

Monash Business School/ Future Business Council Monash Conference Centre 30 Collins Street, Melbourne 3000 Friday 4th August 2017

Transport Futures Me, Us, Provocations

Prof Graham Currie Public Transport Research Group Monash Institute of Transport Studies Monash University





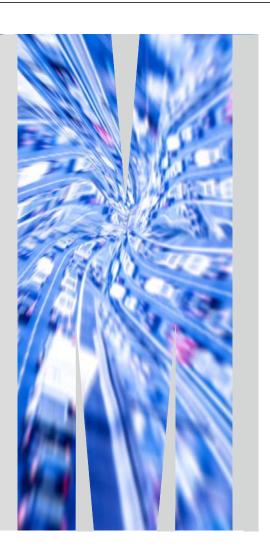


Introduction

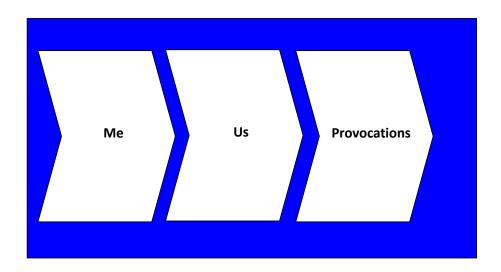
Me

Us

Provocations



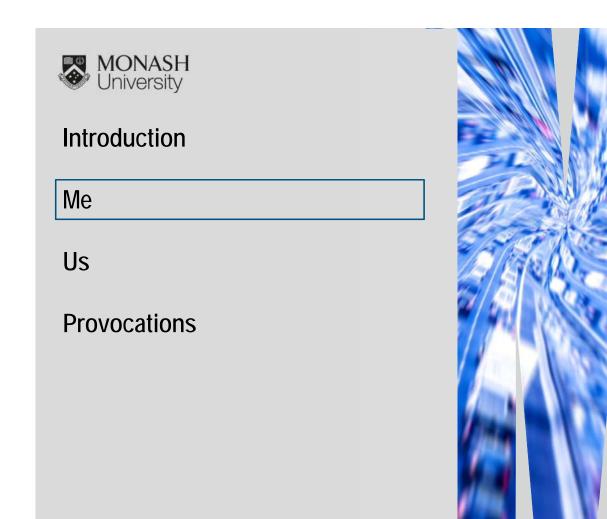
This Presentation provides input to the Transport Futures Collaboration Event







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Professor Graham Currie

- Professor of Public Transport (Monash University) since 2003
- Director Public Transport Research Group
- Director Monash Infrastructure
- Chair Light Rail Transit Systems, US Transportation Research Board
- Member Singapore Land Transport Authority Research Advisory Committee

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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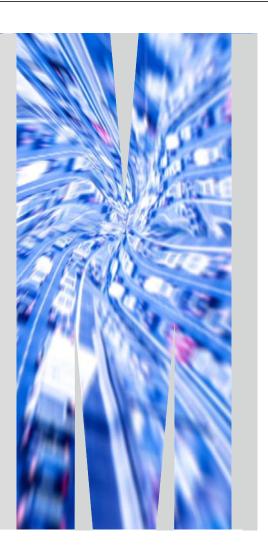


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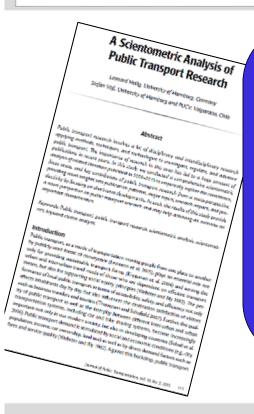




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World Review of Public Transport Research (2009-2013) Heilig L and Vos S (2015) 'A Scientometric Analysis of Public Transport Research' Journal of Public Transportation Vol 18 No 2

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)

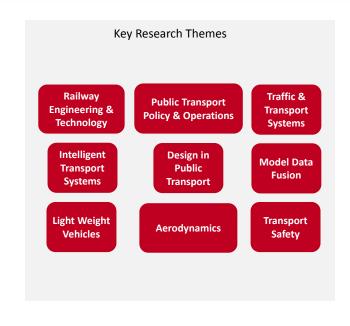
Most Cited World Authors

Graham Currie 5th



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









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PTRG is a joint Industry-University Research Group aimed at improving community outcomes in Transport

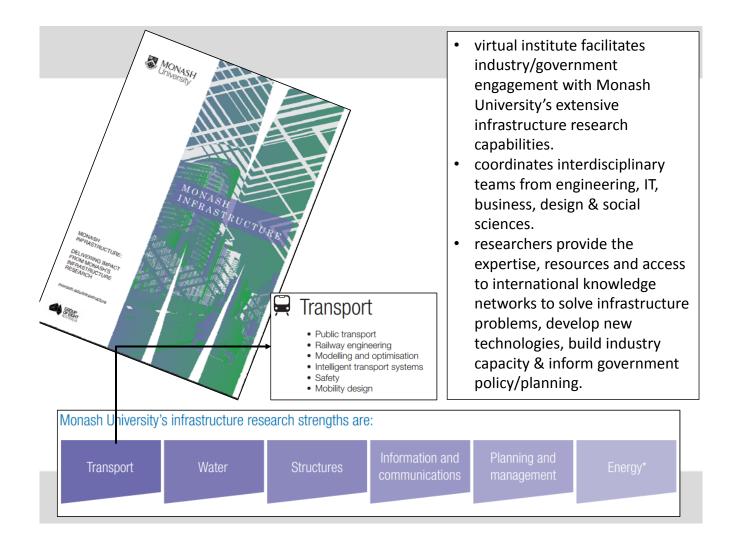






PTRG runs the worlds largest single joint PhD program with industry – SEPT-GRIP; 18 students 7 Faculties





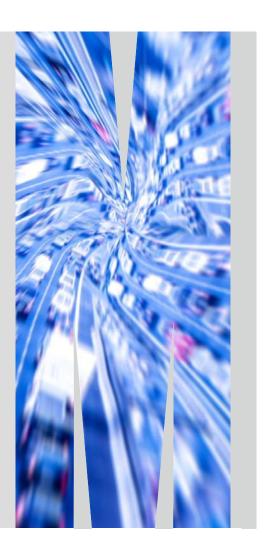


Introduction

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Four Provocations to generate discussion

- 1. The Great Transport Infrastructure Development Lie
- 2. The Great Transport Technology Lie
- 3. The Great Shared Transport Lie
- 4. A New Idea; Transit Fusion









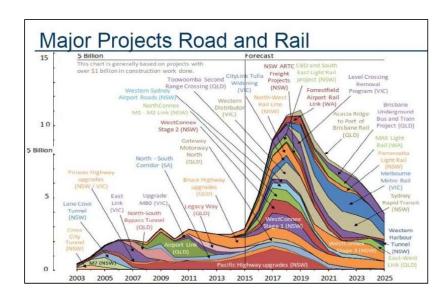




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Future Transport Infrastructure Needs

1. The Great Transport Infrastructure Development Lie



- \$700B
 Australian
 Infrastructure
 Investment
 Deficit
- 1.6% of Australian GDP invested in Infrastructure; highest in the OECD

In 20 Years:

 95%+ of Our Transport Infrastructure will be Whats in Operation TODAY





New Transport Technologies are impressive and will 'game change' our transport futures

2. The Great Transport Technology Lie



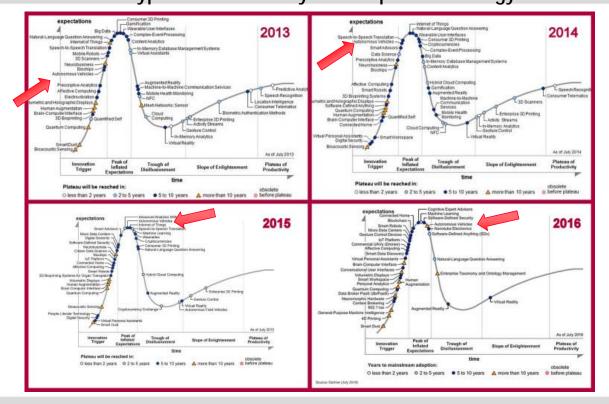






Its a lie; technologists are good at 'spin';

2. The Great Transport Technology Lie
there is much 'hype' and less reality in transport technology futures







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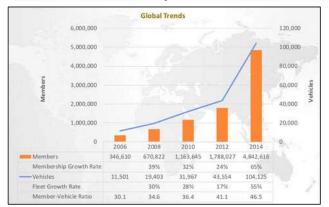
Future cities need shared transport to provide capacity for our significant growth futures

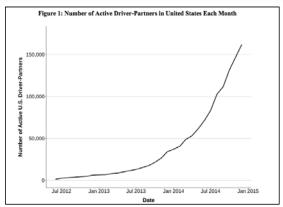
3. The Great Shared Transport Lie

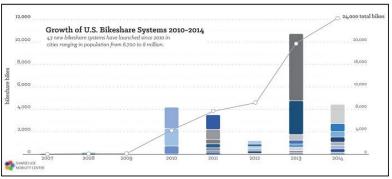


Shared Mobility is growing significant; so our shared transport future is assured!

3. The Great Shared Transport Lie







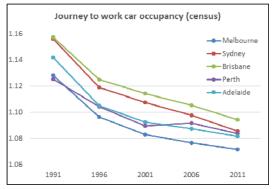


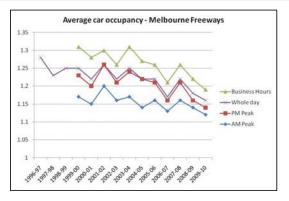


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Shared travel is NOT growing; its been DECLINING for 30 years

3. The Great Shared Transport Lie

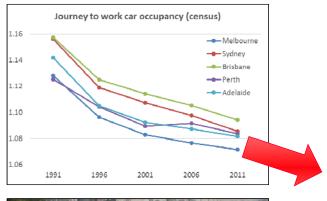


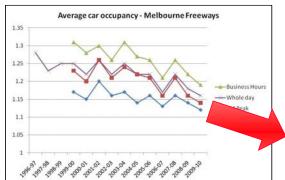




With AV's we can now achieve occupancy; BELOW 1!

3. The Great Shared Transport Lie













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Are Driverless cars the solution or another part of the problem?

3. The Great Shared Transport Lie





When Ride Sharing Isnt

 Uber assumed to have the same occupancy as Taxi at 1.66 per vehicle (including the driver)



It isnt much in the way of sharing

- Source: San Francisco County Transportation Authority (2017) 'TNC's Today'
- CarShare average vehicle occupancy is 1.44 (including the driver)
 - Source: Cervero, R Golub A and Nee B (2007) 'San Francisco City CarShare: Longer-Term Travel-Demand and Car Ownership Impacts' Institute of Urban and Regional Development University of California at Berkeley

Slightly better than Melbourne traffic but known to have positive impacts in reducing car ownership

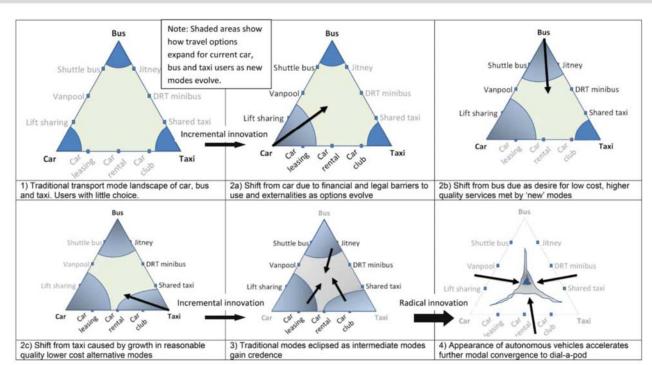




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"Modal Convergence" - An old idea; is it happening now?

4. A New Idea; Transit Fusion



Source: Enoch MP (2015) How a rapid modal convergence into a universal automated taxi service could be the future for local passenger transport' Technology Analysis and Strategic Management















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A New Way to Bring the Train to the City

4. A New Idea; Transit Fusion

