

Automated Vehicle Program Approach

National Transport Commission

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1 Introduction

Key points

- Australia is developing an end-to-end regulatory system to support the safe, commercial deployment of automated vehicles at all levels of automation.
- The National Transport Commission is working with other government agencies to deliver this framework.

1.1 Purpose

The purpose of this document is to outline the current National Transport Commission (NTC) automated vehicle reform program, including:

- the program's purpose
- work completed to date
- further planned reforms
- possible future reforms and interaction with other agencies.

This document will be updated as work progresses.

1.2 Why do we need reform?

Australia's laws do not currently support the deployment of automated vehicles. Our laws are designed for vehicles with human drivers. A review in 2016 found over 700 barriers in current legislation – state, territory and Commonwealth laws – to the deployment of automated vehicles. Automated vehicles are expected to deliver safety, productivity and environmental benefits. Without reforms, Australians will not be able to gain these benefits.

In an automated vehicle, control of the vehicle will transfer from a human driver to a system and the entity responsible for the system. The law needs to recognise this change and have appropriate obligations to support safety and innovation.

1.3 About the NTC

The NTC leads national land transport reform in support of Australian governments to improve safety, productivity, environmental outcomes and regulatory efficiency. We are a key contributor to the national reform agenda with accountability to the Transport and Infrastructure Council and its advisory body, the Transport and Infrastructure Senior Officials' Committee. One of our focus areas is identifying and removing regulatory barriers to new, innovative transport services and products entering the Australian marketplace.

For more information, see: <https://www.ntc.gov.au/about-ntc/who-we-are-and-what-we-do>

1.4 Australia's goal: an end-to-end framework for automated vehicles

In November 2017, transport ministers endorsed the goal of an end-to-end regulatory system to support the safe, commercial deployment of automated vehicles at all levels of automation.

The NTC continues to work towards this goal, however the timing of its delivery will change as we work through the regulatory issues and understand more about likely timelines for commercial deployment of these vehicles.

1.5 A coordinated approach across government

Our work complements other research and project activities undertaken by Austroads, road agencies and other organisations (see Figure 1). These include Austroads' projects related to assessing the safety benefits of automated vehicles, any impacts of automated vehicle regulation on registration and licencing processes and any impacts of automated vehicles on network infrastructure. Austroads is the peak organisation of Australasian road transport and traffic agencies.

The Austroads' website has more information about their projects:

<https://austroads.com.au/drivers-and-vehicles/connected-and-automated-vehicles>.

We also work closely with the Commonwealth Office of Future Transport Technology, which is part of the Department of Infrastructure, Transport, Regional Development and Communications.

We coordinate a government Senior Advisory Group and a Legislative Policy Working Group with representatives of the Commonwealth government, state and territory governments and other key agencies.

Figure 1. Automated vehicle decision making and priority setting

<p>Transport and Infrastructure Council</p> <ul style="list-style-type: none"> • Makes decisions on national reforms to improve the efficiency and productivity of Australia’s infrastructure and transport systems • Sets national reform priorities. Current priorities include removing barriers to innovation and capitalising on new and emerging technologies
<p>Transport and Infrastructure Senior Officials’ Committee</p> <p>Advises and assists the Transport and Infrastructure Council on all non-infrastructure priorities</p>

Australian government automated vehicle roles and responsibilities

Department of Infrastructure, Transport, Regional Development and Communications	National Transport Commission	State and territory transport and road agencies	Austroads
<p>Office of Future Transport Technology</p> <ul style="list-style-type: none"> ▪ Coordination across portfolios ▪ Land transport technology policy framework and action plan 	<p>Develop and propose national law reform to enable the commercial deployment of automated vehicles.</p> <p>Current automated vehicle reforms:</p> <ul style="list-style-type: none"> ▪ In-service safety for automated vehicles ▪ Government access to vehicle generated data ▪ Motor accident injury insurance and automated vehicles ▪ Review of automated vehicle trial guidelines 	<p>Responsibilities include:</p> <ul style="list-style-type: none"> ▪ In-service vehicle regulation ▪ Vehicle registration ▪ Road rules and driver licensing ▪ Road management ▪ Approval/regulation of automated vehicle trials 	<p>Conducts research to inform policy development and guidance on the design, construction and management of the road network and its infrastructure.</p> <p>Current automated vehicle projects:</p> <ul style="list-style-type: none"> ▪ Road authority data for connected and automated vehicles ▪ Interaction of automated steering systems and road infrastructure ▪ Integrating advanced driver assistance systems in driver education
<p>Vehicle Safety Standards Branch</p> <ul style="list-style-type: none"> ▪ Importation and first supply of automated vehicles ▪ Review of Australian Design Rules ▪ International standards harmonisation 			

1.6 The challenges of automated vehicle reform

There are several challenges in developing reforms to support automated vehicles. These include the challenge of dealing with existing regulatory and government structures that are designed for human driven vehicles, not for automation. The most significant challenges are due to the unknowns about vehicle automation, which include uncertainties around:

- The timing of deployment
- Applications that will be deployed
- The mix of technologies that automated vehicles will use
- How automated vehicles will change vehicle ownership and business models

Reforms will need to provide flexibility to allow for the technology to continue to evolve.

Across our automated vehicle program, the NTC has aimed to ensure that:

- Reforms are outcomes based, with safety as the key outcome, allowing industry to determine how best to achieve those outcomes
- Reforms are neutral as to the technologies, applications and business-models that industry develop
- Reforms are nationally consistent and internationally aligned.

1.7 International alignment

The Transport and Infrastructure Council [noted](#) the 'importance of not getting ahead of international developments'. Other countries are at different stages of developing regulations for automated vehicles. No jurisdiction has a complete system of regulation as yet.

The Commonwealth Department of Infrastructure, Transport, Regional Development and Communications represents Australia at the United Nations (UN) World Forum for the harmonization of vehicle regulations (WP.29). It participates in the development of UN vehicle standards through WP.29. Australia harmonises its national vehicle standards with UN vehicle regulations. WP.29 has prioritised development of comprehensive vehicle standards for level 3 automation.

We monitor international regulatory developments by the UN Global Forum for Road Traffic Safety (WP.1) which focuses on driver regulations. The Department of Infrastructure, Transport, Regional Development and Communications represents Australia at WP.1.

Driver regulations developed by WP.1 are complementary to the vehicle standards developed by WP.29.

We also monitor legislative reform in other key automotive markets, such as the United States and Europe.

1.8 Background – what are automated vehicles?

Automated vehicles are vehicles that include an automated driving system (ADS) that is capable of monitoring the driving environment and controlling the dynamic driving task (steering, acceleration and braking) with limited or no human input.

This could include:

- vehicles based on existing models, with automated functions
- new vehicle types with automated functions

- aftermarket devices or software upgrades that add automated driving functions to existing vehicles.

New vehicles with high levels of automation are expected to arrive on our roads from around 2021-23. These vehicles will increasingly take control of the driving task away from human drivers in certain circumstances and environments. Automated vehicles promise major safety and community benefits and offer the possibility of fundamentally changing transport and mobility. However, the supply and use of automated vehicles also raises new risks.

Levels of automation

Vehicles may operate at different levels of automation, with different expectations for a human driver. This has implications for policy, safety, regulation and infrastructure. The NTC use the levels of automation set out in Society of Automotive Engineers (SAE) International Standard J3016, *Taxonomy and definitions for terms related to driving automation systems for on-road motor vehicles*. These SAE levels are currently being used to develop regulatory responses to automated vehicles in the United States and the European Union. A simplified version of these levels of automation is set out in the diagram below.

Levels of vehicle automation						
	Level 0	Level 1	Level 2	Level 3	Level 4	Level 5
Vehicle's role	Nothing	Accelerates and brakes OR steers e.g. cruise control	Accelerates and brakes AND steers e.g. automated reverse parking	Everything, only under certain conditions e.g. specific locations, speed, weather, time of day	Everything, only under certain conditions e.g. specific locations, speed, weather, time of day	Everything
Human driver's role	Everything	Everything but with some assistance	Remains in control, monitors and reacts to the driving environment	Must be capable of regaining control on request when vehicle is driving	Nothing when vehicle is driving, but everything at other times	Nothing

Note: while the vehicle's role in level 3 and level 4 is the same, the key difference is that a level 4 vehicle must be able to bring itself to a safe stop (or minimal risk condition) if it encounters a problem that it cannot deal with. In this scenario a level 3 vehicle would request the human fall-back user to take back control.

Key terms

Automated driving system (ADS) means the hardware and software collectively capable of performing the entire dynamic driving task on a sustained basis. It is a type of driving automation system used in vehicles with SAE levels 3, 4 or 5 of automation.

Automated driving system entity (ADSE) means the self-selected party that will certify that the ADS can safely perform the driving task in place of a human driver. The ADSE will self-select at first supply when applying to the Commonwealth government for type approval of the ADS.

Automated vehicle means a vehicle with conditional to full automation (SAE levels 3-5). It is a vehicle that has an automated driving system which means that it is capable of performing the entire dynamic driving task on a sustained basis without human input. It is distinct from vehicles with automated features to assist a driver (SAE levels 1-2) which still require a human driver to perform part of the dynamic driving task.

Conditional automation (SAE level 3) means the ADS undertakes the entire dynamic driving task for sustained periods in defined circumstances. The human driver does not have to monitor the driving environment or the ADS but must be receptive to ADS requests to intervene and any system failures. Conditional automation is also referred to as level 3 automation.

Dynamic driving task means all the operational and tactical functions required to operate a vehicle in on-road traffic. This includes steering, acceleration and deceleration, object and event detection and response, manoeuvre planning and enhancing conspicuity through lighting signalling etc. The dynamic driving task excludes strategic functions like trip planning (where and when to travel and route selections).

Fallback-ready user means a human in a vehicle with conditional automation who is able to operate the vehicle and who is receptive to requests from the ADS to intervene and is receptive to evident dynamic driving task performance-relevant system failures. The fallback-ready user is expected to respond by taking control of the vehicle.

Full automation (SAE level 5) means all aspects of the dynamic driving task and monitoring of the driving environment are undertaken by the ADS. The ADS can operate on all roads at all times. No human driver is required. Full automation is also referred to as level 5 automation.

High automation (SAE level 4) means that the ADS undertakes the entire dynamic driving task for sustained periods in some situations, or all the time in defined places. When the system is driving the vehicle, a human driver is not required to monitor the driving environment or the driving task. Nor are they required to intervene, because the ADS can bring the vehicle to a safe stop unassisted. High automation is also referred to as level 4 automation.

In-service safety means the safety of automated vehicles once the vehicles are on the roads or 'in-service'.

2 NTC's automated vehicle reform program

Key points

- Australia's transport ministers have agreed to key elements of reform, including:
 - conduct of trials
 - who is legally in control
 - safety criteria for new automated vehicles and
 - development of a national safety law to regulate their operation in service.
- The NTC is developing reforms on in-service safety, data and motor accident injury insurance.

2.1 What does an end-to-end framework look like?

An end-to-end framework needs to consider all of the areas of regulation relating to vehicles and drivers. This includes regulation of vehicle standards and the Australian Road Rules, but also heavy vehicle regulation, insurance regulation and passenger transport legislation, amongst others. The approach needs to be comprehensive and consistent across all levels of government.

The NTC seeks to achieve national consistency in our approach wherever possible. Australia is currently one market for vehicles and we seek to maintain a single market as we move to vehicles with increased automation.

The end-to-end framework will need to answer several key questions:

- Who is legally in control of a vehicle operating in automated mode?
- What is the role of governments and industry in ensuring the safety of the technology, both at first supply to market and throughout the vehicle's life?
- How will a person injured in a crash with an automated vehicle claim compensation?

2.2 What has been agreed? - Key ministerial decisions

Australia's transport ministers have already agreed the following key policy decisions in relation to automated vehicles:

Safety at first supply	That Australia will incorporate a self-certification approach for ADSs into existing Commonwealth vehicle regulations.
Control	That the automated driving system entity (ADSE) is legally in control of a vehicle when the ADS is operating. That the fallback-ready user remain sufficiently vigilant to respond to ADS requests and failures, and regain control when required.
Driving laws	That Australia will develop a national law to manage the on-road operation of automated vehicles. ¹

¹ Transport ministers agreed that a uniform approach to driving laws for automated vehicles is taken through the development of a purpose-built nationally consistent law.

In-service safety	That Australia's automated vehicle national safety law will establish a national regulator. The law will place a general safety duty on ADSEs and require ADSE executive officers to exercise due diligence. Remote drivers will also be regulated.
Motor accident injury insurance	That existing motor accident injury insurance schemes expand to cover crashes caused by automated vehicles. ²

Each of these are described in detail below.

2.2.1 Safety at first supply

Transport ministers agreed in November 2018 to incorporate a self-certification approach for ADSs into existing Commonwealth legislation for the first supply (or market entry) of road vehicles. Companies seeking to bring ADSs to market in Australia will need to demonstrate evidence against a set of safety criteria. The Commonwealth Department of Infrastructure, Transport, Regional Development and Communications is currently implementing the recommendations.

The applicant must self-certify against these criteria to demonstrate how it will manage safety risks, before their ADS can be supplied in the Australian market:

1. Safe system design and validation processes
2. Operational design domain
3. Human-machine interface
4. Compliance with relevant road traffic laws
5. Interaction with enforcement and other emergency services
6. Minimal risk condition
7. On-road behavioural competency
8. Installation of system upgrades
9. Verifying for the Australian road environment
10. Cybersecurity
11. Education and training.

Transport ministers also agreed three other obligations on ADSEs to manage liability for events such as road traffic law breaches and crashes:

1. Data recording and sharing
2. Corporate presence in Australia
3. Minimum financial requirements

For more information, please see: <https://www.ntc.gov.au/transport-reform/ntc-projects/safety-assurance-system-automated-vehicles>

² Transport ministers agreed to advocate for this position to the ministers responsible for motor accident injury schemes in each jurisdiction.

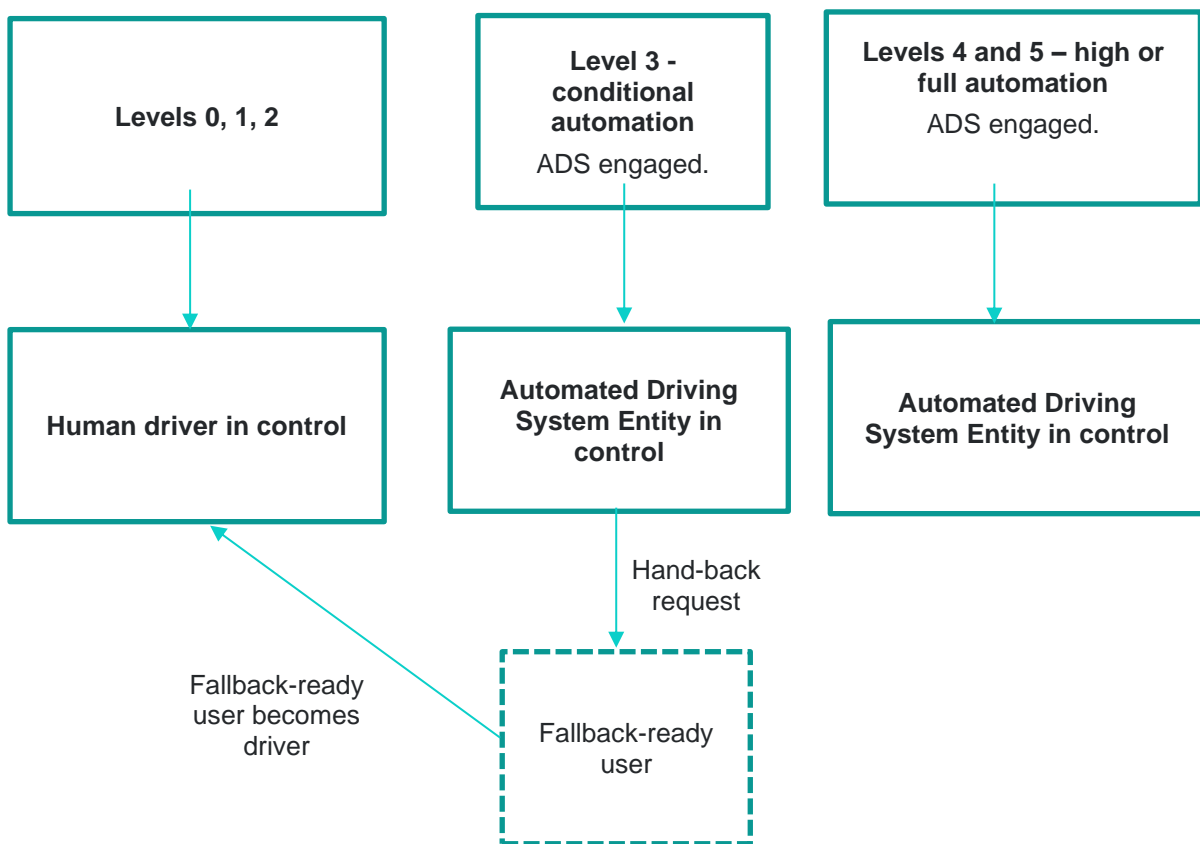
2.2.2 Control of automated vehicles

Automated vehicles involve transferring control of the driving task from a human driver to another entity. It is important that control at each level of automation is clear legally and operationally. A vehicle can have only one driver at a time; either a human driver or an ADS.

Australia's transport ministers have agreed that the ADSE is in control of a vehicle when that vehicle's ADS is operating in automated mode. Figure 2 illustrates how this impacts vehicles operating at different levels of automation.

Figure 2. Who is in control?

At level 3, a fallback-ready user must be prepared to assume control upon request. Once control is handed over the fallback-ready user becomes the driver.



2.2.3 Australia's driving laws

Transport ministers agreed in May 2018 that Australia will develop a purpose-built national law to regulate the on-road operation of automated vehicles. We are working through the detail of this new national law as part of our work on in-service safety of automated vehicles. For more information see: <https://www.ntc.gov.au/transport-reform/ntc-projects/changing-driving-laws-support-AVs>. Laws need to allow automated vehicles into the market (through Australia's current regulation of first supply) but also to allow these vehicles to be legally used on public roads.

2.2.4 In-service safety

Transport ministers agreed in June 2020 that Australia's national automated vehicle safety law will establish a national regulator. The regulator will be responsible for regulating the operation of automated vehicles when they are on the road through a general safety duty on ADSEs, with some prescriptive duties where necessary. ADSE executive officers will be required to exercise due diligence, and remote drivers will be subject to appropriate obligations. These elements will be developed in the national automated vehicle safety law, along with the key elements of 'control' and 'driving laws' reforms detailed at 2.2.2 and 2.2.3.

2.2.5 Motor accident injury insurance

Transport ministers agreed in August 2019 on a national approach that requires existing motor accident injury insurance schemes to provide cover for injuries and deaths that result from automated vehicle crashes.

Transport ministers agreed to advocate for changes to existing motor accident injury insurance schemes to give effect to a national approach. They also agreed to provide recommendations on next steps to the Board of Treasurers for consideration.

Further work on motor accident injury insurance is discussed at 2.3.2.

2.3 Current reforms

The NTC is currently working on three automated vehicle reforms, examining:

- In-service safety: compliance and enforcement for automated vehicles
- Motor accident injury insurance and automated vehicles
- Government access to vehicle generated data.

These are detailed below.

2.3.1 Next steps for in-service safety: compliance and enforcement

The NTC is developing a risk-based compliance and enforcement framework for the in-service safety of automated vehicles. We are scoping issues that need to be addressed to ensure the ongoing safe operation of the ADS throughout the vehicle's lifetime - which could be 15-20 years.

The compliance and enforcement reform brings together key decisions of transport ministers' relating to 'control', 'driving laws' and 'in-service safety' listed above. The reform builds on the [decision regulation impact statement](#) (RIS) in June 2020 which examined:

- the role of different parties in in-service safety of automated vehicles, including ADSEs, manufacturers, repairers, owners and others.
- additional safety duties that should apply to these parties
- the institutional arrangements that could support the compliance and enforcement of duties on parties

The RIS and its cost-benefit analysis concluded that a single national regulator enforcing a general safety duty through Commonwealth law was the preferred legislative approach. We will seek a decision from transport ministers whether the national automated vehicle safety law should take form via Commonwealth law or state and territory applied law in the first half of 2021.

The compliance and enforcement reform will focus on:

- the in-service safety compliance obligations required to achieve safety outcomes
- the compliance and enforcement powers needed to support new in-service safety obligations
- developing an overall compliance and enforcement approach which prioritises safety risk management
- defining the functions and duties of a minimum scalable in-service safety regulator
- defining how an in-service safety regulator will interact with other regulators and enforcement agencies. This includes providing clarity on the role of on road enforcement.

This work will be guided by design principles for managing government access to, and addressing new privacy challenges of, C-ITS and automated vehicle data which are outlined in the NTC's *Regulating government access to C-ITS and automated vehicle data* policy paper.³

We will present recommendations on a holistic in-service regulatory framework to transport ministers in the first half of 2021.

2.3.2 Next steps for motor accident injury insurance

Transport ministers' decision that a national approach should be taken to cover injuries and deaths that result from automated vehicle crashes will require consideration by ministers who have primary responsibility for motor accident injury insurance (MAII) schemes. In most states and territories responsibility rests with Treasurers. The New South Wales' MAII scheme is primarily the responsibility of the Minister for Customer Service. The Victorian MAII scheme is primarily the responsibility of the Minister for Roads and the Transport Accident Commission.

The key elements of a national approach to MAII and automated vehicles have been referred to the Board of Treasurers. The board includes all state and territory treasurers. The board collaborates on issues of common interest and advances national reform priorities from a state and territory perspective. Subject to the views of the board, we have identified the following key tasks to be performed primarily by states and territories, with our support:

- review insurers' mechanisms to recover their claims costs
- create provisions enabling people involved in an automated vehicle crash to access MAII schemes.

The NTC will consider data access for MAII insurers to assess liability as part of our automated vehicle reform program.

2.3.3 Government access to vehicle generated data

We consulted on opportunities for government access to and use of vehicle generated data for network efficiency, infrastructure planning and investment, and road safety purposes.⁴

³ The policy paper is available at: <https://www.ntc.gov.au/transport-reform/ntc-projects/regulating-government-access-c-its-and-av-data>

⁴ In August 2019, transport ministers agreed that 'the NTC should work with the jurisdictions, the Commonwealth and Austroads to analyse future government access and use of Cooperative-Intelligent Transport Systems and automated vehicle data, including for network efficiency, infrastructure investment and road safety'.

We released a [discussion paper](#) for public comment in April 2020 and will present recommendations to transport ministers in November 2020.

2.4 Automated vehicle trials

Automated vehicle trials continue to play an important role in identifying safety, infrastructure and other implementation challenges along with educating and gaining feedback from the public.

Transport ministers agreed in May 2017 that Australia adopt [National Guidelines for Automated Vehicle Trials](#). These guidelines set out the general conditions that an entity seeking to run a trial in Australia would need to meet, including management of trials, insurance, safety management plan, and data and information.

The NTC is [reviewing the trial guidelines](#) to ensure they are keeping pace with technological changes.

State and territories have also reviewed their legislative powers to support trials. South Australia, New South Wales and Victoria have implemented changes to legislation to support trials through either exemptions (SA and NSW) or permits (Victoria).

Austrroads tracks trials taking place in Australia and New Zealand at: <https://austrroads.com.au/drivers-and-vehicles/connected-and-automated-vehicles/trials>.

2.5 Future areas of reform

Potential future areas of reform, either at the state and territory or at the national level, could include:

- Passenger transport legislation
- Heavy vehicle regulation
- Criminal law (e.g. dangerous driving offences)
- Road management legislation
- Roadworthiness requirements for automated vehicles

3 Reform process

Key points

- Our reforms are governed by the Transport and Infrastructure Council and the Transport and Infrastructure Senior Officials Committee, with working groups and advisory groups that guide our work.
- All our reforms follow a best practice approach to policy development.

3.1 Governance structure

The NTC collaborates closely with Commonwealth, state and territory road and transport agencies to research, develop and deliver our reforms. Ultimately, we make recommendations to ministers through the Transport and Infrastructure Council who agree policy changes.

The NTC has also established an industry insights group to ensure our reforms are developed in the context of the latest national and international developments.

3.2 Policy cycle

The Automated Vehicle Program follows the policy and legislative development cycle that is used in all projects at the NTC. This is a repeatable policy cycle which includes the development of an issues paper, discussion paper, discussion paper (or consultation Regulation Impact Statement) and policy paper (or decision Regulation Impact Statement) and recommendations.

Figure 3. Project policy cycle



The NTC's policy processes are based on the Australian Policy Cycle (Althaus et al., 2013) and are comparable to other independent statutory agencies such as the Australian Law Reform Commission and the Productivity Commission.

However, unlike the Australian Law Reform Commission and the Productivity Commission, the NTC is also required to undertake three additional tasks:

- facilitate agreement of six state, two territory and the Commonwealth governments (as well as the Australian Local Government Association - ALGA) to the policy proposals through multi-lateral negotiations
- work with stakeholders to turn the agreed policies into proposed legislative changes, and
- facilitate agreement of six state, two territory and the Commonwealth governments (and ALGA) to the detailed proposed legislative changes that are consistent with the agreed policy, through multi-lateral negotiations.

3.3 Timing of reforms

The timelines for our current reforms are below. We update the timelines based on feedback from TISOC and decisions of transport ministers.

Figure 4. Timeline – In-service safety for automated vehicles

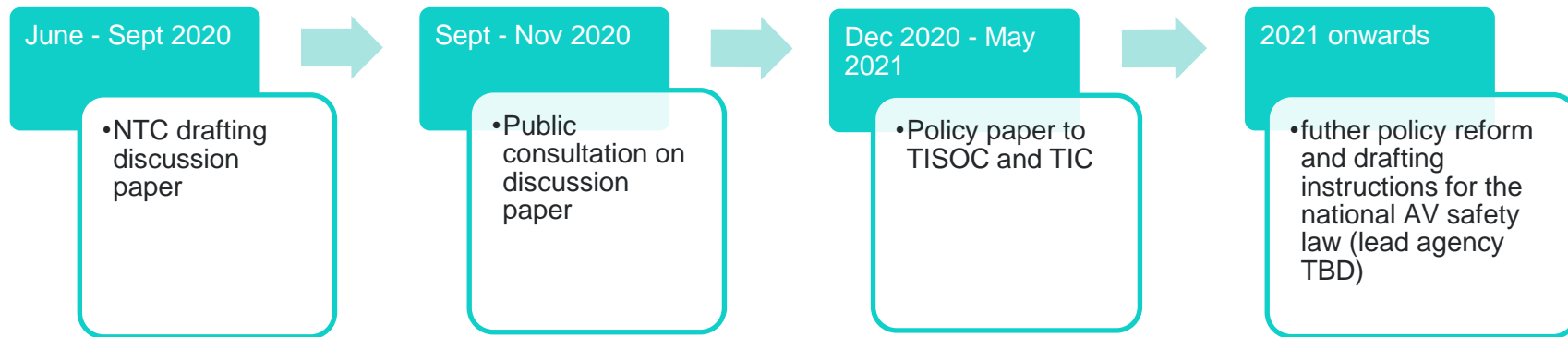


Figure 5. Timeline – Motor accident injury insurance and automated vehicles

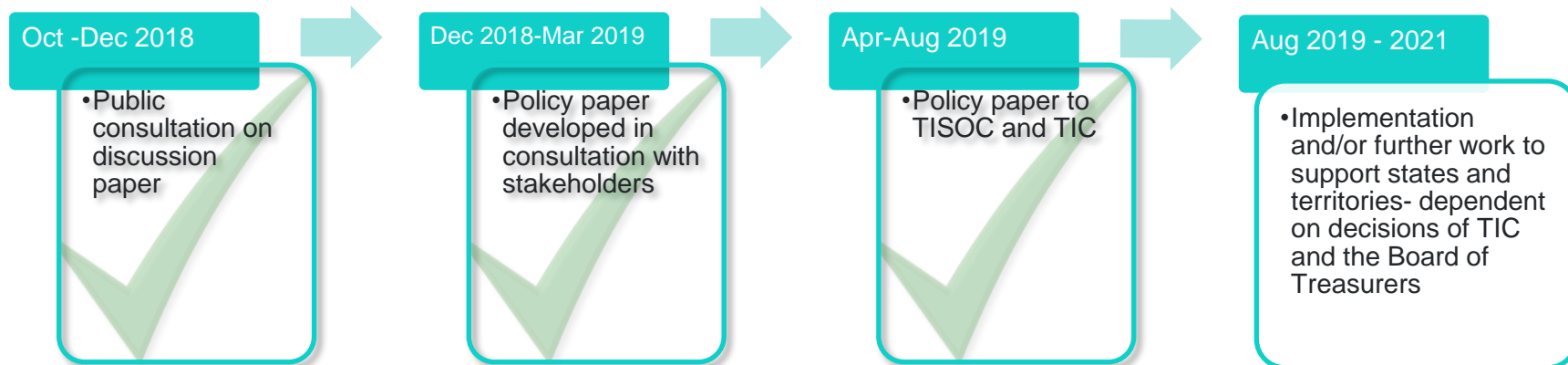


Figure 6. Timeline – Government access to vehicle generated data

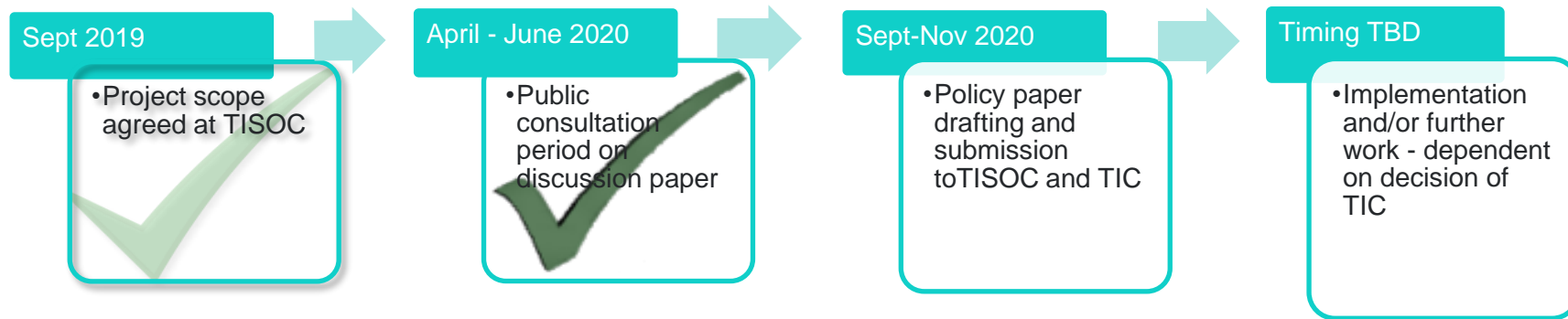
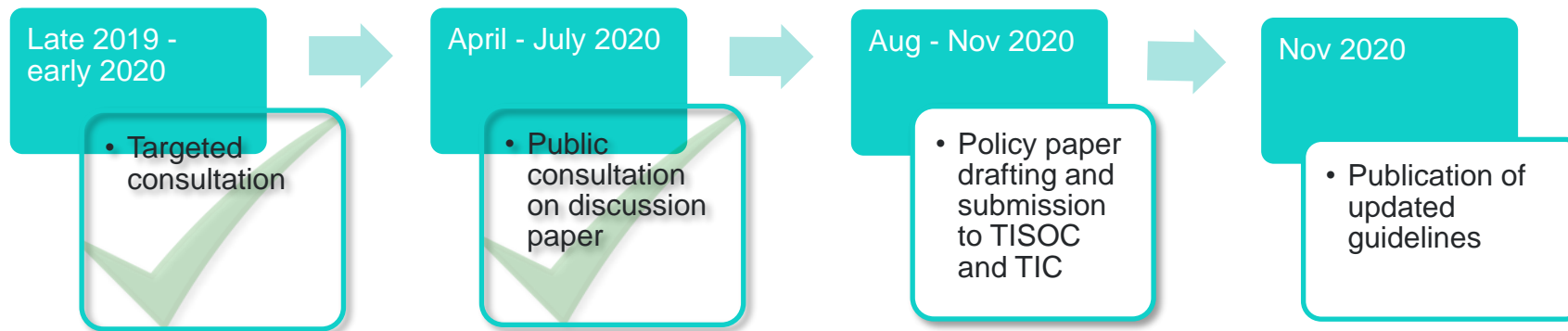


Figure 7. Timeline – Review of automated vehicle trial guidelines



4 Consultation approach

Key points

- The NTC wants to give everyone affected by our automated vehicle reforms an opportunity to have a say.
- Stakeholders have the opportunity to participate in the reform process through a variety of forums including workshops and one-on-one meetings.

4.1 Previous consultation processes

Since commencing our automated vehicle reform work in 2016, we consulted with stakeholders through twelve public consultation processes. We have engaged with over 500 stakeholders and received around 400 submissions that have informed our recommendations to transport ministers.

4.2 Consultation purpose

The NTC uses a range of policy development tools and engagement options to:

- define regulatory problems and opportunities
- design policy options to meet regulatory goals
- test policy options
- recommend preferred policy options, and
- translate agreed policy to legislation.

4.3 Who will be consulted

The NTC wants to give everyone affected by our reforms an opportunity to have a say. The NTC consults with relevant organisations and stakeholders, including:

- transport and road agencies
- automotive industry
- insurance industry
- legal firms
- infrastructure providers
- privacy agencies
- freight operators
- cycling, pedestrian and motorcycling groups
- enforcement agencies and police
- other government entities, and
- the Australian community.

We have also established an automated vehicle industry insights group. We seek insights from this group to ensure our reforms align with industry expectations and support industry best practice.

4.4 How consultation will occur

Stakeholders have the opportunity to contribute to our reforms through:

- working groups
- workshops and webinars
- one-on-one meetings with interested stakeholders, and
- industry associations.

If you have any questions, please contact us at: automatedvehicles@ntc.gov.au.