

# **PROGRAM**

\*\*PLEASE NOTE: ALL times shown are in AEST i.e. Brisbane, Queensland time - please adjust according to your own timezone\*\*

WEDNES	DAY 8 DECEMBER
8.00am - 5.00pm	Registration Desk Open Location: D-101
8.00am - 9.00am	Coffee & Networking Location: D-101
9.00am - 10.30am	Opening Plenary Chair: Brendan O'Keeffe Room: D-301
9.00am - 9.15am	Forum Welcome and Acknowledgement of Country
9.15am - 9.35am	Opening Address: COVID has been a disruptor to the way we move people goods and services around our cities and around the world (P01)  The Hon Mark Bailey MP, Queensland Minister for Transport and Main Roads
9.35am - 10.15am	What is the value of Strategic Transport Models in the next normal? Some clues as to enhancements required to recognise the changing landscape (PO2)  Prof David A. Hensher: Professor and Founding Director, Institute of Transport and Logistics Studies, The University of Sydney
10.15am - 10.30am	Housekeeping
10.30am - 11.00am	Morning Tea Location: D-101





11.00am -	SDAY 8 DECEMBER		t Session 1	
12.20pm	Session 1A: Active Transport	Session 1B: Public Transport	Session 1C: Traffic Modelling	Session 1D: Economics
	<b>Room:</b> D-101	<b>Room:</b> D-301	<b>Room:</b> D-304	<b>Room:</b> D-307
	<b>Chair:</b> Fay Golbabaei, QUT	<b>Chair:</b> Benjamin Kaufman, GU	<b>Chair:</b> Matthew Burke, GU	<b>Chair:</b> Shubham Sharma, QU
11.00am - 11.20am	Evaluating the impacts of personal mobility devices (e-scooters) in Central Brisbane (38) Rhiannon Pace and Michael Pollard, Queensland University of Technology	Australia's long distance passenger train and coach services: international comparisons (33) Phil Potterton, Economic Connections	Combining multiple traffic data sources to estimate Macroscopic Fundamental Diagram in large-scale 3 urban networks (36) Elham Saffari, The University of Queensland	Assessing Toll Road Demand in New Zealand (122) Neil Douglas, Douglas Economics
11.20am - 11.40am	Influence of walking accessibility on older people walking preference (54) Kaniz Fatima, RMIT University	The impact of bus network reform on the resilience of Melbourne's public transport system (62) Ian Woodcock, Swinburne University of Technology	Estimation of origin- destination flows in large scale traffic networks (41) Sakitha Kumarage, The University of Queensland	The development and application of a land use, transport and economy interaction model (71) Henry Le, AECOM
11.40am - 12.00pm	Brisbane's developments in e-mobility (74) Brendan O'Keeffe, Brisbane City Council	Neighbourhood typology and bus use: A simplified approach to predict bus demand (32) Jeyashivraj Parthiban, Wellington Shire Council	Network-wide traffic simulation with multi-agent imitation learning (61) Jie Sun, The University of Queensland	Optimal toll charges for multi-class vehicle in City Logistics (28) Loshaka Perera, University of Moratuwa
12.00pm - 12.20pm	Empirical identifiability of Latent Class Models: Theoretical analysis and application to multiple heuristics modelling (72) Felipe Gonzalez- Valdes, Pontifica Universidad Católica de Chile	WITHDRAWN	Traffic Forecasting in a Freeway Corridor using Seasonal ARIMA Model Mahmuda Akhtar, RMIT University (117)	
12.20pm - 1.10pm	Lunch Location: D-101	l	l	I



1.10pm -	SDAY 8 DECEMBER  Debate: That micromob			
1.55pm	Chair: Matthew Burke Room: D-301			
	in Australian cities. Que	_	-scooter sharing systems	in cities as diverse as
1.55pm - 2.00pm	Room Change			
2.00pm -		Concurren	t Session 2	
3.20pm	Session 2A: Demand Modelling	Session 2B: Freight	Session 2C: Big Data	Session 2D: COVID
	<b>Room:</b> D-101	<b>Room:</b> D-301	<b>Room:</b> D-304	<b>Room:</b> D-307
	<b>Chair:</b> Yiping Yan, GU	<b>Chair:</b> Mark Hickman, UQ	<b>Chair:</b> Dan He, UQ	<b>Chair:</b> Prithvi Beeramoole, QU
2.00pm - 2.20pm	A new employment market segmentation- 'purple collar' for transport models, a case study in South- East Queensland, Australia (127) Yiping Yan, Griffith University	Australian Road Freight - Measuring and Modelling (23) David Gargett, Bureau of Infrastructure and Transport Research Economics	Data-driven Traffic Incident Prediction with Hybrid Graph- based Neural Network (58) Thanh Tran, The University of Queensland	The Impacts of COVID-19 Pandemic on The Volume and Pattern of Public Transport Trips in The Greater Sydney Area (45) Seyed Sina Mohri, University of Melbourne
2.20pm - 2.40pm	Do digital natives telework more than digital immigrants? (60) Yu-Tong Cheng, University of Melbourne	Freight modelling in Australia in 2021 - A data availability perspective (88) Caitlin McHugh, Veitch Lister Consulting	Pavement Monitoring: A Comparison of Smartphone and Accelerometer sensors (77) Amir Shtayat, RMIT University	The impact of working from home on travel demand: a methodology and preliminary estimates from Victoria (49) Tim Bryant, Victorian Department of Transport
2.40pm - 3.00pm	WITHDRAWN	Predicting freight demand for planning loading docks (50) Russell Thompson, University of Melbourne	Multi-Level Trajectory Clustering for Identifying Path Choice Set (85) Chintan Advani, Queensland University of Technology	Pedestrian activity in Melbourne, Australia in response to COVID-19 (40) Mahsa Naseri, Monash University
3.00pm - 3.20pm	The influence of weather on bus ridership for different passenger types in Canberra, Australia (92) Emily Moylan, The University of Sydney	Planning for urban freight through loading dock provision in new developments (51) Michael Stokoe, Transport for NSW		
3.20pm - 3.40pm	Afternoon Tea Location: D-101			



3.40pm - 4.40pm	Concurrent Session 3			
	Session 3A: Social/Economic	Session 3B: Public Transport	Session 3C: New Technology, attitudes and behaviour	Session 3D: Transport History
	<b>Room:</b> D-101	<b>Room:</b> D-301	<b>Room:</b> D-304	<b>Room:</b> D-307
	<b>Chair:</b> Kelly Bertolaccini, GU	<b>Chair:</b> Madison Bland, GU	<b>Chair:</b> Zeke Ahern, QUT	<b>Chair:</b> Matthew Burke, GU
3.40pm - 4.00pm	The lived experience of transport limitations in Melbourne's growth areas (57) Annette Kroen, RMIT University	Beyond prohibition: policy options for pets on public transport (79) Jennifer Kent, The University of Sydney	Attitudes towards automated vehicles: a Dutch-Australian comparison (24) Tony Arnold, The University of Sydney	Observations on electric vehicle's first hurrah - horse, steam and electric tramway technology adoption rates in the UK 1860s to 1960s (108) Robert Smith, East Economics
4.00pm - 4.20pm	The Logan DRT Trial: Socio-demographic analysis of users (19) Ben Kaufman, Griffith University	Research issues arising from a review of themes at the formal-informal transport interface in developing countries (105) David Ashmore, TSA and University of Melbourne	How Governments Influence Autonomous Vehicle (AV) Innovation (34) Doina Olaru and Brett Smith, University of Western Australia	Overcoming the Brisbane River: The Cross River Commission of 1926 (75) Brendan O'Keeffe, Brisbane City Council
4.20pm - 4.40pm			Decision field theory: an extension for real- world settings (70) Thomas O. Hancock, University of Leeds	A Retrospective on the Adelaide Area Transportation Study (13) Robert Nairn
4.40pm	Close Day One		-	





THUPSD	AY 9 DECEMBER
8.00am - 5.00pm	Registration Desk Open Location: D-101
8.00am - 9.00am	Coffee & Networking Location: D-101
9.00am - 10.25am	Plenary 2 Chair: Alexander Paz Room: D-301
9.00am - 9.10am	Day 2 Welcome
9.10am - 9.35am	The Future of Transport in Brisbane (P03) Cr Ryan Murphy, Civic Cabinet Chair for Transport, Brisbane City Council
9.35am - 10.00am	Artificial Intelligence and F1 Grand Prix - What's that got to do with Intelligent Network management (PO4)  Dr Kellie Nuttall, Partner, Deloitte Australia
10.00am - 10.25am	Update on Australian Transport Assessment & Planning Guidelines (P05)  Dr Peter Tisato, Technical Coordinator, Australian Transport Assessment & Planning Guidelines
10.25am - 11.00am	Morning Tea Location: D-101



11.00am -	Concurrent Session 4			
12.20pm	Session 4A: Active Transport	Session 4B: Public Transport	Session 4C: Traffic Modelling	Session 4D: Economics
	<b>Room:</b> D-101	<b>Room:</b> D-301	<b>Room:</b> D-304	<b>Room:</b> D-307
	<b>Chair:</b> Shubham Sharma, QUT	<b>Chair:</b> Maisie Rahbar, UQ	<b>Chair:</b> Jie Sun, UQ	<b>Chair:</b> Abraham Leung, GU
11.00am - 11.20am	Transport as recreation - Road sharing in regional Victoria (43) Robbie Napper, Monash University	The catalytic effects of public transport infrastructure on urban renewal: the case of level crossing removal projects in Melbourne (118) Abdulrhman Gbban, Monash University	Modelling network- wide travel time variability: A case study (96) Elnaz Irannezhad, ARRB	BCR: Benefit Cost Ratio or Barely Capturing Reality? (89) Anthony Vine, NineSquared
11.20am - 11.40am	Maintaining shared automobile, bicycle, and pedestrian facilities: Towards a multi-objective approach (103) Sue McNeil, University of Delaware	WITHDRAWN	Maximum queue length estimation at signalized intersections using shockwave theory and Kalman filter (46) Wanuji Abewickrema, The University of Queensland	Valuing Life when Roads are Increasingly Safe (126) Neil Douglas, Douglas Economics
11.40am - 12.00pm	A GIS-based Walkability Analysis for the Greater Adelaide Metropolitan Area: An Evaluation of the AURIN Walkability Index (109) Arsham Bassiri Abyaneh, University of South Australia	How can we build trust and collaboration among the stakeholders in a MaaS eco-system? (53) Thiranjaya Kandanaarachchi, The University of Sydney	Tourists, Visitors and Urban Modelling (16) Robert Nairn	Accounting for the social benefits of regional transport investments - A case study from the Great Western Highway Upgrade Program (97 Lee Jollow and Kapil Kulkarni, RPS
12.00pm - 12.20pm	Network Assessment for Cycling, the Inner Adelaide Case (37) Ali Soltani, University of South Australia			
12.20pm - 1.20pm	Lunch (Sponsored by N Location: D-101	ineSquared)		NineSquared
1.20pm - 2.10pm	Debate: That Sports Eve Chair: Tom Frost Room: D-301	ents Create a Great Trans	port Legacy	
		ave competed for the rigl ill leave a legacy of urba s expectation justified?		
	For the Affirmative:  • Barry Gyte, Gyte C	onsulting Hornibrook Consulting	For the Negative:  • Prof Matthew Burk • Anthony Vine, Nine	ke, Griffith University



2.10pm - Concurrent Session 5			
Session 5A: Demand Modelling	Session 5B: Freight Modelling / Economics	Session 5 Session 5C: Big Data / Pavements	Session 5D: COVID
<b>Room:</b> D-101	<b>Room:</b> D-301	<b>Room:</b> D-304	<b>Room:</b> D-307
<b>Chair:</b> Fay Golbabaei, QUT	<b>Chair:</b> Christopher Johnson, GU	<b>Chair:</b> Dan He, UQ	<b>Chair:</b> Zeke Ahern, QUT
Can partial structural information of travel demand improve the quality of OD matrix estimates? (120) Krishna Behara, Queensland University of Technology	Multimodal network routing problem using Multimodal Leg Outcome (MLO) table (115) Surya Prakash, University of the South Pacific, Fiji	Mindfulness and commuting to campus: Pilot study from Monash University (87) Alexa Delbosc, Monash University	The Implications of Working-from-home for transportation: literature review (83) Brett Smith, Universit of Western Australia
Recalibrating travel demand models using Census data and household travel survey data from other jurisdictions: A case study of Greater Adelaide (100) Ali Ardeshiri, University of South Australia	Rethinking rail freight access: developing a new policy agenda (129) Phil Bullock and Tom Frost, NineSquared	A data-driven approach to benchmark route choice 1 set generation algorithms (107) Chintan Advani, Queensland University of Technology	The impact of COVID-19 pandemic on parcel delivery pattern in Sydney (67 Masoud Kahalimoghadam, The University of Melbourne
Reducing car use without changing mode (130) Elizabeth Ampt, Concepts of Change	Stakeholder decisions shaping urban freight (27) Loshaka Perera, University of Moratuwa	A Comparison Study of Different Data Resolutions for Deep Reinforcement Learning Based Adaptive Traffic Signal Control System (59) Mobin Yazdani, University of Melbourne	Lockdowns and Lags: Lessons from the effect of COVID-19 on the Pert transportation system (125) Tristan W. Reed, Curti University
Modelling small-area electric vehicle uptake across Australia (86) David Mitchell and Robert Monterosso, Bureau of Infrastructure and Transport Research Economics		Impacts of Autonomous Vehicles on Road and Pavement Design (113) Long Truong, La Trobe University	
	Room: D-101  Chair: Fay Golbabaei, QUT  Can partial structural information of travel demand improve the quality of OD matrix estimates? (120) Krishna Behara, Queensland University of Technology  Recalibrating travel demand models using Census data and household travel survey data from other jurisdictions: A case study of Greater Adelaide (100) Ali Ardeshiri, University of South Australia  Reducing car use without changing mode (130) Elizabeth Ampt, Concepts of Change  Modelling small-area electric vehicle uptake across Australia (86) David Mitchell and Robert Monterosso, Bureau of Infrastructure and Transport Research	Session 5A: Demand Modelling  Room: D-101  Chair: Fay Golbabaei, QUT  Can partial structural information of travel demand improve the quality of OD matrix estimates? (120) Krishna Behara, Queensland University of Technology  Recalibrating travel demand models using Census data and household travel survey data from other jurisdictions: A case study of Greater Adelaide (100) Ali Ardeshiri, University of South Australia  Reducing car use without changing mode (130) Elizabeth Ampt, Concepts of Change  Modelling small-area electric vehicle uptake across Australia (86) David Mitchell and Robert Monterosso, Bureau of Infrastructure and Transport Research	Room: D-101 Room: D-301 Room: D-304  Chair: Fay Golbabaei, QUT Christopher Johnson, GU  Can partial structural information of travel demand improve the quality of OD matrix estimates? (120) Krishna Behara, Queensland University of Technology  Recalibrating travel demand models using Census data and household travel survey data from other jurisdictions: A case study of Greater Adelaide (100) Ali Ardeshiri, University of South Australia  Reducing car use without changing mode (130) Elizabeth Ampt, Concepts of Change  Multimodal network routing problem using Multimodal Leg Pilot study from Monash University (87) Alexa Delbosc, Monash University (87) Alexa Delbosc, Monash University (87) Alexa Delbosc, Monash University (129) Phil Bullock and Tom Frost, NineSquared Prost, NineSquared  Stakeholder decisions shaping urban freight (27) Loshaka Perera, University of Moratuwa  Modelling small-area electric vehicle uptake across Australia (86) David Mitchell and Robert Monterosso, Bureau of Infrastructure and Transport Research



THURSD	AY 9 DECEMBER (C	ONTINUED)		
3.50pm -		Concurren	t Session 6	
4.50pm	Session 6A: Social / Economic	Session 6B: Safety	Session 6C: New Technology	Session 6D: History
	<b>Room:</b> D-101	<b>Room:</b> D-301	<b>Room:</b> D-304	<b>Room:</b> D-307
	<b>Chair:</b> Chintan Advani, QUT	<b>Chair:</b> Madison Bland, GU	<b>Chair:</b> Prithvi Beeramoole, QUT	<b>Chair:</b> Benjamin Kaufman, GU
3.50pm - 4.10pm	Planning with Country: Has the transport profession begun the journey? (64) Eric Keys, RMIT University	A conceptual approach towards the evaluation of the vulnerability of urban railway network infrastructure by analysing railway accident reports (31) Wei-Ting Hong, The University of Sydney	The Potential Impact of Informational Cues on Willingness-to-Pay for Driverless Cars (20) Milad Ghasri, University of NSW	Australian Transport planning in the 1970s (14) Robert Nairn
4.10pm - 4.30pm	Age, Transport, and Technology: Older Queenslanders' travel behaviours and use of transport-related technology (66) Kelly Bertolaccini, Griffith University	On the transferability of traffic conflict-based safety assessment methods: A case of crash frequency-by-severity prediction models (29) Md Mazharul Haque, Queensland University of Technology	Framework for field evaluation of signal cooperative intelligent transport system use cases as based on the Ipswich Connected Vehicle Pilot (91) Joshua Elder, Queensland University of Technology	Lies, Damned Lies and Statistics (21) Alex Wardrop
4.30pm - 4.50pm	Exploring a Social Licence to Operate the Road System (22) William Young, Monash University	Dynamic Assessment of Regulation and Policy Framework in the Cybersecurity of Connected and Autonomous Vehicles (124) Shah Khalid Khan, RMIT University	Planning for the electrification of Australasian road transport (26) Tim Brooker, EMM Consulting	Evolution of Sydney's Bus Network: 1925 to 2020 (99) Hema Rayaprolu, The University of Sydney
4.50pm	Close Day Two			



	PLEASE NOTE: ALL times shown are in AEST i.e. brisbane, Queensiand time - please adjust according to your own timezone			
	O DECEMBER			
8.00am - 1.30pm	Registration Desk Open Location: D-101	l		
8.00am -	Coffee & Networking			
9.00am	Location: D-101			
9.00am -		Concurren	t Session 7	
10.20am	Session 7A: Demand Modelling/ Safety	Session 7B: New Technology	Session 7C: COVID	Session 7D: Economics
	<b>Room:</b> D-101	<b>Room:</b> D-301	<b>Room:</b> D-304	<b>Room:</b> D-307
	<b>Chair:</b> Yiping Yan, GU	<b>Chair:</b> Maisie Rahbar, UQ	<b>Chair:</b> Mark Hickman, UQ	<b>Chair:</b> Matthew Burke, GU
9.00am - 9.20am	Can a metaheuristic be used to assist in discrete choice modelling? (104) Prithvi Bhat Beeramoole, Queensland University of Technology	Can MaaS change users' travel behaviour to deliver commercial and societal outcomes? (30) Chinh Ho, The University of Sydney	Pandemics and Urban Travel - Lessons for COVID-19 from the 1918-1920 Spanish Flu (73) Graham Currie, Monash University	Moving international shipping containers at seaports: A case study for Melbourne (35) Dimitris Tsolakis, DT Consulting
9.20am - 9.40am	Analysis of Head-on Heavy Vehicle Crashes in Queensland using Correlated Random Parameters with Heterogeneity in Means and Lindley (132) Krishna Behara, Queensland University of Technology	The commercial viability of Mobility-as-a-Service (MaaS): What's in it for existing transport operators, and why should governments intervene? (111)  Akshay Vij, University of South Australia	How does the built environment shape active travel during COVID-19 travel restrictions? Evidence from Melbourne (42) Mahsa Naseri, Monash University	Crowding Costs and Expansion Factors for Sydney's Heavy Rail Network (76) Alexander Svanberg, Transport for NSW
9.40am - 10.00am	Crash risks during mandatory lane-changing manoeuvres in a connected environment (39) Yasir Ali, Queensland University of Technology	The prospects for Tourism-focused MaaS in Queensland (128) Abraham Leung, Griffith University	Implications of remote working for commute travel patterns in Australia (112) Akshay Vij, University of South Australia	'When the bough breaks': critical question for the crafting of Australia's bus franchises in the era of electric fleet (102) David Ashmore, TSA Advisory
10.00am - 10.20am		Do Trackless Trams need stronger roads? - the "weight" of evidence (80) James Reynolds, Monash University	Changing Work Practices, Active Travel, Health and Well-being during a Pandemic (134) Stephen Greaves, The University of Sydney	Global Market Appetite for Metro Rail (17) Brendon Baker, Mott MacDonald



FRIDAY 1	O DECEMBER (COI	NTINUED)			
10.20am - 10.40am	Morning Tea Location: D-101				
10.40am -		Concurren	t Session 8		
11.40am	Session 8A: Social/Economic	Session 8B: Urban Design	Session 8C: Traffic Modelling	Session 8D: Safety	
	<b>Room:</b> D-101	<b>Room:</b> D-301	<b>Room:</b> D-304	<b>Room:</b> D-307	
	<b>Chair:</b> Abraham Leung, GU	<b>Chair:</b> Chintan Advani, QUT	<b>Chair:</b> Jie Sun, UQ	<b>Chair:</b> Kelly Bertolaccini, GU	
10.40am - 11.00am	Birds and Roads: A Longitudinal Study of a Major Road Project in SEQ (48) Christopher Johnson, Griffith University	Estimating location choice models in Australia (114) Stuart Donovan, Vrije Universiteit Amsterdam	An overview of dynamic traffic assignment models in practice (94) Elnaz Irannezhad, ARRB	Emergency search plan for complex premises (44) Saeed Asadi Bagloee, University of Melbourne	
11.00am - 11.20am	Measuring the distributive impacts of electric vehicle policies (133) Vincent Benezech, Veitch Lister Consulting	Lessons for Adopting Microeconomic Land Use Models at the City Scale: Perth Case Study (116) Doina Olaru, University of Western Australia	Car Following Modelling with Constrained Generative Adversarial Imitation Learning (69) Lin Lin, The University of Queensland	Efficient Estimation of Crash Count Data via Meat-heuristic Solution Algorithm (90) Zeke Ahern, Queensland University of Technology	
11.20am - 11.40am		Understanding the allocation and use of street space in activity centres (18) Chris De Gruyter, RMIT University	Modelling Travel Time Variability within Transport Networks: A Practitioner Oriented Approach (95) Elnaz Irannezhad, ARRB		
11.40am - 11.45am	Move to closing plenar	y room D-301			
11.45am - 12.30pm	Closing Plenary: Paper Prizes Chair: Brendan O'Keeffe Room: Room D-301				
	Paper Prizes				
	Best Transport Modelling Paper Award Presented by: Prof David A. Hensher Professor and Founding Director, Institute of Transport and Logistics Studies				
	John H Taplin Best Paper Award David Willis Best Student Paper Award Presented by: Doina Olaru, Co-Chair, ATRF Scientific Committee				
	Conference wrap-up and announcement of ATRF 2022 Brendan O'Keeffe, ATRF 2021 Conference Chair and Lindsay Oxlad, ATRF 2022 Convenor and Prof Rocco Zito, ATRF 2022 Host University				
12.30pm - 1.30pm	Lunch Location: D-101				



FRIDAY	10 DECEMBER (CONTINUED)
3.30pm - 5.00pm	Tours (Attendees to make their own way to meeting point)
	Cross River Rail and Brisbane Metro Briefing on the Cross River Rail project
	<b>Host:</b> Jordan Haimes, Community Engagement Officer, Cross River Rail Development Authority <b>Meeting Point:</b> Cross River Rail Experience Centre, Level 1/151 Elizabeth Street, Brisbane City
	Neuron e-mobility Showing behind the scenes operations of the Neuron Mobility
	<b>Host:</b> Dale Sinkowski, Brisbane City Operations Manager <b>Meeting Point:</b> Goodwill Bridge entry, QUT Gardens Point Campus. Tour ends at Neuron Mobility warehouse in Milton.



# **SPONSORS**

# **Host Partners**

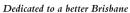






#### **Silver Sponsors**









## Australian Government

**Department of Infrastructure, Transport, Regional Development and Communications**Bureau of Infrastructure and Transport Research Economics

## **Bronze Sponsors**







## **Lunch Sponsor**



**eMobility Tour Sponsor** 

