Who is Austroads?

- Peak organisation of Australasian road transport and traffic agencies.
- 900,000 kilometres of roads valued at more than $250 billion
- The single largest community asset in Australia and New Zealand.
What does Austroads do?

• We undertake leading-edge road and transport research which underpins our input to policy development and published guidance on the design, construction and management of the road network and its associated infrastructure.

• Austroads provides a collective approach that delivers value for money, encourages shared knowledge and drives consistency for road users.
Future Vehicles & Technology Program

Themes

• Connected & Automated Vehicles
• Physical & Digital Infrastructure
• Low & Zero Emission Vehicles
• Member Capability
Connectivity

• 5.9GHz allocated for C-ITS
  • ITS G5 specified

• Pilot projects
  • CITI
    • Established 2013
    • Initially focused on heavy vehicles
    • Light vehicle component
    • 10 Billion records collected
  • CAVI
    • Plan for 500 vehicles
    • Security Credential Management System
    • Installs begin 2020
    • Includes Lev 4 AV

• 5G rollout started
Connectivity – 5G coverage Sydney

Telstra – Sydney CBD

Optus – Sydney (North)
Connectivity – 5G coverage Melbourne

Telstra – Melbourne

Optus – Melbourne
Big Data

- Open data platforms
  - Avail - 8 out 9 Australian jurisdictions
  - Avail - New Zealand

- Data format
  - Human readable format
  - Increasing machine readable data sets

- Agency capability
  - Limited staff analytics capacity
  - Need for data scientists
  - Competition with private sector
Big Data
Cybersecurity

- The **Australian Cyber Security Centre** (ACSC)
  - Established in 2014
  - Minimal information on transport applications
- Austroads reports
  - C-ITS Compliance Assessment Framework for Australia and New Zealand
  - Evaluation of the European C-ITS Platform including Threat, Vulnerability and Risk Analysis
- Security Credential Management System
  - CAVI project
  - Currently Queensland only participant
Impacts – Road Safety

• Fleet turnover limited (av age 11 years)

• Initial impact through ADAS
  • Autonomous Emergency Braking
  • Lane Keep Assist

• C-ITS
  • No large scale commercial deployments
  • Pilot deployments
    • CITI
      • 10 Billion records
      • Analysis underway
    • CAVI
      • 500 vehicle pilot
      • Installs from 2020

• Level 3 not expected to 2021 (limited)
  • High end luxury vehicle only
Impacts – Mobility

• Automated vehicles
  • Sydney Metro – 1st driverless passenger rail
  • No commercial road transport deployments
  • Shuttle bus trials

• Connected vehicles
  • Incident reporting systems & apps
  • Travel apps
  • Mobility as a Service Pilots
Impacts - Mobility

- Cooee – on-demand public transport
  - Western Sydney
  - Connects residents with Hubs
    - Train Stations
    - Shopping Centre
  - Weekdays only until 9:00 pm
  - Fares $1.12 - $4.80
  - Smartphone required
Thank you

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