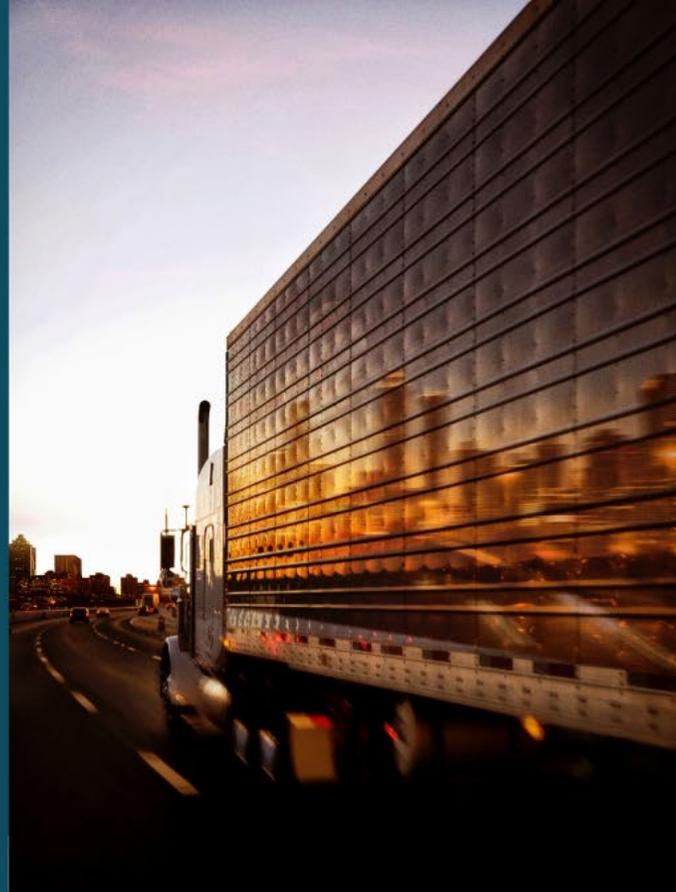


# Telematics Industry Group Forum

5 June 2024





# Today's Agenda

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## Setting the scene

Transport Certification Australia

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## Telematics updates from across the country

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## National heavy vehicle regulatory reforms

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## Industry insight

How telematics data is helping industries

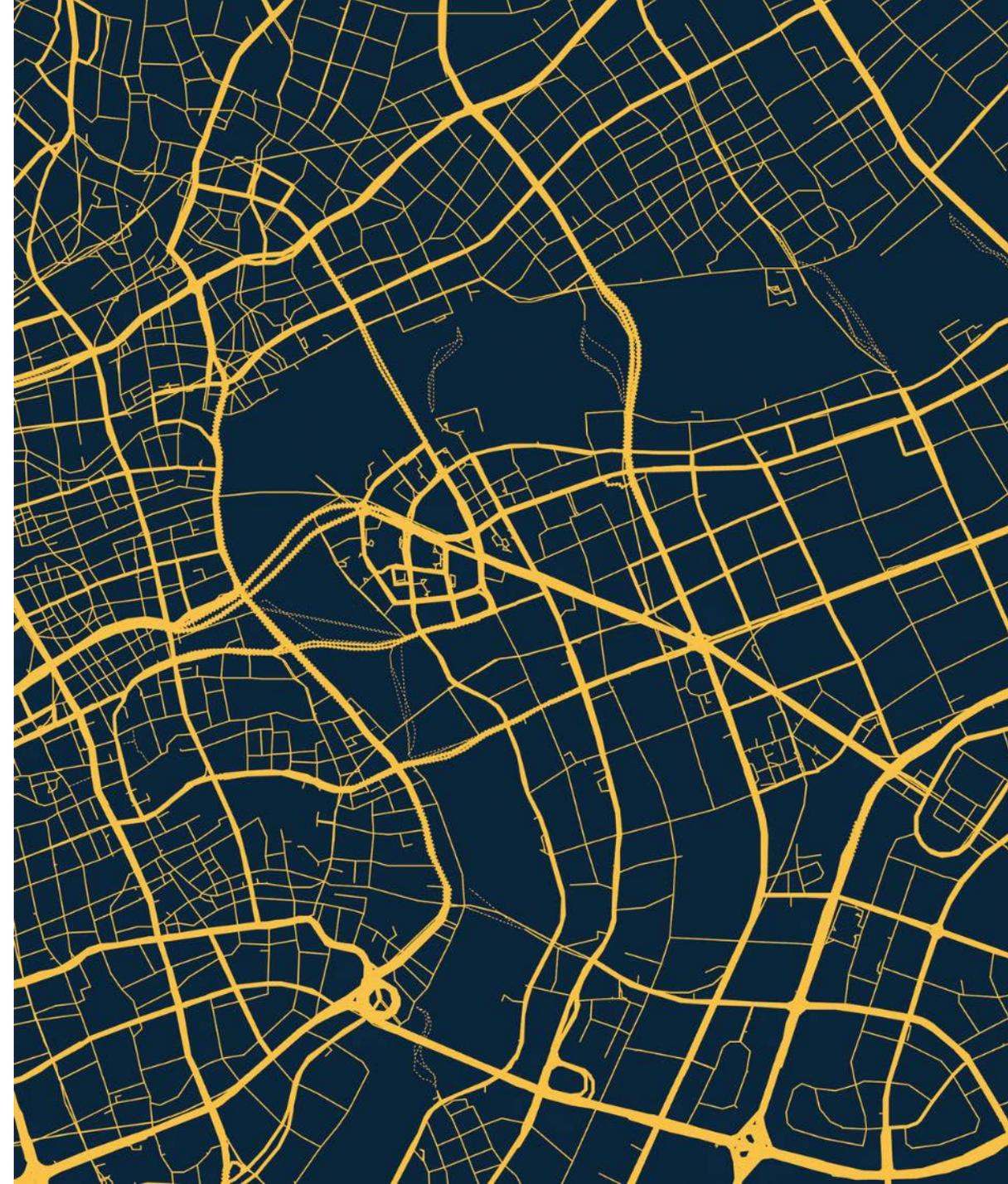
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## Spotlight

A glimpse into the TCA and Austroads project pipeline

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## Questions and comments from participants





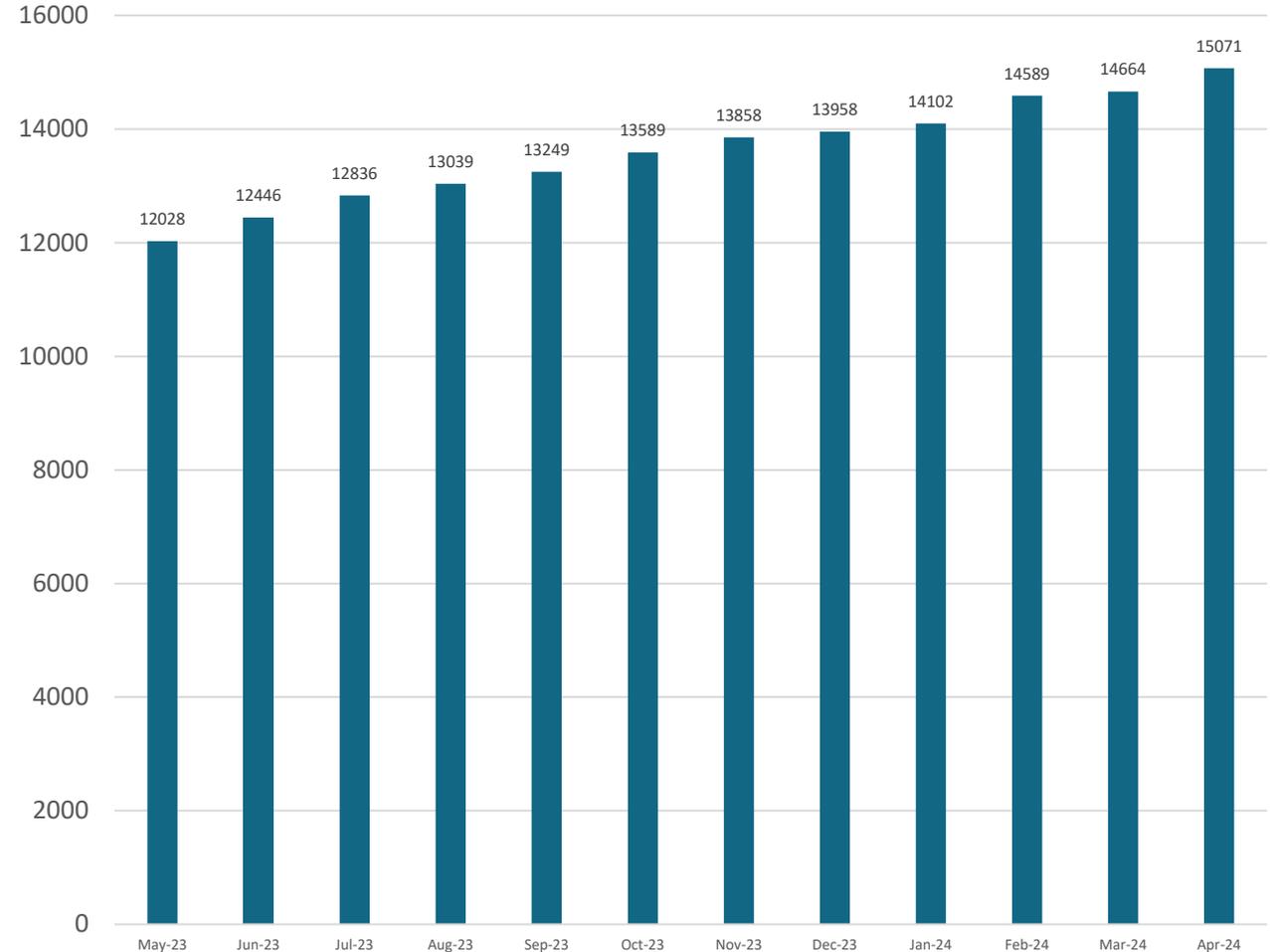
# Telematics for road reform

- Australia continues to lead the world in the use of telematics for road reform.
- The [National Telematics Framework](#) provides a standardised and harmonised way to collect data from vehicles.
- Analytics available through the [Telematics Analytics Platform \(TAP\)](#) are helping Australia's road managers balance complex, sometimes competing challenges.



# Growing adoption of telematics

- TCA currently receives telematics positional data from **over 15,000** heavy vehicles.
- We collect **over 200 million** data records per month from approved service providers and visualise them through TAP.



Number of vehicles enrolled in IAP, TMA or RIM schemes and sharing position records with TCA.



**tca** | Certified

Providing services for:  
IAP, TMA, RIM



**tca** | Certified

Providing services for:  
TMA, RIM



**tca** | Registered

Providing services for:  
RIM



Providing services for:  
RIM (for their own fleet)



 | Type-Approved™  
Smart OBM System (Category B)

Providing devices suitable for schemes requiring Smart OBM, in conjunction with certified service providers



INTEGRATED  
VEHICLE  
SOLUTIONS



**FLEET WEIGH**  
ON BOARD MASS



 | Type-Approved™  
Smart OBM System (Category B)

Providing Smart OBM devices for their own fleet



Vehicle types covered by telematics schemes



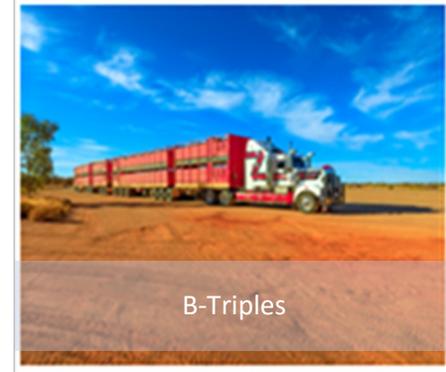
A-Doubles



B-Doubles



AB-Triples



B-Triples



PBS-approved Vehicles



Road Trains



Semi-Trailers



Special Purpose Vehicle



PBS Truck & Dog Trailers



Vehicles operating at higher mass limits (HMLs)



Low or Zero Emission Heavy Vehicles



Dangerous goods and construction vehicles

# Updates from around the country

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- TMA + Smart OBM
- Eligible low or zero emission heavy vehicles (LZEHV)
- In operation

- TMA + Smart OBM
- Eligible zero emission heavy vehicles (ZEHV)
- In operation

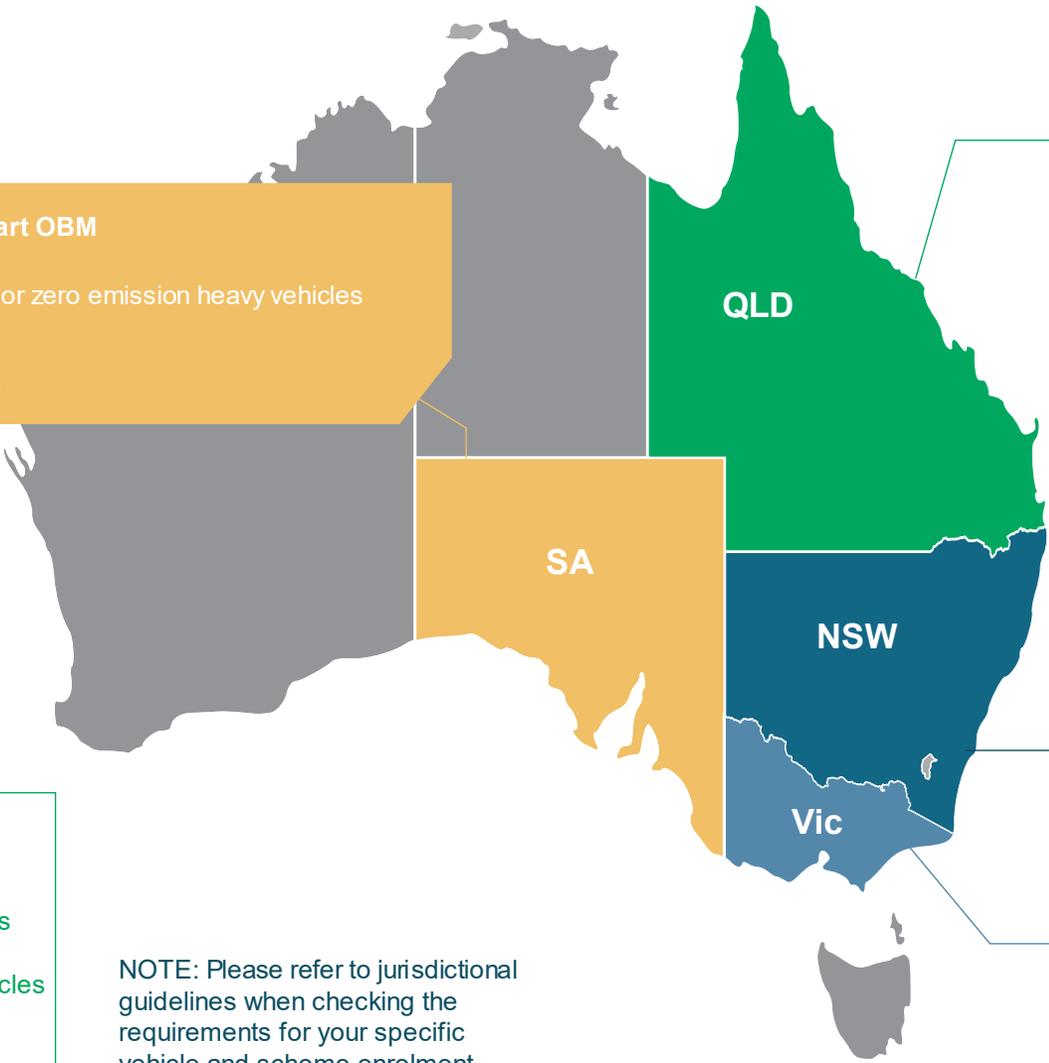
- As applicable: RIM, TMA or TMA + Smart OBM
- Eligible zero emission heavy vehicles (ZEHV)
- Scheme enrolment pending publication of Notice.

- TMA + Smart OBM
- Eligible Class 3 low or zero emission heavy vehicles (LZEHV)
- In operation

**KEY**

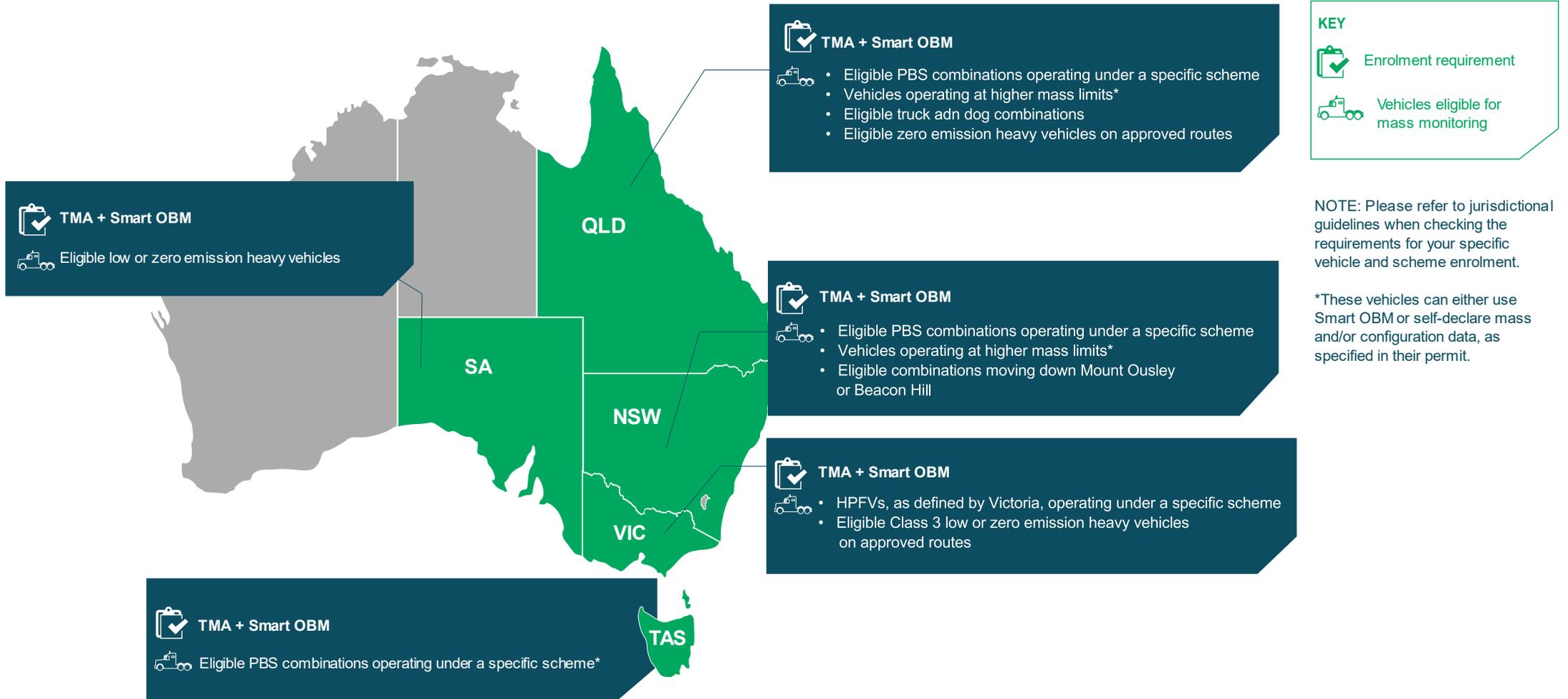
- Enrolment requirements
- Eligible vehicles
- Timing

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



**Jurisdictions monitoring low or zero emission vehicles using telematics data – June 2024**





## Jurisdictions with Smart OBM requirements and eligible vehicles – June 2024

# National heavy vehicle regulatory reforms

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# National Transport Commission reviewing the Heavy Vehicle National Law (HVNL)

- Consultation Regulatory Impact Statement released in October 2023, and submissions closed in November 2023.
- NTC has been developing the Decision Impact Analysis.
- Decision Impact Assessment to be considered in tranches by transport chief executives and industry consultation group during May/early June.
- Decision Impact Assessment to be submitted to Ministers in late June.
- Key issues covered in the draft Decision Impact Assessment include:
  - Fatigue management
  - Reducing administrative burden for heavy vehicles seeking road network access
  - Increasing confidence in the National Heavy Vehicle Accreditation Scheme (NHVAS)
  - High priority elements of the HVNL penalties review

# National Transport Commission reviewing the Heavy Vehicle National Law (HVNL)

- There are a range of recommended reforms which are operational in nature, and therefore do not require a regulatory impact assessment.
- Matters out of scope at this time (potentially in later tranches):
  - Regulatory application of a technology and data framework
  - Work to transition NHVAS to a Safety Management System (SMS) based system
  - Detailed HVNL penalties review
- Already completed
  - Increasing the allowed width of vehicles from 2.5 to 2.55m (NTC has already completed work on this)
- Draft Exposure HVNL Amendment Bill is in preparation for consultation and feedback in parallel with the Impact Assessment.

# The National Heavy Vehicle Intelligent Access Program Compliance Framework

- The National Heavy Vehicle Intelligent Access Program Compliance Framework is in development and the National Heavy Vehicle Regulator is aiming for release and consultation in the next few months.
- TCA and the NHVR working to provide clear guidance and information about how telematics data can, and would be used for regulatory purposes, including compliance, enforcement, research and road planning.



# Industry Insight

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How telematics data is helping the industry



## Industry-Led Data-Sharing Schemes

**Goal:** Enabling nation-wide visualisation of de-identified vehicle movement data for industry sectors, to support evidence-based discussions between key stakeholders.

**Project coordinator:**

Claire Caldwell

[ClaireC@tca.gov.au](mailto:ClaireC@tca.gov.au)



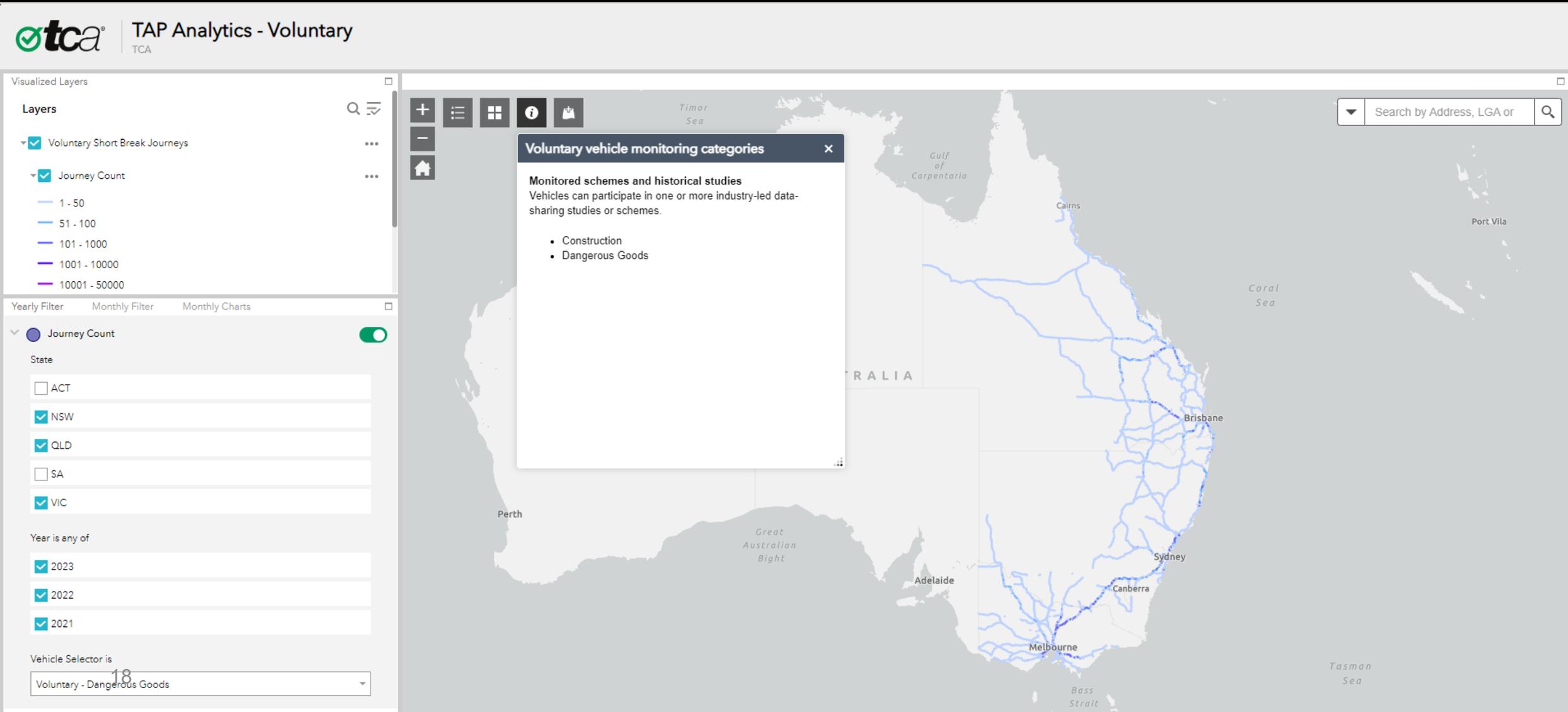


## Industry-Led Data-Sharing Schemes

- Proof-of-concept run in collaboration with the National Bulk Tanker Association (NBTA) and Cement Concrete and Aggregates Association (CCAA) members proved to generate valuable insights.
- RIM schemes for Dangerous Goods and Construction sectors activated in May 2024, making it the first national-level RIM scheme designed by industry, for industry.
- TCA invites more industries to reach out and get involved.



# How it comes together



# How it comes together

Visualized Layers

- 1 - 50
- 51 - 100
- 101 - 1000
- 1001 - 10000
- 10001 - 50000
- 50001 - 100000
- > 100000

Road Segment Statistics - Monthly

Yearly Filter   Monthly Filter   Monthly Charts

Journey Count

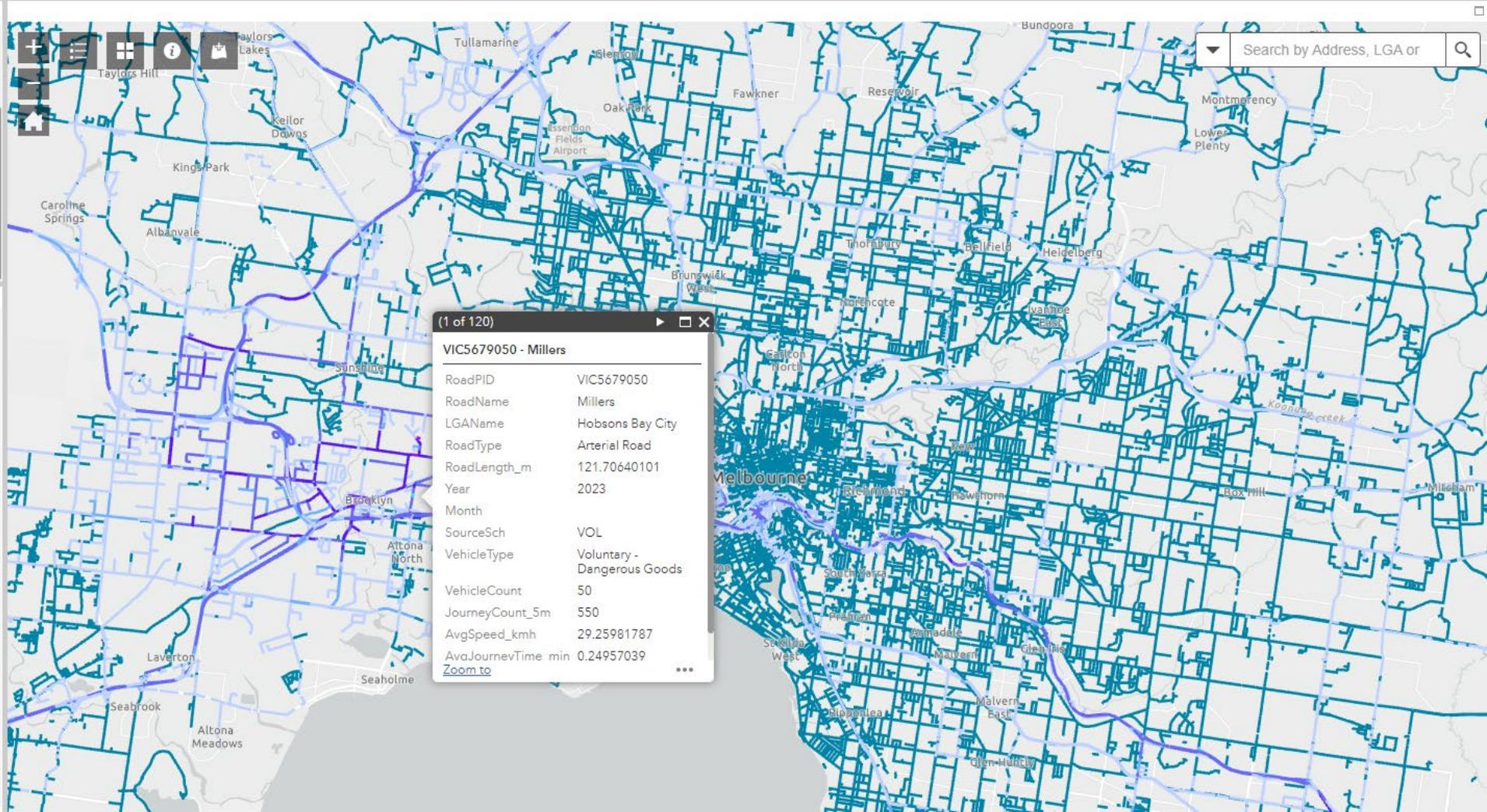
State

- ACT
- NSW
- QLD
- SA
- VIC

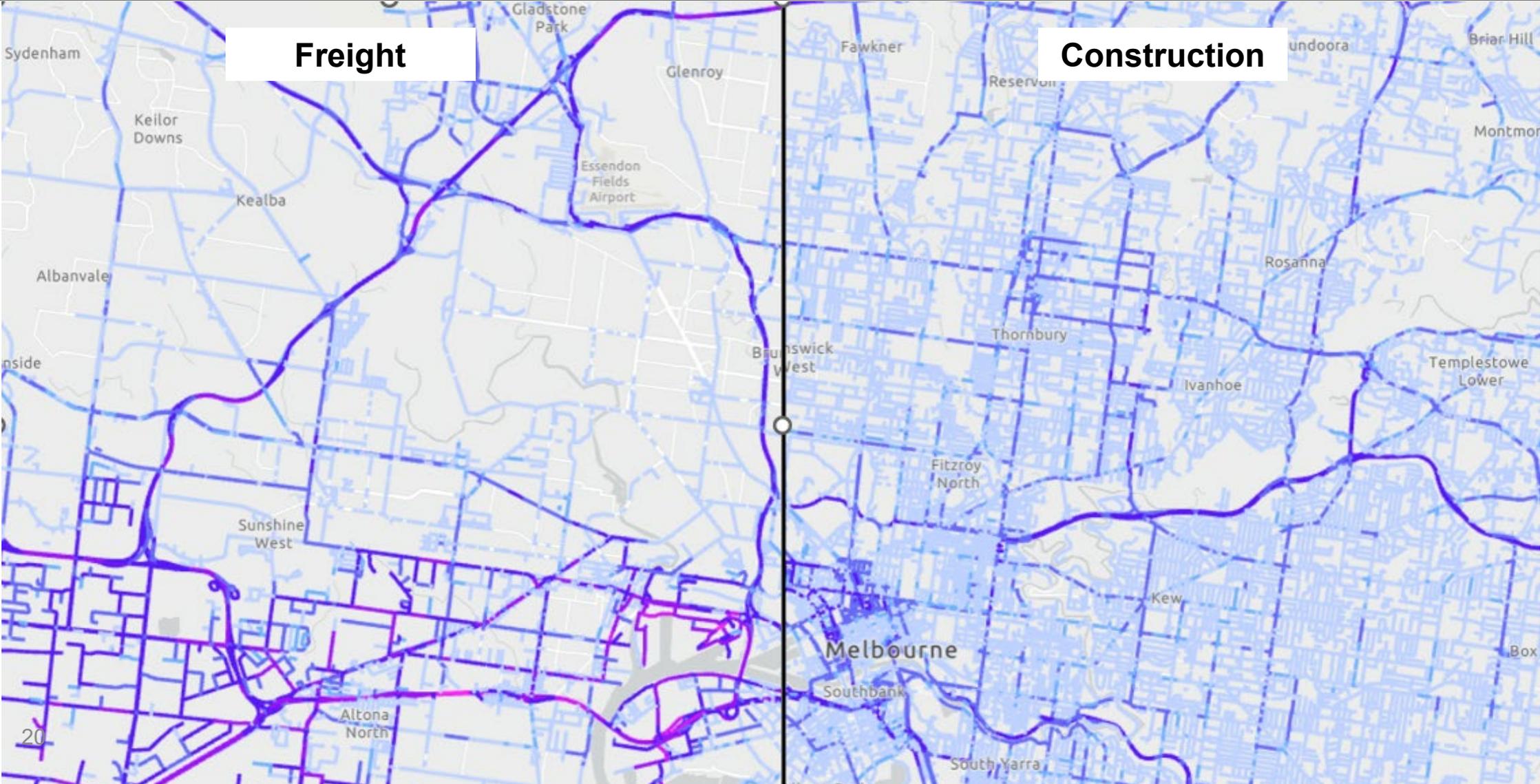
Year is any of

- 2023
- 2022
- 2021

Vehicle Selector is **19**  
Voluntary - Dangerous Goods



# Melbourne: A tale of two transport sectors

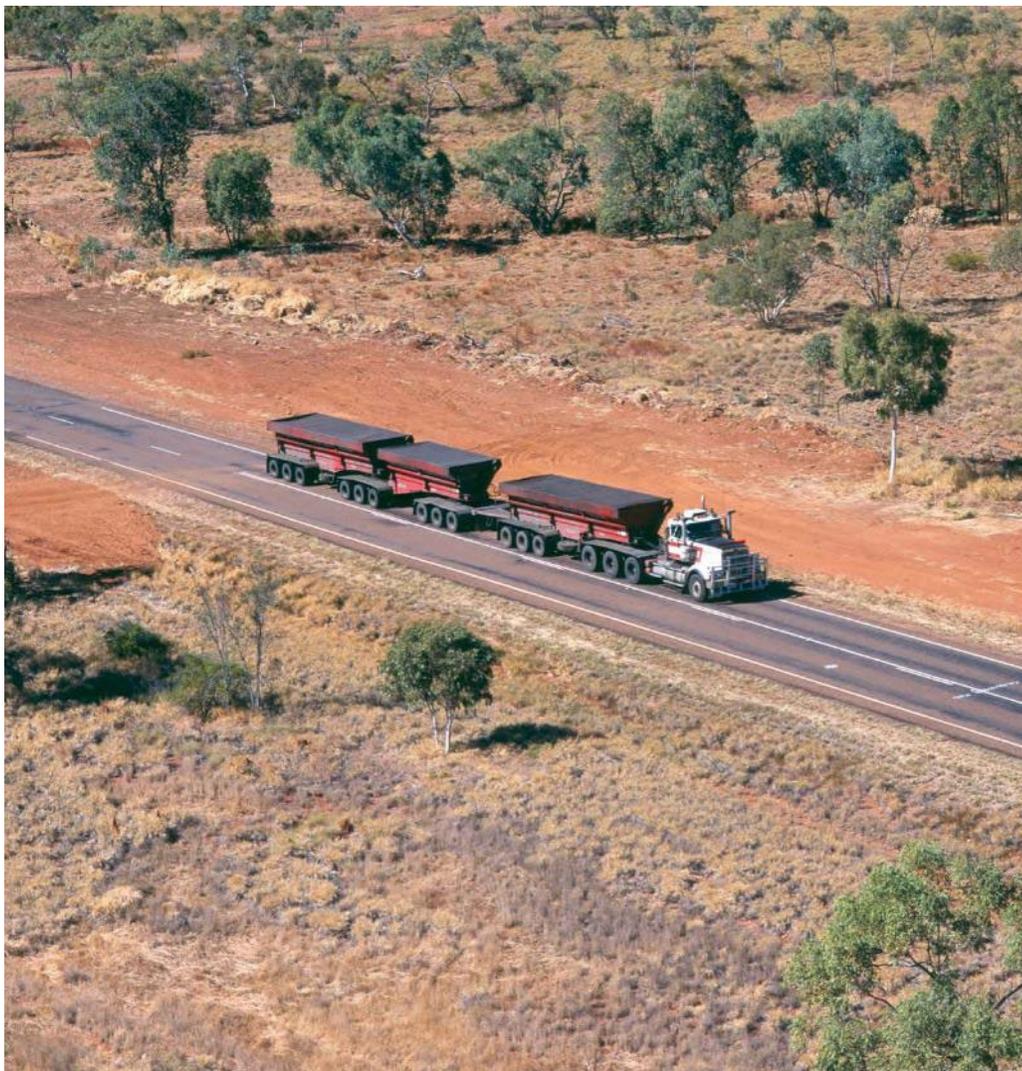




# Spotlight

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A glimpse into the TCA and  
Austroads project pipeline



## Vehicle-generated data and trailer configuration

**Goal:** To expand the types of data collected from vehicles and to combine telematics data with other data sources.

**Project coordinators:**

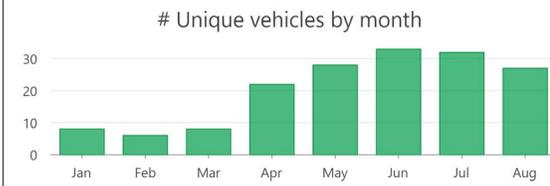
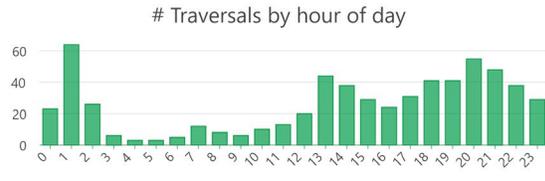
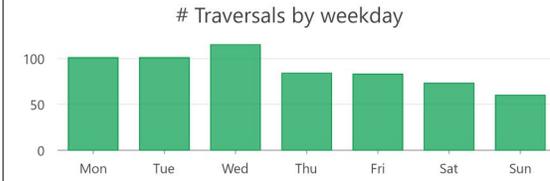
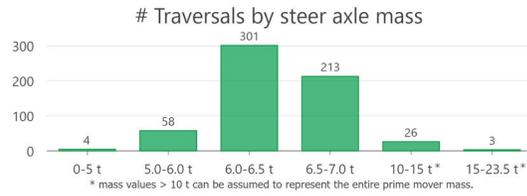
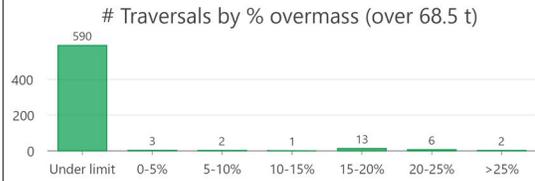
John Gordon

E: [JohnG@tca.gov.au](mailto:JohnG@tca.gov.au)

Claire Caldwell

E: [ClaireC@tca.gov.au](mailto:ClaireC@tca.gov.au)





# Telematics Analytics Platform enhancements

Improved structural reporting using structure 'hotspot' reports generated based on TAP data.

Introduction of the **High Productivity Freight Routes Dashboard** provides TAP users and researchers with a national view of de-identified and aggregated heavy vehicle movement data available with TCA.

Non-TAP users who are interested in this dashboard for research purposes can email: [Support@tca.gov.au](mailto:Support@tca.gov.au)





## Development of the Telematics Positional Accuracy Assurance (TPAA) service

**Goal:** To enable TCA-certified service providers to benefit from streamlined product or class rulings by the Australian Taxation Office for matters related to the use of their products for fuel tax credits.

**Project coordinator:**

Janelle Shotton

E: [JanelleS@tca.gov.au](mailto:JanelleS@tca.gov.au)





## Heavy vehicle rest area facilities guidance

### Goal:

- To review and update the *Austrroads Guidelines for the Provision of Heavy Vehicle Rest Area Facilities*.
- To improve the availability of data on rest area utilisation (from the National Telematics Framework and other sources).

### Program manager:

Amy Naulls

E: [ANaulls@austrroads.com.au](mailto:ANaulls@austrroads.com.au)





## Accessibility guidelines for LZEV charging infrastructure

**Goal:** To support industry and governments in the transition to Low and Zero Emission Vehicles by developing guidelines for charging infrastructure that ensure the EV charging experience is a positive one for all users, including people with disabilities and older people.

**Program manager:**

Joanne Vanselow

E: [JVanselow@austrroads.com.au](mailto:JVanselow@austrroads.com.au)





## Guidelines for implementing EV charging in remote and rural areas

**Goal:** To provide guidance on implementing EV infrastructure in rural and regional areas including addressing key challenges such as limited power and communication coverage, off-grid areas, charging for vehicles with trailers and security concerns.

**Program manager:**

Joanne Vanselow

E: [JVanselow@austroads.com.au](mailto:JVanselow@austroads.com.au)





## Guidance for Developing Standardised Transport Data Exchange for Australia and New Zealand

**Goal:** To document a development path and guidance for road authorities to grow an agency's Data Provision Capability from 'Day 0.5' to 'Day 1'. Concentrating on cloud provided services harmonised with the European National Access Point platform.

**Program manager:**

Joanne Vanselow

E: [JVanselow@ustroads.com.au](mailto:JVanselow@ustroads.com.au)





## Preparing for the closure of the 3G network

**3G networks in Australia will close by 1 September 2024.**

Transport operators are ultimately accountable for ensuring that their vehicles operate in compliance with the relevant regulatory requirements.



A list of 4G compliant TCA-approved telematics devices is available on the [TCA website](#).



# Questions and comments

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# Thank you

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We look forward at seeing  
you in person at  
**MEGATRANS**