				regardi	ng resul	ts and	resear	ch out	comes.						
Implications for			•										ant on the p nimal to no				of ctudio		o infor	matian	aninna	d ic to co	innort o	narticul	or noint	of vious	harrara	r if tha
landscape architects		•		•				-			•		ntial to no		• .						_			•	•	-		-
landscape architects	_					_	-			_		-	e those wh		-	_	_				_	-	iiig aiiu	uesigii p	Jilases U	i project	s. Jucces	ssiui
Ability to distinguish				•	•								ate Publics.						.,									
typology of publics		efined Pu		Yes				The App						TI	he Trans	itory Pu	ıblic	No				The	Illegitim	ate Publ	ic Y	'es		
Ability to distinguish	Site sp	ecific. No	o distinct	ion betv	een pu	blic spac	e typolo	ogies																				
public space	Parks 8	& Garder	ns N	lo		Str	eets &		No			Plazas	& Squares	N	0		Wa	aterfron	its	N	lo		C	ommerc	ial Space	es No		
typologies						Pro	menad	es																				

Combined qualitative and quantitative

Interviews	Assess			Assess	ment us	ers		Data		Conce	ots meas	ured															
(structured)	approa	ach					I	collect	ed		1		1	1	1	1		1	1	1	1	1	1	1	ı	I	
	Descriptive inventory Expert panel	Public preference approach	Descriptive inventory - Design approach	Governments (local, state, federal)	Researchers	Designers/practice	community	Subjective	Objective	Access	Residential grain/neighbourhood	Size (scale, human scale)	Transport environment (quality and quantity)	Ecological structures	Morphologically	Historical interpretation	Land use	Views	Amenities	Public life (types of active use)	Landscape characteristics	Architectural characteristics	Safety	People	imageability	enclosure	transparency
	X	Х	x	Х	Х	X		x			Х		Х			Х							Х	Х	Х	Х	Х
Description	Structi	ured inte	rviews p	rovide 1	x1 focus	ed but c	ompreh	ensive dis	scussion	s of publ	lic space	to aide	compreh	nensive a	and mult	ifaceted	assessm	ents of	environn	nents. W	hen und	lertaken	correctly	, intervi	ews can	capture a	a well-
			n-depth p					observat	ional te	chniques	s discuss	ed abov	е.														
Aim		•	nts to vo																								
Method			mat with																								
Strengths			ontent ar	•	•	-		_	_	se or avo	oidance o	of spaces	into ph	ysical ch	aracteris	sation, su	ich as to	o much	vegetati	on and n	on-phys	ical reac	tions pe	rception	of space	! .	
			ts can ac	•	•		_	behavio	ur																		
		naiysis ca in be sta	an combi	ne secor	idary dai	a sourc	es																				
Weakness, Challenges	4		ot the res	rulte by l	oading t	no narti	sinant (S	uhioctivo	Evnocta	ancy Effo	oct) A ro	coarchou	's bias s	an unco	accioncly	, influenc	so study	narticin	ants rosi	ulting in a	ynoctar	ocios rog	arding re	sculte inf	luoncing	rocoard	
and Limitations			. Simple p	-	_	-		-	-	-			3 Dias C	all ulico	isciousiy	/ IIIIIueiic	Le study	particip	ants rest	iitiiig iii t	expectar	icies reg	arunig re	suits iiii	iuencing	researci	ı
and Emiliations			eparation			-	-	-		-	cetation	J.															
			in gainin	-	_	_	_				able if ba	ased on l	ow leve	s of resp	ondents	5											
		_	t selectio					_		-				-													
		-	results a		-		_	-	_		-		-		ng expect	tancies r	egarding	g results	and rese	arch out	comes.						
	• Ui	nless spe	cific que	stions ar	e asked	regardir	ng specif	ic items/	<u>element</u>	s, the re	searcher	is reliar	t on the	particip	ant resp	onses											
Implications for		•	ns for lan	•				-		-										_			•	•	-		
landscape architects	_		be used			_	•			_		•			•	_	_			_		ning and	l design p	hases o	f project	s. Succes	sful
			ch inform	-	-			-		-					ure a cro	ss sectio	n of con	nmunity	take par	t and are	e heard.						
Ability to distinguish			ographic	of partio	cipants c	nly. All						egitimat	e Publics														
typology of publics	The De	efined Pu	ıblic	Yes				The Appr	opriatin	g Public	No			Th	e Transit	tory Pub	lic	No			The	Illegitim	ate Publi	ic Y	es		
Ability to distinguish	Site sp	ecific. N	o distinct	ion betv	veen pub	olic spac	e typolo	gies.			1																
public space		& Garde		lo	•		eets &		No			Plazas &	Squares	s No)		Wate	erfronts		No		С	ommerc	ial Space	es No		
typologies						Pro	menade	!S																-			

Self-reporting (diaries/noting)	Assessi approa			Assess	ment us	ers		Data collect	ed	Concep	ots meas	sured								ı							
	Descriptive inventory Expert panel	Public preference approach	Descriptive inventory - Design approach	Governments (local, state, federal)	Researchers	Designers/practice	community	Subjective	Objective	Access	Residential grain/neighbourhood	Size (scale, human scale)	Transport environment (quality and quantity)	Ecological structures	Morphologically	Historical interpretation	Land use	Views	Amenities	Public life (types of active use)	Landscape characteristics	Architectural characteristics	Safety	People	imageability	enclosure	transparency
		Х	х		Х			х			Х		Х			х							х	х	х		
Description	Self-rep	oorting r	notes de	tails and	nuances	s about i	nteractio	on of use	rs in pul	olic space	e to incre	ease kno	wledge a	about hu	ıman bel	haviour.											
Aim	Registe	r details	and nua	ances ab	out inte	raction o	f users i	n public s	space.																		
Method	Self-rep	porting r	notes ob	servation	ns in rea	l-time ar	ıd syster	matically.	The ob	server no	tes anyt	hing of	relevanc	e adding	gexplana	ations or	brief nar	rratives.									
Strengths	• W	hen com	bined w	ith surve	ys (stree	et visitor	, trader	and custo	omer su	rveys) an	d other	method	s combir	ed to ca	pture m	ode of tr	avel, dis	tance w	alked, ac	tivities a	nd lengt	h of stay	/ Self-rep	orting c	an collec	t human	1
	pa	tterns of	f use.																								
	• Pre	esents re	eal-time	data																							
	• Re	gisters e	events w	hich canı	not be e	asily doc	umente	d using o	ther me	thods																	
	• Co	mbines	objective	e and sul	jective	data																					
Weakness, Challenges	• Ch	allenge i	in gainin	g enougl	n data fo	r accura	te findir	ngs																			
and Limitations		•		impressi																							
		-			-			collected																			
		-	-	n and bri	efings to	train ol	servers																				
			ormality																								
								nly consi	• .																		
								t to repoi																			
Implications for		-		•				-		•					• .	ations of					•		•	•			-
landscape architects		_				_	-			_		-			-	ning and	_			_	ne plann	ing and	design ph	nases of	projects	. Success	sful
		-		-	-									which us	se a rang	e of tech	niques,	tools an	d metho	ds.							
Ability to distinguish						betwee		ogies of p					ver											<u> </u>			
typology of publics	The De	fined Pu	ıblic	Yes,	'no			The Appr	opriatin	g Public	Yes/n	0		Th	ie Transi	tory Publ	ic	Yes/no			The	Illegitim	ate Publi	С	es/no		
Ability to distinguish	Site spe	ecific. No	o distinct	tion betv	veen pu	blic spac	e typolo	gies																			
public space	Parks 8	k Garder	ns N	No.		Stre	eets &		No			Plazas &	Squares	s No)		Wate	erfronts		No		С	ommerci	ial Space	es No		
typologies						Pro	menade	es											_								

Interview - quantitative methods

Interviews	Assessr approa			Assessi	ment use	ers		Data collect	ed	Concept	s meas	ured															
	Descriptive inventory Expert panel	rence approach	Descriptive inventory - Design approach	Governments (local, state, federal)	Researchers	Designers/practice	community	Subjective	Objective	Access	Residential grain/neighbourhood	Size (scale, human scale)	Transport environment (quality and quantity)	Ecological structures	Morphologically	Historical interpretation	Land use	Views	Amenities	Public life (types of active use)	Landscape characteristics	Architectural characteristics	Safety	People	imageability	enclosure	transparency
	Х	Х	х	Х	х			Х			Χ		Х			х							х	Х	Х	Х	x
Description										space to a			sive and	multifa	ceted as	sessme	nts of en	vironmen	ts. Whe	n undert	aken cor	rectly in	terviews	s can cap	ture a w	ell-round	ded
Aim			-							discussed s/space/el																	
Method		•					•			scribed, as			vided a	s an end	report												
Strengths										ise or avoid		•				sation	such as t	oo much	vegetatio	on and n	on-nhvs	ical reac	ions ne	rcention	of snace	<u> </u>	
Strengths		ticipants								isc or avoid	dance c	л зрасс.	into pi	y sicar cr	aracteri	Julion,	sacii as t	oo macn	vegetati	on and n	on phys	icai i cac	.10113 pc	гесрион	or space		
		alysis can		•	•		_		.																		
		tures a b			-			ronment																			
	• Tim	ne efficier	nt																								
	• Wh	en assess	sed corr	ectly co	llected d	ata can	be usef	ul for bac	kground	d informat	ion and	d small s	cale urb	an desig	n and pl	anning	intervent	ions to fo	rmulate	priority	activitie	s, progra	ms and	commun	ity visio	ns	
Weakness, Challenges	• Car	prompt	the resi	ults by le	eading th	e parti	cipant (S	ubjective	Expect	ancy Effec	t). A re	searcher	's bias c	an unco	nsciousl	y influe	nce study	/ participa	nts resu	Iting in e	xpectan	icies rega	arding re	esults infl	uencing	research	h
and Limitations										fined expe	ctation	S.															
		ot of prep												_													
		_		_				_		questional				-	ondent	S											
		-					_	-	_	generalised cipant sele	-		-			tansias	rogordin	a roculto	and raca	arab aut							
		-			-		-		-	ts, the rese		-					regarum	g resuits	and rese	arch out	comes.						
Implications for										the study.							of studies	s where ir	formati	nn gaine	d is to si	ınnort a	narticul	ar noint o	of view	however	r if the
landscape architects				•				-		Findings h										_			•	•			-
										ndscape ar															J J		
Ability to distinguish	Ability t	o distingu	uish bet	ween ty	pologies	of pub	lics is de	termined	by the	questions.																	
typology of publics	The Def	ined Publ	lic	Yes/	'no			The Appr	opriatir	ng Public	Yes/n	0		Th	ne Transi	itory Pu	blic	Yes/no			The	Illegitima	ate Publ	ic Ye	es/no		
Ability to distinguish	Site spe	cific. No o	distincti	ion betw	een pub	lic spac	e typolo	gies		'				•				•						•			
public space	Parks &	Gardens	N	0		Str	eets &		No			Plazas &	Square	s No	ס		Wat	terfronts		No		С	ommerc	ial Space	s No		
typologies						Pro	omenade	es																			

Surveys	Assessment	А	ssessmen	tusers		Data	Co	ncepts me	easured															
(postal, phone, online	approach					collecte	d																	
or in person)																								
	nventory E	Descriptive inventory - Design approach	Governments (local, state, federal) Researchers	Designers/bractice	community	Subjective	Objective	Residential	grain/neighbourhood Size (scale, human scale)	Transport environment (quality and quantity)	Ecological structures	Morphologically	Historical interpretation	Land use	Views	Amenities	Public life (types of active use)	Landscape characteristics	Architectural characteristics	Safety	People	imageability	enclosure	transparency
	х	х	х х			x	х	Х	х	Х			х							х	х	х		
Description	Surveys are typic	cally used	to gain da	ta on pe	erceptions o	r activities	associated	with time	of day, pl	nysical la	yout, en	vironme	ntal char	acterist	ics and so	cio-dem	ographic	profiles	5.		'		"	.41
Aim	Investigate indiv									,	, ,						<u> </u>							-
Method	Surveys contain					ng for the	same data	to be collec	cted from	a large	number	of people	e in the s	ame ma	nner for a	analysis	quantita	tively.						
Strengths	Key method	and tool	to identify	conditi	ons, demogi	raphics an	d activities	associated	with emo	tion or	activity													
	 Quantifiable 	styles of	survey des	ign pro	vide decisio	n makers v	with a leve	of informa	ation to m	ake chai	nges or c	onfirm a	desired	result										
	 Used for cor 		-	-		nd catego	rising use o	r avoidanc	e of space	s into p	hysical cl	haracteri	isation, s	uch as to	oo much י	vegetati	on and n	on-phys	ical reac	tions pe	rception	of space	·.	
	 Analysis can 																							
Weakness, Challenges	 In-person su 	=	-		=		-		-	pecause	of appro	paching p	articipan	its at lo	cations as	sessed.								
and Limitations	To avoid cor			-	-		ed to colle	ct the data																
	Challenge in		_			_		6.1																
	Similarly to I	_	' - '	nd Com	munity enga	agement ti	ne presenc	e of the ma	ajority voi	ce over r	ninor is a	a limitati	on.											
	based on pe		-	مدامامه	ما دماند مادم	-f	مرم جامر																	
	A lot of prepRelies of for		rietings ar	ia data	gathering be	erore work	snop																	
	Not suited for	' - '	matic assa	ccmant																				
	Reliant selection	=		331110111																				
	Assumptions		=	a cross	section of co	ommunity	take part.	vet detailed	d planning	process	ses rarely	v result ir	n a repre	sentatio	on of all co	ommuni	tv memb	ers						
	A number of					·-	-		-	-		-	-				-		hich mi	x vulnera	ability an	d risk wi	th respec	ct to
	participants																							
	quantifiable	. How qua	antifiable e	motion	al reactions	truly are s	hould be o	uestioned	in studies	which ir	nterpret	qualitativ	ve data											
	 Surveys can 										r's bias o	can unco	nsciously	influen	ce study	participa	ints resu	lting in e	xpectan	icies rega	arding re	sults infl	uencing	
	research out								-															
Insuliantian f	Statistically The implications			•									•		a de ! = !	f · · ·				.		·	. h - ·	:£
Implications for	The implications		-			-		-										-		-	-			
landscape architects	the finding to be Surveys which in																uuring ti	ie higiili	ing and	uesigii pi	iiases Uī	projects.	. Success	iui
Ability to distinguish	The ability for Su																are una	hle to di	stinguis	h hetwe	en tynolo	ngies of r	nublics	
typology of publics	The Defined Pub		Yes/No	~C.WCC			priating P		/No	011			itory Pub		Yes/No		, are aria			ate Publ		es/No	, a b 11 c 3	
,,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	e Definica i ab		103/140			тте дррге	Princing I		,		'		.cory r ub		1 23/140			1110		ate i ubi	.~ '	23/140		
Ability to distinguish	Site specific. No	distinctio	n between	public	space typolo	gies		<u> </u>							1			1			<u> </u>			
public space	Parks & Gardens				Streets &		No		Plazas 8	& Square	es N	lo		Wat	erfronts		No		C	Commerc	ial Space	es No		
typologies					Promenade	es																		

Questionnaires (postal, online or in person)	Assess approa		As	sessment u	sers		Data collecte	ed	Concepts	s meas	sured															
	Descriptive inventory Expert panel	Public preference approach	approach Governments (local, state.	federal) Researchers	Designers/practice	community	× Subjective	× Objective	Access	 Residential grain/neighbourhood 	× Size (scale, human scale)	 Transport environment (quality and quantity) 	Ecological structures	Morphologically	× Historical interpretation	Land use	Views	Amenities	Public life (types of active use)	Landscape characteristics	Architectural characteristics	× Safety	× People	× imageability	enclosure	transparency
Description	Questi	onnaire tecl	hniques a	re typically	used to a	gain data	^	ntions o	or activities	s assoc	ciated wi	th time	of day, r	hvsical I	avout. e	nvironm	ental cha	racterist	ics and s	socio-de	mograpi	nic profile	es. The u	use of on	en ende	d
Beschption		onnaires allo																								II.
		and the rela					•																			
Aim		ng participar																								
Method		onnaires are				_				ed fron	m a large	e numbe	er of peo	ple in th	e same r	manner f	or analy	sis quant	itatively,	, system	atically o	or open e	ended. N	lany que	estionnai	re
<u> </u>		incorporate																								
Strengths		sed for cont	-	-	-		_	_			-	-	iysical ch	naracteris	sation, s	uch as to	o much	vegetation	on and n	on-phys	ical reac	tions per	rception	of space	2.	
		lf-reporting	-		-		-	-		_	pehaviou	r														
		nalysis can c		-			_		-	aire																
		ombination of	-	enaea quest	onnaire	and Liker	t or Bi-po	olar ratii	ngs																	
		n be staged		ach alaman	as indo	oondont a	f +b 0 0+1	hore																		
		ting methoo inking meth							ocause of the	ho fact	t that in	tha ranl	ing mot	had race	aandant	c ancwo	c octabli	ch ardin	al difforo	ncoc ov	on if nort	ticinants	do not c	doarly n	arcaiva th	2000
		fferences as	-			es tilali i a	ting me	illous be	cause of the	ile laci	t tilat ili	lile raili	ang met	iiou, resp	Jonaent	s allswei	s establi	SII OI UIII	ai uiiieie	iices eve	en n pan	licipants	uo not c	learly pe	erceive ti	iese
Weakness, Challenges		nallenge in g	•			ate finding	75																			
and Limitations		ata from que	_	_			_	vels of r	espondent	ts																
		articipant se		-					-		sentatio	n public	S.													
		alidity of res		-		_	-	_		-		-		ng expec	tancies r	regarding	results	and rese	arch out	comes.						
		elies of form		=				•	•		•			0 1			,									
		election of it	-		_	y attitude	s and sp	atial env	vironments	s (Balra	am & Dr	agićević	2005)													
		nless specific				-	-			-		_	-	ant resp	onses											
	• Dr	awback of I	ikert scal	e is the num	ber of u	ndecided	answers	(Balram	n & Dragiće	ević 20	05) of ar	n item c	an chang	ge the sig	nificanc	e in the	data and	remove	it from a	nalysis						
	• Bi	-polar rating	gs capture	e macro me	sures m	issing mic	ro meas	ures and	d tempora	ry char	nges to ι	ise or a	tivity													
	• Se	lf-reported	data, suc	h as questic	nnaires	are often	subject t	o repor	ting errors	, requi	ire caref	ul wordi	ng of set	t tasks												
Implications for		plications fo		•			•		•					· .						•		•	•		•	
landscape architects		dings to be			_	-			_		-			-	_	_			_	he plani	ning and	design p	ohases o	f project	s. Succes	ssful
		onnaires wh							•					h use a ra	ange of t	techniqu	es, tools	and met	hods.							
Ability to distinguish		ility for Que		es to disting	uish bet			•				d quest														
typology of publics	The De	efined Public		Yes/No		Т	he Appr	opriatin	g Public	Yes/N	lo		Th	ne Transi	tory Pub	olic	Yes/No			The	Illegitim	ate Publi	ic Y	es/No		
Ability to distinguish	Thoras	ility for O	stionnair	oc to distin	uich hat	MOOD 21:1	die enas	tunala	gios is influ	ıonssəl	l by colo	stad av	octions													
Ability to distinguish		oility for Que					nic space							- A / N.I -		14/-:	t	ı	V /N				ial C	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	/NI =	
public space typologies	Parks 8	& Gardens	Yes/I	VO		eets &		Yes/N	U		Plazas &	square	S YE	es/No		wat	erfronts		Yes/No			ommerc	iai Space	es yes,	/No	
cypologies	<u> </u>				Pro	menades)																			

Appendix 3

Design assessment framework approach selfadministered questionnaire surveys

The research approach used to develop the Design Assessment framework combined desk top studies, field assessments and self-administered questionnaire surveys. Two self-administered questionnaire surveys were distributed to gather Landscape Architects and related Design disciplines views of Public space and assessment processes. Questionnaire design was based on cross-sectional survey design to prevent personal bias influencing respondents. Participants were selected from disciplines of Landscape Architecture, Urban Design and Architecture. All participants were contacted through correspondence sent to the Australian Institute of landscape Architects, Architects Institute of Australia and New Architects Group for distribution to members. Questionnaires were distributed between November 2012 and December 2012. Limited responses were received and deemed invalid.

Appendix 3 expands on information presented in Chapter Six providing Ethics Clearance approvals and the self-administered questionnaire surveys.

Appendix 3.A

Ethics clearance



BEVERLEY DOBBS
EXECUTIVE OFFICER
LOW RISK HUMAN RESEARCH ETHICS REVIEW
GROUP (FACULTY OF HUMANITIES AND SOCIAL
SCIENCES AND FACULTY OF THE PROFESSIONS)
THE UNIVERSITY OF ADELAIDE
SA 5005
ALISTDALIA AUSTRALIA

TELEPHONE +61 8 8313 4725 FACSIMILE +61 8 8313 7325 email: beverley.dobbs@adelaide.edu.au

3 October 2012

Dr K Bartsch

School of Architecture, Landscape Architecture and Urban Design

Dear Dr Bartsch

ETHICS APPROVAL No: HP-2012-086

PROJECT TITLE: The Invisible Privatisation of Civic Space: Implications for the Landscape

Architect - Defining Civic Space

I write to advise that the Low Risk Human Research Ethics Review Group (Faculty of Humanities and Social Sciences and Faculty of the Professions) has approved the above project. The ethics expiry date for this project is 30 September 2015.

Ethics approval is granted for three years subject to satisfactory annual progress and completion reporting. The form titled Project Status Report is to be used when reporting annual progress and project completion and can be downloaded at http://www.adelaide.edu.au/ethics/human/guidelines/reporting. On expiry, ethics approval may be extended for a further period.

Participants in the study are to be given a copy of the Information Sheet and the signed Consent Form to retain. It is also a condition of approval that you immediately report anything which might warrant review of ethical approval including:

- serious or unexpected adverse effects on participants,
- previously unforseen events which might affect continued ethical acceptability of the project,
- proposed changes to the protocol; and
- the project is discontinued before the expected date of completion.

Please refer to the following ethics approval document for any additional conditions that may apply to this project.

Yours sincerely

ASSOCIATE PROFESSOR RACHEL A. ANKENY Convenor Low Risk Human Research Ethics Review Group (Faculty of **Humanities and Social Sciences and Faculty of the Professions)**



BEVERLEY DOBBS
EXECUTIVE OFFICER
LOW RISK HUMAN RESEARCH ETHICS REVIEW
GROUP (FACULTY OF HUMANITIES AND SOCIAL
SCIENCES AND FACULTY OF THE PROFESSIONS)
THE UNIVERSITY OF ADELAIDE
SA 5005
AUSTRALIA

TELEPHONE +61 8 8313 4725 FACSIMILE +61 8 8313 7325 email: beverley.dobbs@adelaide.edu.au

Applicant: Dr K Bartsch

School: Architecture, Landscape Architecture and Urban

Design

Application/RM No: 14131

Project Title: The Invisible Privatisation of Civic Space: Implications for the Landscape

Architect - Defining Civic Space

ETHICS APPROVAL No:

Low Risk Human Research Ethics Review Group (Faculty of Humanities and Social Sciences and Faculty of the Professions)

HP-2012-086

APPROVED for the period until: 30 Sep 2015

This study is to be conducted by Miss Janelle Arbon, PhD Candidate.

ASSOCIATE PROFESSOR RACHEL A. ANKENY Convenor Low Risk Human Research Ethics Review Group (Faculty of **Humanities and Social Sciences and Faculty of the Professions)**



BEVERLEY DOBBS
EXECUTIVE OFFICER
LOW RISK HUMAN RESEARCH ETHICS REVIEW
GROUP (FACULTY OF HUMANITIES AND SOCIAL
SCIENCES AND FACULTY OF THE PROFESSIONS)
THE UNIVERSITY OF ADELAIDE
SA 5005
ALISTDALIA AUSTRALIA TELEPHONE +61 8 8313 4725 FACSIMILE +61 8 8313 7325 email: beverley.dobbs@adelaide.edu.au

3 October 2012

Dr K Bartsch

School of Architecture, Landscape Architecture and Urban Design

Dear Dr Bartsch

ETHICS APPROVAL No: HP-2012-089

PROJECT TITLE: The Invisible Privatisation of Civic Space: Implications for the Landscape

Architect - Design Awards Criteria

I write to advise that the Low Risk Human Research Ethics Review Group (Faculty of Humanities and Social Sciences and Faculty of the Professions) has approved the above project. The ethics expiry date for this project is 30 September 2015.

Ethics approval is granted for three years subject to satisfactory annual progress and completion reporting. The form titled Project Status Report is to be used when reporting annual progress and project completion and can be downloaded at http://www.adelaide.edu.au/ethics/human/guidelines/reporting. On expiry, ethics approval may be extended for a further period.

Participants in the study are to be given a copy of the Information Sheet and the signed Consent Form to retain. It is also a condition of approval that you immediately report anything which might warrant review of ethical approval including:

- serious or unexpected adverse effects on participants,
- previously unforseen events which might affect continued ethical acceptability of the project,
- proposed changes to the protocol; and
- the project is discontinued before the expected date of completion.

Please refer to the following ethics approval document for any additional conditions that may apply to this project.

Yours sincerely

ASSOCIATE PROFESSOR RACHEL A. ANKENY Convenor Low Risk Human Research Ethics Review Group (Faculty of **Humanities and Social Sciences and Faculty of the Professions)**



BEVERLEY DOBBS
EXECUTIVE OFFICER
LOW RISK HUMAN RESEARCH ETHICS REVIEW
GROUP (FACULTY OF HUMANITIES AND SOCIAL
SCIENCES AND FACULTY OF THE PROFESSIONS)
THE UNIVERSITY OF ADELAIDE
SA 5005
AUSTRALIA

TELEPHONE +61 8 8313 4725 FACSIMILE +61 8 8313 7325 email: beverley.dobbs@adelaide.edu.au

Applicant: Dr K Bartsch

School: Architecture, Landscape Architecture and Urban

Design

Application/RM No: 14155

Project Title: The Invisible Privatisation of Civic Space: Implications for the Landscape

Architect - Design Awards Criteria

Low Risk Human Research Ethics Review Group (Faculty of Humanities and Social Sciences and Faculty of the Professions)

ETHICS APPROVAL No: HP-2012-089

APPROVED for the period until: 30 Sep 2015

This study is to be conducted by Janelle Arbon, PhD Candidate.

ASSOCIATE PROFESSOR RACHEL A. ANKENY Low Risk Human Research Ethics Review Group (Faculty of **Humanities and Social Sciences and Faculty of the Professions)**

Appendix 3.B

Analysis and evaluation of civic space: implications for the landscape architect. Defining 'civic' space



Dear Respondent

Thank you for taking the time to participate in this questionnaire.

This questionnaire is being conducted as part of a PhD research study at The University of Adelaide in the School of Architecture Landscape Architecture and Urban Design.

The aim of the study is to analyse and evaluate perceptions of 'Civic' space.

The questionnaire should take **10-15mins** to complete. Please answer as many questions as you can to the best of your ability.

Attached for your information are the following documents

- Participant Information Sheet
- Consent Form
- Questionnaire

Participants are asked to return signed copies of the consent form and the completed questionnaire.

If you have any questions about this questionnaire, please contact the researcher carrying out the study by email: Janelle Arbon (janelle.arbon@adelaide.edu.au) School of Architecture Landscape Architecture and Urban Design at The University of Adelaide.

Thank you and regards,

Janelle Arbon PHD Candidate

School of Architecture, Landscape Architecture and Urban Design The University of Adelaide, SA 5005 AUSTRALIA

Tel: +61 8 8303 3702 Fax: +61 8 8303 4377

Email: janelle.arbon@adelaide.edu.au CRICOS Provider Code 00123M

This email message is intended only for the addressee(s) and contains information that may be confidential and/or copyright. If you are not the intended recipient please notify the sender by reply email and immediately delete this email. Use, disclosure or reproduction of this email by anyone other than the intended recipient(s) is strictly prohibited. No representation is made that this email or any attachments are free of viruses. Virus scanning is recommended and is the responsibility of the recipient

THE UNIVERSITY OF ADELAIDE HUMAN RESEARCH ETHICS COMMITTEE

PARTICIPANT INFORMATION SHEET



Project Title

Analysis and Evaluation of Civic Space: Implications for the Landscape Architect **Defining 'Civic' space**

Purpose and Aim of the study

The purpose of this study is to analyse and evaluate Civic Space. The aim of this study is to better understand perceptions of Civic Space.

This specific component of the project seeks to understand how Landscape Architects and related design professionals define Civic space.

Procedure involving the Participant

Participants are asked to respond to 15 questions. It is anticipated that this will take approximately 10-15 minutes. Participants will be asked two sets of questions. The first regards the participant's background and will provide statistical data for the study. The second set will focus on the definition of Civic space.

Participation is voluntary and the participant may withdraw at any time.

The identity of participants will remain confidential at all times. Name and contact details (if supplied) will be kept separate from all data, only the researcher and supervisor will be aware of who the data was obtained from. All participants will be referred to by pseudonym known only to the researcher and supervisor.

Please return the attached consent form with your completed questionnaire.

Outcome of the Study

The results from the questionnaire form an important part of the researcher's thesis to be submitted for the degree of Doctor of Philosophy.

Publication of Results

The researcher intends to use this information as part of the thesis. It is anticipated that the research will be presented at an academic conference and published in an academic journal.

Independent Complaints Procedure

Attached to this information sheet are the contacts for information on Independent Complaints Procedure and information in regard to the role of the Human Research Ethics Committee for your information.

Contacts for this Study

Should you require any further information or have any concerns please do not hesitate to contact either of the researchers on the number given below

Dr Katharine Barstch
Postgraduate Research Coordinator
Principal Supervisor
School of Architecture, Landscape
Architecture and Urban Design
The University of Adelaide SA 5005

AUSTRALIA

Tel (work): 08 8303 5512

Email: katharine.bartsch@adelaide.edu.au

School of Architecture, Landscape Architecture and Urban Design The University of Adelaide SA 5005 AUSTRALIA

Tel (work): 08 8303 3702

Email: janelle.arbon@adelaide.edu.au

Miss Janelle Arbon Registered Senior Landscape Architect Researcher



Human Research Ethics Committee (HREC)

CONSENT FORM

L.	 I have read the attached Information Sheet and agree to take part in 	the '	followi	ng
	research project:			

Title:	Analysis & Evaluation of Civic Space: Implications for the
116161	Landscape Architect. Defining 'Public' Space
Ethics Approval	xxxx.xxx
Number:	AAAAAAA

- 2. I have had the project, so far as it affects me, fully explained to my satisfaction by the research worker. My consent is given freely.
- 3. Although I understand the purpose of the research project, it has also been explained that involvement may not be of any benefit to me.
- 4. I have been informed that, while information gained during the study may be published, I will not be identified and my personal results will not be divulged.
- 5. I understand that I am free to withdraw from the project at any time.
- 6. I am aware that I should keep a copy of this Consent Form, when completed and the attached Information Sheet.

Participant to complete: Name: ______Signature: ______Date: Researcher/Witness to complete: I have described the nature of the research to (print name of participant) and in my opinion she/he understood the explanation. Signature: ______Position: ______Date:



The University of Adelaide Human Research Ethics Committee (HREC)

This document is for people who are participants in a research project.

CONTACTS FOR INFORMATION ON PROJECT AND INDEPENDENT COMPLAINTS PROCEDURE

The following study has been reviewed and approved by the University of Adelaide Human Research Ethics Committee:

Project Title:	Analysis & Evaluation of Civic Space: Implications for the
Troject fine.	Landscape Architect. Defining 'Civic' Space
Approval Number:	Н-ххх.ххх

The Human Research Ethics Committee monitors all the research projects which it has approved. The committee considers it important that people participating in approved projects have an independent and confidential reporting mechanism which they can use if they have any worries or complaints about that research.

This research project will be conducted according to the NHMRC National Statement on Ethical Conduct in Human Research (see

http://www.nhmrc.gov.au/publications/synopses/e72syn.htm)

1. If you have questions or problems associated with the practical aspects of your participation in the project or wish to raise a concern or complaint about the project, then you should consult the project coordinator:

Name:	Dr Katharine Bartsch
Phone:	08 8303 5512

- 2. If you wish to discuss with an independent person matters related to:
 - making a complaint or
 - raising concerns on the conduct of the project or
 - the University policy on research involving human participants or
 - your rights as a participant,

contact the Human Research Ethics Committee's Secretariat on phone (08) 8303 6028.



Defining 'Civic' space

Please place your responses in each box accompanying each question.

Please answer as many questions as you can.

Please note there is no word limit. Attach additional pages if necessary

Name	:
Age G	(Please note all responses will be anonymous. Name is requested for follow up purposes only) roup:
Gende	er:
Profes	sion:
Positio	on:
Numb	er of years of professional experience:
Educa [.]	tion:
Prima	ry country of Practice:
C	w. Chata of Commant residence.
Count	ry/State of Current residence:
1. H	ow do you define 'Civic' space?

what types of open spaces in the city would you label. Civic ?
Who has access to 'Civic' space?
How should Civic spaces be managed?
· -
How should Civic space be maintained?
Tiow should eithe space be maintained.
What activities are appropriate within 'civic' space?
What activities are appropriate within civic space:
What behaviours are appropriate within 'civic' space?

8.	How do 'Civic' spaces benefit the city?	
9.	How do 'Civic' spaces contribute to the identity of the city?	
10.	Name 1-2 examples of high-quality 'Civic' spaces	
11.	What are the notable design features of these high-quality 'Civic' spaces?	
12.	Name 1-2 examples of unsuccessful 'Civic' spaces	

Thank you for participating.

Appendix 3.C

Analysis and evaluation of civic space: implications for the landscape architect. Design awards criteria



Dear Respondent (insert name of each jury member)

Thank you for taking the time to participate in this questionnaire.

This questionnaire is being conducted as part of a PhD research study at The University of Adelaide in the School of Architecture Landscape Architecture and Urban Design.

This questionnaire analyses and evaluates the perceptions of 'Civic' space focusing on Design Awards for Civic Space and specifically the criteria for these awards.

The questionnaire should take **20-30mins** to complete. Please complete as many questions as you can to the best of your ability.

Attached for your information are the following documents

- Participant Information Sheet
- Consent Form
- Questionnaire

Participants are asked to return signed copies of the consent form and the completed questionnaire.

If you have any questions about this survey, please contact the researcher carrying out the study by email:

Janelle Arbon (janelle Arbon (janelle.arbon@adelaide.edu.au) School of Architecture Landscape Architecture and Urban Design at The University of Adelaide.

Thank you and regards,

Janelle Arbon PHD Candidate

School of Architecture, Landscape Architecture and Urban Design

The University of Adelaide, SA 5005 AUSTRALIA

Tel: +61 8 8303 3702 Fax: +61 8 8303 4377

Email: janelle.arbon@adelaide.edu.au CRICOS Provider Code 00123M

This email message is intended only for the addressee(s) and contains information that may be confidential and/or copyright. If you are not the intended recipient please notify the sender by reply email and immediately delete this email. Use, disclosure or reproduction of this email by anyone other than the intended recipient(s) is strictly prohibited. No representation is made that this email or any attachments are free of viruses. Virus scanning is recommended and is the responsibility of the recipient



THE UNIVERSITY OF ADELAIDE HUMAN RESEARCH ETHICS COMMITTEE PARTICIPANT INFORMATION SHEET

Project Title

Analysis and Evaluation of Civic Space: Implications for the Landscape Architect **Design Awards Criteria**

Purpose and Aim of the study

The purpose of this study is to analyse and evaluate Civic Space. The aim of this study is to better understand perceptions of Civic spaces.

As part of this process of analysis and evaluation, the researcher is examining award winning civic spaces in relation to criteria established to assess them.

Procedure involving the Participant

Participants are required to answer 15 questions. It is anticipated that this will take 20-30 minutes. Participants will be asked two sets of questions. The first set establishes the participant's background and will provide statistical data for the study. The second set of questions focus on award criteria relating to Civic space.

Participation is voluntary and the participant may withdraw at any time.

The identity of participants will remain confidential at all times. Name and contact details (if supplied) will be kept separate from all data, only the researcher and supervisor will be aware of who the data was obtained from. All participants will be referred to by pseudonym known only to the researcher and supervisor.

Please return the attached consent form with your completed questionnaire.

Outcome of the Study

The results from the questionnaire form an important part of the researcher's thesis to be submitted for the degree of Doctor of Philosophy.

Publication of Results

The researcher intends to use this information as part of the thesis. It is anticipated that the research will be presented at an academic conference and published in an academic journal.

Independent Complaints Procedure

Attached to this information sheet are the contacts for information on Independent Complaints Procedure and information in regard to the role of the Human Research Ethics Committee for your information.

Contacts for this Study

Should you require any further information or have any concerns please do not hesitate to contact either of the researchers on the number given below

Dr Katharine Barstch

Postgraduate Research Coordinator

Principal Supervisor

School of Architecture, Landscape Architecture and Urban Design The University of Adelaide SA 5005

AUSTRALIA

Tel (work): 08 8303 5512

Email: katharine.bartsch@adelaide.edu.au

Miss Janelle Arbon

Registered Senior Landscape Architect

Researcher

School of Architecture, Landscape Architecture and Urban Design The University of Adelaide SA 5005

AUSTRALIA

Tel (work): 08 8303 3702

Email: janelle.arbon@adelaide.edu.au



Human Research Ethics Committee (HREC)

CONSENT FORM

7.	have read the attached Information Sheet and agree to take part in the following	ng
	research project:	

Title:	Analysis & Evaluation of Civic Space: Implications for the
	Landscape Architect. Design Awards Criteria
Ethics Approval	MANAY MANA
Number:	XXXX.XXX

- 8. I have had the project, so far as it affects me, fully explained to my satisfaction by the research worker. My consent is given freely.
- 9. Although I understand the purpose of the research project, it has also been explained that involvement may not be of any benefit to me.
- 10. I have been informed that, while information gained during the study may be published, I will not be identified and my personal results will not be divulged.
- 11. I understand that I am free to withdraw from the project at any time.
- 12. I am aware that I should keep a copy of this Consent Form, when completed and the attached Information Sheet.

Participant to complete:		
Name:	_ Signature:	Date:
Researcher/Witness to comple	te:	
I have described the nature of t	he research to	
	(print name of participa	ant)
and in my opinion she/he under	rstood the explanation.	
Signature:	Position:	Date:

The University of Adelaide Human Research Ethics Committee (HREC)



This document is for people who are participants in a research project.

CONTACTS FOR INFORMATION ON PROJECT AND INDEPENDENT COMPLAINTS PROCEDURE

The following study has been reviewed and approved by the University of Adelaide Human Research Ethics Committee:

Project Title:	Analysis & Evaluation of Civic Space: Implications for the
	Landscape Architect. Design Awards Criteria
Approval Number:	H-xxx.xxx

The Human Research Ethics Committee monitors all the research projects which it has approved. The committee considers it important that people participating in approved projects have an independent and confidential reporting mechanism which they can use if they have any worries or complaints about that research.

This research project will be conducted according to the NHMRC National Statement on Ethical Conduct in Human Research (see

http://www.nhmrc.gov.au/publications/synopses/e72syn.htm)

1. If you have questions or problems associated with the practical aspects of your participation in the project or wish to raise a concern or complaint about the project, then you should consult the project coordinator:

Name:	Dr Katharine Bartsch
Phone:	08 8303 5512

- 2. If you wish to discuss with an independent person matters related to:
 - making a complaint or
 - raising concerns on the conduct of the project or
 - the University policy on research involving human participants or
 - your rights as a participant,

contact the Human Research Ethics Committee's Secretariat on phone (08) 8303 6028.



Jury panel questions

This questionnaire focuses on Design Awards Criteria.

Questions relate to the effectiveness of judging spaces as a civic space and effectiveness of the Design Awards Criteria to judge these spaces.

lame:	
(8)	
	ease note all responses will be anonymous. Name is requested for follow up purposes only)
Position:	
Profession:	
lumber of years of	professional experience:
Tumber or years or	protessional experience.
ear as Jury membe	ır:
Name of Design Aw	ard:
-	
Design Awards Crite	ria
1. In vour opinion, d	id the criteria cover all aspects necessary to judge a Civic space?
7	
2. Which criteria we	re most relevant to judge the success of civic space? And why?
- Trinon oncena we	

3. Would you add any additional criteria? If so please list them and state why.
4. Do you believe there is a balance between existing criteria or is there a bias for to particular
criteria? Please provide details
interia: Fiease provide details
5. Do you believe the spaces can be accurately assessed based on images and text alone?
How/why?
6. How much influence did the aims of the awards have on the adjudication process?
7. When examining the projects did you place yourself as a user or a designer?
7. When examining the projects and you place yoursen as a use. S. a use.g.e

8. Are you aware of any personnel preconceived notions/experiences you bring to the process of adjudication?
9. What key elements/items are you looking for when judging the projects?
10. What aspects are of most interest to you?
11. Do you give all criteria equal weighting?
12. Does your profession impact on your judgement?

	High significance	moderate significance	low significance	not applicable
Access				
Linkages				
Image (aesthetics and presentation of				
space)				
Territorial makers				
Barriers (physical)				
Barriers (visual)				
Function (prescribed/designed)				
Adaptability (opportunities for)				
Activities (opportunities for)				
Sociability (opportunities for)				
Security (visual)				
Maintenance				
Environmental sustainability				
Vegetation				
Prospect and refuge (opportunities for)				
User Comfort				
Privacy (opportunities for)				
Amenities (overall)				
Seating				
Lighting				
Threshold treatment				
Connection to transport				
Lifespan of the project				

	High significance	moderate significance	low significance	not applicable
Access				
Linkages				
Image (aesthetics and presentation of				
space)				
Territorial makers				
Barriers (physical)				
Barriers (visual)				
Function (prescribed/designed)				
Adaptability (opportunities for)				
Activities (opportunities for)				
Sociability (opportunities for)				
Security (visual)				
Maintenance				
Environmental sustainability				
Vegetation				
Prospect and refuge (opportunities for)				
User Comfort				
Privacy (opportunities for)				
Amenities (overall)				
Seating				
Lighting				
Threshold treatment				
Connection to transport				
Lifespan of project				

Thank you for participating.



Jury panel questions

This questionnaire focuses on the AILA Awards criteria

Questions relate to the effectiveness of judging spaces as a civic space and effectiveness of the AILA Awards Criteria# to judge these spaces.

Please note there have been changes to the AILA award criteria over the years. Please respond to the questions below in line with your experience of the criteria as a jury member. Please indicate if you have been a member of numerous jury panels and when.

Position:
(Please note all responses will be anonymous. Name is requested for follow up purposes only)
Position:
Profession:
Number of years of professional experience:
istallibel of years of professional experience.
Year as Jury member:
AILA Design Awards Criteria
Please see attached for the list of awards criteria for reference.
1. In your opinion, did the criteria cover all aspects necessary to judge a Civic space?
2. Which criteria were most relevant to judge the success of civic space? And why?
3. Would you add any additional criteria? If so please list them and state why.

4. Do you believe there is a balance between existing criteria or is there a bias to particular criteria? Please provide details
Criteria! Please provide details
5. Do you believe the spaces can be accurately assessed based on images and text alone?
How/why?
AILA Award Aims and Principles
Please respond to Questions 7 & 8 if you were part of AILA Awards Jury Panel
As stated in the AILA Awards Introduction:
The AILA's Landscape Architecture Project Awards provide a tangible and high-
profile expression of the profession's activities and promote and advance the
profession of Landscape Architecture by:
• Encouraging excellence by members of the landscape architecture profession.
 Fostering public awareness and recognition of the work of Australian
landscape architects.
 Creating local, regional, national and global advocacy for Australian landscape
architecture
6. How much influence did the aims of the awards have on the adjudication process?
7. The Australian Landscape Principles have become key items used by AILA to underpin all policy directions and recently the criteria for the awards. How much influence did the
principle have on the adjudication process? (see attached jury criteria sheets for The
Australian Landscape Principles)

8. When examining the projects did you place yourself as a user or a designer?
9. Are you aware of any personnel preconceived notions/experiences you bring to the process
of adjudication?
10. What key elements/items are you looking for when judging the projects?
10. What key elements/items are you looking for when judging the projects?
11. What aspects are of most interest to you?
,
12. Do you give all criteria equal weighting?
13. Does your profession impact on your judgement?

14. Rate the significance of the following items in regard to the adjudication process. (Please tick the box)

	High significance	moderate significance	low significance	not applicable
Access				
Linkages				
Image (aesthetics and presentation of				
space)				
Territorial makers				
Barriers (physical)				
Barriers (visual)				
Function (prescribed/designed)				
Adaptability (opportunities for)				
Activities (opportunities for)				
Sociability (opportunities for)				
Security (visual)				
Maintenance				
Environmental sustainability				
Vegetation				
Prospect and refuge (opportunities for)				
User Comfort				
Privacy (opportunities for)				
Amenities (overall)				
Seating				
Lighting				
Threshold treatment				
Connection to transport				
Lifespan of the project				

15. Rate the significance of the following items in regard to your design process. (Please tick the box)

	High significance	moderate significance	low significance	not applicable
Access				
Linkages				
Image (aesthetics and presentation of				
space)				
Territorial makers				
Barriers (physical)				
Barriers (visual)				
Function (prescribed/designed)				
Adaptability (opportunities for)				
Activities (opportunities for)				
Sociability (opportunities for)				
Security (visual)				
Maintenance				
Environmental sustainability				
Vegetation				
Prospect and refuge (opportunities for)				
User Comfort				
Privacy (opportunities for)				
Amenities (overall)				
Seating				
Lighting				
Threshold treatment				
Connection to transport				
Lifespan of the project				

Thank you for participating.

Appendix 4

Site visit data

Findings presented in Chapter Nine section 8.2 to section 8.6 draws on data collected from January 21 2013 to August 16 2014 in the 16 case study sites representing five public space typologies - Parks & Gardens, Street & Promenades, Plazas & Squares, Waterfronts and Commercial Spaces. Between January 2013 and August 2014 183 site visits were undertaken (153 non-event visits and 30 event visits) to gain a full view of site conditions including unpredictable and variable daily rhythm of public space in Adelaide.

Appendix 4 expands on information presented in Chapter Nine providing the complete datasets. Appendix 4.A provides the expanded table compiling all site visit data. Appendix 4.B provides the data scores. Appendix 4.C provides the T-Test results.

Appendix 4.A

Data sets - combined

Case Studies_ Adelaide, South Australia Visit No. Site Number Site Name Site type Site CBD Location Condition 1 Visit No. Date Time Arrived Time departed Total Time at Site Weather Event Details O.Ohr	Public Measures(user statistics) User numbers - User numbers - User numbers - User age - User age - 0-20 21-100 101-500 501+ 0-20 21-60 61	ser age - Typology of public - The Typology of public - The Typology of public - The Typology of public - The Gender - Gender - Defined Public Appropriating Public Transitory Public Illegitimate Public Male Female	Presence - Individuals Presence - Groups Interaction between users Short medium long	Site Elements Signage Signage - additional Security cameras Security cameras Security presence Security presence - Security presence - Additional Security cameras additional additional security presence - Additional Security presence - Additional security presence - Additional	Public pride Public pride - additional Bins Bins - additional Drinking fountains Lighting Lighting - Transport - access to Beverage - a
1 Whitmore Square/Ivarrityi Plaza & Square Central Business non-event 1 08.05.2013 9:30 AM 9:45 AM 0.25 hot 30 degrees 1 Whitmore Square/Ivarrityi Plaza & Square Central Business non-event 2 11.05.2013 10:00 AM 10:30 AM 0.5 25 degrees 1 Whitmore Square/Ivarrityi Plaza & Square Central Business non-event 3 17.05.2013 8:00 PM 8:15 PM 0.25 17 degrees	0.25 0.25 0.25 0.25 0.33 0.33 0.0 0.25 0.00 0.00 0.00 0.00 0.00 0.00 0.25 0.25 0.00 0.00 0.33 0.33 0.33 0.25 0.25 0.00 0.00 0.33 0.33 0.33		0.50 0.50 1.00 0.33 0.33 0.33 7.00 minimum average maximum 0.00 0.00 0.00 0.00 0.50 0.50 0.50 0.00 0.33 0.33 0.33 4.92 0.50 0.00 0.33 0.33 0.33 0.33 3.58		1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
1 Whitmore Square/Ivarrityi Plaza & Square Central Business non-event 4 19.05.2013 4:30 PM 4:45 PM 0.25 17.5 degree 17.5 degree 1 Whitmore Square/Ivarrityi Plaza & Square Central Business non-event 5 20.05.2013 1:00 PM 1:15 PM 0.25 21 degrees 1 Whitmore Square/Ivarrityi Plaza & Square Central Business non-event 6 25.07.2014 1:35 PM 1:50 PM 0.25 16.5 degrees 1 Whitmore Square/Ivarrityi Plaza & Square Central Business non-event 7 25.07.2014 8:00 PM 8:30 PM 0.5 16.5 degrees 1 Whitmore Square/Ivarrityi Plaza & Square Central Business non-event 8 02.08.2014 12:15 PM 12:30 PM 0.25 14 degrees 1 Whitmore Square/Ivarrityi Plaza & Square Central Business non-event 9 20.80.2014 4:00 PM 4:30 PM 0.5 15 degrees 1 Whitmore Square/Ivarrityi Plaza & Square Central Business non-event 9 20.80.2014 4:00 PM 4:30 PM 0.5 15 degrees 1 Whitmore Square/Ivarrityi Plaza & Square Central Business non-event 10 08.09.2014 7:00 AM 7:30 AM 0.5 25 degrees	0.25 0.00 0.00 0.00 0.00 0.33 0.0 0.25 0.25 0.00 0.00 0.00 0.33 0.33 0.3 0.25 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.33 0.0 0.25 0.25 0.25 0.00 0.00 0.00 0.33 0.0 0.00 0.33 0.0 0.00 0.33 0.0 0.00 0.33 0.0 0.00 0.00 0.33 0.0 0.00 0.00 0.33 0.0 0.00 0.00 0.33 0.0 0.00	00 0.25 0.00 0.25 0.00 0.50 0.50 00 0.25 0.00 0.00 0.25 0.50 0.50 00 0.00 0.00 0.25 0.00 0.00	0.50	1.00	1.00
1 Whitmore Square/Ivarrityi Plaza & Square Central Business non-event 11 14.09.2014 4:30 PM 4:45 PM 0.25 26 degrees 2 North Terrace (between Kintore Avenue and Frome Road) 2 North Terrace (between Kintore Avenue and Frome Road) 3 North Terrace (between Kintore Avenue and Frome Road) 4 North Terrace (between Kintore Avenue and Frome Road) 5 Tour down under 2 2 28.01.2013 8:00 AM 9:00 AM 1 29degrees/ sun Public Holiday 6 North Terrace (between Kintore Avenue and Frome Road) 7 North Terrace (between Kintore Street & Promenade Cultural non-event 3 28.01.2013 12:00 PM 2:00 PM 2 29degrees/ sun Public Holiday	0.25 0.25 0.25 0.00 0.00 0.33 0.33 0.33 0.25 0.21 0.00 0.00 0.12 0.27 0.25 0.25 0.00 0.00 0.00 0.12 0.27 0.25 0.25 0.00 0.00 0.00 0.33 0.33 0.33 0.25 0.25 0.00 0.00 0.33 0.33 0.33 0.33	0.25 0.00 0.25 0.25 0.50 0.50	0.50 0.50 1.00 0.33 0.33 0.33 6.17 0.41 0.36 0.36 0.18 0.24 0.21 0.12 overall 0.50 3.63 0.41 0.36 0.36 0.38 0.24 0.21 0.12 non-event 0.50 3.63 0.50 0.50 0.50 0.33 0.00 0.00 4.50 0.50 0.50 0.50 0.33 0.00 0.00 4.50 0.50 0.50 0.50 0.33 0.00 0.00 4.50	1.00	1.00
Avenue and Frome Road) 2 North Terrace (between Kintore Avenue and Frome Road) 2 North Terrace (between Kintore Avenue and Frome Road) 3 North Terrace (between Kintore Avenue and Frome Road) 4 02.02.13 5:00 PM 7:00 PM 2 30degrees/ sun 7:45 PM 0.25 fine 26.6 degrees Avenue and Frome Road) 5 North Terrace (between Kintore Avenue and Frome Road) Cultural non-event 6 26.02.2013 5:30 PM 5:45 PM 0.25 29degrees/ sun 7:45 0.25 0.25 0.00 0.00 0.00 0.33 0.00 0.25 0.00 0.00 0.00 0.33 0.33 0.00 0.25 0.25 0.00 0.00 0.00 0.33 0.33 0.00 0.25 0.25 0.00 0.00 0.33 0.33 0.00	00 0.25 0.00 0.25 0.00 0.50 0.50 00 0.25 0.25 0.25 0.25 0.25 0.50	0.50	1.00 0.00 1.00 0.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 0.00 1.00 0.00 1.00 0.00 0.00 0.00 0.00 1.00 0.00 1.00 0.00 0.00 0.00 0.00 1.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 0.00	1.00	
2 North Terrace (between Kintore Avenue and Frome Road) 2 North Terrace (between Kintore Avenue and Frome Road) 2 North Terrace (between Kintore Avenue and Frome Road) 3 North Terrace (between Kintore Avenue and Frome Road) 4 North Terrace (between Kintore Avenue and Frome Road) 5 Treet & Promenade Cultural non-event 9 12.06.2013 12:00 PM 12:30 PM 0.5 16 degree 12:00 PM 0.5 16 degree 12:	0.25 0.25 0.25 0.00 0.00 0.33 0.0 0.25 0.25 0.25 0.00 0.00 0.33 0.0 0.25 0.25 0.25 0.00 0.00 0.33 0.0 0.25 0.25 0.00 0.00 0.00 0.33 0.0 0.25 0.00 0.00 0.00 0.00 0.33 0.0	33 0.25 0.25 0.25 0.25 0.50 0.50 0.50 0.00 0.50 0.5	0.50 0.50 1.00 0.33 0.00 0.00 5.75 0.50 0.50 0.50 0.33 0.00 0.00 4.75 0.50 0.50 0.00 0.33 0.33 0.00 4.75 0.50 0.50 0.00 0.33 0.00 0.00 3.00 0.50 0.50 0.00 0.33 0.00 0.00 3.00 0.50 0.50 0.50 0.41 0.09 0.33 0.03 0.00 overall 3.00 4.26	1.00	1.00 0.00 1.00 0.00 1.00 0.00 1.00
Rundle Street (between Pulteney Street & Promenade Central Business non-event 1 27.01.2013 12:00 PM 2:00 PM 2 29degrees/ sun Tour down under Street and East Terrace) Rundle Street (between Pulteney Street & Promenade Central Business non-event 2 28.01.2013 8:00 AM 9:00 AM 1 29degrees/ sun Public Holiday Street and East Terrace) Rundle Street (between Pulteney Street & Promenade Central Business non-event 3 28.01.2013 12:00 PM 2 29degrees/ sun Public Holiday	0.25 0.20 0.05 0.00 0.13 0.33 0.25 0.25 0.25 0.00 0.00 0.33 0.33 0.25 0.25 0.00 0.00 0.00 0.33 0.0 0.25 0.25 0.00 0.00 0.00 0.33 0.33 0.0 0.25 0.25 0.25 0.00 0.33	33 0.25 0.00 0.25 0.00 0.50 0.50 0.50 0.50	0.50	5.75	.00 0.90 0.00 1.00 0.00 1.00 0.00 1.00 0.00 0
Street and East Terrace) 3 Rundle Street (between Pulteney Street & Promenade Central Business event 4 22.03.2013 8:15 PM 8:30 PM 0.25 20 degrees clear fringe venue 3 Rundle Street (between Pulteney Street & Promenade Central Business event 5 08.03.2014 8:30 PM 10:30 PM 2 31 degrees fringe. Road closed for pedestriar use only 3 Rundle Street (between Pulteney Street & Promenade Central Business event 6 15.03.2014 10:30 PM 12:00 AM 1.5 24 degrees fringe and Street closure	0.25 0.25 0.25 0.25 0.25 0.33 0.33 0.33 0. an 0.25 0.25 0.25 0.25 0.25 0.33 0.33 0.30 0. 0.25 0.25 0.25 0.25 0.25 0.33 0.33 0.30 0.		0.50 0.50 1.00 0.33 0.00 0.00 4.92 0.50 0.50 1.00 0.33 0.33 0.33 0.33 0.50 0.50 0.50 1.00 0.33 0.33 0.00 7.00	1.00 1.00 1.00 0.00 1.00 1.00 1.00 1.00	10.00
Street and East Terrace) 3 Rundle Street (between Pulteney Street & Promenade Street & Promenade Central Business non-event 7 08.07.2014 8.05 AM 8.20 AM 0.25 18.5 degrees 3 Rundle Street (between Pulteney Street & Promenade Central Business non-event 8 30.07.2014 8.00 AM 8.15 AM 0.25 17 degrees 3 Rundle Street (between Pulteney Street & Promenade Central Business non-event 9 31.07.2014 8.15 AM 8.30 AM 0.25 16 degrees	0.25 0.25 0.25 0.25 0.33 0.33 0.33 0.25 0.25 0.25 0.25 0.33 0.33 0.33 0.25 0.25 0.25 0.25 0.33 0.33 0.33	0.25 0.00 0.25 0.25 0.50 0.50 0.50 0.50	0.50 0.50 0.50 0.33 0.00 0.00 4.75 0.50 0.50 0.50 0.00 0.33 0.33 0.00 4.83 0.50 0.50 0.50 0.33 0.33 0.00	1.00 1.00 1.00 0.00 0.00 0.00 0.00 0.00	16.00
Street and East Terrace) 3 Rundle Street (between Pulteney Street & Promenade Central Business non-event 10 31.07.2014 5:30 PM 5:45 PM 0.25 16 degrees 3 Rundle Street (between Pulteney Street & Promenade Central Business non-event 11 01.08.2014 8:30 AM 8:45 AM 0.25 16 degrees 3 Rundle Street (between Pulteney Street & Promenade Central Business non-event 12 01.08.2014 5:45 PM 6:00 PM 0.25 12.5 degree	0.25 0.25 0.25 0.25 0.33 0.33 0.3 0.25 0.25 0.25 0.25 0.33 0.33 0.3 0.25 0.25 0.25 0.25 0.33 0.33 0.3	0.25 0.00 0.25 0.25 0.50 0.50	0.50 0.50 0.50 0.33 0.33 0.00 5.08 0.50 0.50 0.50 0.00 0.33 0.33 0.00 5.08 0.50 0.50 0.50 0.00 0.33 0.33 0.00 5.08	1.00 0.00 1.00 0.00 0.00 0.00 0.00 0.00	11.00
Street and East Terrace) 3 Rundle Street (between Pulteney Street & Promenade Central Business non-event 13 14.09.2014 4:50 PM 5:20 PM 0.5 26 degrees 4 Elder Park (Stella Bowen waterfront Cultural event 1 27.01.2013 12:00 PM 2:00 PM 2 29degrees/sun Tour down under	0.25 0.25 0.25 0.25 0.33 0.33 0.3 0.25 0.25 0.23 0.19 0.28 0.33 0.25 0.25 0.23 0.18 0.27 0.33 0.25 0.25 0.25 0.25 0.25 0.33 0.33 0.25 0.25 0.25 0.25 0.25 0.33 0.33 0.3	0.15 0.25 0.08 0.25 0.17 0.50 0.10 0.25 0.03 0.25 0.15 0.50 0.33 0.25 0.25 0.25 0.25 0.50	0.50 0.50 0.50 0.33 0.33 0.33 0.33 5.08 6.00 0.50 0.50 0.50 0.50 0.50 0.50 0.50	1.00	11.00
Park/Tarntanya Wama, Park 26) 4 Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) 4 Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) 4 Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) 4 Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) 4 Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) 4 Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) 4 Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) 4 Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) 4 Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) 4 Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) 4 Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) 4 Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26)	0.25 0.25 0.25 0.00 0.00 0.33 0.0 0.25 0.25 0.25 0.25 0.33 0.33 0.3 0.25 0.25 0.00 0.00 0.00 0.33 0.33 0.3 0.25 0.25 0.25 0.00 0.00 0.00 0.33 0.0 0.25 0.25 0.25 0.00 0.00 0.00 0.33 0.0	0.25 0.25 0.25 0.00 0.50	0.50	1.00 0.00 1.00 0.00 0.00 0.00 0.00 1.00 0.00 0.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 0.00 1.00 0.00 1.00 0.00 0.00 1.00 0.00 0.00 0.00 1.00 0.00 0.00 0.00 0.00 1.00 0.00	1.00
4 Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) 4 Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) 4 Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) 4 Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) 4 Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) 4 Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) 4 Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) 4 Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) 4 Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) 4 Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) 5 Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) 6 Valtural Park Park Park Park Park Park Park Park		00 0.25 0.25 0.25 0.00 0.50 0.50 00 0.00 0.25 0.25 0.25 0.50 0.50	0.50 0.50 1.00 0.33 0.33 0.33 5.83 0.50 0.50 0.00 0.33 0.33 0.00 4.50 0.50 0.50 0.00 0.33 0.00 0.00 4.50 0.50 0.50 0.00 0.33 0.00 0.00 4.17 0.00 0.50 0.00 0.33 0.33 0.00 3.50	1.00 1.00 1.00 0.00 1.00 1.00 0.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 0.00 1.00 0.00 1.00 0.00 0.00 0.00 0.00 1.00 1.00 1.00 0.00 0.00 0.00 0.00 0.00 1.00 1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	1.00 0.00 1.00 0.00 1.00
4 Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) 4 Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) 4 Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) 4 Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) 4 Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) 4 Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) 4 Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) 4 Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) 4 Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) 4 Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) 5 Uttural Protest Protest	0.25 0.25 0.25 0.00 0.00 0.33 0. 0.25 0.00 0.00 0.00 0.00 0.33 0. 0.25 0.25 0.25 0.00 0.00 0.33 0. 0.25 0.25 0.25 0.25 0.00 0.33 0. 0.25 0.25 0.25 0.25 0.00 0.33 0.	00 0.25 0.25 0.25 0.00 0.50 0.50 00 0.25 0.25 0.25 0.25 0.50 0.50 00 0.00 0.25 0.25 0.00 0.50 0.50	0.50	1.00 1.00 1.00 0.00 1.00	1.00 0.00 1.00 0.00 1.00 0.00 1.00
Park/Tarntanya Wama, Park 26) 4 Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) 4 Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26) 5 Hindmarsh Square/Mukata Plaza & Square Mixed event 1 21.02.2013 9:00 PM 9:30 PM 0.5 hot 32.1 degrees fringe venue	0.25	0.25 0.25 0.25 0.00 0.50 0.50	0.50 0.50 0.50 0.33 0.00 0.00 5.17 0.50 0.50 0.50 0.33 0.00 0.33 0.00 0.33 3.92 0.00 0.50 0.50 0.29 0.31 0.22 0.12 overall 3.50 4.75 0.50 0.42 0.50 0.23 0.33 0.18 0.10 non-event 3.50 4.56 0.50 0.38 0.50 0.50 0.25 0.33 0.17 event 3.50 5.35 0.50 0.50 0.50 0.50 0.33 0.00 0.00 3.42	1.00 1.00 1.00 1.00 0.00 0.00 1.00 0	1.00
S Hindmarsh Square/Mukata Plaza & Square Mixed event 2 22.02.2013 12.00 AM 12:30 AM 0.5 clear 22 degrees fringe venue Hindmarsh Square/Mukata Plaza & Square Mixed event 3 22.03.2013 7.45 PM 8:00 PM 0.25 20 degrees clear fringe venue Hindmarsh Square/Mukata Plaza & Square Mixed event 4 28.03.2013 5:00 PM 5:20 PM 0.33333333 22 degrees private function Hindmarsh Square/Mukata Plaza & Square Mixed event 5 11.04.2013 8:00 AM 8:30 AM 0.5 30degrees hot bike Sa and Adelaide City Council event Hindmarsh Square/Mukata Plaza & Square Mixed event 6 18.04.2013 1:00 PM 1:30 PM 0.5 clear 22 degrees splash events/ food vendors Hindmarsh Square/Mukata Plaza & Square Mixed event 7 26.04.2013 1:30 PM 1:00 PM 0.5 clear 24 degrees POP UP FOOD VENDROS AND SPLASH ART WORKS Hindmarsh Square/Mukata Plaza & Square Mixed event 8 09.10.2013 1:00 AM 1:30 AM 0.5 17 degrees world solar challenge event setup.	0.25 0.00 0.00 0.00 0.00 0.33 0.0 0.25 0.25 0.25 0.00 0.33 0.0 0.25 0.25 0.25 0.00 0.33 0.33 0.0 0.25 0.25 0.25 0.25 0.33 0.33 0.30 0.25 0.25 0.25 0.25 0.33 0.33 0.30 0.25 0.25 0.25 0.00 0.33 0.33 0.30 0.25 0.25 0.25 0.00 0.33 0.33 0.30 0.00 0.25 0.25 0.25 0.00 0.33 0.33 0.33 0.00 0.00 0.25 0.25 0.25 0.00 0.33 0.33 0.33 0.00 0.00 0.25 0.25 0.25 0.00 0.33 0.33 0.33 0.00 0.00 0.25 0.25 0.25 0.00 0.33 0.33 0.33 0.00 0.00 0.25 0.25 0.25 0.00 0.33 0.33 0.33 0.00	00 0 0.00 0.00 0.25 0.00 0.50 0.50 0.50	0.50	1.00	0.00 0.00 1.00 0.00 1.00 0.00 1.00 1.00
Hindmarsh Square/Mukata Plaza & Square Mixed event 9 11.10.2013 8:30 AM 9:00 AM 0.5 20 degrees world solar challenge event setup 10 07.02.2014 12:30 PM 1:30 PM 1:30 PM 1:30 PM 0.5 26 degrees ride to work event 11 14.09.2014 1:30 PM 1:30 PM 0.5 26 degrees 14.09.2014 1:30 PM 0.5 26 degrees 14.09.2014 1:30 PM 0.5 26 degrees 14.09.2014 1:30 PM 0.5 26 degrees 16 degrees 17 degrees 18 degrees 19 degrees 19 degrees 10 degrees 10 degrees 10 degrees 11 degrees 12 degrees 13 degrees 14 degrees 14 degrees 15 degrees 16 degrees 17 degrees 18 degrees 19 degrees 19 degrees 10 degrees 11 degrees 12 degrees 13 degrees 14 degrees 15 degrees 16 degrees 17 degrees 18 degrees 18 degrees 19 degrees 19 degrees 19 degrees 10 degr	up 0.25 0.25 0.25 0.25 0.33 0.33 0.33 0.3 0.25 0.25 0.25 0.25 0.00 0.33 0.33 0.3 0.0 0.25 0.25 0.25 0.00 0.33 0.33 0.3 0.0 0.25 0.25 0.25 0.00 0.33 0.33 0.3 0.25 0.25 0.25 0.00 0.33 0.33 0.3 0.25 0.25 0.25 0.00 0.33 0.33 0.33 0.25 0.20 0.18 0.05 0.23 0.33	00 0.25 0.25 0.25 0.00 0.50 0.50 0.50 0.	0.50	1.00 1.00 1.00 0.00 0.00 1.00 1.00 1.00	1.00
6 Castle Street (Laneway park between Parks & Gardens Residential non-event 1 03.02.2013 12:00 PM 12:30 PM 0.5 23.5 degrees/sun 6 Castle Street (Laneway park between Charlotte Street and Ely Place) 6 Castle Street (Laneway park between Charlotte Street and Ely Place) 6 Castle Street (Laneway park between Charlotte Street and Ely Place) 7 Castle Street (Laneway park between Charlotte Street and Ely Place) 8 Castle Street (Laneway park between Charlotte Street and Ely Place) 9 Castle Street (Laneway park between Parks & Gardens Residential non-event 3 08.05.2013 4:00 PM 4:15 PM 0.25 hot 30 degrees 9 Castle Street (Laneway park between Parks & Gardens Residential non-event 4 11.05.2013 9:00 AM 9:20 AM 0.33333333 25 degrees	0.25 0.00 0.00 0.00 0.00 0.33 0.00 0.25 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.25 0.00 0	00 0.00 0.00 0.00 0.00 0.00	0.00 0.50 0.00 0.33 0.00 0.00 2.42 0.50 0.00 0.00 0.33 0.00 0.00 2.92 0.00 0.00 0.50 0.00 0.33 0.00 0.00 0.25	1.00	3.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Charlotte Street and Ely Place) 6 Castle Street (Laneway park between Charlotte Street and Ely Place) 6 Castle Street (Laneway park between Charlotte Street and Ely Place) 6 Castle Street (Laneway park between Charlotte Street and Ely Place) 8 Castle Street (Laneway park between Charlotte Street and Ely Place) 8 Castle Street (Laneway park between Charlotte Street and Ely Place) 8 Castle Street (Laneway park between Charlotte Street and Ely Place) 8 Castle Street (Laneway park between Charlotte Street and Ely Place) 8 Castle Street (Laneway park between Charlotte Street and Ely Place) 8 Castle Street (Laneway park between Charlotte Street and Ely Place) 8 Castle Street (Laneway park between Charlotte Street and Ely Place) 9 Castle Street (Laneway park between Charlotte Street and Ely Place) 10 Castle Street (Laneway park between Charlotte Street and Ely Place)	0.25 0.00 0.00 0.00 0.00 0.33 0.3 y 0.25 0.25 0.00 0.00 0.33 0.33 0.3	33 0.25 0.00 0.25 0.00 0.50 0.50	0.50 0.50 0.50 0.33 0.00 0.00 2.17 0.50 0.50 0.50 0.33 0.00 0.00 3.25	1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	1.00 0.00 1.00 0.00 1.00 0.00 1.00 0
6 Castle Street (Laneway park between Charlotte Street and Ely Place) 6 Castle Street (Laneway park between Charlotte Street and Ely Place) 7 04.09.2014 7:00 AM 7:30 AM 0.5 16 degrees 7 04.09.2014 7:00 AM 7:30 AM 0.5 16 degrees 8 12.09.2014 6:00 PM 6:30 PM 0.5 17.5 degrees 9 12.09.2014 11:00 PM 11:30 PM 0.5 17.5 degrees	0.25 0.00 0.00 0.00 0.00 0.33 0.00 0.25 0.25 0.00 0.00 0.00 0.00 0.33 0.00 0.25 0.00<	00 0.25 0.00 0.25 0.00 0.50 0.50 00 0.00 0.00 0.25 0.00 0.50 0.50	0.50 0.00 0.00 0.33 0.00 0.00 2.92 0.00 0.00 2.92 0.00 0.00	1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	5.00 0.00 1.00 0.00 1.00 0.00 1.00 0
Charlotte Street and Ely Place) 6 Castle Street (Laneway park between Charlotte Street and Ely Place) 6 Castle Street (Laneway park between Charlotte Street and Ely Place) Residential non-event 10 13.09.2014 10:00 PM 10:15 PM 0.25 22 degrees Charlotte Street (Laneway park between Charlotte Street and Ely Place) Residential non-event 11 14.09.2014 3:50 PM 4:05 PM 0.25 26 degrees Charlotte Street and Ely Place)	0.25 0.00 0.00 0.00 0.00 0.00 0.00 0.00	00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.25 0.50 0.00 0.00 0.33 0.00 0.00 0.25 0.27 0.27 0.14 0.00 0.24 0.00 0.00 overall 0.25 2.18 0.28 0.29 0.10 0.00 0.23 0.00 0.00 pnn-event 0.25 2.18	1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	5.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Hindley Street Street & Promenade Central Business non-event 1 08.03.2014 6:00 PM 6:30 PM 0.5 31 degrees	0.25 0.25 0.00 0.00 0.33 0.33 0.25 0.25 0.00 0.00 0.33 0. 0.25 0.25 0.25 0.25 0.00 0.33 0. 0.25 0.25 0.25 0.25 0.00 0.33 0. 0.25 0.25 0.25 0.25 0.00 0.33 0. 0.25 0.25 0.25 0.25 0.00 0.33 0. 0.25 0.25 0.25 0.25 0.00 0.33 0. 0.25 0.25 0.25 0.25 0.00 0.33 0. 0.25 0.25 0.25 0.25 0.00 0.33 0. 0.25 0.25 0.25 0.25 0.00 0.33 0. 0.25 0.25 0.25 0.25 0.33 0.33 0. 0.25 0.25 0.25 0.25 0.33 0.33 0. 0.25	0.00 0.25 0.00 0.25 0.00 0.50 33 0.25 0.00 0.25 0.00 0.50 0.50 33 0.25 0.25 0.25 0.25 0.50 0.50 33 0.25 0.25 0.25 0.25 0.50 0.50 00 0.25 0.25 0.25 0.25 0.50 0.50 00 0.25 0.25 0.25 0.25 0.50 0.50 33 0.25 0.00 0.25 0.00 0.50 0.50 33 0.25 0.00 0.25 0.00 0.50 0.50 00 0.25 0.00 0.25 0.00 0.50 0.50	0.50	4.00 1.00 0.00 1.00 1.00 0.00 1.00 0.00 1.00 1.00 0.00 1.00 <th< th=""><th>1.00 0.00 1.00 0.00 1.00 0.00 0.00 1.00 0.00 1.00 0.00 0.00 0.00 0.00 0.00 1</th></th<>	1.00 0.00 1.00 0.00 1.00 0.00 0.00 1.00 0.00 1.00 0.00 0.00 0.00 0.00 0.00 1
7	0.25	0.25 0.25 0.25 0.25 0.25 0.50 0.50	0.50 0.50 0.50 0.50 0.30 0.33 0.07 0.00 overall 4.17 4.97 0.50 0.50 0.50 0.50 0.33 0.07 0.00 non-event 4.17 4.97 0.50 0.50 0.50 0.50 0.33 0.33 0.00 sevent 4.17 4.97 0.50 0.50 0.50 0.50 0.33 0.33 0.33 0.33	100 0.00 1.00 0.00 0.00 1.00 0.	1.00 0.00 1.00 1.00 1.00 0.00 0.00 1.00 0.00 1
8 Himeji Gardens Parks & Gardens Parklands non-event 6 20.07.2014 4:15 PM 4:30 PM 0.25 14.5 degrees 8 Himeji Gardens Parks & Gardens Parklands event 7 26.07.2014 1:30 PM 3:00 PM 1.5 16 degrees Studio Ghilbi / Espionage gallery pop up event 10 am-5 pm, Site blocked to usual users. Had to lin up to enter. plus wedding next door commuter cyclists going past 8 Himeji Gardens Parks & Gardens Parklands non-event 8 04.09.2014 7:00 AM 7:30 AM 0.5 16 degrees 8 Himeji Gardens Parks & Gardens Parklands non-event 9 12.09.2014 11:00 PM 11:30 PM 0.5 17.5 degrees 8 Himeji Gardens Parks & Gardens Parklands non-event 10 13.09.2014 10:00 PM 10:15 PM 0.25 26 degrees		00 0.25 0.25 0.00 0.25 0.50 0.50 0.50 0.	0.50 0.50 0.33 0.33 0.33 0.33 0.33 0.50 0.50	1.00	1.00
9 Gilles Street School Commercial Residential event 1 11.05.2013 10:00 AM 10:15 AM 0.25 25 degrees 9 Gilles Street School Commercial Residential event 2 19.05.2013 2:30 PM 3:00 PM 0.5 17.5 degree Gilles Street Market 9 Gilles Street School Commercial Residential event 3 16.06.2013 3:15 PM 3:45 PM 0.5 15 degrees Gilles Street Market 9 Gilles Street School Commercial Residential non-event 4 12.09.2014 11:30 PM 12:00 AM 0.5 17.5 degrees 9 Gilles Street School Commercial Residential non-event 5 13.09.2014 10:00 PM 10:15 PM 0.25 22 degrees 9 Gilles Street School Commercial Residential non-event 6 14.09.2014 4:05 PM 4:20 PM 0.25 26 degrees church group using hall	0.25 0.05 0.05 0.05 0.17 0.23 0.25 0.25 0.25 0.05 0.17 0.23 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	0.10	0.40	6.25	10 0.10 0.00 0.10 0.00 0.10 0.10 0.00 0.10 0.10 0.00 0.10 0.10 0.70 0.20 overall 0.00 0.11 0.00 0.11 0.00 0.11 0.00
10 Glover playground Parks & Gardens Parklands non-event 1 11.05.2013 9:50 AM 10:00 AM 0.166666667 25 degrees 10 Glover playground Parks & Gardens Parklands non-event 2 11.05.2013 10:35 AM 11:00 AM 0.416666667 25 degrees 10 Glover playground Parks & Gardens Parklands non-event 3 19.05.2013 3:15 PM 3:45 PM 0.5 17.5degree 10 Glover playground Parks & Gardens Parklands non-event 4 20.05.2013 1:15 PM 1:40 PM 0.416666667 21 degrees 10 Glover playground Parks & Gardens Parklands non-event 5 11.07.13 8:00 AM 8:15 AM 0.25 19 degrees 10 Glover playground Parks & Gardens Parklands non-event 5 11.07.13 8:00 AM 8:15 AM 0.25 19 degrees 10 Glover playground Parks & Gardens Parklands non-event 6 12.09.2014 11:30 PM 12:00 AM 0.5 17.5 degrees 10 Glover playground Parks & Gardens Parklands non-event 7 13.09.2014 9:30 PM 10:00 PM 0.5 22 degrees 10 Glover playground Parks & Gardens Parklands non-event 7 13.09.2014 1:30 PM 10:00 PM 0.5 22 degrees	0.25 0.08 0.08 0.04 0.06 0.11 0.25 0.00 0.00 0.00 0.00 0.00 0.00 0.25 0.17 0.17 0.17 0.08 0.11 0.22 0.25 0.25 0.25 0.00 0.00 0.33 0.33 0.3 0.25 0.25 0.25 0.00 0.00 0.33 0.33 0.3 0.0 0.25 0.25 0.00 0.00 0.33 0.33 0.3 0.0 0.25 0.25 0.00 0.00 0.33 0.33 0.3 0.3 0.25 0.25 0.25 0.00 0.00 0.33 0.33 0.3 0.3 0.25 0.25 0.25 0.00 0.00 0.00 0.3 0.3 0.3 0.3 0.25 0.25 0.00 0.00 0.00 0.00 0.00 0.00	0.17 0.00 0.13 0.00 0.00 0.25 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.33 0.00 0.25 0.00 0.00 0.50 0.50 0.0 0.25 0.00 0.00 0.00 0.50 0.50 0.0 0.25 0.00 0.00 0.00 0.50 0.50 0.0 0.25 0.25 0.00 0.00 0.00 0.50 0.50 0.0 0.00 0.00 0.00 0.00 0.00 0.00 0.0 0.00 0.00 0.00 0.00 0.00 0.00	0.25	1.00	.00
11 Hajek Plaza Plaza & Square Cultural non-event 1 27.01.2013 12:00 PM 2:00 PM 2 29degrees/ sun Tour down under 11 Hajek Plaza Plaza & Square Cultural event 2 19.04.2013 6:00 PM 6:30 PM 0.5 20 degrees Oi You Festival 11 Hajek Plaza Plaza & Square Cultural event 3 19.04.2013 8:30 PM 9:00 PM 0.5 20 degrees Oi You Festival 11 Hajek Plaza Plaza & Square Cultural event 4 04.05.2013 4:00 PM 4:30 PM 0.5 fine 20 degree of fill/ou Street artist walk	0.25	00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	1.00	0.00
11	0.25 0.00 0.00 0.00 0.33 0.33 0.0 0.25 0.25 0.25 0.00 0.00 0.00 0.00 0.33 0.0 0.25 0.25 0.25 0.00 0.00 0.00 0.00 0.33 0.0 0.25 0.25 0.00 0.00 0.00 0.00 0.33 0.0 0.25 0.00 0.00 0.00 0.00 0.33 0.0 0.25 0.05 0.00 0.00 0.00 0.33 0.3 0.25 0.25 0.00 0.00 0.00 0.33 0.3 0.25 0.25 0.25 0.00 0.00 0.00 0.33 0.3 0.25 0.25 0.25 0.00 0.00 0.00 0.33 0.0 0.25 0.25 0.25 0.00 0.00 0.00 0.00 0.33 0.0 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	00	0.00	1.00 0.00 1.00 0.00 0.00 0.00 0.00 0.00 1.00 0.00 <td< th=""><th>0.00</th></td<>	0.00
11 Hajek Plaza Plaza & Square Cultural non-event 13 09.08.2014 8:30 PM 9:00 PM 0.5 18 degrees crowd going to footy	0.25 0.25 0.25 0.25 0.00 0.33 0.00 0.25 0.25 0.00 0.00 0.03 0.03 0.03 0.25 0.21 0.13 0.05 0.14 0.33 0.25 0.20 0.09 0.05 0.09 0.33 0.25 0.25 0.25 0.00 0.33 0.33 0.25 0.25 0.00 0.33 0.33 0.33 0.25 0.00 0.00 0.00 0.00 0.33 0.00 0.25 0.00 0.00 0.00 0.00 0.33 0.00 0.25 0.00 0.00 0.00 0.00 0.33 0.00 0.25 0.00 0.00 0.00 0.00 0.33 0.00 0.25 0.00 0.00 0.00 0.00 0.03 0.03 0.00 0.25 0.00 0.00 0.00 0.00 0.00 0.03 0.00	00	0.50	1.00 1.00 1.00 1.00 0.00 0.00 0.00 0.00	100 100 100 100 100 100 100 100 100 100
12 Peel Street Street & Promenade Central Business non-event 5 24.10.2012 12:30 PM 1:00 PM 0.5 16.5 degrees	0.25	0.25 0.00 0.25 0.00 0.50 0.50 0.50 0.50	0.50	1.00	100 0.00 100 100 0.00 100 1.00 1.00 0.00 1.00
13 Moonta Street & Promenade Mixed event 1 16.02.13 6:00 PM 7:00 PM 1 hot 37.1degrees Moonta Street night market 13 Moonta Street & Street & Promenade Mixed non-event 2 10.05.2013 6:00 PM 6:30 PM 0.5 29 degrees fine 13 Moonta Street & Promenade Mixed non-event 3 25.05.2013 10:00 PM 10:30 PM 0.5 17.5 degrees 13 Moonta Street & Promenade Mixed non-event 4 07.06.13 12:30 PM 1:15 PM 0.75 16 degrees	0.25 0.25 0.25 0.00 0.00 0.33 0.00 0.25 0.25 0.25 0.00 0.00 0.03 0.02 0.33 0.25 0.22 0.08 0.03 0.02 0.33 0.25 0.25 0.25 0.33 0.02 0.33 0.25 0.25 0.25 0.33 0.33 0.3 0.0 0.25 0.25 0.25 0.25 0.33 0.33 0.3 0.0 0.25 0.25 0.25 0.25 0.00 0.33 0.33 0.3 0.25 0.25 0.25 0.25 0.33 0.33 0.3 0.25 0.25 0.25 0.25 0.33 0.33 0.33	00 0.00 0.00 0.25 0.00 0.50 0.50 0.50 0.	0.50	1.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
13 Moonta Street Street & Promenade Mixed event 5 08.06.2013 10:00 AM 10:15 AM 0.25 18 degrees Moonta Street market 13 Moonta Street Street & Promenade Mixed non-event 6 13.07.2013 10:45 AM 11:00 AM 1:00 AM 0.25 18 degrees 13 Moonta Street Street & Promenade Mixed non-event 7 14.03.2014 10:00 AM 11:00 AM 1 28 degrees 13 Moonta Street Street & Promenade Mixed non-event 8 02.08.2014 1:00 PM 1:15 PM 0.25 14 degrees 13 Moonta Street Street & Promenade Mixed non-event 9 14.09.2014 4:20 PM 5:00 PM 0.666666667 26 degrees 14.09.2014 4:20 PM 0.666666667 26 degrees 14.09.2014 4:20 PM 0.666666667 26 degrees 14.09.2014 4:20 PM 0.666666667 26 degrees 14.09.2014 4:20 PM 0.666666667 26 degrees 14.09.2014 4:20 PM 0.666666667 26 degrees 14.09.2014 4:20	0.25 0.25 0.00 0.00 0.33 0.33 0.33 0. 0.25 0.25 0.25 0.25 0.33 0.33 0.33 0. 0.25 0.25 0.25 0.25 0.33 0.33 0. 0.25 0.25 0.25 0.00 0.33 0.33 0. 0.25 0.25 0.25 0.22 0.17 0.33 0.33 0.33 0.25 0.25 0.25 0.18 0.33 0.33 0.33 0.25 0.25 0.13 0.13 0.33 0.33 0.33 0.25 0.25 0.25 0.18 0.33 0.33 0.33 0.25 0.25 0.25 0.30 0.33 0.33 0.33	0.50	U.5U	1.00	1.00
Adelaide Central Market Commercial Mixed Intol-event 1 1802-15 6:00 PM 7:00 PM 1 10:05 PM	0.25 0.25 0.25 0.25 0.25 0.25 0.33 0.33 0.0 0.25 0.25 0.25 0.25 0.25 0.25 0.33 0.33 0.0 0.25 0.25 0.25 0.25 0.25 0.33 0.33 0.0 0.25 0.25 0.25 0.25 0.25 0.33 0.33 0.0 0.25 0.25 0.25 0.25 0.25 0.33 0.33 0.0 0.25 0.25 0.25 0.25 0.25 0.33 0.33 0.0 0.25 0.25 0.25 0.25 0.25 0.33 0.33 0.0 0.25 0.25 0.25 0.25 0.25 0.33 0.33 0.0 0.25 0.25 0.25 0.25 0.25 0.33 0.33 0.0 0.25 0.25 0.25 0.25 0.25 0.33 0.33 0.0 0.25 0.25 0.25 0.25 0.25 0.33 0.33 0.0 0.25 0.25 0.25 0.25 0.25 0.33 0.33 0.0 0.25 0.25 0.25 0.25 0.25 0.33 0.33 0.0	0.25	0.50	1.00	1.00
14 Adelaide Central Market Commercial Mixed non-event 12 02.08.2014 12:30 PM 1:00 PM 0.5 14 degrees 14 Adelaide Central Market Commercial Mixed non-event 13 14.09.2014 4:20 PM 5:00 PM 0.66666667 26 degrees 15 Rundle Place Commercial Central Business non-event 1 28.03.2014 6:20 AM 6:35 AM 0.25 27.5 degrees clear 15 Rundle Place Commercial Central Business non-event 2 01.07.2014 3:30 PM 3:45 PM 0.25 16 degrees 15 Rundle Place Commercial Central Business non-event 3 04.07.2014 1:00 PM 1:30 PM 0.5 16 degrees 15 Rundle Place Commercial Central Business non-event 4 10.07.2014 4:45 PM 5:00 PM 0.25 14 degrees	0.25	33	0.50 0.50 1.00 0.33 0.33 0.00 6.17 0.25 0.25 0.22 0.42 0.42 0.50 0.28 0.17 0.00 non-event 0.25 4.77 0.50 0.50 0.50 0.00 0.33 0.00 0.00 0.00	1.00	0.00
15 Rundle Place Commercial Central Business non-event 5 11.07.2014 9:00 PM 9:30 PM 0.5 15 degrees 15 Rundle Place Commercial Central Business event 6 11.09.2014 7:45 AM 8:00 AM 0.25 17.5 degrees 15 Rundle Place Commercial Central Business non-event 7 12.09.2014 9:30 AM 10:00 AM 0.5 17.5 degrees 15 Rundle Place Commercial Central Business non-event 8 12.09.2014 2:00 PM 2:30 PM 0.5 17.5 degrees 15 Rundle Place Commercial Central Business non-event 9 12.09.2014 6:00 PM 6:30 PM 0.5 17.5 degrees 15 Rundle Place Commercial Central Business non-event 9 12.09.2014 6:00 PM 6:30 PM 0.5 17.5 degrees 15 Rundle Place Commercial Central Business non-event 10 14.09.2014 4:30 PM 5:00 PM 0.5 26 degrees 16 Adelaide Railway Station Plaza & Square North Terrace non-event 1 12.06.2013 12:00 PM 12:30 PM 0.5 16 degrees	0.25 0.00 0.00 0.00 0.00 0.00 0.25 0.25 0.25 0.00 0.33 0.33 0.3 0.25 0.25 0.25 0.00 0.00 0.33 0.3 0.25 0.25 0.25 0.00 0.33 0.33 0.3 0.25 0.25 0.25 0.25 0.33 0.33 0.0 0.25 0.25 0.00 0.03 0.13 0.30 0.25 0.19 0.14 0.03 0.11 0.30 0.25 0.25 0.25 0.25 0.00 0.33 0.31 0.25 0.25 0.25 0.25 0.00 0.33 0.31 0.30 0.25 0.25 0.25 0.25 0.00 0.33 0.33 0.33	0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	1.00	1.00
Adelaide Railway Station Plaza & Square North Terrace non-event 1 12.06.2013 12:00 PM 12:30 PM 0.5 16 degrees non-event 16 Adelaide Railway Station Plaza & Square North Terrace non-event 3 14.03.2014 7:00 PM 7:30 PM 0.5 16 degrees 2 200 PM 7:30 PM 0.5 16 degrees 2 200 PM 7:30 PM 0.5 16 degrees 2 200 PM 7:30 PM 0.5 28 degrees 2 200 PM 7:30 PM 0.5 28 degrees 2 200 PM 7:30 PM 0.5 28 degrees 2 200 PM 7:30 PM 0.5 28 degrees 2 200 PM 7:30 PM 0.5 28 degrees 2 200 PM 7:30 PM 0.5 28 degrees 2 200 PM 7:30 PM 0.5 28 degrees 2 200 PM 7:30 PM 0.5 28 degrees 2 200 PM 7:30 PM 0.5 28 degrees 2 200 PM 0.5 28 degrees 2 200 PM 0.5 28 degrees 2 200 PM 0.5 28 degrees 2 200 PM 0.5 200	0.25	33 0.25 0.00 0.00 0.25 0.50 0.50 33 0.25 0.00 0.25 0.00 0.50 0.50	0.50	1.00 1.00 1.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0	1.00
16 Adelaide Railway Station Plaza & Square North Terrace non-event 7 09.88.2014 8:30 PM 9:00 PM 0.5 18 degrees crowd going to footy 16 Adelaide Railway Station Plaza & Square North Terrace non-event 9 09.09.2014 6:00 PM 6:30 PM 0.5 20 degrees 16 Adelaide Railway Station Plaza & Square North Terrace non-event 10 10.09.2014 9:30 AM 10:00 AM 0.5 18 degrees 16 Adelaide Railway Station Plaza & Square North Terrace non-event 11 12.09.2014 9:30 AM 0.5 18 degrees 16 Adelaide Railway Station Plaza & Square North Terrace non-event 11 12.09.2014 9:00 AM 8:30 AM 0.5 17.5 degrees 16 Adelaide Railway Station Plaza & Square North Terrace non-event 12 16.09.2014 9:00 AM 9:30 AM 0.5 18.09.2014	0.25 0.25 0.25 0.25 0.33 0.33 0.0 0.25 0.25 0.25 0.25 0.33 0.33 0.3 0.25 0.25 0.25 0.25 0.25 0.33 0.33 0.3 0.25 0.25 0.25 0.25 0.25 0.33 0.33 0.3 0.25 0.25 0.25 0.25 0.33 0.33 0.3 0.25 0.25 0.25 0.25 0.33 0.33 0.3 0.25 0.25 0.25 0.25 0.33 0.33 0.3 0.25 0.25 0.25 0.25 0.33 0.33 0.3 0.25 0.25 0.25 0.25 0.33 0.37 0.22 0.33 0.25 0.25 0.25 0.23 0.17 0.22 0.33	33	0.50 0.50 0.50 0.00 0.33 0.00 0.00 4.83 0.50 0.50 0.50 0.33 0.00 0.00 4.83 0.50 0.50 0.50 0.50 0.33 0.00 0.00 5.08 0.50 0.50 0.50 0.50 0.50	1.00	0.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1.00 0.00 1



Appendix 4.B

Data scores

Case Studies_ Adelaide - Average (m) Summary	Publicness Score			Site Eleme	ents - Overall Score	2		Site Surfaces and St	ructures - Overall Sco	re	Site Activities - Overall Score	Site Context and Conditions - C	Overall Site Elements -	Individual Score														
Combined	Average	Min	Max	Elements	Elements	s no additional Elem	nents additional only	Surfaces	Surfaces no additional	surfaces additional only	Activities	Site factors	Signage	Signage - additional	Security cameras	Security cameras additional	Security presence	Security presence - additional	Maintenance presence	ce Maintenance presence - additional	Seating - fixed	Seating- additional/ loose	Public Art	Public Art - additional	Public pride	Public pride - additional	Bins Bins - additional	Drinking fountains
Castle Street (Laneway park between Charlotte Street and Ely Place)	2	2.31	0.00	4.00 4.4	4.4	0.0		3.1	3.1	0.0	1.5	10.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gilles Street School	2	2.58	0.25	6.00 10.3	9.2	1.2		5.2	4.8	0.3	3.0	8.8	1.0	0.2	0.2	0.0	0.0	0.3	0.0	0.2	1.0	0.3	1.0	0.0	0.8	0.0	1.0	1.0
Glover Playground	3	3.05	0.25	5.08 <mark>7.0</mark>	6.8	0.3		4.8	4.6	0.1	2.6	12.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.3	1.0	0.0	0.0	0.0	1.0 0.0	1.0
Whitmore Square/Ivarrityi	3	3.63	0.50	6.17 8.2	7.6	0.5		4.5	4.5	0.0	5.3	11.1	1.0	0.5	0.0	0.0	0.0	0.0	0.5	0.0	1.0	0.0	1.0	0.0	0.4	0.0	1.0 0.0	0.5
Himeji Gardens	3	3.70	0.25	6.25 4.9	3.9	1.0		6.9	6.8	0.1	4.1	10.0	1.0	0.1	0.0	0.0	0.0	0.4	0.0	0.1	1.0	0.1	0.5	0.1	0.1	0.0	0.1	0.0
Rundle Place	3	3.82	0.25	5.92 <u>10.8</u>	7.9	2.9		2.0	2.0	0.0	4.1	9.2	1.0	0.9	1.0	0.1	0.8	0.1	0.0	0.1	0.8	0.7	0.0	0.5	0.0	0.0	0.1	0.0
Peel Street	4	4.11	3.17	5.50 <mark>9.2</mark>	6.9	2.3		10	10	0.0	5.8	12.9	1.0	0.8	0.9	0.0	0.0	0.7	0.0	0.3	0.0	0.6	1.0	0.0	0.0	0.0	0.0	0.0
Hajek Plaza	4	4.22	3.00	5.50 <mark>8.2</mark>	7.5	d .7		2.2	2.2	0.0	4.7	8.0	1.0	0.3	1.0	0.0	0.2	0.1	0.0	0.0	1.0	0.0	1.0	0.1	0.1	0.0	0.0	0.2
North Terrace (between Kintore Avenue and Frome Road)	4	4.26	3.00	5.75 <u>10.3</u>	10.0	0.3		5.2	5.2	0.0	7.2	14.6	1.0	0.1	1.0	0.0	0.0	0.0	0.2	0.0	1.0	0.1	1.0	0.0	0.9	0.0	1.0	1.0
Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26)	4	4.75	3.50	6.42 13.2	11.6	1.5		5.6	5.3	0.3	7.6	13.6	1.0	0.6	0.9	0.0	0.5	0.4	0.6	0.1	1.0	0.1	0.9	0.0	0.9	0.0	1.0	1.0
Adelaide Railway Station	4	4.88	4.25	5.58 11.3	10.6	d .7		2.0	2.0	0.0	5.6	13.8	1.0	0.2	1.0	0.0	1.0	0.3	0.6	0.0	1.0	0.2	0.3	0.0	0.0	0.0	1.0	0.0
Adelaide Central Market	4	4.88	0.25	6.33 11.9	10.3	1.6		2.3	2.0	0.3	7.2	11.4	1.0	0.7	1.0	0.0	0.5	0.1	0.5	0.0	0.8	0.8	1.0	0.0	0.1	0.0	1.0	0.0
Hindley Street	4	4.97	4.17	5.67 14.2	12.2	2.0		2.7	2.0	0 .7	7.2	12.2	1.0	0.5	1.0	0.0	1.0	0.4	0.4	0.0	0.8	1.0	1.0	0.0	0.5	0.0	1.0	0.0
Hindmarsh Square/Mukata	5	5.28	2.67	6.75	9.5	2.6		5.5	4.3	1,2	7.6	12.4	1.0	0.6	0.0	0.0	0.1	0.4	0.0	0.3	1.0	0.5	1.0	0.1	0.3	0.0	1.0 0.3	0.8
Rundle Street (between Pulteney Street and East Terrace)	5	5.34	4.00	7.00 12.3	10.2	2.2		3.4	3.1	0.3	8.3	12.2	1.0	0.3	0.8	0.0	0.2	0.2	0.1	0.1	1.0	1.0	1.0	0.3	0.1	0.0	0,1	0.0
Moonta Street	5	5.58	4.58	6.75 10.8	8.9	1.9		2.2	2.0	0.2	7.7	13.0	1.0	0.6	1.0	0.0	0.2	0.1	0.1	0.0	0.1	0.9	1.0	0.1	0.0	0.0	1.0	0.0

Case Studies_ Adelaide - Average (m) Summary	Publicness So	core		S	Site Elements - Over	all Score		Site Surfaces and S	Structures - Overall Sco	re	Site Activities - Overall Score	Site Context and Conditions - Over	erall Site Elements - Inc	ividual Score														
												Score																
Non-event	Average	Min	Max	E	Elements	Elements no additional	Elements additional onl	y Surfaces	Surfaces no additional	surfaces additional only	Activities	Site factors	Signage	Signage - additional	Security cameras	Security cameras additional	Security presence	Security presence - additional	Maintenance presence	Maintenance presence - Seating - fixed additional	Seating- additional/ lo	ose Public Art	Public Art - additional	Public pride	Public pride - additional	Bins	Bins - additional	Drinking fountains
Gilles Street School		0.25	0.25	0.25	3.7	8.7	0.0	4.7	4.7	0.0	0.0	8.7	1.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0
Castle Street (Laneway park between Charlotte Street and Ely Place)		2.10	0.25	3.25	4.3	4.3	0.0	3.1	3.1	0.0	1.4	10.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0
Glover Playground		3.05	0.25	5.08 7	7.0	6.8	D.3	4.8	4.6	0.1	2.6	12.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.0	0.0	0.0	0.0	1.0	0.0	1.0
Himeji Gardens		3.42	0.25	5.92	3.8	3.4	0.3	6.8	6.8	0.0	3.9	9.9	1.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.4	0.0	0.1	0.0	0.1	0.0	0.0
Rundle Place		3.58	0.25	5.17 1	10.2	7.8	2.4	2.0	2.0	0.0	3.8	9.3	1.0	0.9	1.0	0.0	0.8	0.0	0.0	0.0	0.7	0.0	0.4	0.0	0.0	0.1	0.0	0.0
Whitmore Square/Ivarrityi		3.63	0.50	6.17	3.2	7.6	0.5	4.5	4.5	0.0	5.3	11.1	1.0	0.5	0.0	0.0	0.0	0.0	0.5	0.0	0.0	1.0	0.0	0.4	0.0	1.0	0.0	0.5
Hajek Plaza		3.98	3.00	5.25 7	7.0	6.6	0.4	2.0	2.0	0.0	4.6	7.5	1.0	0.4	1.0	0.0	0.1	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.4	0.0	0.1
Peel Street		4.11	3.17	5.50 9	9.2	6.9	2.3	1.0	10	0.0	5.8	12.9	1.0	0.8	0.9	0.0	0.0	0.7	0.0	0.0	0.6	1.0	0.0	0.0	0.0	0 1	0.0	0.0
North Terrace (between Kintore Avenue and Frome Road)		4.21	3.00	5.75 1	10.1	9.9	0.2	5.1	5.1	0.0	7.0	14.6	1.0	0.0	1.0	0.0	0.0	0.0	0.2	0.0	0.1	1.0	0.0	0.9	0.0	1.0	0.0	1.0
Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26)		4.56	3.50	5.83 1	12.2	11.4	0.8	5.6	5.3	0.3	7.5	14.1	1.0	0.5	1.0	0.0	0.5	0.2	0.7	0.0	0.0	0.9	0.0	0.9	0.0	1.0	0.0	1.0
Adelaide Central Market		4.77	0.25	6.33 1	11.6	10.1	1.5	2.3	2.0	0.3	6.8	11.4	1.0	0.7	1.0	0.0	0.4	0.0	0.5	0.0	0.8	1.0	0.0	0.0	0.0	1.0	0.0	0.0
Adelaide Railway Station		4.88	4.25	5.58 1	11.3	10.6	d .7	2.0	2.0	0.0	5.6	13.8	1.0	0.2	1.0	0.0	1.0	0.3	0.6	0.0	0.2	0.3	0.0	0.0	0.0	1.0	0.0	0.0
Rundle Street (between Pulteney Street and East Terrace)		4.94	4.00	6.00 1	10.7	9.4	1.3	3.3	3.1	0.2	7.4	12.3	1.0	0.1	0.7	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.2	0.0	0.0	1.0	0.0	0.0
Hindley Street		4.97	4.17	5.67	14.2	12.2	2.0	2.7	2.0	0 .7	7.2	12.2	1.0	0.5	1.0	0.0	1.0	0.4	0.4	0.0	1.0	1.0	0.0	0.5	0.0	1.0	0.0	0.0
Moonta Street		5.56	4.75	6.33	9.7	8.4	1.3	1.9	1.9	0.0	6.9	13.0	1.0	0.4	1.0	0.0	0.1	0.0	0.1	0.0	0.9	1.0	0.0	0.0	0.0	1.0	0.0	0.0
Hindmarsh Square/Mukata		6.75	6.75	6.75 9	9.0	9.0	0.0	6.0	5.0	1.0	4.0	13.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0

Case Studies_ Adelaide - Average (m) Summary	Publicness Score	е		Site Eleme	ents - Overall S	Score		Site Surfaces and St	ructures - Overall Scor	e	Site Activities - Overall Score	Site Context and Conditions - Overa	Site Elements - Indiv	idual Score														
Event	Average	Min	Max	Elements	Eler	ements no additional	Elements additional only	Surfaces	Surfaces no additional	surfaces additional only	Activities	Site factors	Signage	Signage - additional	Security cameras	Security cameras additional	Security presence	Security presence - additional	Maintenance presence	e Maintenance presence - additional	Seating - fixed	Seating- additional/ loose	Public Art	Public Art - additional	Public pride	Public pride - additional Bins	Bins - addit	Drinking fountains
Castle Street (Laneway park between Charlotte Street and Ely Place)		4.00	4.00	4.00 5.0	5.0)	0.0	3.0	3.0	0.0	2.0	11.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
North Terrace (between Kintore Avenue and Frome Road)		4.75	4.75	4.75 12.0	11.0	.0	10	6.0	6.0	0.0	9.0	15.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	0.0	1.0
Gilles Street School		4.92	3.67	6.00 12.0	9.7	7	2.3	5.7	5.0	0 .7	6.0	9.0	1.0	0.3	0.0	0.0	0.0	0.7	0.0	0.3	1.0	0.7	1.0	0.0	0.7	0.0	0.3	1.0
Hindmarsh Square/Mukata		4.98	2.67	6.75 12.7	9.6	5	3.1	5.4	4.2	12	8.3	12.3	1.0	0.7	0.0	0.0	0.1	0.5	0.0	0.3	1.0	0.6	1.0	0.1	0.1	0.0	0.4	0.7
Hajek Plaza		5.08	4.50	5.50 12.7	10.	.7	2.0	3.0	3.0	0.0	5.0	9.7	1.0	0.0	1.0	0.0	0.7	0.7	0.0	0.0	1.0	0.0	1.0	0.7	0.7	0.0	0.0	0.7
Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26)		5.35	3.50	6.42 16.3	12.	.5	3.8	5.5	5.3	0.3	8.0	12.0	1.0	1.0	0.8	0.0	0.5	0.8	0.5	0.5	1.0	0.5	1.0	0.0	0.8	0.0	0.5	1.0
Moonta Street		5.67	4.58	6.75 14.5	10.	.5	4.0	3.5	2.5	1.0	10.5	13.0	1.0	1.0	1.0	0.0	0.5	0.5	0.0	0.0	0.5	1.0	1.0	0.5	0.0	0.0	0.5	0.0
Rundle Place		5.92	5.92	5.92 16.0	9.0)	7.0	2.0	2.0	0.0	7.0	8.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	0.0	1.0	0.0	0.0	0.0	0.0
Adelaide Central Market		6.17	6.17	6.17 16.0	13.0	.0	3.0	2.0	2.0	0.0	12.0	11.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	0.0	1.0	0.0	0.0	0.0
Himeji Gardens		6.25	6.25	6.25 15.0	8.0)	7.0	8.0	7.0	1.0	6.0	11.0	1.0	1.0	0.0	0.0	0.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	1.0	0.0
Rundle Street (between Pulteney Street and East Terrace)		6.67	6.33	7.00 17.7	12.	.7	5.0	3.7	3.0	0 .7	11.3	12.0	1.0	1.0	1.0	0.0	1.0	1.0	0.3	0.3	1.0	1.0	1.0	0.7	0.3	0.0	0.3	0.0

Case Studies_ Adelaide - Average (m) Summary								Site Surfaces ar	d Structures - Individual	Score											Site Activities	s - Individual Score								
case statics_ Adelaide Average (III) summary								Site Surraces an	a structures mairiaudi												Site Activities	3 marviadar score								
Combined	Lighting	Lighting - additional	Transport - access to	Food - access to	Beverage - access to	Barriers/ fencing	Amenities - other	Paving	Paving - additional	Gardens	Gardens - additional	Lawn	Lawn- additional	Shade - vegetation	Shade - vegetation additional	Shade - built	Shade - built additional	Water	Water - additional	Surfaces - other	Formal recreatio	n (sport) Informal recreation (seating)	Commercial activities	Cultural activities	Passing through	Tourist activities (sightseeing)	Prohibited activities of illegitimate	or Informal recreation (reading)	Informal recreation down)	n (lying Informal recreation (picnic)
Castle Street (Laneway park between Charlotte Street and Ely Place)	0.9	0.0	0.2	0.0	0.0	0.0	0.4	1.0	0.0	1.0	0.0	0.2	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0
Gilles Street School	1.0	0.0	0.2	0.3	0.3	0.5	0.8	1.0	0.0	1.0	0.0	0.3	0.0	1.0	0.0	1.0	0.3	0.0	0.0	0.5	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glover Playground	0.0	0.0	0.3	0.0	0.0	1.0	0.5	1.0	0.0	0.0	0.0	1.0	0.0	1.0	0.0	1.0	0.1	0.0	0.0	0.6	0.0	0.6	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1
Whitmore Square/Ivarrityi	1.0	0.0	0.5	0.0	0.0	0.5	0.4	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.8	0.0	0.0	0.7	0.0	0.5	0.1	0.1	0.0
Himeji Gardens	0.1	0.1	0.0	0.1	0.1	0.7	0.2	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.1	1.0	0.0	0.8	0.0	0.7	0.2	0.0	0.2	0.5	0.3	0.1	0.2	0.0
Rundle Place	1.0	0.5	0.4	0.7	0.7	0.9	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.9	0.0	0.0	0.0	0.0	0.0
Peel Street	1.0	0.0	0.2	0.6	0.7	0.8	0.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	0.0	1.0	0.2	0.3	0.0	0.0	0.0
Hajek Plaza	1.0	0.1	1.0	0.1	0.1	0.0	0.2	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.6	0.0	0.0	1.0	0.4	0.2	0.0	0.0	0.0
North Terrace (between Kintore Avenue and Frome Road)	0.9	0.1	0.9	0.4	0.3	0.1	0.4	1.0	0.0	1.0	0.0	0.8	0.0	1.0	0.0	0.0	0.0	1.0	0.0	0.2	0.0	0.9	0.3	0.3	1.0	0.5	0.7	0.1	0.1	0.0
Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26)	1.0	0.2	1.0	0.4	0.4	0.5	0.5	1.0	0.2	1.0	0.0	1.0	0.0	0.9	0.0	1.0	0.1	0.0	0.0	0.4	0.0	0.6	0.1	0.0	1.0	0.4	0.2	0.1	0.2	0.1
Adelaide Railway Station	1.0	0.0	1.0	0.6	0.6	0.7	0.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.5	0.8	0.0	1.0	0.4	0.1	0.0	0.0	0.0
Adelaide Central Market	1.0	0.0	0.3	0.9	0.9	0.8	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.3	0.0	0.0	0.0	0.0	0.1	0.8	0.1	0.8	0.8	0.3	0.0	0.0	0.0
Hindley Street	1.0	0.1	1.0	1.0	1.0	0.5	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.7	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	0.7	0.3	0.0	0.0	0.0
Hindmarsh Square/Mukata	0.9	0.4	0.8	0.5	0.6	0.7	0.9	1.0	0.3	1.0	0.0	1.0	0.0	1.0	0.0	0.1	0.9	0.0	0.0	0.3	0.0	0.8	0.4	0.0	1.0	0.3	0.1	0.2	0.3	0.3
Rundle Street (between Pulteney Street and East Terrace)	1.0	0.2	1.0	1.0	1.0	0.3	0.7	1.0	0.0	1.0	0.0	0.0	0.0	0.1	0.0	0.9	0.2	0.0	0.1	0.2	0.0	0.2	1.0	0.1	1.0	0.3	0.8	0.0	0.0	0.0
Moonta Street	1.0	0.1	0.7	1.0	1.0	0.1	0.7	1.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.0	0.1	0.0	0.0	1.0	0.1	1.0	0.8	0.2	0.0	0.0	0.0

Case Studies_ Adelaide - Average (m) Summary								Site Surfaces ar	nd Structures - Individu	al Score											Site Activities -	Individual Score						_		
Non-event	Lighting	Lighting - additional	Transport - access to	Food - access to	Beverage - access to	o Barriers/ fencing	Amenities - other	Paving	Paving - additional	Gardens	Gardens - additional	Lawn	Lawn- additional	Shade - vegetation	Shade - vegetation additional	Shade - built	Shade - built additional	Water	Water - additional	Surfaces - other	Formal recreation (s	sport) Informal recreation (seating)	Commercial activities	Cultural activities	Passing through	Tourist activities (sightseeing)	Prohibited activities of illegitimate	or Informal recreation (reading)	Informal recreation (lying down)	g Informal recreation (picnic)
Gilles Street School	1.0	0.0	0.3	0.0	0.0	0.3	0.7	1.0	0.0	1.0	0.0	0.3	0.0	1.0	0.0	1.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Castle Street (Laneway park between Charlotte Street and Ely Place)	0.9	0.0	0.3	0.0	0.0	0.0	0.4	1.0	0.0	1.0	0.0	0.3	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0
Glover Playground	0.0	0.0	0.3	0.0	0.0	1.0	0.5	1.0	0.0	0.0	0.0	1.0	0.0	1.0	0.0	1.0	0.1	0.0	0.0	0.6	0.0	0.6	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1
Himeji Gardens	0.0	0.0	0.0	0.0	0.0	0.7	0.1	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	0.8	0.0	0.8	0.1	0.0	0.2	0.6	0.2	0.1	0.2	0.0
Rundle Place	1.0	0.4	0.4	0.7	0.7	0.9	0.4	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.9	0.0	0.0	0.0	0.0	0.0
Nhitmore Square/Ivarrityi	1.0	0.0	0.5	0.0	0.0	0.5	0.4	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.8	0.0	0.0	0.7	0.0	0.5	0.1	0.1	0.0
lajek Plaza	1.0	0.0	1.0	0.0	0.0	0.0	0.1	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	1.0	0.5	0.1	0.0	0.0	0.0
Peel Street	1.0	0.0	0.2	0.6	0.7	0.8	0.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	0.0	1.0	0.2	0.3	0.0	0.0	0.0
North Terrace (between Kintore Avenue and Frome Road)	0.9	0.1	0.9	0.4	0.3	0.0	0.3	1.0	0.0	1.0	0.0	0.8	0.0	1.0	0.0	0.0	0.0	1.0	0.0	0.1	0.0	0.9	0.3	0.3	1.0	0.5	0.7	0.1	0.1	0.0
Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26)	1.0	0,1	1.0	0.3	0.3	0.4	0.4	1.0	0.2	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0,1	0.0	0.0	0.3	0.0	0.7	0.0	0.0	1.0	0.4	0.2	0.1	0.2	0,1
Adelaide Central Market	1.0	0.0	0.3	0.9	0.9	0.8	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.3	0.0	0.0	0.0	0.0	0.0	0.8	0.1	0.8	0.8	0.3	0.0	0.0	0.0
Adelaide Railway Station	1.0	0.0	1.0	0.6	0.6	0.7	0.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.5	0.8	0.0	1.0	0.4	0.1	0.0	0.0	0.0
Rundle Street (between Pulteney Street and East Terrace)	1.0	0.0	1.0	1.0	1.0	0.1	0.6	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	0.2	0.0	0.0	0.1	0.0	0.2	1.0	0.0	1.0	0.2	0.7	0.0	0.0	0.0
Hindley Street	1.0	0.1	1.0	1.0	1.0	0.5	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.7	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	0.7	0.3	0.0	0.0	0.0
Moonta Street	1.0	0.0	0.6	1.0	1.0	0.0	0.6	1.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	0.7	0.1	0.0	0.0	0.0
Hindmarsh Square/Mukata	1.0	0.0	1.0	0.0	0.0	0.0	1.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0

Case Studies_ Adelaide - Average (m) Summary							Site Surfaces and Si	tructures - Individu	ual Score											Site Activities - Indiv	vidual Score								
Event	Lighting Lighting - additional	Transport - access to	Food - access to	Beverage - acce	cess to Barriers/ fencing	Amenities - other	Paving	Paving - additional	Gardens	Gardens - additional	Lawn	Lawn- additional	Shade - vegetation	Shade - vegetation additional	Shade - built	Shade - built additional	Water	Water - additional	Surfaces - other	Formal recreation (sport)	Informal recreation (seating)	Commercial activities	Cultural activities	Passing through	Tourist activities (sightseeing)		Informal recreation (reading)	Informal recreation (lying down)	Informal recreation (picnic)
Castle Street (Laneway park between Charlotte Street and Ely Place)	1.0 0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	1.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0
North Terrace (between Kintore Avenue and Frome Road)	1.0 0.0	1.0	0.0	0.0	1.0	1.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	0.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	0.0	1.0	1.0	1.0	0.0	0.0	0.0
Silles Street School	1.0	0.0	0.7	0.7	0.7	1.0	1.0	0.0	1.0	0.0	0.3	0.0	1.0	0.0	1.0	0.7	0.0	0.0	0.7	0.0	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
lindmarsh Square/Mukata	0.9	0.8	0.6	0.7	0.8	0.9	1.0	0.3	1.0	0.0	1.0	0.0	1.0	0.0	0.1	0.9	0.0	0.0	0.1	0.0	0.8	0.5	0.0	1.0	0.4	0.1	0.2	0.4	0.3
lajek Plaza	1.0 0.7	1.0	0.7	0.7	0.0	0.7	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.3	0.0	0.0	1.0	0.3	0.7	0.0	0.0	0.0
Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26)	1.0 0.5	1.0	0.8	0.8	0.8	0.8	1.0	0.0	1.0	0.0	1.0	0.0	0.8	0.0	1.0	0.3	0.0	0.0	0.5	0.0	0.5	0.3	0.0	1.0	0.5	0.3	0.0	0.0	0.0
Moonta Street	1.0 0.5	1.0	1.0	1.0	0.5	1.0	1.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.5	1.0	0.0	0.0	0.5	0.0	0.0	1.0	0.5	1.0	1.0	0.5	0.0	0.0	0.0
Rundle Place	1.0	0.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0
delaide Central Market	1.0	0.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	1.0	1.0	1.0	0.0	0.0	0.0
limeji Gardens	1.0	0.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	1.0	1.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0
Rundle Street (between Pulteney Street and East Terrace)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	0.0	0.0	0.0	0.3	0.0	0.7	0.3	0.0	0.3	0.3	0.0	0.3	1.0	0.3	1.0	0.7	1.0	0.0	0.0	0.0

Case Studies_ Adelaide - Average (m) Summary												Site Context and	Conditions - Individua	l Score											
Combined	Formal recreation (f	itness Informal recreation (other)	Informal recreation	(play) Buskers	Event Setup	Construction Works	Commuting	Business (in course of work)	Social or entertainn	ent Shopping or comme	ce Not Evident	Natural Surveillance	Constant Users	Clear Design Intent	High Prospect/ Low Refuge	Significance & Value	Social Imageability	Restorative Places	Social Interaction & Territoriality	Orientation	Movement	View	Change	Neighbourhood Awareness	Private-Public Awareness Thematic Continuity
Castle Street (Laneway park between Charlotte Street and Ely Place)	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	1.0	0.7	1.0	1.0	0.0	1.0	1.0	1.0	1.0	0.0	1.0	0.0	1.0	1.0
Gilles Street School	0.0	0.2	0.2	0.2	0.5	0.0	0.0	0.3	0.5	0.3	0.2	1.0	0.8	0.2	0.0	1.0	1.0	0.0	1.0	1.0	1.0	0.0	0.0	0.0	1.0
Glover Playground	0.3	0.0	0.6	0.0	0.0	0.0	0.0	0.3	0.6	0.0	0.0	1.0	0.6	1.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0
Whitmore Square/Ivarrityi	0.3	0.2	0.0	0.0	0.0	0.5	0.7	0.2	0.7	0.0	0.5	1.0	0.2	1.0	0.9	1.0	1.0	0.0	1.0	1.0	0.0	1.0	0.0	1.0	1.0
Himeji Gardens	0.1	0.1	0.0	0.0	0.3	0.0	0.1	0.2	0.8	0.2	0.1	0.1	0.8	0.6	0.0	1.0	1.0	1.0	1.0	0.0	1.0	0.9	0.7	0.0	1.0
Rundle Place	0.0	0.1	0.0	0.0	0.1	0.0	0.9	0.7	0.5	0.3	0.0	0.4	0.3	0.0	0.4	1.0	1.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0
Peel Street	0.0	0 1	0.0	0.0	0.1	0.2	1.0	0.8	0.8	0 1	0.6	1.0	1.0	0.0	0.9	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Hajek Plaza	0.1	0.1	0.0	0.0	0.2	0.0	0.9	0.1	0.8	0.0	0.4	0.9	0.9	0.1	0.1	1.0	1.0	1.0	0.8	0.0	0.0	0.0	0.3	0.0	1.0
North Terrace (between Kintore Avenue and Frome Road)	0.0	0.3	0.1	0.0	0.1	0.1	1.0	0.4	0.8	0.2	0.4	1.0	0.9	1.0	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26)	0.6	0.5	0.0	0.0	0.2	0.6	0.9	0.8	0.8	0.1	0.4	0.9	0.8	0.9	0.9	1.0	1.0	1.0	1.0	0.9	0.9	0.9	0.2	0.9	1.0
Adelaide Railway Station	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.9	0.4	0.4	0.2	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	0.8	1.0	1.0
Adelaide Central Market	0.0	0.0	0.0	0.5	0.1	0.0	0.7	0.8	0.8	0.8	0.5	0.4	1.0	0.0	0.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Hindley Street	0.0	0.1	0.0	0.4	0.0	0.0	1.0	1.0	1.0	0.5	0.2	1.0	1.0	0.0	0.2	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Hindmarsh Square/Mukata	0.2	0.2	0.1	0.0	0.7	0.0	1.0	0.5	0.6	0.3	0.8	1.0	0.8	0.6	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	0.0	1.0	1.0
Rundle Street (between Pulteney Street and East Terrace)	0.0	0.1	0.0	0.3	0.3	0.0	1.0	0.8	1.0	0.9	0.5	1.0	1.0	0.1	0.0	1.0	1.0	0.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Moonta Street	0.0	0.0	0.0	0.1	0.2	0.0	1.0	0.8	0.9	0.9	0.7	1.0	1.0	0.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Case Studies_ Adelaide - Average (m) Summary												Site Context and	Conditions - Individua	Score												
Non-event	Formal recreation (fitne groups)	ess Informal recreation (other)	Informal recreation ((play) Buskers	Event Setup	Construction Works	Commuting	Business (in course of work)	Social or entertainme	nt Shopping or commerce	e Not Evident	Natural Surveillance	Constant Users	Clear Design Intent	High Prospect/ Low Refuge	Significance & Value	Social Imageability	Restorative Places	Social Interaction & Territoriality	Orientation	Movement	View	Change	Neighbourhood Awareness	Private-Public Awareness	Thematic Continuity
Gilles Street School	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.7	0.3	0.0	1.0	1.0	0.0	1.0	1.0	1.0	0.0	0.0	0.0	1.0	0.7
Castle Street (Laneway park between Charlotte Street and Ely Place)	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	1.0	0.6	1.0	1.0	0.0	1.0	1.0	1.0	1.0	0.0	1.0	0.0	1.0	1.0	0.0
Glover Playground	0.3	0.0	0.6	0.0	0.0	0.0	0.0	0.3	0.6	0.0	0.0	1.0	0.6	1.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0
Himeji Gardens	0.1	0.1	0.0	0.0	0.2	0.0	0.1	0.1	0.8	0.1	0.1	0.1	0.8	0.6	0.0	1.0	1.0	1.0	1.0	0.0	1.0	0.9	0.7	0.0	1.0	0.9
Rundle Place	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.7	0.4	0.2	0.0	0.4	0.3	0.0	0.4	1.0	1.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1
Whitmore Square/Ivarrityi	0.3	0.2	0.0	0.0	0.0	0.5	0.7	0.2	0.7	0.0	0.5	1.0	0.2	1.0	0.9	1.0	1.0	0.0	1.0	1.0	0.0	1.0	0.0	1.0	1.0	1.0
Hajek Plaza	0.1	0.1	0.0	0.0	0.3	0.0	0.9	0.0	0.7	0.0	0.4	0.9	0.8	0.0	0.0	1.0	1.0	1.0	0.7	0.0	0.0	0.0	0.1	0.0	1.0	1.0
Peel Street	0.0	0 1	0.0	0.0	0.1	0.2	1.0	0.8	0.8	0 1	0.6	1.0	1.0	0.0	0.9	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
North Terrace (between Kintore Avenue and Frome Road)	0.0	0.3	0.1	0.0	0.0	0.0	1.0	0.3	0.8	0.2	0.4	1.0	0.9	1.0	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26)	0.8	0.5	0.0	0.0	0.0	0.7	1.0	0.7	0.8	0.0	0.4	1.0	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	1.0	1.0	1.0
Adelaide Central Market	0.0	0.0	0.0	0.5	0.0	0.0	0.7	0.8	0.8	0.8	0.4	0.4	1.0	0.0	0.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Adelaide Railway Station	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.9	0.4	0.4	0.2	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	0.8	1.0	1.0	1.0
Rundle Street (between Pulteney Street and East Terrace)	0.0	0.0	0.0	0.1	0.1	0.0	1.0	0.8	1.0	1.0	0.3	1.0	1.0	0.1	0.0	1.0	1.0	0.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Hindley Street	0.0	0.1	0.0	0.4	0.0	0.0	1.0	1.0	1.0	0.5	0.2	1.0	1.0	0.0	0.2	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Moonta Street	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.7	0.9	0.9	0.6	1.0	1.0	0.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Hindmarsh Square/Mukata	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	0.0	1.0	1.0	1.0

Case Studies_ Adelaide - Average (m) Summary												Site Context and Co	onditions - Individua	Score											
Event	Formal recreation (fit groups)	ness Informal recreation (other)	Informal recreation (play)	Buskers	Event Setup	Construction Works	_	Business (in course of work)	Social or entertainment	Shopping or commerce	Not Evident	Natural Surveillance	Constant Users	Clear Design Intent	High Prospect/ Low Refuge	Significance & Value	Social Imageability	Restorative Places	Social Interaction & Territoriality	Orientation	Movement	View	Change	Neighbourhood Awareness	Private-Public Awareness Thematic Continuity
Castle Street (Laneway park between Charlotte Street and Ely Place)	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	0.0	1.0	0.0	1.0	1.0 0.0
North Terrace (between Kintore Avenue and Frome Road)	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
illes Street School	0.0	0.3	0.3	0.3	1.0	0.0	0.0	0.7	1.0	0.7	0.3	1.0	1.0	0.0	0.0	1.0	1.0	0.0	1.0	1.0	1.0	0.0	0.0	0.0	1.0
Hindmarsh Square/Mukata	0.2	0.2	0.1	0.0	0.8	0.0	1.0	0.6	0.7	0.3	0.7	1.0	0.8	0.5	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	0.0	1.0	1.0
lajek Plaza	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.3	1.0	0.0	0.3	1.0	1.0	0.3	0.3	1.0	1.0	1.0	1.0	0.0	0.0	0.0	1.0	0.0	1.0
Elder Park (Stella Bowen Park/Tarntanya Wama, Park 26)	0.3	0.8	0.0	0.0	1.0	0.5	0.8	1.0	0.8	0.3	0.3	0.8	0.5	0.8	0.8	1.0	1.0	1.0	1.0	0.8	0.8	0.8	0.3	0.8	1.0
Aoonta Street	0.0	0.0	0.0	0.5	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
undle Place	0.0	1.0	0.0	0.0	1.0	0.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0 0.0
delaide Central Market	0.0	0.0	0.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	0.0	0.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
imeji Gardens	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	1.0	1.0	0.0	0.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	0.0	1.0
Rundle Street (between Pulteney Street and East Terrace)	0.0	0.3	0.0	1.0	1.0	0.0	1.0	1.0	1.0	0.7	1.0	1.0	1.0	0.0	0.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Appendix 4.C

T-test results

		Average (mean) Non-event	Average (mean) Event	P value	SIGNIFICANT
		Non-event 0.552	0.753		NOT NOT
	Users numbers - 0-20	0.182	0.133	0.494	NOT
	User numbers - 21-100	0.263	0.100	0.019	SIGNIFICANT
		0.219 0.336			NOT
		0.445	0.233	0.022	101
	User numbers 101+	0.555	0.767	0.022	
		0.453	0.733		SIGNIFICANT
	User Age 21-60 User Age 61+	0.993	0.467		NOT
	Typology of public - The Defined Public	0.854	0.767		NOT
		0.380	0.800	0.000	SIGNIFICANT
	Typology of public - The Illegitimate Public	0.861		0.448	NOT
ŀ		0.374 54.270	0.333 53.167		NOT
					NOT
	Presence - Individuals	42.555	36.500	0.365	NOT
res	Presence - Groups	57.445	63.500	0.365	NOT
asn		0.263	0.600		SIGNIFICANT
	length of stay - short length of stay - medium	80.620 13.942	22.000		SIGNIFICANT
육 [5.438	18.000		SIGNIFICANT
	Signage	0.993	1.000	0.319	NOT
		0.373	0.700		SIGNIFICANT
	Security cameras Security cameras additonal	0.699	0.033		SIGNIFICANT
		0.275	0.367		NOT
		0.163	0.633		SIGNIFICANT
- [Maintenance presence	0.222	0.133		NOT
Ī	Maintenance presence - additional	0.026	0.300		SIGNIFICANT
	Seating - fixed Seating- additional/ loose	0.804	0.600		SIGNIFICANT SIGNIFICANT
		0.784	0.933		SIGNIFICANT
	Public Art - additional	0.039	0.267	0.011	SIGNIFICANT
	Public pride	0.235			NOT
	Public pride - additional Bins	0.000 0.739	0.900		NOT SIGNIFICANT
		0.000	0.333		SIGNIFICANT
	Drinking fountains	0.275	0.567	0.005	SIGNIFICANT
	Lighting	0.876	0.967	0.037	SIGNIFICANT
		0.046 0.601	0.700		SIGNIFICANT
,,	transport - access to Food - access to	0.451	0.700		NOT SIGNIFICANT
en		0.451	0.733		SIGNIFICANT
Site Ele	Barries - fencing	0.451	0.700	0.011	SIGNIFICANT
	other	0.503	0.900		SIGNIFICANT
	-	NA 0.020	0.100		NOT NOT
		0.556	0.900		SIGNIFICANT
	Gardens - additional	0.000	0.000	NA	NOT
		0.353	0.567		SIGNIFICANT
ě		0.000	0.667		NOT SIGNIFICANT
덜		0.000	0.000		NOT
	Shade - built	0.562	0.467	0.350	NOT
S		0.111	0.533		SIGNIFICANT
<u> </u>		0.000	0.033		NOT
ţe		0.170	0.300		NOT
	formal recreation (sport)	0.000	0.000	NA	NOT
	Informal recreation (seating)	10.863	7.400		NOT
Ī	commerical activities Cultural activities	15.360 0.432	1.833		NOT NOT
		56.309	42.167		SIGNIFICANT
	Tourist activities (sightseeing)	6.261	6.267		NOT
- 1	Prohibited activities or illegitmate	3.194	3.200		NOT
	Informal recreation (reading) Informal recreation (lying down)	0.504	0.833		NOT NOT
		0.504	0.833		NOT
		3.410	2.333	0.508	NOT
Ī	Informal recreation (other)	1.252	10.500		SIGNIFICANT
	Informal recreation (play)	2.230	1.167		NOT
	event setup	0.072 0.052			NOT SIGNIFICANT
	construction works	0.118			NOT
l.		0.784	0.833	0.527	NOT
	commuting			0.022	SIGNIFICANT
(0	Business (in course of work)	0.516	0.733		
Activities	Business (in course of work) Social or entertainment	0.673	0.833	0.048	SIGNIFICANT
te Activities	Business (in course of work) Social or entertainment			0.048 0.116	
Site Activities	Business (in course of work) Social or entertainment Shopping or commerce	0.673 0.275	0.833 0.433	0.048 0.116 0.029	SIGNIFICANT
Site Activities	Business (in course of work) Social or entertainment Shopping or commerce not evident Natural Surveillance Constant Users	0.673 0.275 0.307 0.863 0.817	0.833 0.433 0.533 0.867 0.833	0.048 0.116 0.029 0.955 0.831	SIGNIFICANT NOT SIGNIFICANT NOT
Site Activities	Business (in course of work) Social or entertainment Shopping or commerce not evident Natural Surveillance Constant Users Clear Design intent	0.673 0.275 0.307 0.863 0.817	0.833 0.433 0.533 0.867 0.833	0.048 0.116 0.029 0.955 0.831 0.443	SIGNIFICANT NOT SIGNIFICANT NOT NOT
Site Activities	Business (in course of work) Social or entertainment Shopping or commerce not evident Natural Surveillance Constant Users Clear Design intent	0.673 0.275 0.307 0.863 0.817	0.833 0.433 0.533 0.867 0.833	0.048 0.116 0.029 0.955 0.831 0.443	SIGNIFICANT NOT SIGNIFICANT NOT
Site Activities	Business (in course of work) Social or entertainment Shopping or commerce not evident Natural Surveillance Constant Users Clear Design intent High Prospect/ low refuge	0.673 0.275 0.307 0.863 0.817 0.477	0.833 0.433 0.533 0.867 0.833 0.400	0.048 0.116 0.029 0.955 0.831 0.443	SIGNIFICANT NOT SIGNIFICANT NOT NOT NOT
Site Activities	Business (in course of work) Social or entertainment Shopping or commerce not evident Natural Surveillance Constant Users Clear Design intent High Prospect/ low refuge Significance and Value Social imageability	0.673 0.275 0.307 0.863 0.817 0.477 0.582 0.935	0.833 0.433 0.533 0.867 0.833 0.400 0.600	0.048 0.116 0.029 0.955 0.831 0.443 0.855 0.414	SIGNIFICANT NOT SIGNIFICANT NOT NOT NOT
Site Activities	Business (in course of work) Social or entertainment Shopping or commerce not evident Natural Surveillance Constant Users Clear Design intent High Prospect/ low refuge Significance and Value Social imageability Restorative places Social interaction and territoriality	0.673 0.275 0.307 0.863 0.817 0.477 0.582 0.935 NA 0.373	0.833 0.433 0.533 0.867 0.833 0.400 0.600 0.967 NA 0.667 0.967	0.048 0.116 0.029 0.955 0.831 0.443 0.855 0.414 NA 0.004 0.262	SIGNIFICANT NOT NOT NOT NOT NOT SIGNIFICANT NOT NOT NOT
Site Activities	Business (in course of work) Social or entertainment Shopping or commerce not evident Natural Surveillance Constant Users Clear Design intent High Prospect/ low refuge Significance and Value Social imageability Restorative places Social interaction and territoriality Orientation	0.673 0.275 0.307 0.863 0.817 0.477 0.582 0.935 NA 0.373 0.922 0.869	0.833 0.433 0.533 0.867 0.833 0.400 0.600 0.967 NA 0.667 0.967	0.048 0.116 0.029 0.955 0.831 0.443 0.855 0.414 NA 0.004 0.262 0.632	SIGNIFICANT NOT SIGNIFICANT NOT NOT NOT NOT SIGNIFICANT NOT NOT
Conditions Site Activities	Business (in course of work) Social or entertainment Shopping or commerce not evident Natural Surveillance Constant Users Clear Design intent High Prospect/ low refuge Significance and Value Social imageability Restorative places Social interaction and territoriality	0.673 0.275 0.307 0.863 0.817 0.477 0.582 0.935 NA 0.373	0.833 0.433 0.533 0.867 0.833 0.400 0.600 0.967 NA 0.667 0.967	0.048 0.116 0.029 0.955 0.831 0.443 0.855 0.414 NA 0.004 0.262 0.632 0.008	SIGNIFICANT NOT NOT NOT NOT NOT SIGNIFICANT NOT NOT
and Conditions	Business (in course of work) Social or entertainment Shopping or commerce not evident Natural Surveillance Constant Users Clear Design intent High Prospect/ low refuge Significance and Value Social imageability Restorative places Social interaction and territoriality Orientation Movement	0.673 0.275 0.307 0.863 0.817 0.477 0.582 0.935 NA 0.373 0.922 0.869 0.778	0.833 0.433 0.533 0.867 0.833 0.400 0.600 0.967 NA 0.667 0.967 0.833 0.500	0.048 0.116 0.029 0.955 0.831 0.443 0.855 0.414 NA 0.004 0.262 0.632 0.008 0.109	SIGNIFICANT NOT SIGNIFICANT NOT NOT NOT NOT SIGNIFICANT NOT SIGNIFICANT NOT SIGNIFICANT NOT
ext and Conditions	Business (in course of work) Social or entertainment Shopping or commerce not evident Natural Surveillance Constant Users Clear Design intent High Prospect/ low refuge Significance and Value Social imageability Restorative places Social interaction and territoriality Orientation Movement View Change	0.673 0.275 0.307 0.863 0.817 0.477 0.582 0.935 NA 0.373 0.922 0.869 0.778 0.902 0.601	0.833 0.433 0.533 0.867 0.833 0.400 0.600 0.967 NA 0.667 0.967 0.833 0.500 0.767	0.048 0.116 0.029 0.955 0.831 0.443 0.855 0.414 NA 0.004 0.262 0.632 0.008 0.109 0.101	SIGNIFICANT NOT NOT NOT NOT NOT NOT SIGNIFICANT NOT SIGNIFICANT NOT NOT NOT NOT NOT NOT