

Introduction to Public Transport Research and Education at Monash

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







Institute of Transport Studies (Monash)

The Australian Research Council Key Centre in Transport Management



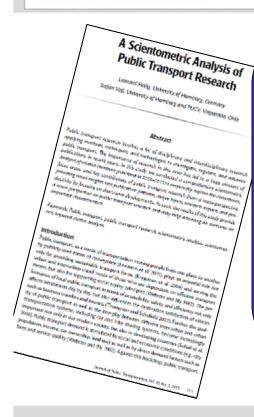












World Review of Public Transport Research (2009-2013)

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

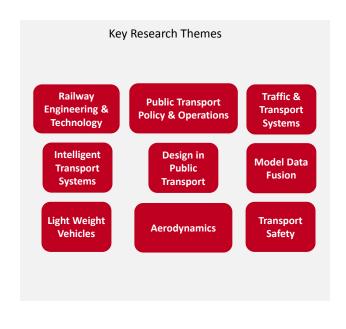




3

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







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



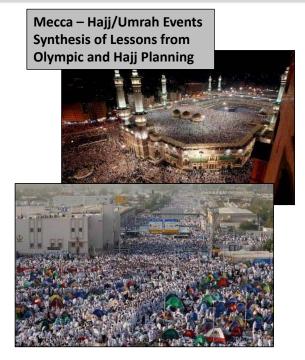




5

PTRG special event planning and research



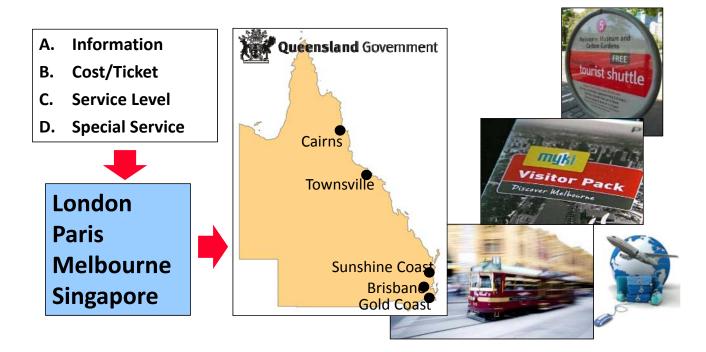






7

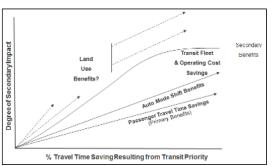
Benchmarking how urban PT can better cater for international tourists

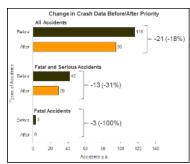




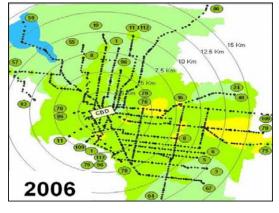
Optimising design for PT Priority













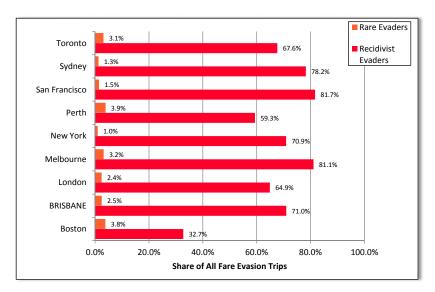


9

Understanding Fare Evasion Behaviours







Large reduction in fare evasion saving ~\$105M p.a. in Melbourne and Sydney



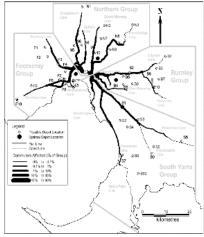
The research won the best policy paper prize at the 14th World Conference on **Transport Research in Shanghai in June**



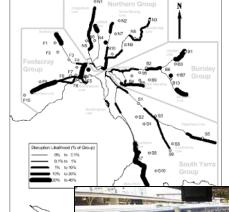




International Study of Rail Disruption Management







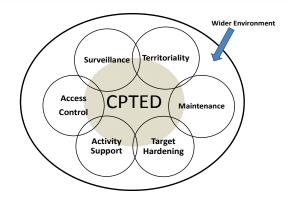






Research on Station Design using Crime Prevention Through **Environmental Design (CPTED) Principles**









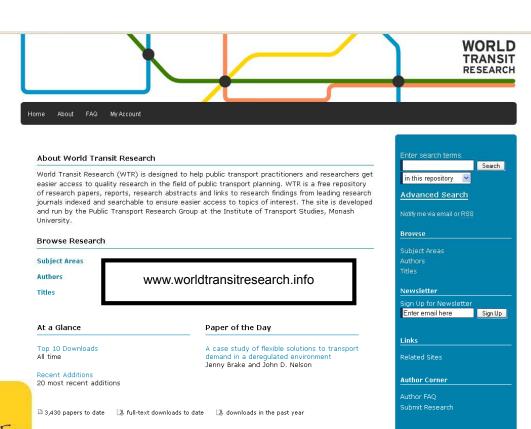
Winner of the 2017 William M Millar Award for best research paper at the TRB Annual Meeting, Washington DC USA – The largest transport conference in the world

Rahaman M, Currie G and Muir C (2016) 'Development and Application of a Scale to Measure Station Design Quality for Personal Safety' Transportation Research Record Journal of the US National Academy of Science





13



Institute of Transport Studies (Monash)



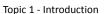


CIV5322 - Urban Public Transport Systems - Taught in Suzhou

- The Course covers public transport planning from a range of perspectives including
 - policy,
 - demand/markets,
 - supply/operations and infrastructure

2014 and 2015

This is an interdisciplinary course because public transport planning is interdisciplinary



Topic 2 - Market Perspectives

Topic 3 - Demand Forecasting

Topic 4 - Performance Assessment

Topic 5 - Financial & Economic Analysis of Public Transport Services

Topic 6 - Service Route and /Network Planning

Topic 7 - On Road Public Transport Design (Bus and Tram)

Topic 8 - Rail Service Design, Operations and Planning

Topic 9 - Regulation, Contracting, Competition and Ownership in Transit

Topic 10 - Transit and Land Use

Topic 11 - Planning Transit for Social Needs

Topic 12 - Intelligent Transit Systems in Transit

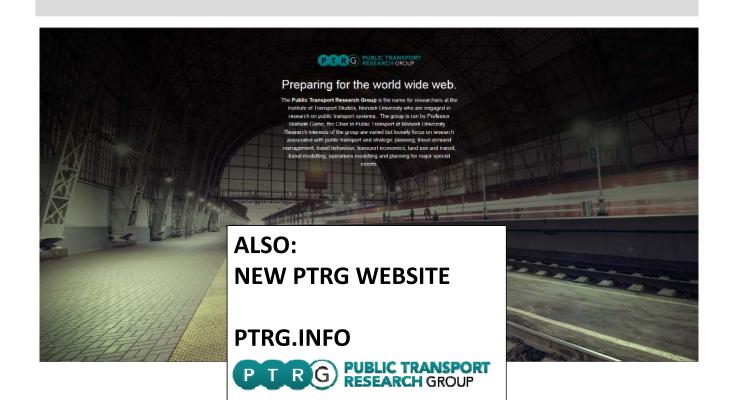
Topic 13 - Transit Futures







151

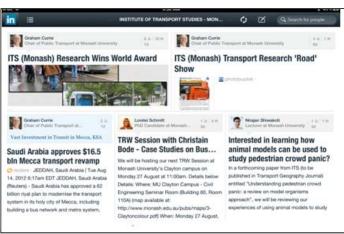




Join the ITS (Monash) LinkedIn group to keep informed of our activities













171