



TRAVELLER INFORMATION EXCHANGE

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MAKING INFORMATION AVAILABLE TO IMPROVE JOURNEYS

Users of transport networks rely on information to manage their journey and network use. Despite the ever-increasing growth in available information, such information is generally only available through independent channels (each with different access methods and arrangements), and is generally not presented using a consistent and coherent method.

The availability of the Traveller Information Exchange (TIX) overcomes these challenges by sharing information through a single exchange - allowing consumers to make en route journey planning and network use decisions.

TIX enables the exchange of messages between multiple locations and end-users. Each message is designed to be useful to its recipient, as it may influence a decision related to a journey.

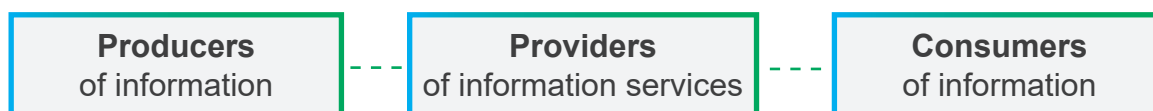
TIX operates by sending messages which describe the current status of some real-world event. Examples may include traffic congestion or road closures, weather phenomena, port stevedore or warehouse slot openings, rest or parking area availability, etc.

TIX enables providers to offer the most relevant information (or merged information sources) to meet the different needs of consumers.

As an application of the National Telematics Framework, TIX promotes an open technology market by allowing new providers to subscribe, new producers to be added and competition and choice for consumers.

WHAT DOES TIX DO?

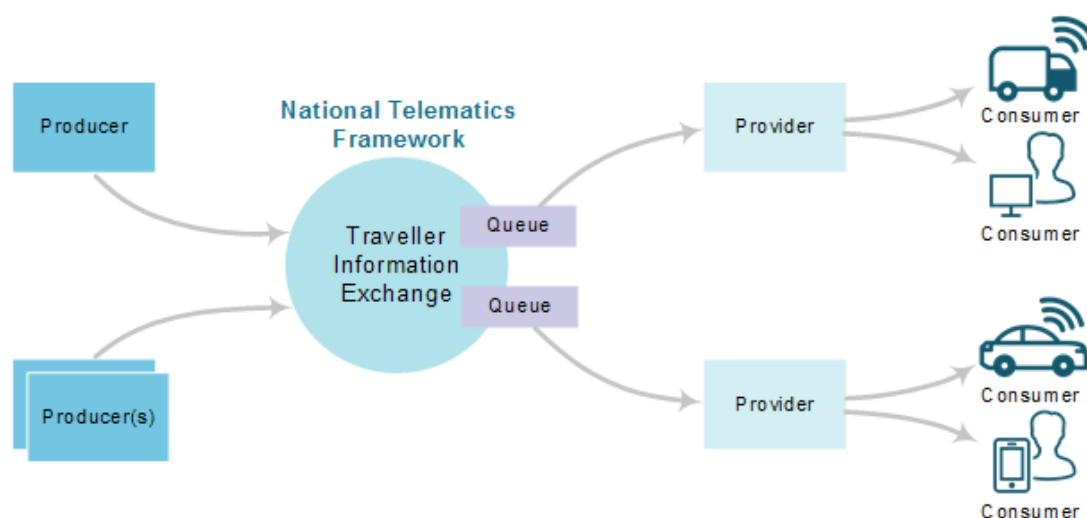
TIX delivers the ability to exchange information between:



As an application of the National Telematics Framework, TIX utilises a common digital business platform, and associated business rules and data languages to exchange information messages between producers and providers.

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THE TIX ECOSYSTEM



TIX allows information sources from any Producer to be utilised and made available to Providers. Providers receive that information in a standardised format.

Producers make messages available to TIX. A Producer may already have an Application Programming Interface (API) to make their messages accessible (which can be used by TIX), or alternatively can utilise functionality of TIX to supply messages directly.

Providers subscribe to one or more message queues within TIX, and can utilise message metadata provided by Producers to personalise the distribution of those messages to Consumers who would have an interest in them (e.g., based on location, route, destination, time of day and/or other registered interest in the information).

Consumers are those for whom the information made available by the Producer may be relevant when making decisions related to their journeys. Consumers, utilising services enabled by Providers, choose which types of information to subscribe to in order to allow messages to be communicated through devices be they in-vehicle, portable or office based.

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KEY FEATURES

WHAT ARE THE BENEFITS OF TIX?

- Ensures an open technology market, avoiding proprietary and commercial lock-ins and outs to information availability and its subsequent use
- Leverages off the growing market of providers that have a direct relationship with the consumer, regardless of whether they are in an office, a vehicle or using a mobile device
- Is scalable and sustainable, providing an efficient mechanism to exchange information
- Caters for different uses of information with associated different levels of assurance
- Subject to consumers' capacity TIX allows them to be their own provider

DATA SHARED IN A COMMON LANGUAGE

- Collates information published by different producers, and presents them in a standardised format to providers
- Enables provider of information services to merge different sources of information (from within TIX and from other sources) to meet different needs of consumers.
- Overcomes the need for producers, providers and consumers to interact with multiple communication channels to send and receive information
- Enables producers, providers and consumers to manage risk and investment by delivering their core business and leveraging off each other
- TIX enables a better-connected transport network

THE ROLE OF TCA

The inclusion of TIX within the National Telematics Framework digital business platform ensures that information can be delivered seamlessly.

TCA is the administer of TIX, and central to TCA's purpose is the management of an open technology market.

INFORMATION FOR PRODUCERS AND PROVIDERS

Specific information for Producers and Providers is available in the following documents produced by TCA:

- Traveller Information Exchange Producer Integration Guide
- Traveller Information Exchange Provider Integration Guide

FURTHER INFORMATION

Further information on the Traveller Information Exchange can be found on the TCA website www.tca.gov.au or contact us directly.

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An application of the National Telematics Framework

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