



## 17<sup>th</sup> Asia Pacific Forum on Intelligent Transport Systems

Brisbane Convention & Exhibition Centre  
Queensland, Australia | 12-15 April 2021



# iMOVE Cooperative Research Centre

Australia's national transport and mobility R&D centre



#ITSAP2021



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# **iMOVE: Australia's national transport research centre**

**R&D collaboration funded by the Australian government and 44 partners. AUD107 mil over ten years.**

- **Specialist in multi-party applied transport research**
- **Facilitator, connector and co-funder**
- **Aim to deliver transport improvements – for people and freight**
- **Develop and test technology, connect people, build skills**



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# iMOVE research program



## Personal Mobility: Moving people

Better understand/predict/  
improve journeys,  
Understand/modify behaviour



## End-to-end Freight: Moving goods

Data visibility, whole chain  
optimisation, intermodal, cold chain



## Networks and Infrastructure

Data, algorithms, intersection control,  
network optimisation, connectivity



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# Connectivity & automation

- Importance of maps for AV navigation
- Community engagement with AV's (as drivers and pedestrians)
- Opportunities (esp. safety ) arising from mass connectivity
- Protocols for CAV cybersecurity
- Cooperative perception – seeing around corners with C-ITS

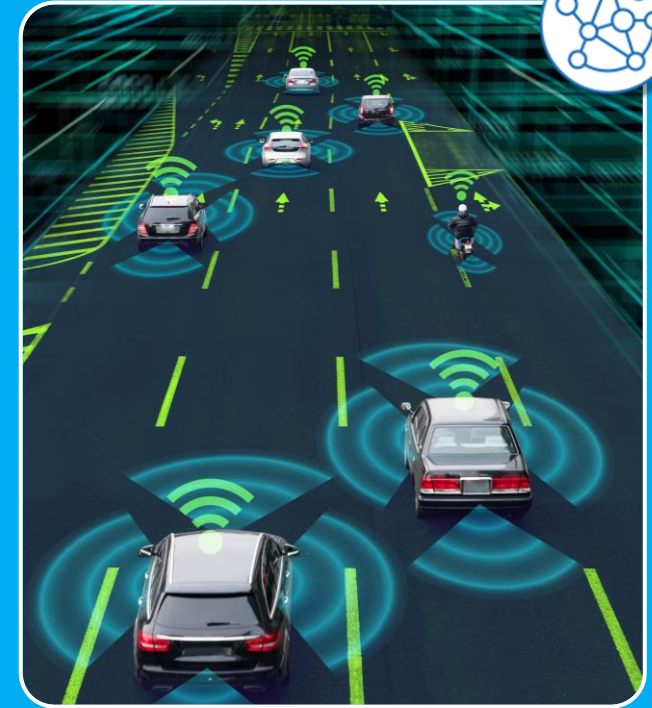
## FUTURE

Transition to open road trial

Cybersecurity a priority

Future workforce skills

Move from community engagement to acceptance







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# Networks and ITS

- Congestion prediction and preventative intervention
- Real time utilisation of multiple data sources for better traffic management
- Planning for CAVs on our roads – how will networks change

## FUTURE

Measuring and managing network performance

Data fusion – bring together many and disparate data sources





# People-centred cities

- **MaaS**
  - Community attitudes
  - Pricing and bundling
  - Campus trials
  - Moving to city implementation
- **Planning: integrating transport and land use**
- **Solving Parking**
  - Availability awareness

## FUTURE

On demand transport  
esp. for last mile

Effect of 'Work from  
Home' on the future  
transport task

Kerbside management –  
competing needs-  
economy, equity, safety,





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# Freight, logistics & supply chains

- Information needs for supply chain efficiency – planning and operational
- Preparation for a national freight data hub
- Aggregating telemetry data

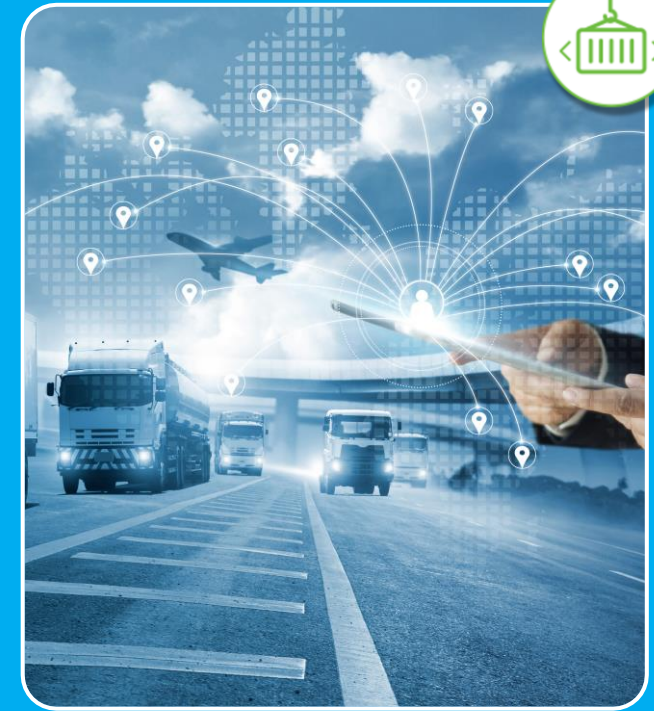
## FUTURE

Data exchange

Data standards

Network integration  
(co-modality)

Last mile & remote area  
innovation (drones)





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# Engaging with iMOVE

- Keen to strengthen R&D networks in Australia and overseas
- R&D collaborations possible
- Sharing knowledge – project outcomes, learn from each other
- Education and events



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