

Engaging with Government for Research Impact

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Director Public Transport Research Group
Director SEPT-GRIP
Director Monash Infrastructure
Monash University, Australia
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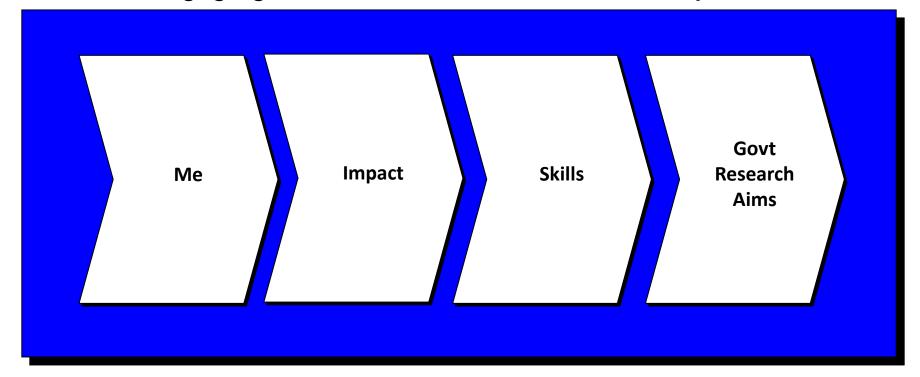
- 1. Introduction
- 2. Me
- 3. Impact
- 4. Skills
- 5. Govt Research Aims





This presentation outlines my experience in collaborative research with Government and its impact

Engaging with Government for Research Impact









1. Introduction

2. Me

3. Impact

4. Skills

5. Govt Research Aims





Professor Graham Currie

- Professor of Public Transport (Monash University) since 2003
- Director Public Transport Research Group
- Director Monash Infrastructure
- Chair Light Rail Transit Systems Committee, US Transportation Research Board
- Member Singapore Land Transport Authority Research Advisory Committee
- 2017; Fellow Academy of Technology and Engineering (ATSE)

Prior:

- Senior Associate Booz Allen Hamilton/Strategy& Price Waterhouse Coopers
- Manager Victoria; Travers Morgan Pty Ltd
- Network Planner West Midlands Passenger Transport Executive UK
- Network Planner London Transport UK

Key experience

- Transport expert; 35 years experience
- No. 1 Author in public transport research publications

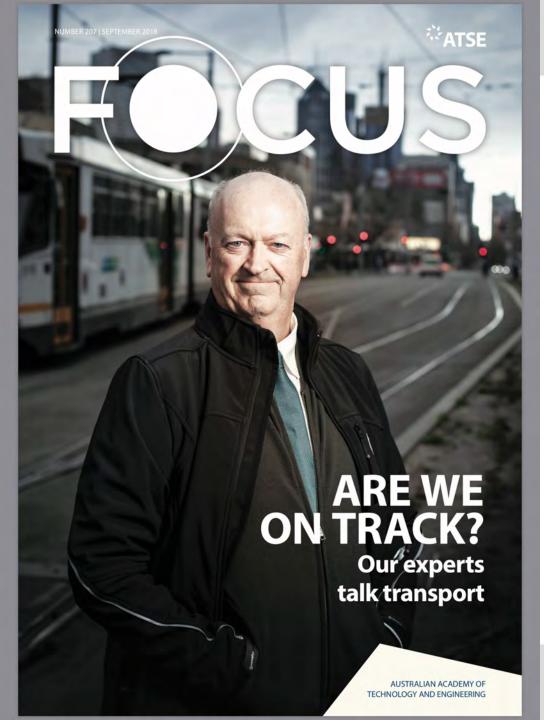












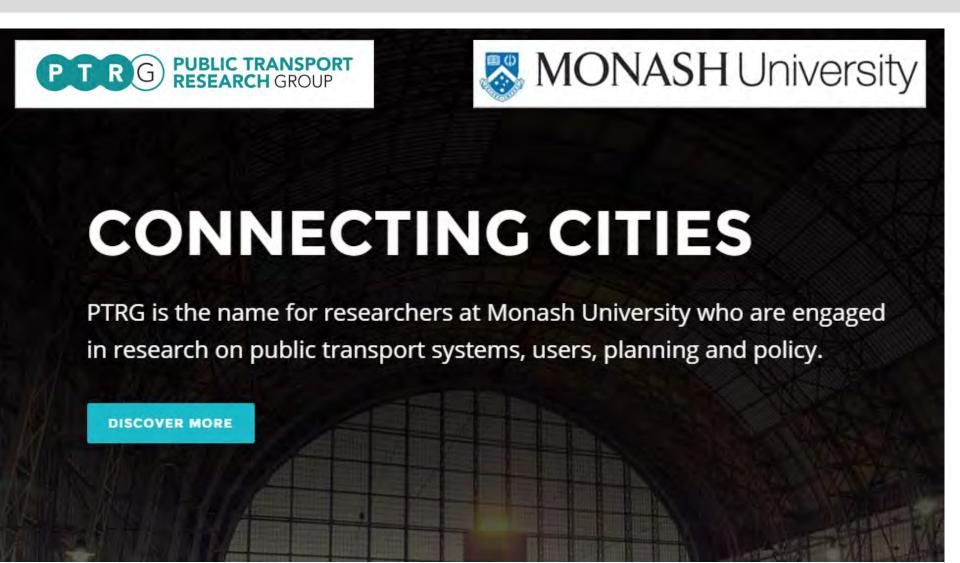




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World Review of Public Transport Research (2009-2013)

Heilig L and Vos S (2015) 'A Scientometric Analysis of Public Transport Research' Journal of Public Transportation Vol 18 No 2

Top 3 world Universities in Public Transport Research

- Uni of Toronto, UCal Berkeley, MONASH UNIVERSITY Most Productive Authors (World Ranking)
- PTRG Staff Graham Currie 2nd, Alexa Delbosc 11th
- PTRG Associates Avi Ceder 3rd, John Nelson 10th Most Cited World Authors
- Graham Currie 5th

Other International Awards

TRB Largest Transport Conference in the World (13,000 delegates)

- Best Paper in Public Transport
 - 2012
 - 2017

World Conference on Transport Research

- Best research paper in Transport Policy 2016
 ARRB Transport Research
 - Research Impact Award 2017

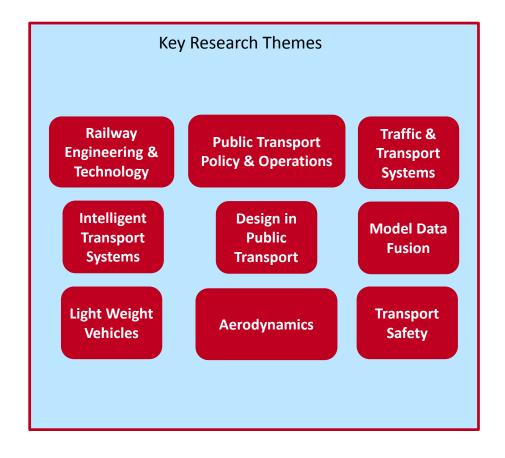






PTRG is part of a wider collaborative framework in transport research across multiple groups/ faculties







Key staff, the associate team & students



Prof Graham Currie Chair of Public Transport



Nicholas Fournier Research Fellow



Dr Alexa Delbosc Senior Lecturer DECRA Fellow



James Reynolds Research Fellow



Katerina Pavkova Research Fellow



Wendy Walker Website Manager



Dr Farhana Naznin Research Fellow



- 52 Research associates across Monash University (e.g. ITS, MADA, MUARC), International Universities, and external experts
- 48 Masters Students; most in China
- 10+ final year civil engineering undergraduate research students per year



Laura McCarthy
Research Fellow



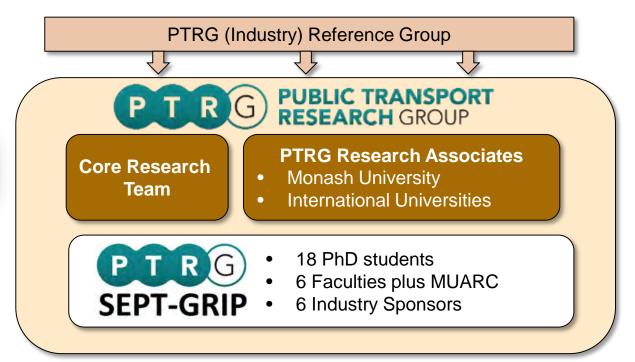
Dr Kun An Lecturer





Rebadged in 2015 as the TFV-Monash Public Transport Research Group (PTRG)



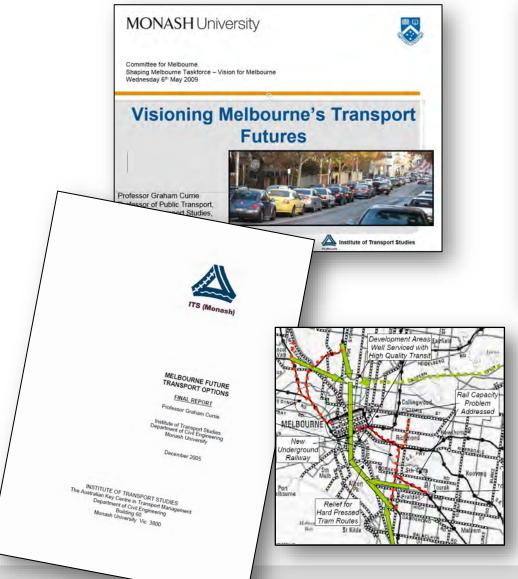


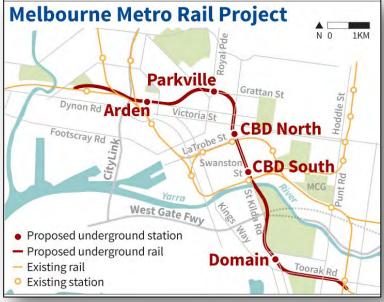
- World First joint Authority/Uni. Research and Training Initiative
- Starts March 1st 2015 for 5 years; then continues subject to review
- \$5M total funding \$ 2.5M PTV seed funding provided, \$2M Monash \$0.5M Industry





Example Projects: Melbourne Metro – Concept Development (City of Melbourne, 2005)

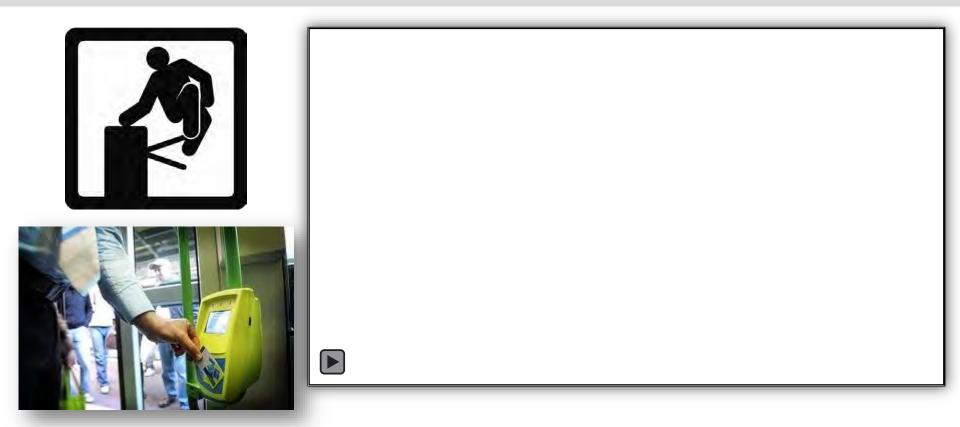








Example Projects: Understanding the Psychology of Fare Evasion Behaviour



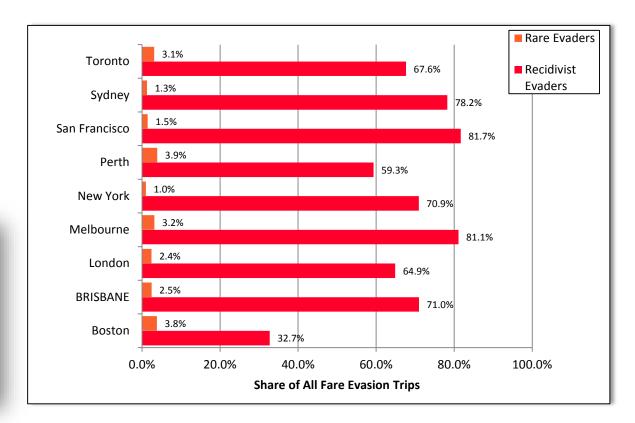




IMPACT – Over \$105mp.a. in savings in Australia; much larger in overseas cities







IMPACT - Large improvement in revenue protection ~\$105M savings in Melbourne and Sydney since 2015 EVERY YEAR; more reductions internationally

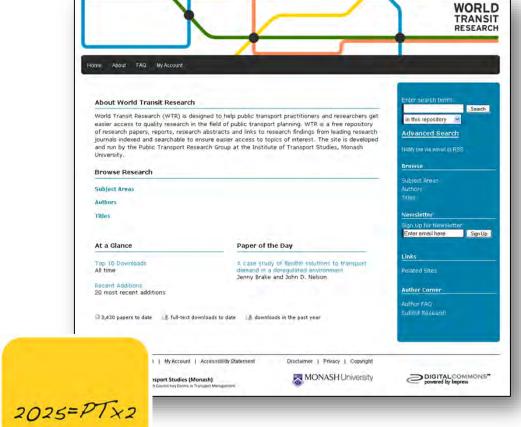
Research Awards:

- 2016 Best Research Paper World Conference on Transport Research
- 2017 ARRB Inaugural Research Impact Award
- 2017 Vice Chancellors Award for Research Impact





PTRG runs World Transit Research; the global research clearinghouse for public transport research



World Transit Research

- Commenced 2010
- 256,639 site users
- 8,000 towns and cities from 170 countries
- 6,896 journal papers
- World index of authors and topics

2025=PT+2

2025=PT+2

Showcase Award

Winner

Winner

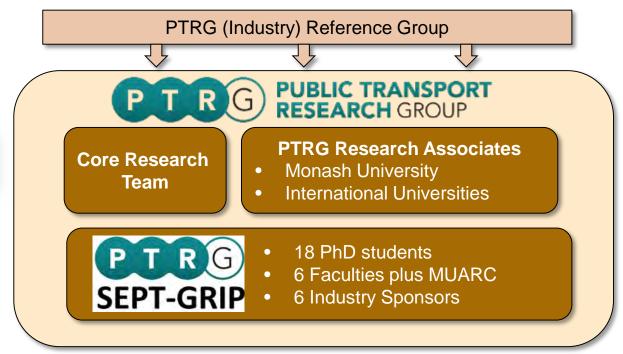
www.worldtransitresearch.info





SEPT-GRIP is an initiative of the Public Transport Research Group (PTRG) at Monash and TfV/PTV







It has 18 research topics...

1. TOD & Transit Laura Aston



2. Big Data & Visualisation Homayoun Rafati



3. Network Synchronisation Rejitha Ravindra



4. Shared Mobility Taru Jain



5. Changing Travel Behaviour Laura McCarthy



6. Tourism & **Public Transport** Victoria Radnell



7. Reliability Engineering Approaches in Best Practice Railways





8. Improving Gender Diversity in the **Public Transport Workforce**

Rachel Mence



9. Future Train Lisa Fu



10. Designing Urban Rail to Reduce Vandalism

Amy Killen



11. Bus & Tram Priority Implementation

James Reynolds



12. Simulating Bus & Tram Priority Samithree Rajapaksha

13. Placemaking & Street Redesign Matthew Diemer



14. Passenger Falls in Trams Luke Valenza



15. Transit **Network Design**

Nora Estgfäller



16. Future Bus Sarah Roberts



17. The New **Bus Rider**

Prudence Blake



18. Road Safety Impacts of Bus Safety Inspections

Jianrong Qiu









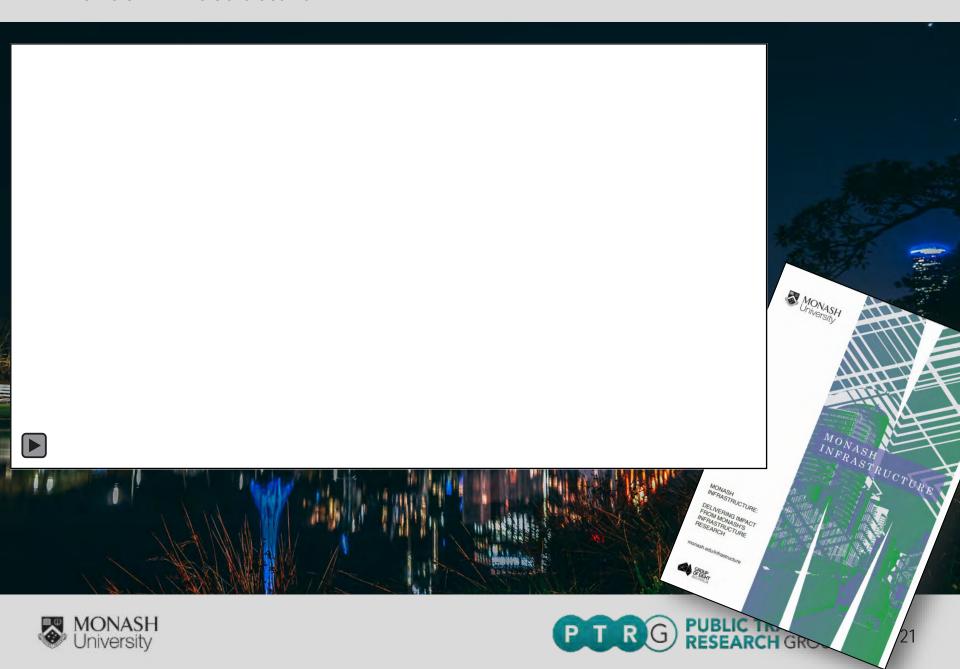
...with 6 industry partners...



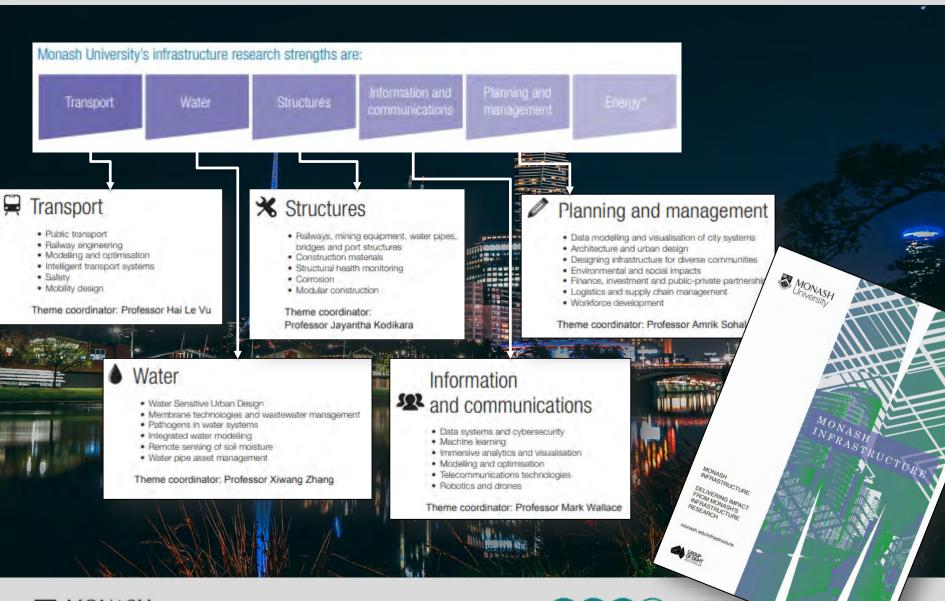




Monash Infrastructure



Monash Infrastructure





MI Objectives

- Increase the visibility of infrastructure activity at Monash externally
- Broaden the Monash offer and engagement with industry
- 3. Increase collaboration between researchers within Monash University and create new interdisciplinary research strengths
- 4. Facilitate development of largescale research initiatives

The objectives are aligned to the goals of Focus Monash and has strongly contribute to research excellence, enterprising and inclusiveness.



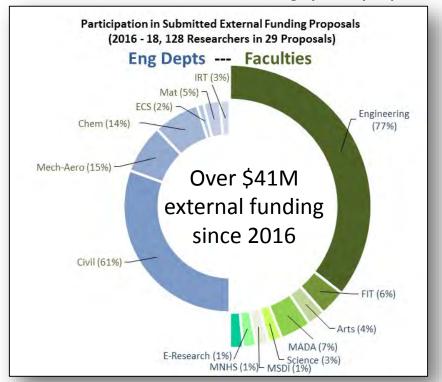
MONASH INFRASTRUCTURE



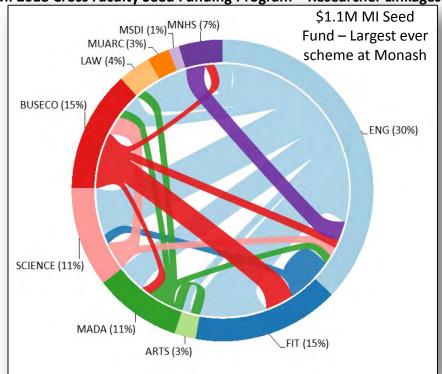


Impact

MI Facilitated External Research Funding by Faculty Dept



MI 2018 Cross Faculty Seed Funding Program – Researcher Linkages



New ARC Industry Transformation Research Hubs Facilitated by Monash Infrastructure



'SPARC Hub' (Smart Pavement Australia Research Collaboration)









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Skills

"Focussed Government research collaboration is the art of..... listening"





Skills

- Need to chat, meet, discuss, understand
- Clear Comms
- Focus on objectives
- Keep it simple stupid; pictures not words
- Long term engagement in depth
 - Find a trusted partner with longevity
- Attitude:
 - Be collaborative, open and work hard
 - Be considerate; understand the other guy/gals problems
 - Be enthusiastic, positive and solution oriented



Tools

- Media
- Social media
 - LinkedIn, Twitter
- Industry conferences
- Public speaking
- Leverage Monash Industry Engagement Staff





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Govt Research Aims are often confused and unthought out

- Often Govt is unclear and confused about what the problem is and what the priorities should be
- Only sheep react to briefs; do the work, write your own brief and tell them what you think they should do; BE PRO-ACTIVE
- Go to the top; most bureaucrats are bureaucrats
- Engage with width; the internal lack of comms problem
- Govt. aims:
 - Most want "to be seen to be doing the right thing"; not necessarily doing the right thing

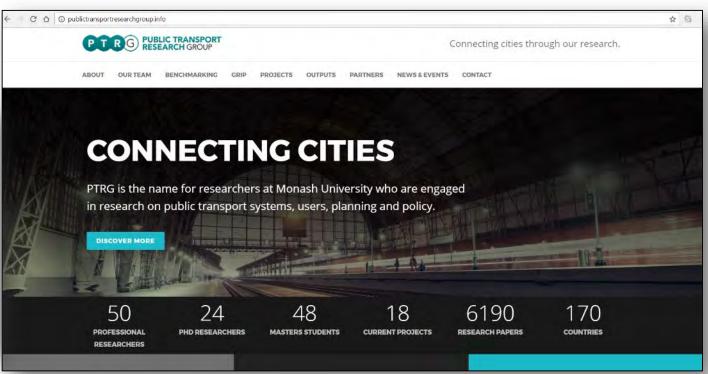


Learn more on our website PTRG.INFO, LinkedIn or Twitter

Professor Graham Currie FTSE Director, SEPT-GRIP, PTRG







www.ptrg.info



