

The Honourable Mark Bailey MP
Minister for Transport and Main Roads

Mr Neal Scales
Director General
Transport and Main Roads, Queensland Government

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**Transport and Main Roads, Queensland Government,
Draft Queensland Transport Strategy
– ITS Australia Submission**

The Honourable Mark Bailey MP - Minister for Transport and Main Roads

We commend the Queensland Government investing in the development of a long-term transport strategy and appreciate the opportunity for ITS Australia to make a submission to this consultation initiative.

ITS Australia last year published a report on opportunities and consumer expectations for [Mobility as a Service in Australia](#) and a key outcome of the research and report was the development of a [Vision for MaaS in Australia](#). We are pleased to note that this closely correlates with the 5 customer-centric tenets that guide your strategy and approach to the future of transport in Queensland.

- Accessible, convenient transport
- Safe journeys for all
- Seamless, personalised journeys
- Efficient, reliable and productive transport for people and goods
- Sustainable, resilient and liveable communities.

The vision of MaaS offers the potential to drastically improve customer choices, reduce travel costs, increase network capacity and transport sustainability while improving social and environmental outcomes. Our research also shows the opportunities to leverage MaaS to increase employment opportunities, grow our tourism sector, and better plan our towns and cities to improve the lives of all Australians now and into the future.

To support these goals ITS Australia undertakes to work with government and industry to shape opportunities for MaaS that address the following 7 outcomes:

01

Promotes the efficient movement of people and goods to improve safety, and productivity, reduces congestion and environmental impacts

04

Enhances transport access and mobility options to customers across metropolitan and regional centres that Australians live and work in

02

Encourages a vibrant and competitive industry sector and supports effective MaaS deployment

05

Is inclusive and responsive to the socio-economic and mobility needs of all customers, balancing innovation and improvements against equitable access for all Australians

03

Builds on the existing public transport network and supports improved access to transport options for customers

06

Offers interoperable open access solutions that encourage competition and enables effective data sharing while protecting privacy and security concerns.

07

Aims to be more convenient than individual use of private vehicles

To further the national collaboration towards these outcomes for MaaS in Australia, a [National Reference Committee](#) has been established to continue the collaboration that was fostered during the development of the ITS Australia MaaS report and to strive for the best outcomes for MaaS and on-demand transport for all Australians.

The Reference Committee is made up of project participants, including Transport and Main Roads Queensland, and other key industry stakeholders to ensure a broad range of expertise can contribute to and collaborate on the development of MaaS in Australia through sharing updates on activities in respective jurisdictions and organisations; including research, trials, and international engagement.

With more than 1,200 people dying and over 30,000 people being seriously injured each year on Australia's roads, the only long-term goal we can have is for zero fatal and serious injuries. To that end, we believe we will only work towards that vital and ambitious goal through transport technologies, including C-ITS and automated vehicle technology.

Safety needs to be the foundation on which any deployment of C-ITS and development of Connected and Automated Vehicles (CAV) and other transport technologies rests and we are optimistic about the innovation and expertise in our industry and the functionality that will be available to the wider community.

To that end, we strongly endorse the initiative to expand C-ITS on the network to ensure our infrastructure can deliver on these safety benefits and be ready to support CAVs as they become more operational.

In advance of any wide-spread CAV deployments modal shift from private vehicles to mass transit is the key to a more productive and efficient network, and importantly being safer and more sustainable, particularly in our growing cities.

Real-time information, integrated smart ticketing systems, multi-modal trip planning, and other innovations offering improved customer experience rests on transport technologies that need to be consistently developed and deployed to enable the opportunities they offer to benefit all Australians.

A strong government role will be critical to ensure that the deployment of these technologies is guided to improve the quality of life for citizens. Governments need to provide regulatory oversight to give the public confidence in testing and deployment as well as support collaboration across industry and the community.

To that end we are very supportive of existing and emerging pilots and trials underway and proposed around the country, building a collaborative and transparent understanding of the challenges and opportunities these technologies offer, and ensuring that public safety is always the key consideration. Government should also play a key role in working with the private sector to facilitate deployment and remove unnecessary regulatory barriers to enhance the widespread deployment of proven technologies.

We also strongly endorse the recognition that the role of government should be increasingly that of an enabler rather than direct provider and partnering with the private sector with a focus on being more agile and responsive to change.

We note data is repeatedly referenced with regards to privacy, security, and customer protections which are extremely important considerations. To enable a real improvement in customer experience there are also innovations that can be offered only through the effective and responsible sharing of data from both the public and private sectors. ITS Australia strongly support the Queensland Transport Strategy proposed initiative to work with industry to share transport data.

A key outcome from the MaaS National Reference Committee Workshop was the need to consider a National Data Framework for MaaS in Australia that could guide industry and government to enable the best outcomes for our networks and communities.

Also of interest to Queensland Government and Transport and Main Roads would be a Connected and Automated and Electric Vehicles Roundtable ITS Australia facilitated that considered the way we currently model potential impacts of these emerging technologies and opportunities to enable a more wholistic approach for Australia while recognising regional differences.

ITS Australia are undertaking some work to better understand the overall change dynamics through a sociological perspective, to consider what are the cultural differences and possible choices Australians will make that impact on the benefits we are hoping these technologies could offer.

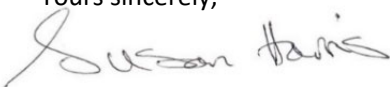
The necessary investigation of alternative fuel sources to enhance the sustainability of our transport network, including the increasing role electric vehicles will play, will require us to remodel the existing payment structure for access to our networks, and ITS Australia are well placed and motivated to support government in enabling what will be a vital and challenging shift in economic models. This shift will need to include behavioural change programs through incentives and a better understanding of the economics of transport pricing models and network allocations.

For your consideration we have also attached the ITS Australia Statement on Connected and Automated Vehicles following the page showcasing our members across the breadth of the transport and technology sectors. As a peak body that represents national and international organisations we strongly support an approach that works towards harmonisation and cross-jurisdictional considerations and are keen to be involved in these ongoing discussions.

Conclusion

ITS Australia commends the Queensland Government and Department of Transport and Main Roads in detailing a comprehensive strategic plan to leverage the benefits of these important existing, emerging, and future opportunities and are keenly interested in supporting any efforts to acquire information from industry that will support the on-going planning for these technologies and initiatives that will drive safer and more efficient transport networks in Queensland.

Yours sincerely,



Susan Harris
Chief Executive Officer

ITS Australia Background

ITS Australia is the peak group representing over 120 public and private organisations delivering on transport solutions and technology improving Australia’s road and transport networks and promotes the development and deployment of advanced technologies to deliver safer, more efficient and sustainable transport across all public and private modes – air, sea, road and rail.

Established in 1992, ITS Australia is an independent not-for-profit incorporated membership organisation representing ITS suppliers, government authorities, academia and transport businesses and users. Affiliated with peak ITS organisations around the world, ITS Australia is a major contributor to the development of the industry.

As set out in the Strategic Plan 2018-2021 our vision is to shape future transport to be safe, efficient and environmentally sustainable through the implementation of Intelligent Transport Systems. Our mission is to:

- Advocate for, and inform discussion about, ITS;
- Facilitate collaboration and partnering amongst industry, government and researchers;
- Support research, development and the deployment of ITS technologies;
- Influence and guide the successful development of the ITS industry.



ITS Australia Statement on Connected and Automated Vehicles

ITS Australia supports the advancement of connected and automated vehicle technology and see the appropriate deployment of the technology as a pathway to provide safer, more efficient and more sustainable transport.

Safety needs to be the foundation on which any development of Connected and Automated Vehicles

(CAV) rests. We are optimistic about the innovation and expertise in our industry and the functionality that will be available to the wider community.

These technologies have the potential to revolutionise transport in a way not seen since the mass production of the private vehicle more than 100 years ago and to save thousands of lives.

It is critical that Governments establish very clear regulations which are performance based, to ensure that the deployment of CAV's is guided to improve the safety and quality of life of the community. Governments need to provide regulatory oversight to give the public confidence in CAV testing and deployment, as well as data sharing.

To that end we are strongly supportive of existing and emerging pilots and trials underway and proposed around the country, building a collaborative and transparent understanding of the challenges and opportunities these technologies offer, and ensuring that public safety is always the key consideration.

It is vital that these controlled pilots are proven before large scaled deployment occurs. Government should also play a key role in working with the private sector to facilitate deployment and remove unnecessary regulatory barriers to enhance the widespread deployment of proven technologies. While ensuring all elements are safely assessed and fully tested in controlled pilots and trials before publicly deployed.

ITS Australia is a membership based peak body representing Australian industry, government and research organisations in promoting Intelligent Transport Systems initiatives. We are a Not for Profit association and serve the interests of our members in Australia and globally. We represent the Australian ITS sector within Australia and Australian ITS interests internationally.

As such we recognise the importance of these technologies and work with our members and the wider community to ensure safe and responsible development and deployment of these potentially life-changing transport innovations.

To build understanding, and collaborative approaches, and work towards broad community consensus we support the following key messages, while appreciating that our position will evolve as these technologies and the market mature.

Key messages:

- 1. More than 1,200 people die and over 30,000 people are seriously injured each year on Australia's roads. The only long-term goal we can have is for zero fatal and serious injuries.**
 - We believe we will only get to zero fatalities and serious injuries through CAV technology.
- 2. Technology can save lives today.**
 - We support the early adoption of advance driver assistance technologies— lane keeping, blind spot warning, adaptive cruise control, automatic braking — should be on all new vehicles.
- 3. Performance based regulation with safety systems validated by manufacturers is essential.**
 - New technologies must be evaluated in real-world conditions, but only after they have been fully tested in off-the-road environments. We support controlled and transparent pilots and trials, with government oversight, of tried technologies.
- 4. Cooperative systems achieved through communication between vehicles, infrastructure, and other users will provide an enhanced layer of safety and must be pursued.**
 - This ability to communicate will be essential for extending the range of vehicle-based sensing and delivering maximum safety benefits with high levels of automation.
 - Initially additional research and testing is needed concerning the driver's ability to remain vigilant and take over the driving task when required with the current levels of new technologies which have low levels of automation.
 - As increasing levels of automation are achieved these systems will fully automate the driving task under most conditions, but do not preclude the vehicle being operated by a human driver in unusual or emergency situations.

Acknowledgement

ITS Australia would like to acknowledge that this statement builds on the work of the Institute of Transportation Engineers, adopted for the Australian context.