Cooperative and Automated Vehicle Initiative (CAVI)

The Cooperative and Automated Vehicle Initiative (CAVI) is a Department of Transport and Main Roads (TMR) project designed to prepare for, and accelerate, the emergence of advanced vehicle technologies with safety, mobility and environmental benefits onto Queensland roads.
The CAVI project is co-funded by the Motor Accident Insurance Commission.

Goal

Pilot cooperative and automated vehicle technologies that make roads safer, and contribute towards the Queensland Government's vision of zero road deaths and serious injuries on the State's roads.

Timeframe

2017 – 2021

Pilot objectives

- Validate the impacts and benefits of applications, and user perceptions
- Demonstrate technologies publically and build public awareness and uptake
- Grow the department's technical and organisational readiness
- Encourage partnerships and build capability in private and public sectors

Pilot outcomes

- Government and local industry representatives are up-skilled in deployment and operations as appropriate
- New industry partnerships for services are formed and tested
- Current understanding of government direction/actions to support deployment are captured in a road map
- Safety benefits are estimated, and public perceptions are validated through on-road testing
- Public awareness is increased
- A test-bed for use by government, industry and academia is available after the pilot

MAIC

Queensland Government

Why do we need CAVI?

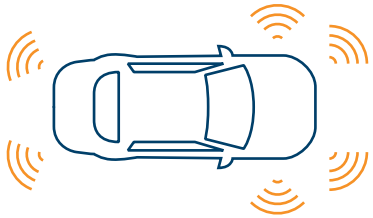
CAVI will lay the technical foundations for the next generation of smart transport infrastructure that supports the state's objectives of prosperity, productivity, connectivity and sustainability.

CAVI incorporates four components:

1

C-ITS Pilot

The largest component of CAVI is the C-ITS Pilot, the largest on-road testing trial in Australia of cooperative vehicles and infrastructure. The scope of the C-ITS Pilot is to perform on-road testing of multiple 'day-one' C-ITS safety applications. The pilot will undertake field operational testing on public roads for up to one year, with C-ITS technologies retro-fitted to around 500 public and fleet vehicles. The location for the Pilot test bed is Ipswich, Queensland.



2

CHAD Pilot

A small number of cooperative and automated vehicles will be tested on public and private roads using trained and public participants.

The pilot will assess:

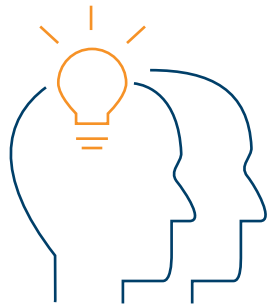
- asset readiness (that is, signs and lines)
- driver behaviour (human machine interface)
- vehicle performance

Demonstrations will also be undertaken for public awareness raising and education.

3

Vulnerable Road Users

The department will be seeking to develop and undertake proof-of-concept tests for new applications that address specific vulnerable road user priorities in Queensland, including bicycle, pedestrian and motorcycle safety issues. These applications will be developed in consultation with relevant advocacy groups.



4

Change Management

As with many technology initiatives, for the department to enable deployment and realise the full benefits of this investment, a level of organisational change will be required. Much of this change will be related to the development of capability, however some changes to business processes are also required.

Resourcing for organisational change management has been factored into the project and will include the development of road maps for impacted business areas.

For more information about CAVI, contact:

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