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THE ASSESSMENT AND MANAGEMENT OF SOCIAL IMPACTS IN URBAN TRANSPORT INFRASTRUCTURE PROJECTS

Exploring relationships between urban governance, project management and impact assessment practices in different geographical contexts

Lara Katharine Mottee

L K. Mottee

The assessment and management of social impacts in urban transport infrastructure projects.

Thesis, University of Groningen, The Netherlands and Macquarie University, Sydney, Australia.

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The assessment and management of social impacts in urban transport infrastructure projects

Exploring relationships between urban governance, project management and impact assessment practices in different geographical contexts

PhD thesis

to obtain the degree of PhD at the University of Groningen on the authority of the Rector Magnificus Prof. C. Wijmenga and in accordance with the decision by the College of Deans

and

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Macquarie University
on the authority of the
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and in accordance with
the decision by the Research and Research Training Council

Double PhD degree

This thesis will be defended in public on

Tuesday 8 December 2020 at 9.00 hours

By

Lara Katharine Mottee

born on 12 April 1982 in Sydney, Australia

Supervisors

Prof. F.M.D. Vanclay (University of Groningen)

Prof. R. Howitt (Macquarie University)

Prof. E.J.M.M. Arts (University of Groningen)

Co-Supervisors

Dr F. Miller (Macquarie University)

Assessment Committee

Prof. T. Tillema

Prof. L. Bertolini

Prof. T. Fischer

Prof. J. Woltjer



THE ASSESSMENT AND MANAGEMENT OF SOCIAL IMPACTS IN URBAN TRANSPORT INFRASTRUCTURE PROJECTS

Exploring relationships between urban governance, project management and impact assessment practices in different geographical contexts

By Lara Katharine Mottee

BSc (Comms) Hons., University of New South Wales
Master of Environmental Management, University of New South Wales
Grad. Cert. Social Impact Assessment, Macquarie University
Master of Research, Macquarie University

A thesis presented to Macquarie University in fulfilment of the requirements for the degree of Doctor of Philosophy

Department of Geography and Planning Faculty of Arts Macquarie University Sydney, Australia

Supervised under cotutelle agreement with the University of Groningen

Submission Date: Monday, 31 August 2020

Preface

"Geographers can contribute to a way of doing impact assessment research which is committed to local empowerment, good planning and more equitable distribution of costs and benefits of development, in other words, an applied peoples' geography" (Howitt, 1993, p. 138).

Richie Howitt's 1993 paper describing Social Impact Assessment (SIA) as 'The Applied Peoples' Geography' addressed a research-action opportunity for the *professional geographer* to undertake research that represents everything SIA in the present strives to be – empowering, participatory and interventionist. When I was first introduced to this paper in 2014, as an Environmental Consultant writing the 'social bit' for many Environmental Impact Assessments (EIAs), I had never considered the possibility of using my human geography studies in this way. It made me realise that I had reached a point where it was time for me, not just to be a professional, but to also be a *geographer*, and allow myself to explore the underlying causes somewhat freer from the institutional constraints of my work. As such, this thesis represents my manifesto, many years in the making. It draws from my career experiences and academic learnings from those fellow geographers who have inspired me to challenge the status quo, advocate for positive change, and contribute to a more sustainable future for all. It applies a geographical lens to ambitiously investigate a problem I identified in my practice career: how to improve transport planning practices in the assessment and management of social impacts in an objectivity-obsessed technocratic urban environment.

Moving continents to Groningen (The Netherlands) part way through my first year, participating in Dutch life and culture, having our first child in my final year, and writing my conclusions in the middle of the global COVID-19 pandemic, also made me appreciate more than ever before, the value of social relationships, personal mobility, global accessibility and family well-being. The international experience of living in The Netherlands placed me in a better position to understand the nuances of the spatial and infrastructure planning context in the Netherlands, as compared to my own Australian-based work experiences. Investigating these issues on an international scale has cemented my view that we must prioritise social issues equally with economic and engineering concerns in assessing future alternatives for transport planning in cities, to be better *urban* practitioners, no matter what type of professional we trained as, whether planner, lawyer, scientist, engineer or other.

My professional career and life experiences have undoubtedly shaped the position I adopted in the research. After more than 12 years participating in environmental infrastructure consulting, writing Environmental and Social Impact Assessments (ESIAs) and management reports, the value of ESIA practice in guiding decision-making and influencing outcomes delivered from projects became a key driver for my intellectual endeavours. For government projects, the political, economic and strategic justification for projects always focused on the 'public need' or 'public interest'. Thus, having worked on government projects for many years, I came to this understanding about how they are assessed, planned, managed and justified in this way.

I brought this knowledge from past experiences to the focus groups and interviews conducted in both countries. It influenced how questions were developed and shaped discussions. In turn, my own views and experiences have been enriched and challenged by the participants who have been involved in the research. Their willingness and openness to share their experiences have made me discover a bigger picture in the urban context than what I had come to expect in my narrow worldview as an environmental consultant in practice. Participants felt comfortable to share their experiences with me, someone with knowledge in their professional practice to whom they could relate. I cannot dispute that without my work experiences, I would not have known of what behaviours to be critical of, what processes to expect and to what goals to aspire to, in seeking answers to how improved practice might lead to better social outcomes.

This research and the questions I have proposed are very personal aspirations for both my own practice and for the interdisciplinary and/or transdisciplinary social science that is SIA. I am very much cognizant that with my practice experience and these aspirations in mind that during this research journey I have become a 'pracademic', sitting at the nexus between practice and academia, and an Activist Researcher, advocating that practitioners and SIA can do better. But what my participants have also shown me is that my own practice, impact assessment practice, is one very small part of the wider urban fabric. There are many complex relationships that fit together to create the urban system and power and influence in those relationships constantly shifts between the interests of political decision-makers, corporate actors, activists and populations. What this research experience has shown me, is that this complexity is not unique to one geographical context but is a characteristic of global cities.

Whatever city my family and I choose to live in, whichever city I choose to work in, my research will always be influenced by my surroundings and the familiarities I draw from my urban global experiences.

Lara Katharine Mottee Utrecht, August, 2020

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They say it takes a village to raise a child – I would say the same to raise a thesis! My research journey and the development of this thesis would not have been possible without the guidance, mentorship, support and friendship over the past three and half years (and more!) of my supervisory team. I am lucky enough to have four fantastic, knowledgeable and intelligent supervisors each of whom brought their own individual experiences and ideas to help shape my research.

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My fellow PhD candidates, at both Macquarie University and the University of Groningen. Wherever I was in the world, whatever the timezone, I always had someone I could message, call, complain to, cry with, or rely on to get me through the good and bad parts of doing a PhD. In Australia, Yayut, right from the beginning of my MRes journey, you were there encouraging me! Nav, Tracy, Sufia, Sunita – you have been such an inspiration and support, I am so grateful to you all. In The Netherlands, my two paranymphs, Nina and Eva. I couldn't have survived my Dutch experience and PhD journey without you both! I will never forget our chats, catch-ups, and endless hugs, coffees and teas. Thank you so much, you mean the world to me. Suzan, my go-to-person for all things Dutch and first-time motherhood, and for stepping-up at the last minute as my on-the-ground paranymph, you're amazing, thank you! I am also very grateful to Gwenda and Robin for their support with the Dutch translation and for answering my many language questions, and fantastic chats and friendship over my PhD. Also, thank you to my PhD friends, office-mates and other colleagues in both faculties and departments who have mentored me on many things in life and research. You have all been such wonderful peers to have worked with, and I could not have asked for better.

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Acronyms and Abbreviations

CBA Cost-Benefit Analysis

DoT Department of Transport

DoP Department of Planning

DPE Department of Planning and Environment

DPIE Department of Planning, Industry and Environment

ECRL Epping to Chatswood Rail Link

EA Environmental Assessment

EIA Environmental Impact Assessment

EIANZ Environmental Institute of Australian and New Zealand

EIS Environmental Impact Statement

EP&A Act Environmental Planning and Assessment Act 1979 (Australia)

ESIA Environmental and Social Impact Assessment

GSC Greater Sydney Commission

IA Impact Assessment

IAIA International Association of Impact Assessment

IFC International Finance Corporation

ISO International Organization for Standardization

LCNP Lane Cove National Park

MaaS Mobility as a service

MP Member of Parliament

NSW New South Wales

NZL North-South Metro Line (Noord-Zuid MetroLijn)

PERL Parramatta to Epping Rail Link

PRL Parramatta Rail Link

SEA Strategic Environmental Assessment

SIA Social Impact Assessment

SEMS Social and Environmental Management System

SIMP Social Impact Management Plans

SMS Social Management System
SWGC South West Growth Centre

SWRL South West Rail Link

UTS University of Technology Sydney

List of Publications

This PhD thesis is by publication and includes four chapters that are reprints of publications as listed below.

Chapter 2	Mottee, L. K., & Howitt, R. (2018). Follow-up and Social Impact Assessment (SIA) in urban transport-infrastructure projects: Insights from the Parramatta rail link. <i>Australian Planner</i> , 55(1), 46-56. DOI: 10.1080/07293682.2018.1506496
Chapter 3	Mottee, L. K., Arts, J., Vanclay, F., Howitt, R., & Miller, F. (2020). Limitations of technical approaches to transport planning practice in two cases: Social issues as a critical component of urban projects. <i>Planning Theory & Practice</i> , 21(1), 39-57. DOI:10.1080/14649357.2019.1696980
Chapter 4	Mottee, L. K., Arts, J., Vanclay, F., Miller, F., & Howitt, R (2020) Metro infrastructure planning in Amsterdam: How are social issues managed in the absence of environmental and social impact assessment? <i>Impact Assessment and Project Appraisal</i> , 38(4), 320-335. DOI: 10.1080/14615517.2020.1741918
Chapter 5	Mottee, L. K., Arts, J., Vanclay, F., Miller, F. & Howitt, R. (2020) Reflecting on how social impacts are considered in transport infrastructure project planning: Looking beyond the claimed success of Sydney's South West Rail Link, <i>Urban Policy and Research</i> , 38(3), 185-198. DOI: 10.1080/08111146.2020.1730787

Statement of Originality

This thesis is being submitted to Macquarie University and the University of Groningen in accordance with the cotutelle agreement dated 12 September 2017. This work has not previously been submitted for a degree or diploma in any university except as agreed under cotutelle arrangement.

To the best of my knowledge and belief, the thesis contains no material previously published or written by another person except where due reference is made in the thesis itself.

The content of this thesis is a result of work which has been carried out since the official commencement date of the approved research program.

All research reported in this thesis received the approval of the Macquarie University Human Research Ethics Committee. Protocol numbers: 5201700424 and 5201600247.

Mi-		28 August 2020
(Signed)	Date:	
Lara Katharine Mottee		