

# Roads, Tolling & Technology 2022

## Preliminary Program

27–28 April 2022 | Crown Melbourne VIC Australia

[www.its-australia.com.au](http://www.its-australia.com.au)

NeTC has evolved... digital customer interfaces, road pricing, charging, and future infrastructure

### Wednesday 27 April 2022

**7:30 – 8:30**     **REGISTRATION & ALL DAY BARISTA COFFEE**  
Sponsored by Kapsch TrafficCom Australia

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**8:30 – 9:30**     **OPENING PLENARY SESSION 1**

Opening Remarks and Keynote Presentations

**Technology, Sustainability, and Emissions Reduction Strategies**  
Dr Jonathan Spear, Acting Chief Executive Officer, Infrastructure Victoria

**Update from the National electronic Tolling Committee MOU Group**  
Michael Smythe, Transurban

Speakers being confirmed

**9:30 – 10:30**     **PLENARY SESSION 2 – Project Updates: Smart Infrastructure & Data Deployments**

**National Telematics Framework - Recent Developments and Emerging Opportunities**  
Stuart Ballingal, Executive General Manager, Transport Certification Australia

**WestConnex Project Update 2022**  
Cliff Brake, Tolling Manager, WestConnex

**State Tolling Corporation – North East Link: Toll Collection Capability Update**  
An Nguyen, Acting Managing Director STC, Executive Director and Head of Partnerships Victoria  
Zoltan Maklary, Interim Director Tolling, State Tolling Corporation

**Q&A + Discussion with Speakers**

**10:30 – 11:00**     **BREAK**

<b>11:00 – 12:30 CONCURRENT SESSION 3</b>	
<b>3A – Snap Shots of More Project Updates</b>	<b>3B – Emissions</b>
<p><b>Decision Support System for Network Management – A Pilot Project for Victoria Road Corridor in Sydney</b> Dr Alexandre Torday, Chief Executive Officer, Aimsun Dave Keenen, Regional Head - Business Development - Australia and New Zealand, Aimsun</p> <p><b>Smart Roads ‘Infrastructure Talking to Us’ – Using Technology for Enhanced Predictive Road Maintenance</b> Luke Abercrombie, Head of Technology Queensland, Transurban</p> <p><b>Kapsch Intelligent Corridor AIMES</b> Daniel Hoyne, Head of Solution Consulting, Kapsch TrafficCom Australia</p> <p>Additional updates being confirmed</p> <p>Q&amp;A + Discussion with Speakers</p>	<p><b>Cycle Detection – Protecting Vulnerable Road Users in Multi-Modal Environments</b> Sop Khim, Sales Manager – Infomobility, Q-Free Australia</p> <p><b>Innovative Solutions Contribute to a Healthy World Without Congestion</b> David Bolt, VP Sales &amp; Solution Consulting (APAC), Kapsch TrafficCom Australia</p> <p><b>Low Emission Zones: Road-based Solutions to Combat Air Pollution and Climate Change</b> Dr Sascha Ruja, Business Development Director – Mobility &amp; Urban Services, Egis Group</p> <p><b>Clean Air Zones – Video Based Solution to Reduce Emissions in Urban Areas</b> Daniel Shaw, Solution Consultant Tolling, Kapsch TrafficCom Australia</p> <p>Additional presentations being confirmed</p> <p>Q&amp;A + Discussion with Speakers</p>
<p><b>12:30 – 1:30 LUNCH (MESH Restaurant Crown)</b> Sponsored by Cubic Transportation Systems</p>	
	



1:30 – 3:00 CONCURRENT SESSION 4	
4A – Data Analytics, Tools: Network Management	4B – International Updates
<p><b>Using Mobility Data to Detect Changes in Origin-destination Behaviour Following Major Infrastructure and Policy Events on Australian Toll Roads</b> Dr Oliver Lock, Principal Data Science Consultant, Dspark Wilson Yung, Principal Data Science Consultant, Dspark</p> <p><b>How Traffic Data Can Be Utilized for Road Network Optimization and Planning</b> Vishal Thirumalaisami, Senior Inside Sales Representative, TomTom</p> <p><b>How a Data-Driven Approach Can Solve Long-Standing Traffic Problems</b> Jerri Zhao, Product Manager, Intelematics</p> <p><b>Data Enhancements Through Edge Computing at Traffic Signals</b> Tim Mercer-Cook, Senior Engineering Fellow, Cubic Transportation Systems</p> <p>5th Presentation being confirmed</p> <p>Q&amp;A + Discussion with Speakers</p>	<p>Update from North America being confirmed</p> <p><b>Greater Manchester (UK) - Clean Air Zone</b> Dam Ogundeji, Fred Kalt, Managing Director APAC, Yunex Traffic</p> <p><b>Efficient Integrated Tunnel Traffic Management in Real-Time</b> Dave Keenan, Regional Head - Business Development Australia and New Zealand, Aimsun Sergi Pujadas, Senior Transport Modeller, Aimsun</p> <p><b>Managed Lanes: A New Approach to a More Efficient Motorways Management</b> Javier Rojo, Tolling Solutions Senior Manager, Indra Australia</p> <p><b>Road User Charging in the US and NZ: What Can Australia Can Learn from Their Experiences?</b> Scott Wilson, Client Service Lead - Road User Charging Australia/New Zealand, Milestone Pacific / CDM Smith</p> <p>Q&amp;A + Discussion with Speakers</p>
3:00 – 3:45 BREAK	



**3:45 – 5:00**      **PANEL DISCUSSION SESSION 5 – Sustainability: Emissions & Technology**

Sponsored by Q-Free Australia

Perspectives will be presented from  
Sustainability thought leaders from industry  
Government  
Academia



Panellists being confirmed

**6:30 – 8:30**      **WELCOME RECEPTION**  
**28 SkyLounge Crown Metropol**

Sponsored by Transurban

**Continue networking over drinks & canapes – cocktail reception**  
(Included with your conference registration)



Keynote Addresses being confirmed



## Thursday 28 April 2022

**8:30 – 9:00**      **ARRIVAL & ALL DAY BARISTA COFFEE**  
Sponsored by Kapsch TrafficCom Australia



**9:00 – 10:30**      **PLENARY SESSION 6 – Focus Areas for The Road Ahead**

Presenters will overview the strategy for road technology deployment over the coming 5 years.

Neil Scales, Director-General, Department of Transport and Main Roads QLD  
Niloo Karimi, Director Signal Services, Department of Transport VIC  
Transport for NSW

**Perspective from Transurban**

Presenter being confirmed

**Q&A + Discussion with Speakers**

**10:30 – 11:00**      **BREAK**

**11:00 – 12:30**      **CONCURRENT SESSION 7**

**7A – Focus on Charging & Economics**

**Small Pricing Change, Big Network Reward**

Neil France, Infrastructure Advisor, Infrastructure Victoria  
Peter Kartsidimas, Director Networks & Planning,  
Infrastructure Victoria

**Road User Charging for Light Vehicles**

Knut Evensen, Chief Technologist, Q-Free Norge AS

**The US and the Future of Road Transport Funding**

Richard Delplace Manager Regulatory Market  
Development, EROAD

**Global Learnings and Applications of Technology  
Enabled Tolling and RUC for Australia**

Eleanor Joseph, Vice President of Strategy and Business  
Development, Innovation, Via  
Ben Hague, APAC Regional Manager, Via

**Multi-Modal Transport Platforms – Transitioning to a  
New Platforms in Major Cities**

Shareen Hamidullah, Project Manager, Cubic  
Transportation Systems

**Q&A + Discussion with Speakers**

**7B – Future Technology Trends**

**Maximising the Benefits of Automated and Zero Emission  
Vehicle Technology**

Sean Williams, Principal Economist, Infrastructure Victoria  
Llewellyn Reynders, Director - Research & Economics,  
Infrastructure Victoria

**Transmax STREAMS Smart Motorways**

Andrew Paynter, Chief Technology Officer, Transmax

**The Future of Motorway ITS Technologies**

Hossein Parsa, Principal ITS Strategy and Innovation Lead,  
Transurban

**Control Systems Pathways, from Status Quo to Single-O**

Scott Penno, ITS Domain Lead, Transurban

**Back to the Future of Roads and Transport**

Daniel Hoyne, Head of Solution Consulting, Kapsch  
TrafficCom Australia

**Q&A + Discussion with Speakers**

**12:30 – 1:30 LUNCH (MESH Restaurant Crown)**  
Sponsored by Cubic Transportation Systems



**1:30 – 2:30 CLOSING PLENARY SESSION 8**

**Perspectives from leading industry**

Presenters being confirmed

**Kirk Mitchell**

Head of APAC Partnerships - Google Maps, Local Search & Google Earth, Google

**Perspectives NextGens – what do they want**

**Q&A + Discussion with Speakers**

**Update on ITS Australia Activities**

Susan Harris, Chief Executive, ITS Australia

**Conference Close and Thank you**

Susan Harris, Chief Executive, ITS Australia

## TECHNICAL TOURS

Opportunity to experience and learn more about Melbourne's leading transport technology solutions. Included with registration, pre-bookings required as places are limited.

### WALKING TOUR OF AIMES

AIMES is taking engineering to the streets, collecting and computing data from smart sensors and systems installed across 100km of Melbourne's inner North – a living laboratory – complete with all the realistic complexities, obstacles, and rules that come with urban travel.

This network of smart sensors is designed to connect all parts of the transport environment. The focus is on multimodal transport – connected vehicles, connected public transport, connected pedestrians and cyclists, intersections and smart public transport stations.

Located on the fringe of Melbourne's central business district, AIMES comprises an ideal mix of road users, road types, infrastructure and traffic challenges – opportunity to walk the streets to learn more about these outcomes.

### Additional technical tours – being confirmed



## VIEW ON DEMAND PRESENTATIONS

BONUS CONTENT: Listen to more of what the industry has to say with pre-recorded view on demand presentations – launched 2 weeks prior to the conference and staying available for the next 12 months

### DATA ANALYTICS & TOOLS

#### Axle-based Vehicle Classification Using Tracking Radar

Alastair Wiggins, Technical Director, Sensys Gatso Australia

Victor Deville, Radar Support Engineer, Sensys Gatso Australia

#### Compass IoT: Digital Road Intelligence Tools

Angus McDonald, Co-Founder, Compass IoT

Emily Bobis, Co-Founder, Compass IoT

#### Detecting Erroneous Traffic Sensor Data in a Traffic Management System

Dr Ahmad Tavassoli, Senior Traffic Modeller, Transurban

Dr Amir Minagar, Principal Motorway Network

Optimisation, Transurban

#### Impacts of Covid 19 Lockdowns on Traffic Patterns and Toll Road Value Proposition

Dr Amir Minagar, Principal Motorway Network

Optimisation, Transurban

Ahmad Tavassoli, Senior Traffic Modeller, Transurban

#### Lessons for the Future from GPS Probe Data During the COVID-19 Pandemic

Nick Twort, Economist, HoustonKemp

#### The Effect of Increased Online Retailing on Road Use and Traffic Speed Performance

Elaine Luc, Analyst, HoustonKemp

#### Transurban ITS Operations Maintenance & Support Future Model

Stephen Connell, Head of ITS Operations Excellence, Transurban

#### Moving to a Tag-Less Environment

Daniel Shaw, Solution Consultant Tolling, Kapsch TrafficCom Australia

#### Sustainability in Tolling Roadside Systems

Andreas Goldhorn, Domain Lead – Tolling, Transurban

#### Video Tolling Review - An Integrated Approach

Jos Nijhuis, SVP Image Review Solutions, Q-Free Netherlands B.V.

### NETWORK OPTIMISATION & PLANNING

#### Motorway Off-ramp Back-of-queue Risk Analysis

Timothy Clark, Senior Transport Planner, Transurban

Karessa Cullen, Manager Traffic Network Optimisation, Transurban

#### Transurban's Network-wide Approach to Operations

Angelo Lambrinos, General Manager, Assets Qld,

Transurban

#### Reshaping Future Freight Supply Chains and Implications for Patterns of Road Use in Greater Sydney

Adrian Kemp, Partner, HoustonKemp Economists

Sam Pfeiffer, Economist, HoustonKemp Economists



SMART TUNNELS & BRIDGES	
<p><b>Evolution of Smart Tunnels Management</b> Henry Wu, Director, JYW Consulting</p> <p><b>Reality Capture for Tunnel Asset Management</b> James Sanderson, National Business Development Manager, Intellispatial</p>	<p><b>Strategy-led Tunnel Positioning and Wayfinding ITS Technology Deployments – Transurban Case</b> Hossein Parsa, Principal ITS Strategy and Innovation Lead, Transurban</p>
COMMERCIAL VEHICLES & LOGISTICS	FUTURE TOLLING & TRANSPORT PRICING
<p><b>The Power of the Curb - Flexible and Dynamic Use of the Curb for Freight, Delivery and Servicing</b> Neil Herron, CEO and Founder, Grid Smarter CITIES</p>	<p><b>Electronic Tolling – Ideas for Future-proof Concepts</b> Fred Kalt, Managing Director APAC, Yunex Traffic</p>
DATA FOR SUSTAINABLE & EQUITABLE	TRAVELLER & CONSUMER EXPERIENCE
<p><b>Incentivise Private Motorists to Reduce Carbon: Keep Within the 1.5 Degrees Celsius Target - Glasgow Transport Futures Model</b> Kate Barnard, Chief Executive Officer, Enjoy The Air Limited Errol Kruger, Director Customer Strategies, Enjoy The Air Limited</p>	<p><b>HIVE+ Traffic - Ai on the Edge</b> Claus Outstrup, Director, Felicity</p> <p><b>Portable Vehicle Identification and Classification</b> Dale Fowler, Sales Director, Sensor Dynamics</p>
INTERNATIONAL PERSPECTIVES	PAYMENT MANAGEMENT & COLLECTIONS
<p><b>Safer, Smoother Journeys Ahead</b> Scott Fitzgerald, Operations Director, Redflex, a Verra Mobility Company Victor Wardrop, NSW Operations Director, Redflex, a Verra Mobility Company</p>	<p><b>Passive RFID - Cheap! but Can It Perform as Road Toll Option?</b> Erik van Vulpen, Deputy Director Centre for Technology Infusion, La Trobe University</p>

Program as at 23/2/22, subject to change as speakers are confirmed

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