

Telematics Industry Group (TIG) Meeting

18 May 2023





Acknowledgement of Country

We acknowledge the Australian Aboriginal and Torres Strait Islander peoples as the first inhabitants of the nation and the traditional custodians of the lands where we live, learn and work. We pay our respects to Elders past, present and emerging for they hold the memories, traditions, culture and hopes of Aboriginal and Torres Strait Islander peoples of Australia.

TCA acknowledges and respects the Treaty of Waitangi and Maori as the original people of New Zealand.



Welcome

- Welcome to the May 2023 Telematics Industry Group
- Please be respectful of others, raise your hand to ask questions or make comments, and keep your microphone muted when not speaking.
- We have a range of speakers and attendees from around Australia and some exciting developments.
- We will be recording the meeting for those who can't attend.



Agenda

- 1. Welcome
- 2. Smart OBM roll-out
- 3. Latest developments from around the country
- 4. TCA-led initiatives and priority projects
- 5. Open forum for discussion
- 6. Local Government perspectives (ALGA)
- 7. Other business

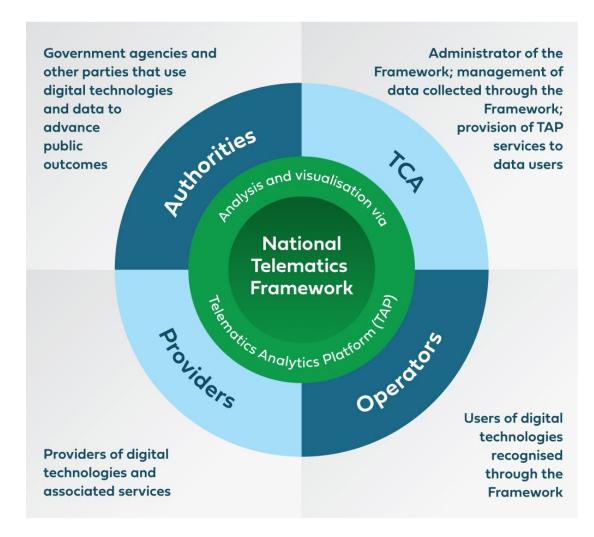


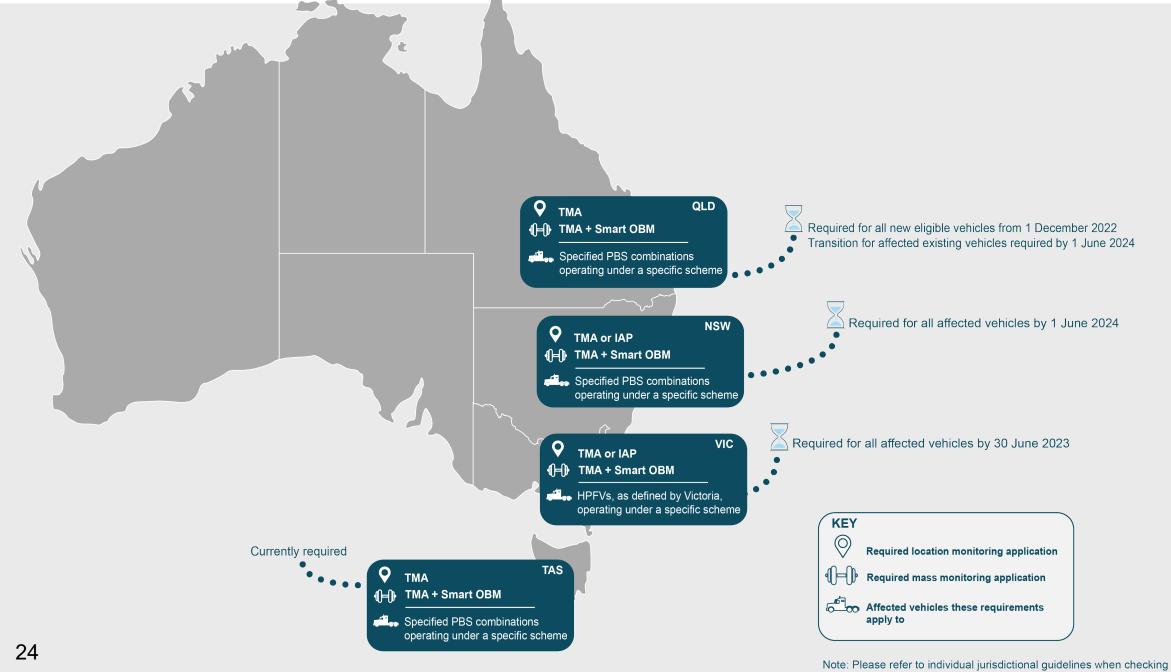
Smart OBM roll-out

Gavin Hill, General Manager Strategy and Delivery Transport Certification Australia



The National Telematics Framework





requirements for your specific vehicle and scheme enrolment.



Agenda

- 1. Welcome
- 2. Smart OBM roll-out
- 3. Latest developments from around the country
- 4. TCA-led initiatives and priority projects
- 5. Open forum for discussion
- 6. Local Government perspectives (ALGA)
- 7. Other business



Telematics in Queensland

Mark Mitchell, Director Heavy Vehicle Operations
Department of Transport and Main Roads Queensland



Telematics in Queensland

Telematics Industry Group Meeting – Brisbane Truck Show 2023

Mark Mitchell, Director Heavy Vehicle Operations Department of Transport and Main Roads



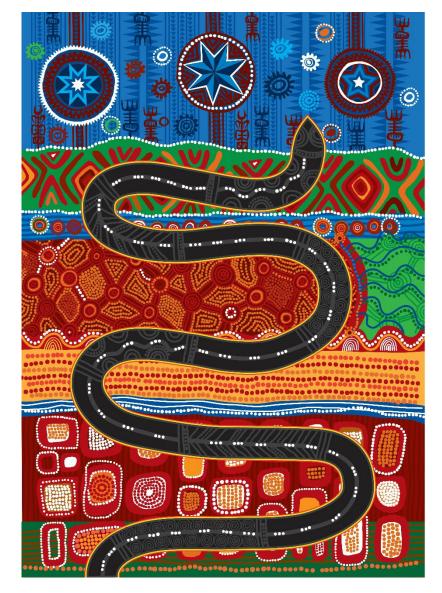
Acknowledgement of Traditional Owners and Elders

I'd like to begin by acknowledging the Traditional

Owners of the land where we meet today. I would

also like to pay my respects to the Elders both past
and present.

I also extend that respect to the Aboriginal and Torres Strait Islander people here today.



'Travelling' by Gilimbaa

What is happening with Telematics in Queensland

- Queensland is currently pivoting from the Intelligence Access Program (IAP) and Interim OBM to the Telematics Monitoring Application (TMA) and Smart On-board Mass (Smart OBM)
- IAP and Interim OBM have been critical tools for Transport and Main Roads (TMR) to manage risk / facilitate road access
- TMRs role is likely to change later this year from managing compliance of the road network to purely a Road Manager function and we need to prepare for this
- The shift to TMA and Smart OBM will align us with other jurisdictions, which is important from a policy perspective.

Broader benefits from application of road use data

- The move by TMR also provides important benefits to the:
 - road transport industry (as users of telematics)
 - telematics/technology industry (suppliers of technology and data services to the transport industry)
- TMR and other road managers will be provided with greater insights, including:
 - Influencing future access
 - Investment decisions
 - Cost savings and operational efficiencies to industry

Vehicle categories effected by the pivot so far

- Class 2 vehicles operating at Higher Mass Limits (HML)
- Class 2 Performance-Based Standards (PBS) Level 1 & 2A Truck and Dog Trailers operating at HML masses
- Class 2 PBS A-Doubles
- Class 3 20m Long 3-Axle Truck and 4-Axle Dog combinations
- Some National Heavy Vehicle Regulator (NHVR) issued permits

NOTE: There has been no change to Class 1 Special Purpose Vehicle IAP requirements, at this stage.

What is next for Telematics in Queensland

- 2023 and beyond for telematics and TMR:
 - Continue working with industry and TCA to provide TMA and Smart OBM education and support
 - Continue to be an effective Road Manager through our effective network monitoring through the use of TMA and Smart OBM data.



- **f** TMRQld
- **y** @TMRQld
- in Department of Transport and Main Roads
- ► TMRQld



Telematics in Victoria

Ian Mond, Manager Land Freight Systems
Freight Victoria

Department of Transport and Planning Victoria



A potted history of Smart OBM in Victoria

Victoria's HPFV Network for 73t Quad-Tri and 77.5t Quad-Quad B-Doubles



What is the difference between current B-Doubles and HPFVs?

B-Doubles are up to 26 metres long and have a Gross Combination Mass (GCM) of 68.5 tonne. In Victoria, a High Productivity Freight Vehicle (HPFV) is a heavy vehicle combination that exceeds 26 metres and/or has a GCM in excess of 68.5 tonne.

What roads can be accessed by HPFVs?

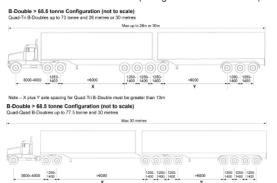
The Victorian HPFV network is being developed with a focus on providing access to primary freight routes connecting with Victorian Ports, interstate links and key industries.

VicRoads is progressively assessing more freight routes to continue to expand the HPFV network. A map and details of Victoria's HPFV network are available on VicRoads website via https://www.vicroads.vic.gov.au/business-and-industry/heavy-vehicle-industry/heavy-vehicle-map-networks-in-victoria

Why is the B-Double HPFV network different to Victoria's current B-Double network?

- Steer Axle 6.5 tonnes¹
- Drive Axle or Tandem Axle Group 17.0 tonnes
- Tri-Axle Group 22.5 tonnes
- Quad-Axle Group 27.0 tonnes
- Overall 77.5 tonnes

In relation to axle spacings, the combination must meet the following minimum and maximum axle spacings to safely cross all the structures on the network (the figures are in millimetres):²



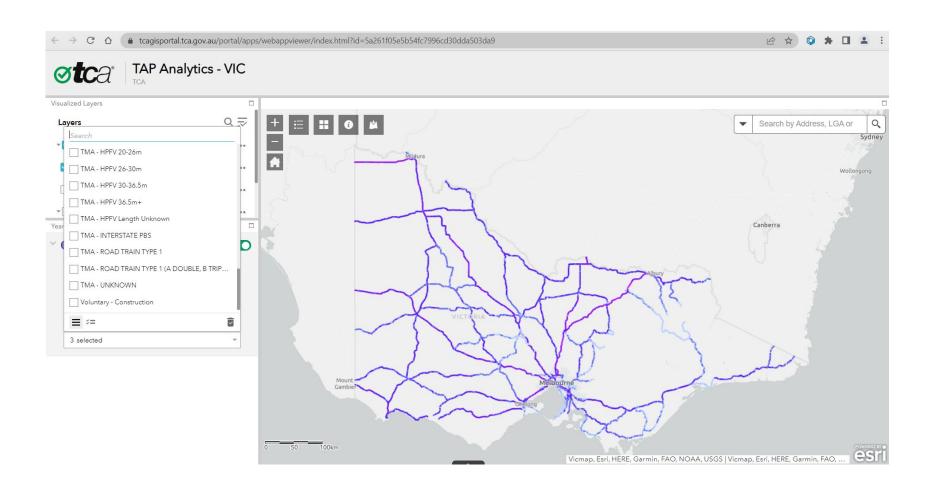


While fitment of an approved OBM system has been specified as an access condition, it is recognised that such systems are not currently available. Accordingly, this requirement is waived until such time as when advice is provided by VicRoads that an OBM system must be fitted to the combination in accordance with the specifications and standards set by Transport Certification Australia.

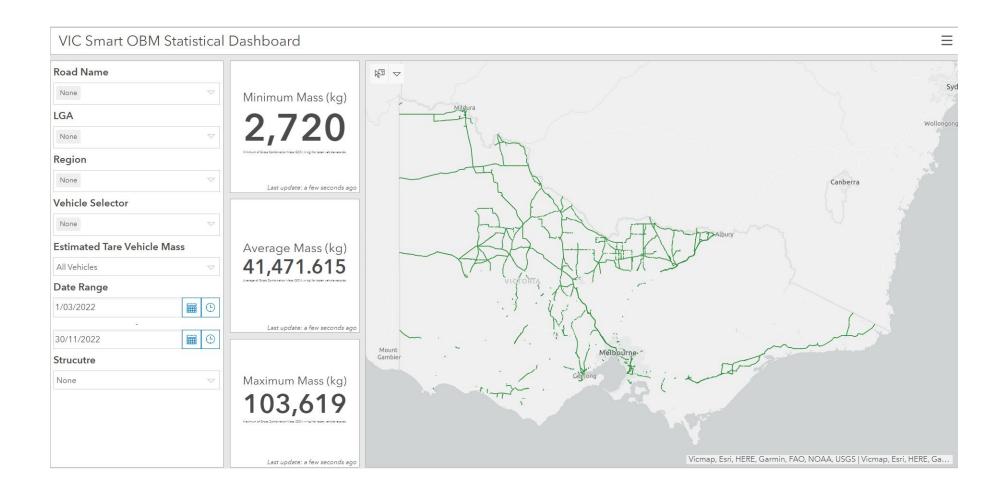
Vehicles that require Smart OBM in Victoria

- A multi-combination vehicle that exceeds 68.5 tonnes
- A single articulated vehicle that exceeds 46.0 tonnes
- A non-standard vehicle (i.e. split axles) that exceeds 43.5 tonnes

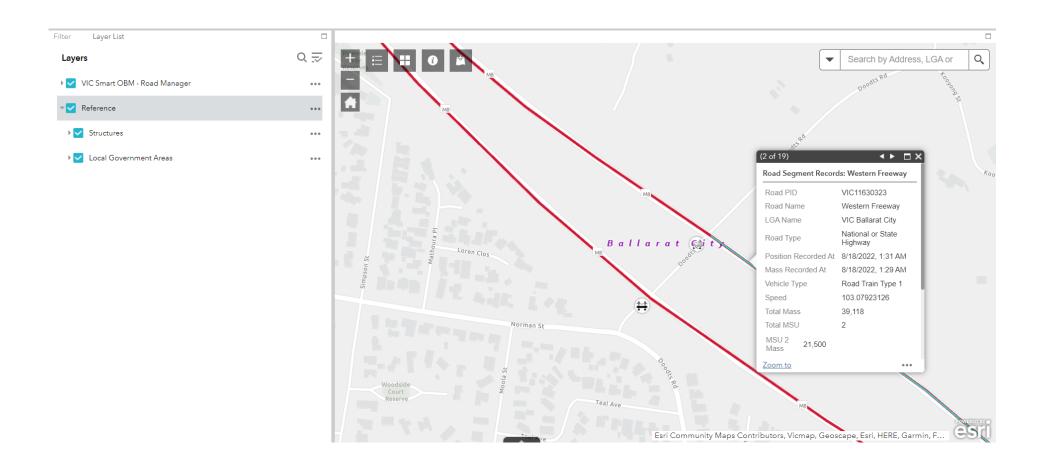
What are the benefits?



What are the Benefits?



What are the Benefits?



What Next?

- Smart OBM will need to be fitted to all eligible vehicles by June 30 2023
- If you have not fitted Smart OBM by then, the mass on your vehicles will be reduced to 68.5 tonnes for a multi-combination or 46.0 tonnes for a single articulated vehicle



Telematics in New South Wales

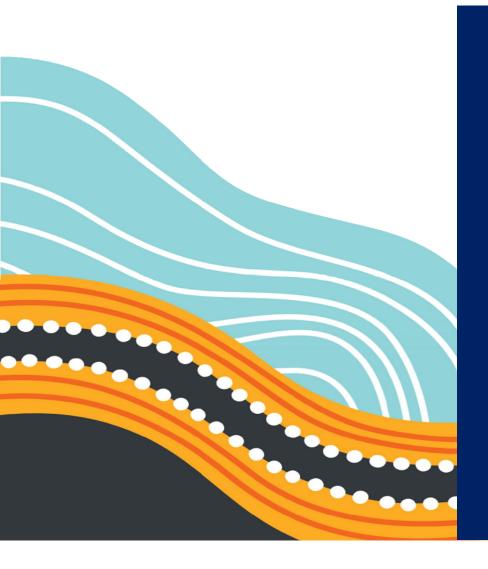
Brett Graham, Senior Manager Road Access
Transport for New South Wales







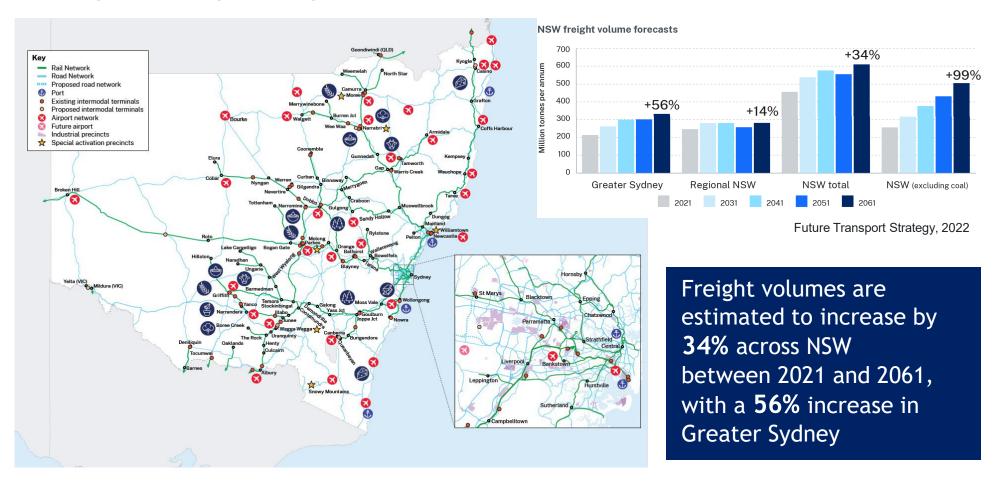




Transport pays respect to Elders past and present, and recognise and celebrate the diversity of Aboriginal peoples and their ongoing cultures and connections to the lands and waters of NSW.

The changing landscape of Australia's supply chains

The growing freight task



Our mission - freight outcomes

Our mission is to give freight a louder voice earlier by raising the profile of freight as a fundamental customer of the transport system to enable the safe, sustainable and productive movement of goods.



Setting NSW on a path to zero trauma from the movement of freight by 2050



Freight transport that delivers net zero emissions by 2050



Productive

Optimised connected, end to end networks

The role of data in improving efficiency

Telematics Analytics Platform (TAP)

- Telematics is a type of technology which involves a system that captures and sends information electronically, typically with an in-vehicle device.
- It provides local councils with access to de-identified and aggregated road usage information on their network
- The **Telematics Analytics Platform (TAP)** supports local councils with secure access to telematics data.



Making data driven investment and maintenance decisions across the network

Telematics Analytics Portal (TAP)

- Increases visibility of network usage by monitored vehicles
- Assists road managers make smarter access decisions
- Provides reports on individual roads and bridges
- Inform network maintenance and investment decisions
- Informs funding requests.



Infrastructure Technology: Sheahan Bridge, Hume Hwy

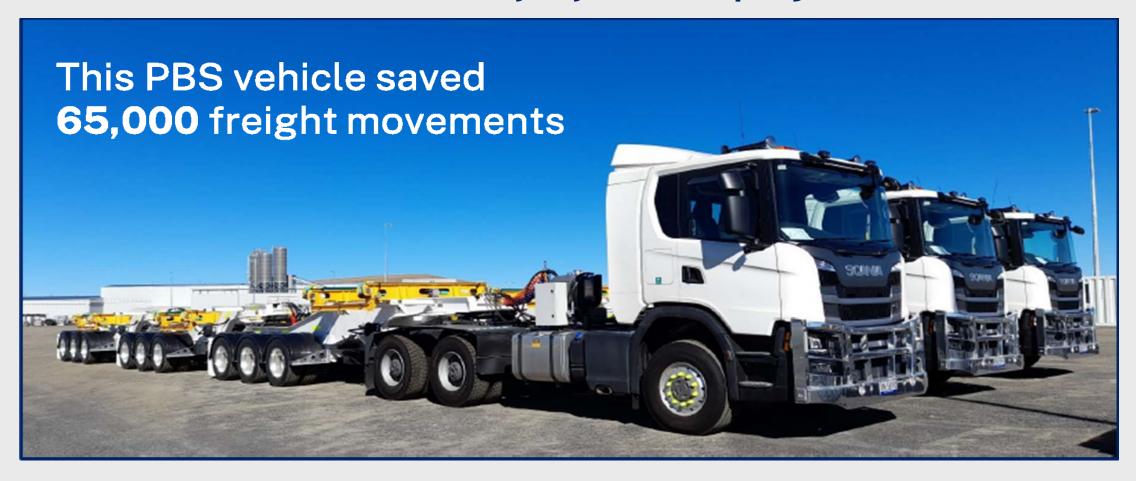


By using technology, access increased from 68.5t to 85t

Non-infrastructure solution using:

- Bridge monitoring devices
- Infrastructure mounted cameras
- In-vehicle telematics (satellite tracking)
- Access conditions including advanced safety equipment on vehicles and lane positioning requirements

Innovative vehicles - Snowy Hydro 2.0 project



Preparedness for future

Building a resilient freight network for the future

A strong, and efficient network is underpinned by:

- New technology
- Real-time network visibility through telematics
- Data-driven decision making enabling real-time responses to freight operations
- Targeted non-infrastructure options, and improved maintenance
- Reduced administrative burden on road infrastructure managers and time delays for road operators through new technology
- A clear understanding of the future network: **end-to-end journey** from large- scale exports and imports to last mile deliveries to businesses and homes
- Securing industrial land to support efficient freight, including intermodals allowing large, high productive vehicles in, and smaller vehicles out, for last mile deliveries to local houses and businesses.



Questions



OFFICIAL



Developments from other states





Agenda

- 1. Welcome
- 2. Smart OBM roll-out
- 3. Latest developments from around the country
- 4. TCA-led initiatives and priority projects
- 5. Open forum for discussion
- 6. Local Government perspectives (ALGA)
- 7. Other business



TCA-led initiatives and priority projects

- ✓ Heavy and small electric vehicles
- ✓ Voluntary data
- ✓ Port performance
- ✓ New data types





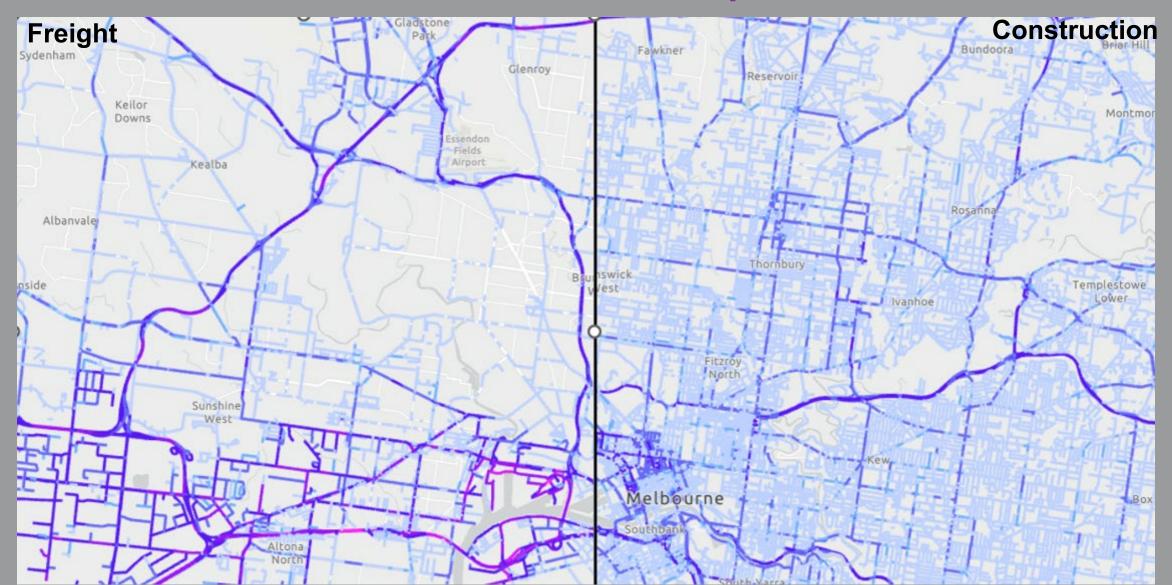
Heavy and small electric vehicles

PRO

Voluntary data studies

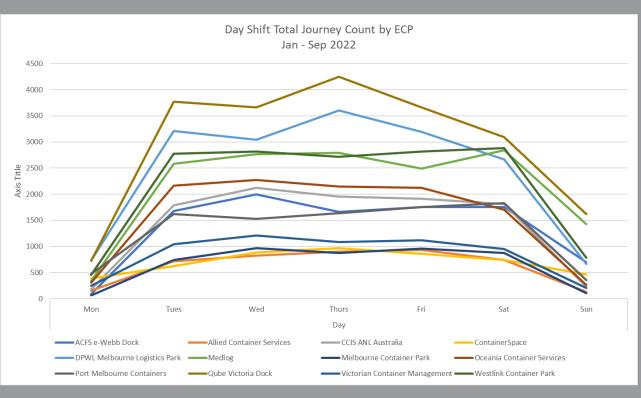
Melbourne: A tale of two transport sectors

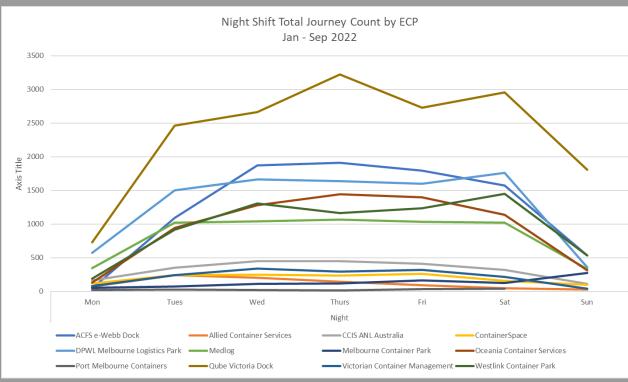


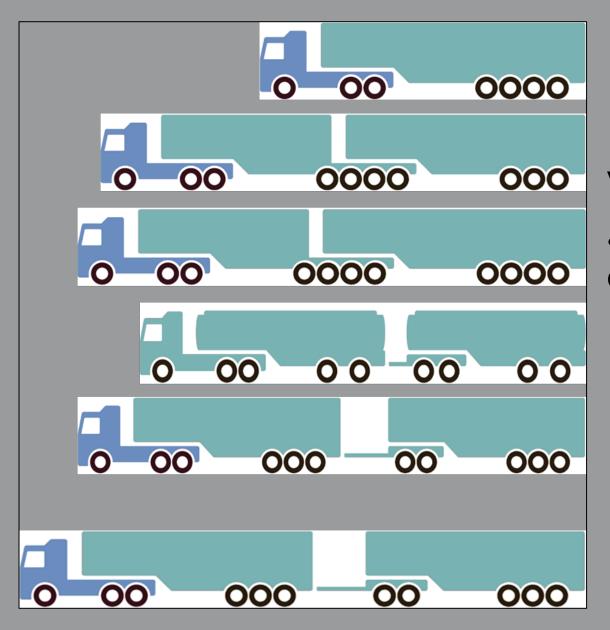




Port performance









New data types and vehicle configuration

- How to best determine the specific configuration of a vehicle at any point?
- Electronic Braking Systems (EBS) data
- Battery powered devices
- Trailer telematics
- Smart OBM
- PBS databases
- Other data sources



Agenda

- 1. Welcome
- 2. Smart OBM roll-out
- 3. Latest developments from around the country
- 4. TCA-led initiatives and priority projects
- 5. Open forum for discussion
- 6. Local Government perspectives (ALGA)
- 7. Other business

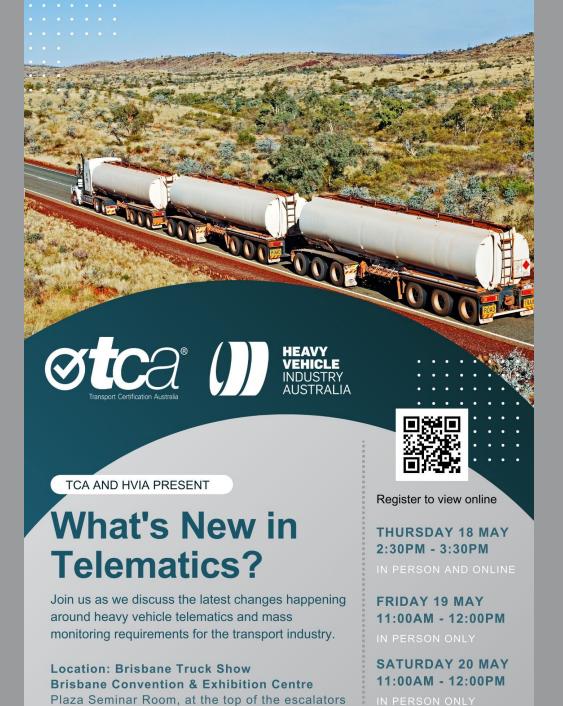


Working with the transport industry

How can we better address the needs of the transport sector?

Anything we should cover in our 'What's new in Telematics?' sessions?









Agenda

- 1. Welcome
- 2. Smart OBM roll-out
- 3. Latest developments from around the country
- 4. TCA-led initiatives and priority projects
- 5. Open forum for discussion
- 6. Local Government perspectives (ALGA)
- 7. Other business



Sanjiv Sathiah

Director Transport & Infrastructure Policy

Telematics and Access





Current State of Access



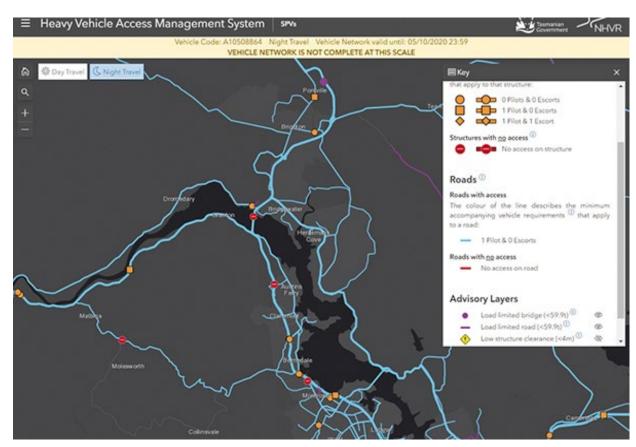
- NTC Permit Access Data shows 96% of permits are approved and processed within 7 days.
- Access decisions must be according to the principles outlined under the HVNL:
 - Will not pose a risk to infrastructure
 - Will not post a risk to road safety
 - Will not unduly impact residential amenity



Access Needs to Improve

 Automation will deliver instant access to routes.

- HVAMS has shown the way forward.
- Difficult, costly, will take time, but it must be done.





Telematics as a Condition of Access

- Telematics will provide road managers with visibility of network utilisation.
- Facilitate a paradigm shift from scheduled maintenance to predictive maintenance.
- Will provide evidence for government so that we can move from grant-based funding to needs-based funding.



Collaboration is Key

• We want to work closely with industry as was the case in Tasmania.

- We have a lot in common
 - we all want to see better funding for roads
 - we all want to improve access
 - we will all benefit from better access







Sanjiv Sathiah

Telematics and Access







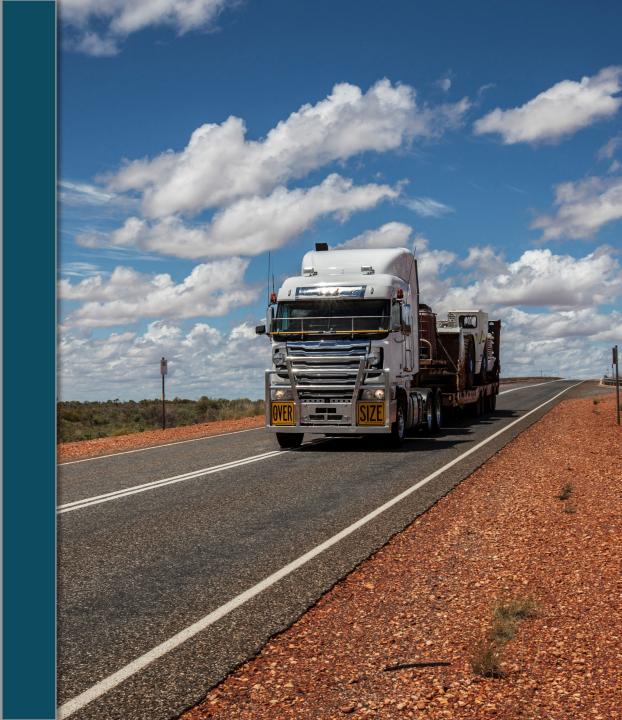








Questions and Comments from the floor





Telematics Industry Group Meeting

Thanks for attending

Enjoy the show!

