

# **NSW's Transition to Smart On-Board Mass** for PBS Mass Monitoring

31 August 2023





## Today's moderators

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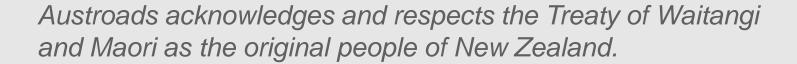
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We acknowledge the Australian Aboriginal and Torres Strait Islander peoples as the first inhabitants of the nation and the traditional custodians of the lands where we live, learn and work. We pay our respects to Elders past, present and emerging for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







### **About Austroads & TCA**

#### Austroads is the collective of Australasian transport and traffic agencies

- Transport for NSW
- · Department of Transport and Planning Victoria
- Department of Transport and Main Roads Queensland
- Main Roads Western Australia
- Department for Infrastructure and Transport South Australia
- · Department of State Growth Tasmania
- Department of Infrastructure, Planning and Logistics Northern Territory
- Transport Canberra and City Services Directorate Australian Capital Territory
- Department of Infrastructure, Transport, Regional Development, Communications and the Arts
- Australian Local Government Association
- Waka Kotahi NZ Transport Agency

Transport Certification Australia (TCA) is a national organisation that provides assurance services relating to transport technologies and data to enable improved public purpose outcomes from road transport.

Key aspects of TCA include:

- An independent not-for-profit entity, with government oversight
- Administration of the National Telematics Framework, including its rules, specifications, agreements, digital infrastructure and other supporting services
- Assurance services that support but are appropriately separated from regulators, policy makers and enforcement activities, and underpin telematics applications and associated information and data services
- Advice that is based on evidence and a deep subject matter knowledge
- Trusted partner to both government and industry stakeholders, enabling a
  nationally consistent open market, with services covering all road vehicle types
  and associated digital infrastructure.





## Housekeeping



Presentation = 40 mins

Question time = 15 mins



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## Today's presenters and agenda

Topic	Presenter
Using the National Telematics Framework to improve road outcomes	
Outlining the differences between IAP and TMA Introducing Smart OBM	Gavin Hill
NSW's Transition to Smart On-Board Mass for PBS Mass Monitoring	Brett Graham
Q&A	Both presenters



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## Using the National Telematics Framework to improve road outcomes

Gavin Hill

General Manager | Strategy and Delivery TCA





## Harnessing the power of telematics

A significant number of commercial vehicles have some form of telematics ...

...resulting in unprecedented volumes of data being generated **every single day** on our road networks



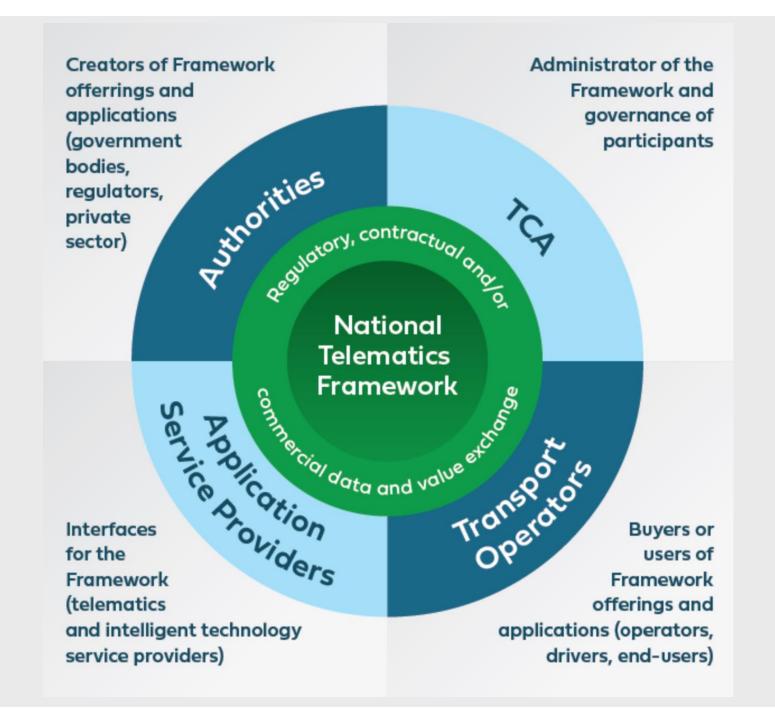
## Harnessing the power of telematics

...but telematics data is not readily available to governments, road agencies and regulators

This is known as the problem of 'dark data'

The National Telematics Framework overcomes this problem



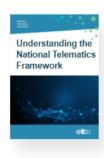


























## **National Telematics Framework**

- Multiple providers
- Multiple applications
- Multiple schemes
- enabled through:
- Standards and specifications
- Business rules
- Legal agreements
- Operational oversight
- Privacy management
- Cyber security

= Consumer choice

Consumer protections and assurance

Unlocksstandardiseddata collectionand reporting



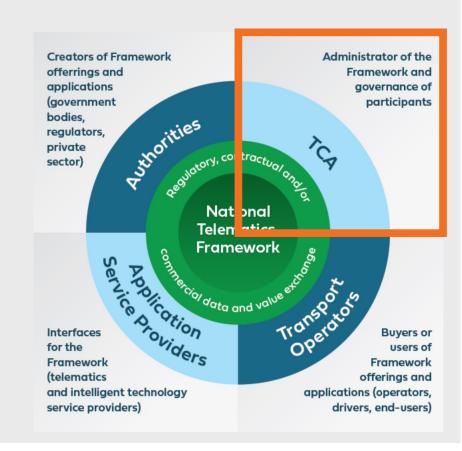


### **National Telematics Framework**

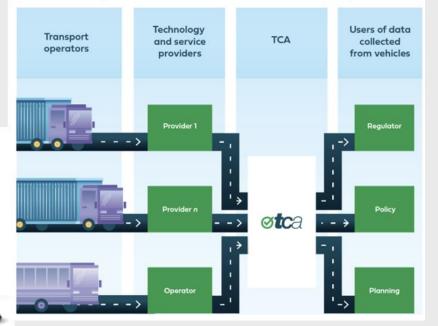
- Recognised as an international standard by the International Standards Organization (ISO)
- ISO 15638: Framework for cooperative telematics applications for regulated commercial freight vehicles (TARV)

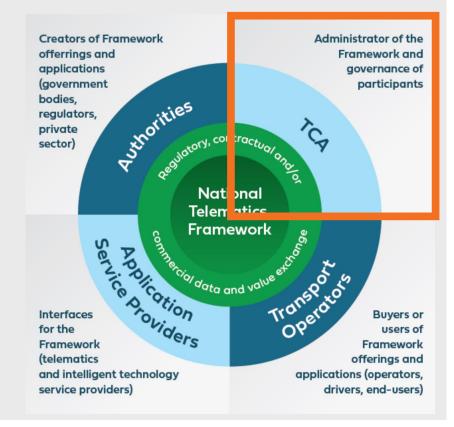


- We develop performance-based functional and technical specifications
- We register and certify Application Service Providers (depending on level of assurance)
- We type-approve hardware
- We manage the interactions of all parties in the Framework

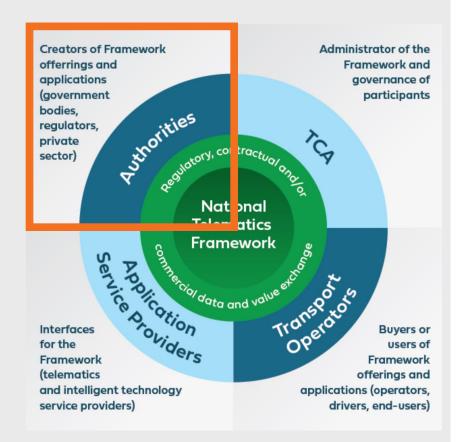




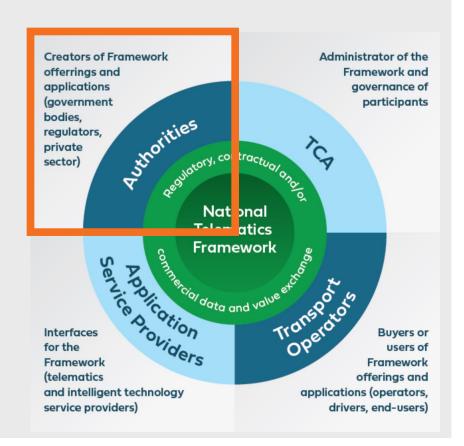








- Road agencies deploy productivity and safety schemes through the National Telematics Framework
- The Framework offers different tools for different jobs
- What we'll hear from Victoria shortly is how they're moving from IAP to TMA – so that they're using the right tool for the job



# Outlining the differences between IAP and TMA Introducing Smart OBM

Gavin Hill

General Manager | Strategy and Delivery TCA





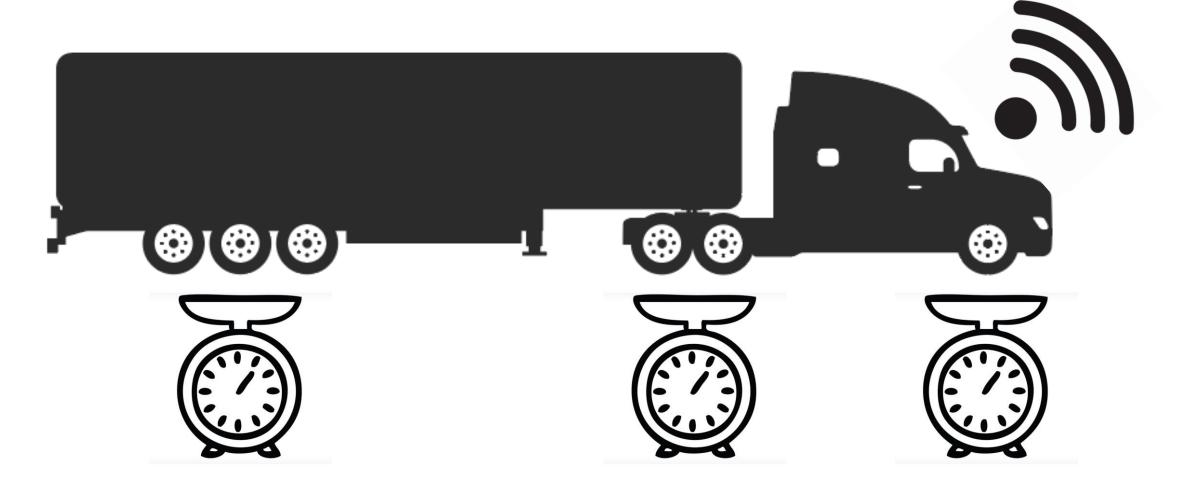
## Key differences between IAP and TMA

	Road Infrastructure Management (RIM)	Telematics Monitoring Application (TMA)	Intelligent Access Program (IAP)
Aggregated, de-identified data	<b>✓</b>	<b>✓</b>	×
Identifiable vehicle data	×	<b>✓</b>	
Evidentiary data for enforcement	×	×	<b>✓</b>
Cost (to transport operators)	-		
Serving suggestions	Use for road use analysis/planning	Use for lower-risk activities (education & regulatory improvement activities)	Use for higher-risk activities (direct compliance & enforcement)





## **Smart OBM**



### **Smart OBM**

Smart OBM systems are devices that use digital technology to collect and transmit mass data from vehicles in a reliable and standardised way

Different technologies can be used to deliver Smart OBM

Road agencies require Smart OBM for specific uses

All Smart OBM systems are type-approved by TCA

## OBM may be referred to as:

- On-board scales
- On-board weighing
- Air pressure sensors
- Electronic Braking System (EBS)





### **Smart OBM**







VEHICLE SOLUTIONS

















Note: Please refer to individual jurisdictional guidelines when checking requirements for your specific vehicle and scheme enrolment.

## NSW's Transition to Smart On-Board Mass for PBS Mass Monitoring

**Brett Graham** 

Senior Manager for Road Access Transport for NSW





### 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.



#### **≜** Safe

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



#### Sustainable

Freight transport that delivers net zero emissions by 2050



#### **Productive**

Optimised connected, end to end networks





## Vehicles that require Smart OBM in NSW

- In NSW Smart OBM is applied as a condition of access where there is the opportunity to provide expanded access across infrastructure
- Several Performance Based Standards (PBS) vehicles are and have been operating in NSW with Interim and Smart OBM systems.





### What are the benefits?

- Greater network access and heavy vehicle productivity
- Matching vehicle design and infrastructure
- Improved asset assurance for infrastructure managers





# 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





## What next?

- TfNSW is transitioning from Interim OBM to Smart OBM
- From 1 June 2024 all OBM systems will need to meet Smart OBM requirements
- From 1 June 2024 Smart OBM operators must be enrolled in a relevant TMA mass monitoring scheme
- Smart OBM enrolments are open in NSW



## **Questions?**



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#### **Upcoming webinars**

Topic	Date
Australian 3G Network Shutdown	4 September
A National Approach to Measuring Non-Fatal Crash Outcomes: Stage 2	12 September
Guide to Road Safety Update – Practical Approaches for Managing Regional Road Safety Priorities	13 September
National Telematics Framework: Setting a Benchmark for Intelligent Access	20 September
Australia and New Zealand Roads Capability Analysis 2022-2032	22 September
2023 National Walking and Cycling Participation Survey	3 October
Update to the Guide to Road Design – Detailed Review of Supplements	5 October
Physical Infrastructure to Support Connected and Automated Vehicles	18 October
Austroads Vehicle Classification Scheme – Heavy Vehicles	25 October
Austroads Vehicle Classification Scheme – Light Vehicles	2 November
Austroads Vehicle Classification Scheme – Measuring Active Transport	9 November

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#### Thank you for participating!

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