# Using the National Telematics Framework to your advantage

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## **Overview**

1. National Telematics Framework – a digital business platform

2. Business rules to protect consumers

- 3. Making the right hardware decisions
- 4. Take away messages

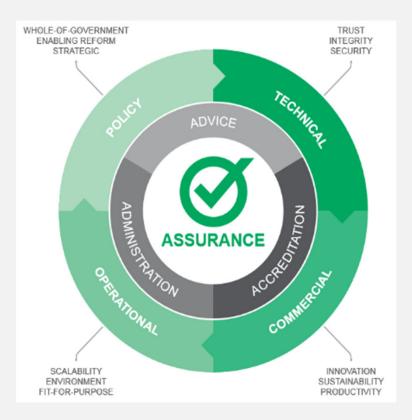


# ...but first, a bit about us

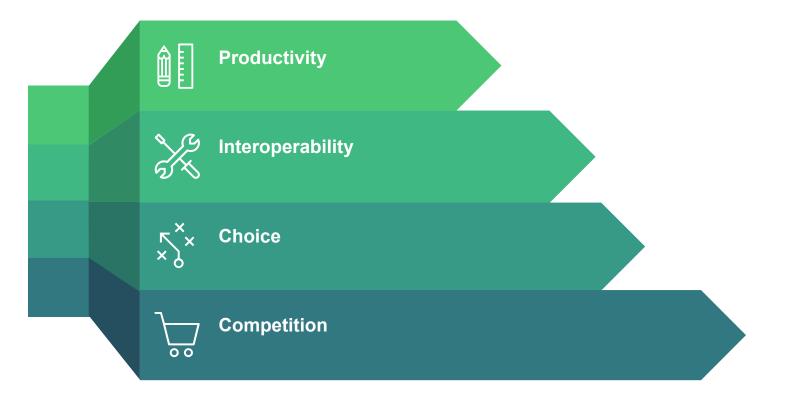


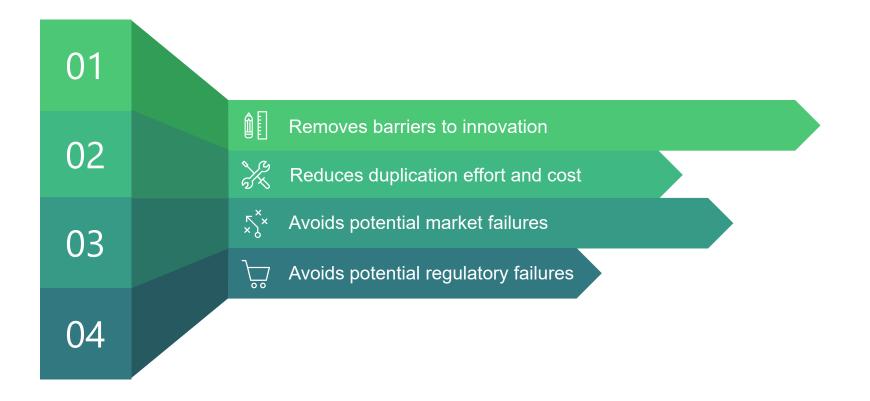
## TCA

A government body responsible for the management of an **open technology market** of **telematics and related intelligent technologies** 









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## **National Telematics Framework**

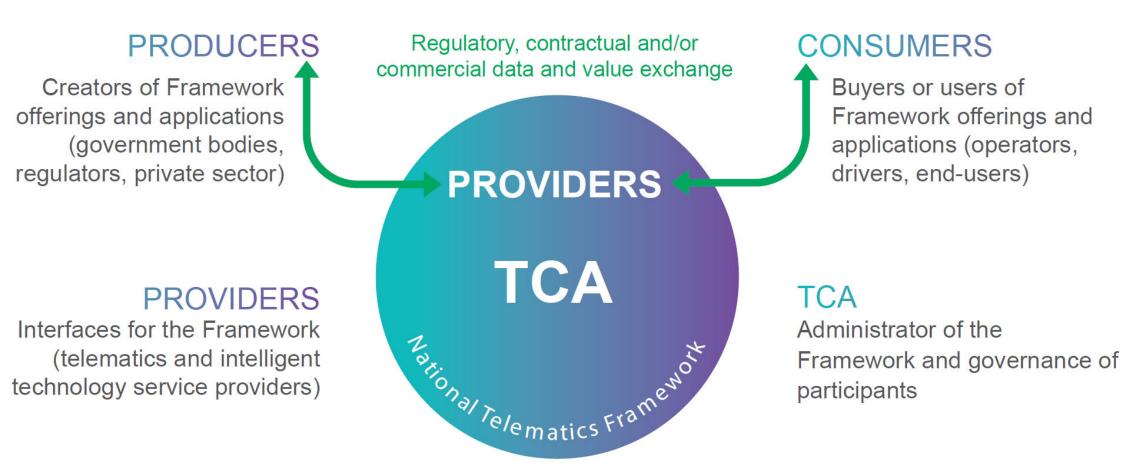
The National Telematics Framework is a **digital business platform** consisting of **infrastructure and rules** that support an **open marketplace** of telematics and related intelligent technology providers.

Allows multiple applications to co-exist with different levels of assurance

Links producers, providers and consumers



#### NATIONAL TELEMATICS FRAMEWORK ECOSYSTEM



## It's not the technology...

## ...it's the platform and business rules





## Platform business models aren't new!



'Pipeline Model'

'Platform Model'





## National Telematics Framework – a digital business platform

Like different shops in a mall...

...there are different applications available through the Framework

All applications are supported by common business rules (which I'll get to in a moment)



## The components of the Framework

LEGISLAT	-	TELEMATICS	DATA EXCHANGE
	Enables operation of Framework/ Specific applications	ofe	Method and standard of data exchange between entities
TELEMATI	CS DATA DICTIONARY	ALLOCATION	NOF RESPONSIBLITIES
	Common dictionary of data elements across all applications	(J)	Transparent responsibilities to producers, providers, consumers
GOVERNA	NCE FRAMEWORKS	PRIVACY	
	Enables management of interactions between parties		Full disclosure in collection and use of data (privacy-by-design)
LEVELS O	FASSURANCE	OPERATION	AL OVERSIGHT
	Different levels of assurance for different needs (cost-v-benefit)		Fit-for-purpose administration and oversight of providers



#### Currently available applications enabled by the National Telematics Framework

e.g. Certificate based data and evidence



	Applications	Number	Level of Assurance*	Administrator
	Light Vehicle Policies			
	Alcohol Interlocks	≅ <b>1</b> ,000	3	TfNSW/RMS DoT WA
	Safety Cameras (taxis, hire cars, rideshare)	≅3,500	2	TransLink (TMR)
	Fare Devices	≅7,000	2	Numerous Regulators
	Heavy Vehicle Policies			
	Type-approved capable IVUs (June 17)	45,000	1	ТСА
*Levels of Assurance	Intelligent Speed Management (ISM)	>90% of HV	1	ТСА
<b>1.</b> Self-assessment	On-Board Mass Systems	<30% of HV	2	Numerous Regulators
e.g. Self-assessment by consumer or supplier	Commercially available apps	100%	1	Numerous Providers
2.	Intelligent Access Program (IAP)	5039	3	ТСА
Independent assessment - periodic audit	Intelligent Speed Compliance (ISC)	1844	3	ТСА
e.g. Information gathering and collation with other data sources	Interim OBM Solution / OBM Solution	356	2 (Planned for 3)	ТСА
3.	Certified Telematics Service (CTS)	179	3	ТСА
Independent assessment - oversight	Traveller Information Exchange (TIX)	-	1,2 or 3 subject to policy	ТСА



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## **Business rules to protect consumers**

Telematics and related intelligent technologies are complex and difficult to understand – even for the experts!

It's hard to be an informed consumer, and to make the right business decisions

The Framework's business rules are designed to <u>protect your interests</u>, and minimise risks to your business

There are three specific examples I want to share with you...



## Business rules #1: Provider Approval Obligations (1/3)

#### Providers shall ensure that they meet, and continue to meet, all the requirements of their TCA approval

#### **Requirements:**

• The provider shall ensure that the type-approved product or certified service:

(i) meets, and continues to meet, all the requirements of type-approval and/or certification

(ii) complies with all laws

(iii) is manufactured and supplied so it is of merchantable quality and fit for its intended purpose



## Business rules #1: Provider Approval Obligations (2/3)

#### Providers shall ensure that they meet, and continue to meet, all the requirements of their TCA approval

#### **Requirements:**

• TCA may notify the public (including consumers) via its internet site or by any other means of the situation and require the provider to:

(i) cease providing products and/or services

(ii) cease using the trademarks in any publicity relating to type-approval and/or certification

(iii) cease holding out that the product is type-approved and/or that the service is certified



## Business rules #1: Provider Approval Obligations (3/3)

#### Providers shall ensure that they meet, and continue to meet, all the requirements of their TCA approval

#### **Requirements:**

- The provider shall identify the capacity to deliver type-approved products and/or certified services to cater for the nominated application demand
- The provider shall cooperate and engage with TCA and producers in making minor changes to accommodate enhancements and external changes to the National Telematics Framework and specific applications



## Business rule #2: Provider Entry, Suspension and Exit from the Market (1/1)

#### A provider shall ensure that their provision of a Product or Service is managed to minimise disruption to consumers

#### **Requirements:**

- A provider may seek approval to provide an application within the National Telematics Framework at any time
- TCA may impose (acting reasonably) Special Conditions on a provider subject to the provider's ability to continue to deliver the type-approved product and/or the certified service
- A Special Condition may be suspension of a provider from accepting new consumers (for a period of time)
- A provider may exit an application of the National Telematics Framework by providing sixty (60) business days' notice in writing to TCA



## Business rule #3: Provider Non-Compliance and Rectification (1/1)

## Providers shall identify and rectify any non-compliance with their Product and/or Service

#### **Requirements:**

- The provider shall have systems in place to detect any issue, breach or non-compliance to their type-approved product and/or certified service
- The provider shall rectify any issue in relation to their type-approved product and/or certified service (i.e. breach or non-compliance)
- The provider shall provide a report to TCA on the issue, breach or non-compliance and the steps taken to rectify it



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## **Hardware Specifications**

TCA publishes Functional and Technical Specifications for hardware and services within the National Telematics Framework

There are two Specifications which are of particular relevance to the heavy vehicle sector:

- Telematics In-Vehicle Unit (IVU)
- On-Board Mass (OBM) System

Both are available free-of-charge on our website



## A focus on outcomes...not technology inputs

The philosophy of our Specifications

- Performance-based focus on required outcomes
- Innovation is encouraged!
- Performance outcomes can be achieved with:
  - OEM-fitted or an after-market products
  - o 'Shared components' providing comparable functionality
  - o Quality management system approach to calibration to maintain accuracy



## Ways you can use our Specifications

There are at least four ways to use our Specifications:

- 1. Assess your current hardware
- 2. Be an informed consumer (when going to market and comparing new hardware)
- 3. Demand that providers meet requirements (by referencing our Specifications in tenders and contracts)
- 4. Purchase type-approved hardware (which have been independently assessed by TCA against the Specifications and associated business rules)



## **Telematics In-Vehicle Units (IVUs)**

Telematics IVU Functional and Technical Specification

• Updated in January 2018

Supports multiple applications available through the National Telematics Framework

The applications co-exist across multiple policy, technical, operational and commercial dimensions

		<b>Original</b> Target Carlician Austria
Telematics	In-Vehicle U	nit (IVU)
Functional and Te Version 2.22	chnical Specification	
January 2018		



# 45,000 ... TCA-recognised devices



## **Type-approved Telematics IVUs**







## **On-Board (OBM) Systems**

On-Board Mass (OBM) System Functional and Technical Specification

- Released in April 2017
- Updated in May 2018





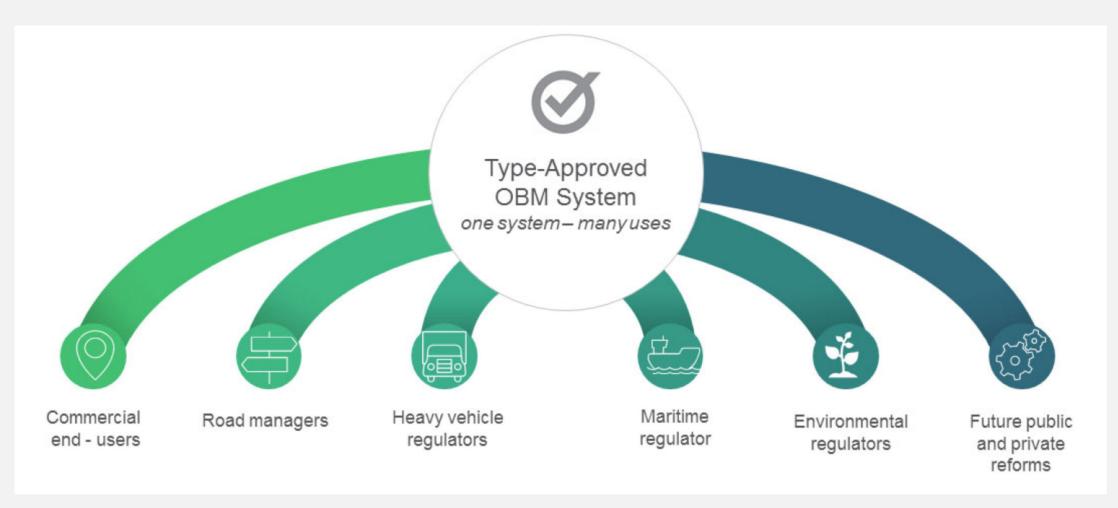
## **On-Board (OBM) Systems**

...commonly referred to as weigh scales or electronic weighing systems











## **Type-approved OBM Systems**

The first type-approved OBM Systems became available in August 2018





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## Take away messages

- 1. Use the National Telematics Framework to your advantage
- 2. Understand how the business rules of the Framework protect your interests
- Adopt the use of type-approved hardware (to support current and future applications of the Framework)
- 4. Come to us for (free) advice if unsure!





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