



# FUTURE TRANSPORT AND MOBILITY

## AUSTRALIAN CAPABILITIES AND OPPORTUNITIES

Image courtesy of CSIRO's Data61

The future of Australia's public and private transport sector is being moulded by a combination of technological disruption, strong regulatory and policy leadership, and investment opportunities.

Like most countries around the world, Australia is rethinking its transport infrastructure to address increasing urbanisation, rapid population growth and environmental sustainability. Australia's strengths are its track record embracing and developing new technologies, and the ability and willingness of its transport authorities, education institutions and industry to collaborate and deliver innovative solutions.

Over 15 connected and automated vehicle trials are underway within the country, with this number set to grow thanks to a robust research and development (R&D) ecosystem. The ecosystem includes iMOVE, a national collaborative research centre; the Australian Integrated Multimodal Ecosystem (AIMES); and the national science agency CSIRO's Data61 – a world leader in data science research and engineering.

### STRONG GOVERNMENT SUPPORT

Australian governments across all levels are working with industry to leverage Intelligent Transport Systems (ITS), Connected and Autonomous Vehicles (CAVs) and Mobility as a Service (MaaS) to improve the safety, efficiency and sustainability of the country's transport system.

Australia has announced an ambitious reform agenda to have an end-to-end regulatory system in place by 2020 for automated vehicles at all levels of automation.

### AN ACTIVE INDUSTRY

Australia offers an ideal market to develop, innovate and refine new modes of transport and transport technology. These conditions are spurring activity and investment by transport authorities, automotive OEMs and local as well as international firms. Some innovation highlights across the Australian future transport and mobility sector include:

- Sydney-based Baraja, which has developed a 3D machine vision system for CAVs using Light Detection and Ranging (LiDAR) technology

- Tritium, which is manufacturing and supplying world-leading electric vehicle charging infrastructure to locations in Europe and North America
- Australian companies such as Seeing Machines collaborating with Volvo Trucks Australia, Ron Finemore Transport and Monash University to deliver the first industry-led Cooperative Research Centre program studying heavy vehicle driver behaviour in a naturalistic on-road study
- major OEM carmakers and suppliers such as Mercedes-Benz and Bosch trialling autonomous vehicles on roads around Melbourne, Victoria
- emerging automated vehicle providers such as Navya, EasyMile, Aurigo and Local Motors trialling and demonstrating their technologies in partnership with Australian universities, local companies and transport authorities.

Australia is also home to a large number of future transport innovators making an impact internationally. For example, SkedGo is offering an integrated transport platform and employing MaaS technology in Europe, North and South America. Intelematics, a leading provider of telematics services to the automotive industry since 1999, has recently launched a service in the UK delivering intelligent prognostic tools to both drivers and the British Automobile Association.

## Why Australia for Future Transport and Mobility?



Australian future transport market set to generate **more than \$16 billion** in revenue by 2025<sup>1</sup>



The iMOVE Cooperative Research Centre **boasts 44** industry, government and research partners



**Future Transport Digital Accelerator** launched by Transport for NSW



Nationally consistent **automated vehicle regulation** to come into play by 2020<sup>2</sup>



**15+** connected and automated vehicle trials underway with more to come<sup>3</sup>



**Supportive communications infrastructure:** 5G development, satellite positioning upgrades and dedicated bandwidth



Transport authorities are committed to **open datasets for commercial use**

## HOW AUSTRADE CAN HELP

The Australian Trade and Investment Commission – Austrade helps companies around the world to identify and take up investment opportunities in Australia as well as to source Australian goods and services. Our assistance includes:

- providing insight on Australian capabilities
- identifying potential investment projects and strategic alliance partners
- helping you to identify and contact Australian suppliers.

Austrade has produced a comprehensive Australian Future Transport and Mobility industry capability report.

Access this report at [www.austrade.gov.au/futuretransport](http://www.austrade.gov.au/futuretransport) for case studies and further detail on opportunities in this sector.

Talk to your local Austrade representative for more tailored advice and information.

**W** [austrade.gov.au](http://austrade.gov.au)  
**E** [info@austrade.gov.au](mailto:info@austrade.gov.au)

### Disclaimer

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<sup>1</sup> Australian Intelligent Mobility Market. Trends, Technologies and Opportunities, 2016-2025. Frost and Sullivan, May 2017

<sup>2</sup> National Transport Commission. Automated Vehicles in Australia. [www.ntc.gov.au/roads/technology/automated-vehicles-in-australia/](http://www.ntc.gov.au/roads/technology/automated-vehicles-in-australia/)

<sup>3</sup> Austroads. Australian and New Zealand Trials [www.austroads.com.au/drivers-vehicles/connected-and-automated-vehicles/trials#-33.5386650/143.2273256/3](http://www.austroads.com.au/drivers-vehicles/connected-and-automated-vehicles/trials#-33.5386650/143.2273256/3)

For more information email [info@austrade.gov.au](mailto:info@austrade.gov.au) or visit [austrade.gov.au](http://austrade.gov.au)