## CARS

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# Trends in cycling patterns and interactions with pedestrians in the city centre 

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## Background

- All levels of government promote cycling
- Density of cars, pedestrians and cyclists is high in city centres
- Pedestrian concerns about injury threat from cyclists
- Recent debate about compulsory helmet laws


## Aims of the research

- Explore overall trends in cycling behaviour
- Observe bicyclist-pedestrian, and bicyclistvehicle interactions
- Examine riding location choice, and use of CityCycle, over time
- Monitor helmet use by cyclists


## Study design

- Replicating methodology of 2010 study
- 46 observation periods
- Including uni-directional and bi-directional traffic; with and without bike facilities
- 2-hr periods on weekdays
- 7-9 am, 9-11 am,
- 2-4 pm, 4-6 pm
- All obs. in dry weather
- Mon-Thursday (1 day postponed)



## Observation Checklist <br> Recorder sheet

Date: 11/10/2012 Location: William St
Apparent Gender
Apparent Age
Helmet Use
Location
Bicycle Hire Scheme bicycle

Conflict
Evasive manoeuvre by cyclist
Collision


## Increases in bicycle counts



## Change in bicycle counts by location

Adelaide St: $\uparrow 82 \%$

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2010:407 2012:742
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Eagle St: $\uparrow 36 \%$ 2010: 333 2012: 453

Albert St: $\uparrow 15 \%$

## Rider Characteristics




## Riding behaviours




Riding Location

## CityCycle Use



Characteristics of private or CityCycle riders



## Behaviours of private or CityCycle riders




## Conflict with other road users



Pedestrian vicinity and conflict on footpaths


## Conflict, by Gender and Age



## Conflict, by helmet use and location



## Conflict - Private vs Citycycle



## Conflict - Private vs Citycycle



## Discussion

- Increase in cycling participation
- Both private and public bicycles
- A little way off until equal use by both gender
- Greatest increase during commuter times
- Changes not uniform across locations
- No change in helmet wearing rates
- Few conflicts with pedestrians \& vehicles


## Future Work

- Continue collecting data
- Possibly extend to other time periods (school holidays); locations outside the CBD


## Questions? <br> a.schramm@qut.edu.au

## Mark your Diaries!

International Council on Alcohol, Drugs and
Traffic Safety Conference (2013)
25-28 August 2013, Brisbane http://t2013.com


