



Australian 3G Network Shutdown

4 September 2023



Today's moderators

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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.

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



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



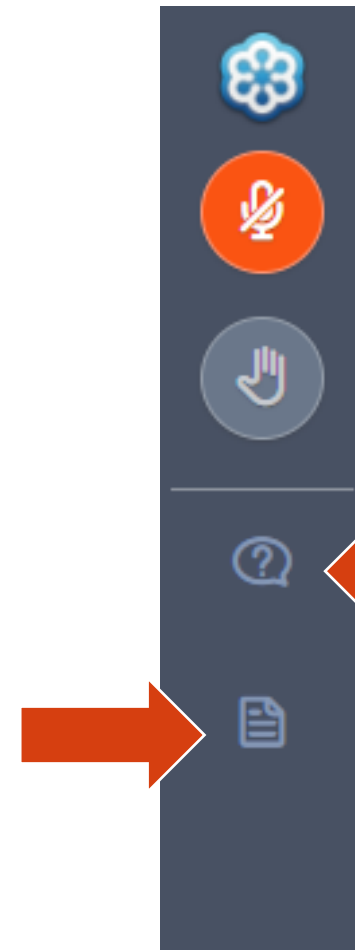
Presentation = 40 mins

Question time = 15 mins



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Type questions here
Let us know the slide number your question relates to



Today's agenda

Topic	Presenter
Telstra	David McIntosh
Optus	Michael Reynolds
Followmont Transport	Mark Joselin
Isaac Regional Council statement	Ekaterina Kologrivova on behalf of the council
Heavy Vehicle Industry Australia	Adam Ritzinger
Transport Certification Australia	John Gordon
Q+A	All presenters with Channa Seneviratne



Telstra 3G Shutdown

Channa Seneviratne

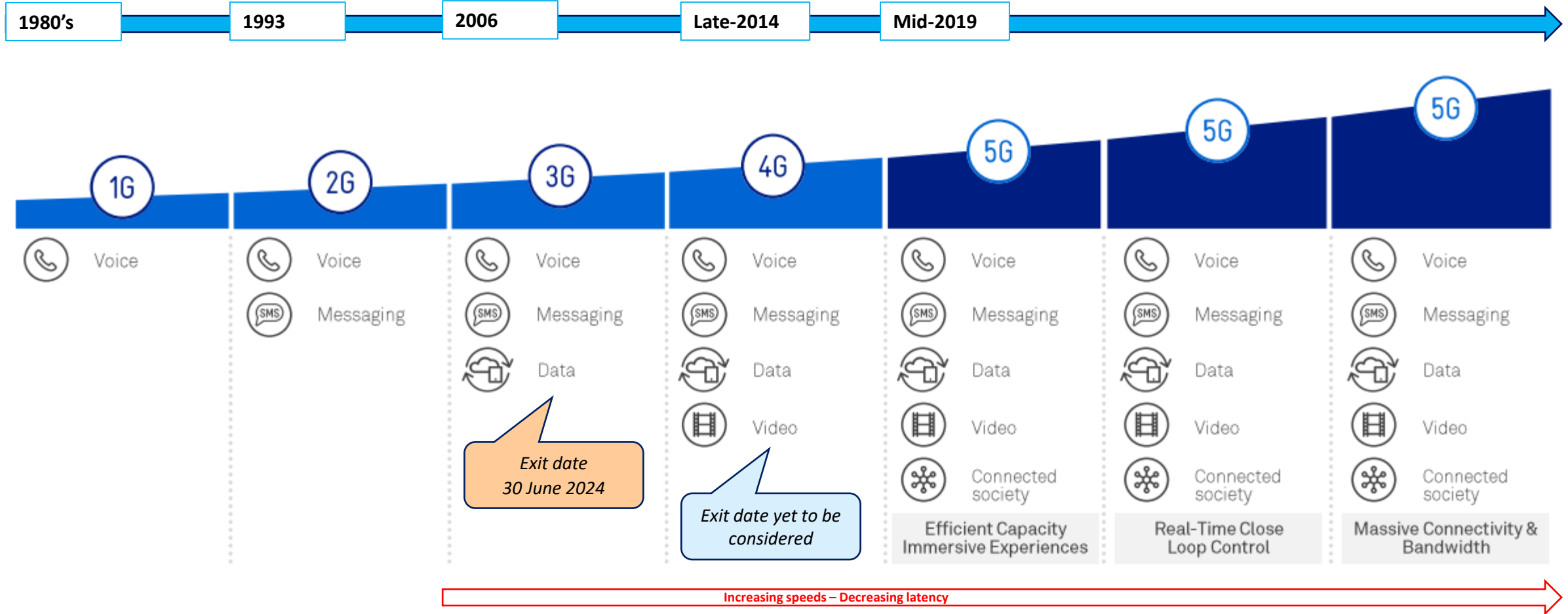
Telstra Technology Development Innovation Executive – Global Networks & Technology

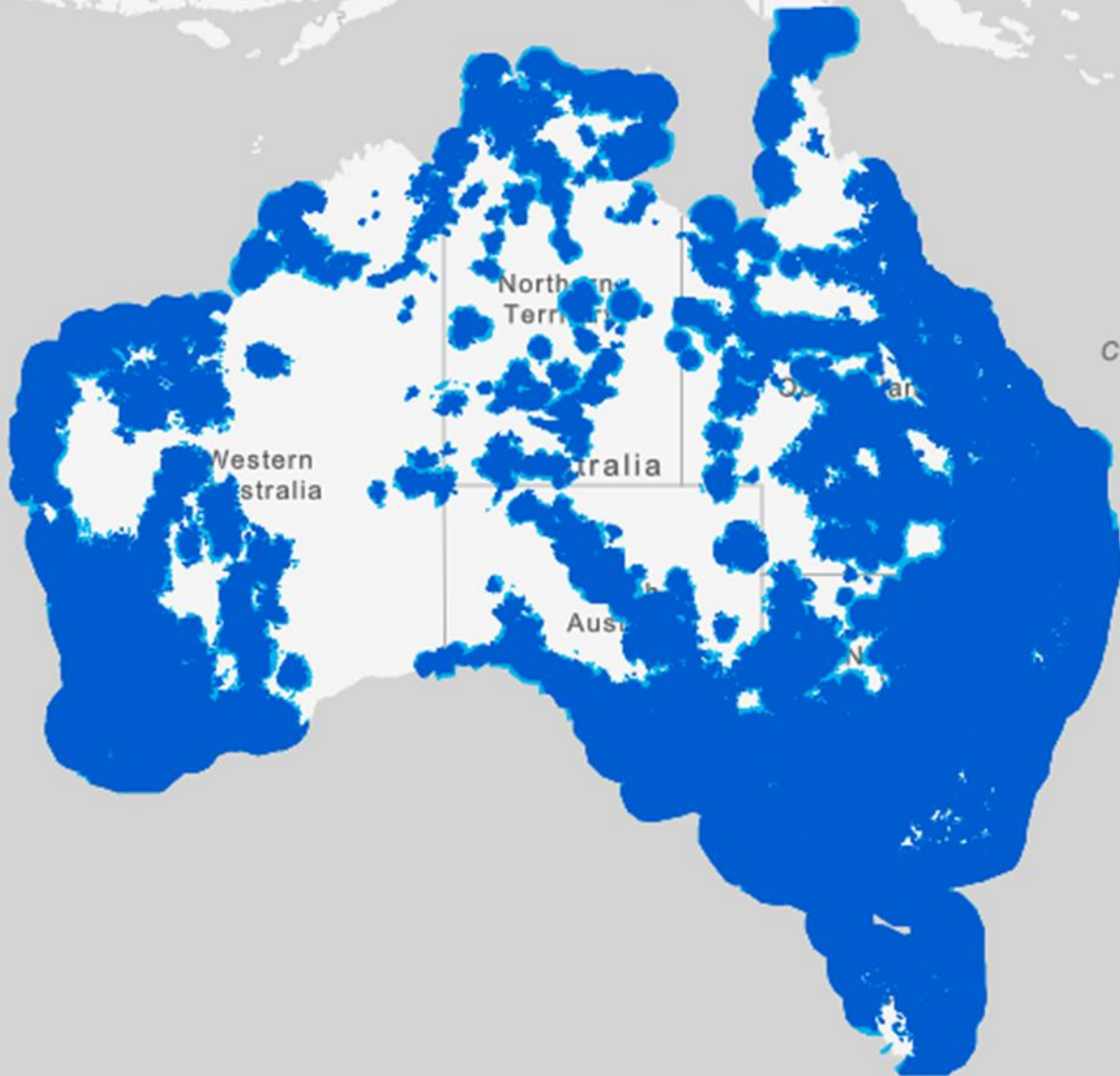
David McIntosh

National Telematics Domain Lead



Each evolution in Mobile technology enhances performance and ability to service increasing data demand





IoT Network

LTE-M and NB-IoT (Cellular LPWANs) have the benefits of mobile technologies, but with new advantages over high bandwidth options:



Massive scale

A network built to support millions of devices



Extended coverage

Built to reach into buildings and sub-surface areas



Extended battery life

Low power operation for compatible IoT devices



Future assured

Coexists with 5G, a long-term priority for Telstra

Demand for IoT is likely to expand into the future as new uses cases emerge

What does this mean and what steps should be considered?



1. IDENTIFY

Reach out to your current provider and request a telematics audit to identify how many if any assets are impacted.

Does my current provider meet our current and future needs??



2. CONSIDER OPTIONS

Evaluate not only your current requirements but future.

- Regulatory compliance needs and certifications
- Boots on the ground/dedicated support, install network and general scale
- Integration capability/Push and pull API's
- Security and data storage
- Multiple hardware options to suit different asset types
- Expandability
 - Video with AI
 - Paperless forms
 - in cab screens
 - FTC and FBT Reporting
 - Engine data/IOX

3. IMPLEMENTATION

Before committing to your existing or new provider make sure to get commitment of stock.

Don't leave it too late.

Ensure you commit to a rollout schedule and don't leave it to chance.



Optus 3G Shutdown

Michael Reynolds

Head of Network Products | Programs and Services



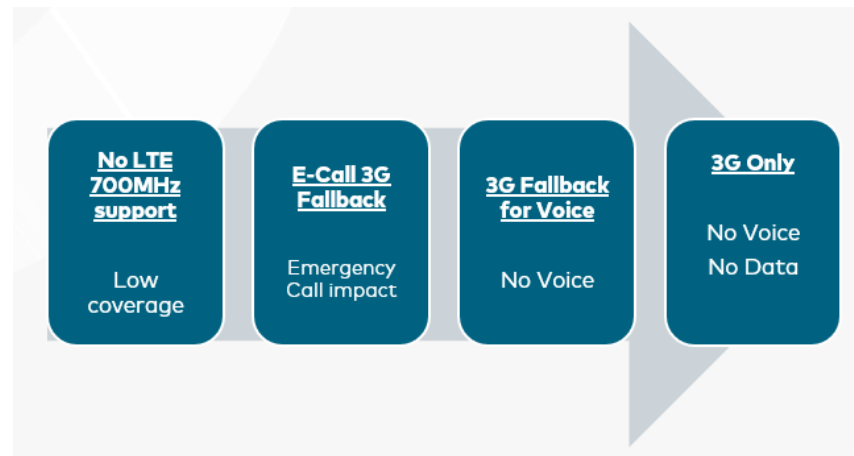
Optus 3G refresh

- From September 2024, Optus will be repurposing our 900MHz spectrum nationally to boost the capacity, speed, and reliability of our 4G network and rollout 5G to even more Australians.
- This 900MHz refresh follows our 2100MHz refresh that was completed in 2022.
- Once we commence re-farm of our 900MHz spectrum from September 2024, 3G services will no longer be available on the Optus network.
- Optus will continue to have either 4G or 5G network coverage in areas impacted by the 3G 900MHz refresh.
- We notified all impacted Enterprise customers in January 2023, advising them of the change and working with them for any required support.
 - Data is refreshed for impacted customers monthly to help track their migration
 - Optus partners are available to assist customers with audit of their fleets where required
 - We will tailor our assistance on a case-by-case basis as each customer requirements and constraints are different



What does this mean for Optus customers?

- Devices that are reliant on the 3G network for voice, SMS and/or for data will be impacted.
 - Varying degree of possible impact depending on the device capability.
 - Of the total devices that are potentially impacted, c.17% are M2M/IOT devices.
- Depending on the hardware brand, we estimate that anywhere from 10% - 75% of legacy hardware is reliant on 3G.
- Optus customers to transition to a 4G / 5G capable device that
 - supports 4G VoLTE (if the device is used for voice calls) including VoLTE Emergency Calling capability
 - And is compatible with 4G 700 MHz (B28) spectrum



Transport Operator

Mark Joselin

Compliance Manager



Telematics 3G to 4G upgrade

Who is Followmont Transport?

- Followmont Transport is Queensland's largest family-owned transport company established in 1984.
- We specialise in time-sensitive freight, servicing all of Queensland and New South Wales through our vast network of company own depots and agents. We also have an ever-increasing refrigerated transport servicing Mareeba to Melbourne and Atherton to Adelaide.
- We travel more than 100,000 km per day moving over 3,000 tonnes.
- Our fleet consists of 170 prime movers and 415 trailers. To support this, we also have 233 units that make up our PUD fleet.

4g telematics upgrade

- Our journey started back in late 2022. We could see a need to jump on this sooner rather than later. This was due to the size of the project we were about to undertake.
- We operate MTData in our Linehaul prime movers and trailers. Our prime movers are also fitted with Guardian Seeing Machines requiring the 4g upgrade. We have 153 vehicles fitted with MTData and 146 fitted with Seeing machines.
- MTData is a crucial part of what we do at Followmont. This isn't just a simple tracking system but also allows us to monitor speed, driving hours and with various integrations with other service providers, jobs can be sent to drivers to name a few things it can do.



Telematics 3G to 4G upgrade

Cost

- To complete the 4G upgrade, we cost the project at \$600,000. This is for the hardware only and does not include installation.
- We brought the hardware outright and early. We could see a need to get this stock earlier for a few reasons.
 1. Availability. If everyone jumped in at the same time, hardware would be limited.
 2. We could then work with our installs on a plan to roll this upgrade out and not be hindered by point 1 (availability).

Issues

- It no secret that telematics installers are hard to come by within the industry. This is probably the main reason we jumped on this so early. We are approximate 4 months into our roll out and are just over halfway through our project.
- Due to our coverage and vehicle locations, anything outside of Brisbane, Sydney and Newcastle, we were going to struggle for technicians. We could find MTData or Seeing Machine Techs but installs who could cover both platforms was changing. Taking a vehicle off the road twice wasn't going to be ideal. I'm glad to say we now have a good network of technicians that can cover both devices.



Isaac Regional Council Statement



Isaac Regional Council Statement

Isaac Regional Council has always been a proactive Council and future proofed their Fleet tracking by moving from 3G over to 4G, and we did this early to ensure that there would be no risk of stock available, and, or the possible impact of having to pull our fleet of the road at the last minute to accommodate the necessary changes. This sudden halt of operations can lead to lost revenue, increased downtime.

In addition to these operational concerns, businesses also need to be mindful of meeting the chain of responsibility requirements. This includes ensuring that all aspects of their operations comply with regulations and safety standards.

Implementing necessary changes on time demonstrates a commitment to being responsible and proactive Council in managing their fleet, thereby reducing the risk of penalties and legal issues.

The migration went smoothly, and we have noticed a better experience with the GO9 4G devices offering a better processor and more memory.

Migrating to 4G GO9, we believe that it has improved our asset reliability and ability to monitor better Safety habits for our Fleet users.



Heavy Vehicle Industry Australia

Adam Ritzinger

Chief Technical Officer



Heavy Vehicle Industry Australia

- Representing and advancing the interests of manufacturers and suppliers of heavy vehicles, components, and equipment
- HVIA's members:
 - almost every major truck manufacturer/importer
 - most of Australia's major trailer manufacturers
 - an ever-growing list of their suppliers and distributors.



Adam Ritzinger
Chief Technical Officer



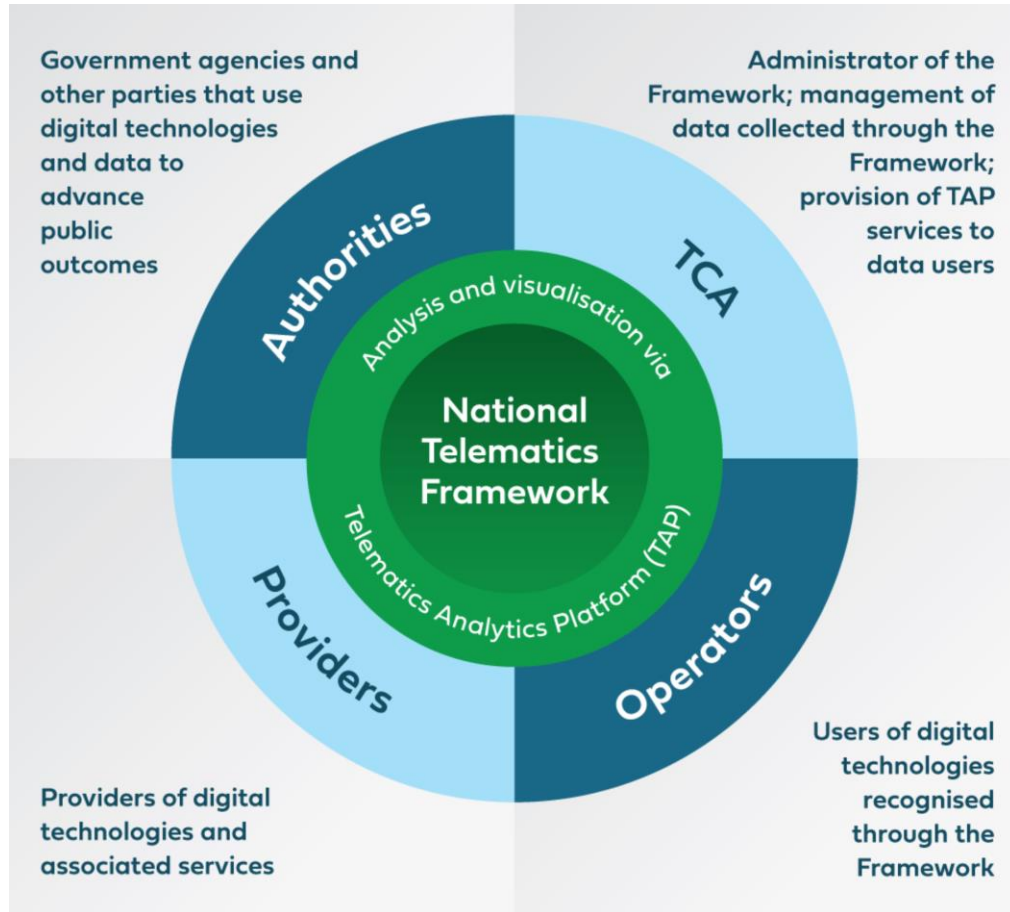
Transport Certification Australia (TCA)

John Gordon

Manager | Strategic Development



TCA's role



Do you have a 3G device on your vehicle?

Check out TCA's type-approved telematics devices here:

<https://tca.gov.au/hardware/type-approved-telematics-devices/>



 | Certified ™

 | Certified ™



Questions?

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Australian 3G Shutdown

	Vodafone	Telstra	Optus
Shutdown date	15 December 2023	June 2024	September 2024
More information	vodafone.com.au/support/network/3g-closure?accordion-id=when-is-the-3g-network-closing-down	telstra.com.au/business-enterprise/support/3g-service-closure	optus.com.au/3g



Upcoming webinars

Topic	Date
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
Austrroads Vehicle Classification Scheme – Heavy Vehicles	25 October
Austrroads Vehicle Classification Scheme – Light Vehicles	2 November
Austrroads Vehicle Classification Scheme – Measuring Active Transport	9 November

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