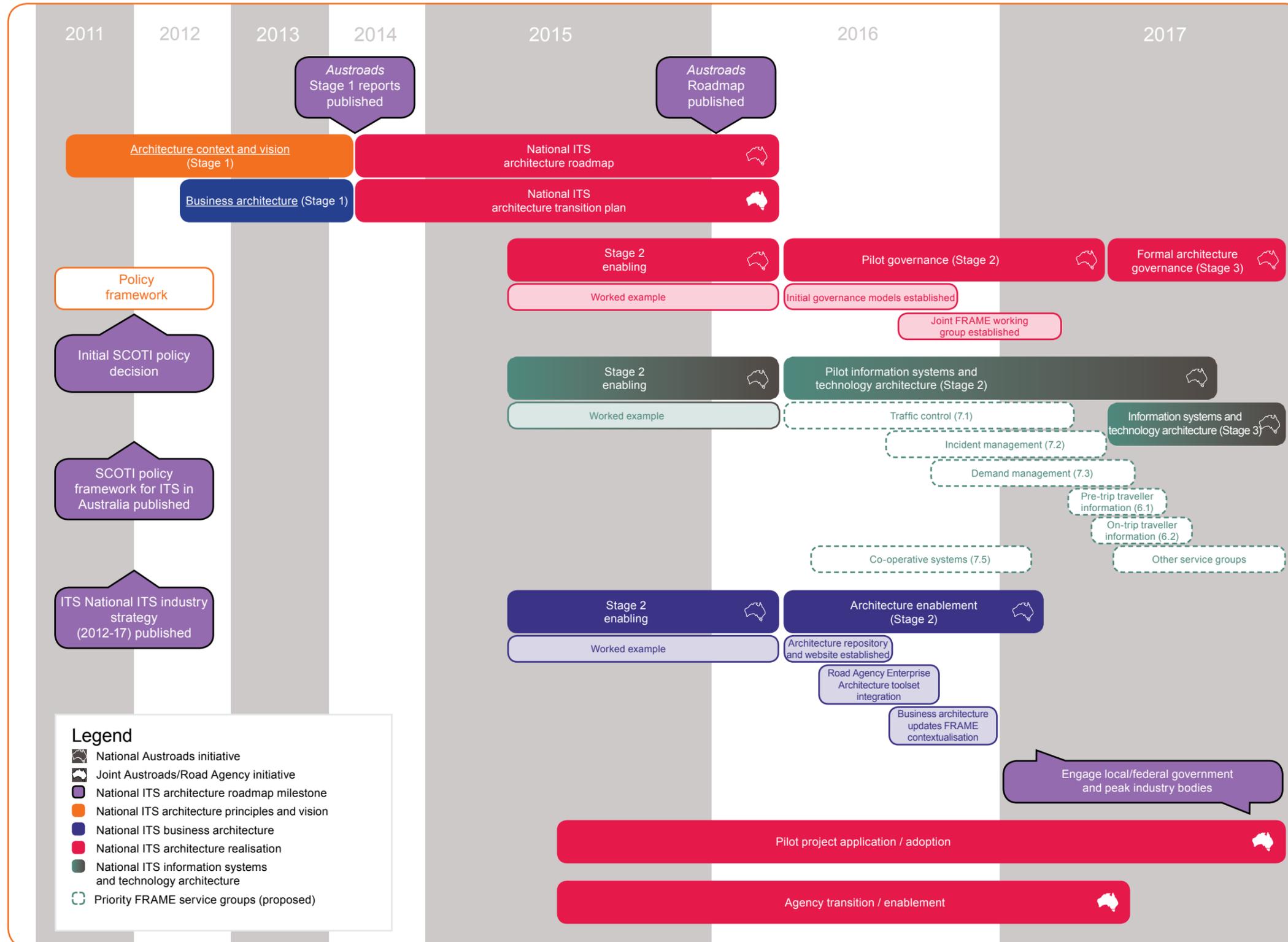


## The Roadmap



## Roadmap Objectives

The National ITS Architecture Roadmap provides an overview of Austrroads' activities and timeframes to progress the development and implementation of the National ITS Architecture. The roadmap:

- Provides a timeline that identifies key milestones in the ongoing development, governance and adoption of the National ITS Architecture.
- Identifies when Austrroads will engage with broader government agencies at a federal, state and local level and the ITS industry.
- Outlines the activities required to develop and implement the National ITS Architecture.

## Roadmap Benefits

The expected benefits of the National ITS Architecture Roadmap include:

- Road agencies are provided with a timeline to develop and implement transition plans to leverage the National ITS Architecture, while achieving national alignment.
- The progress towards the development and implementation of a National ITS Architecture can be readily measured on a common national basis.
- Industry will gain a clearer view of the timeframes associated with the development and adoption of the National ITS Architecture, to better leverage increasing road agency maturity in delivering ITS services.

## Roadmap Components

### 1. National ITS Architecture Stage 1

Stage 1 of the National ITS Architecture recommended the adoption of the European ITS FRAME architecture as the basis for the Australian National ITS Architecture. Stage 1 also:

1. Established a context and vision for the development and adoption of the architecture including the overarching development methodology.
2. Defined an initial version of the National ITS Business Architecture, extending the FRAME architecture to provide motivators and organisational context for the development of the National ITS Architecture.

### 2. Roadmap and Transition Plans

The National ITS Architecture Roadmap and Transition plan builds on stage 1 to:

1. Outline the activities and timelines for the development and adoption of the National ITS Architecture.
2. Assist the road agencies with customised processes to adopt the National ITS Architecture.

### 3. Stage 2 Enabling Work

The Stage 2 enabling work will provide a full vertical slice of the National ITS Architecture for the Traveller Information domain. The enabling works will incorporate business motivation and functional models, as well as the supporting information systems models and logical platform services in the technology models.

#### For More Information

[www.austroads.com.au/road-operations/network-operations/national-its-architecture](http://www.austroads.com.au/road-operations/network-operations/national-its-architecture)

## National ITS Architecture Benefits

- Improved road agency harmonisation in the adoption of emerging technology.
- Improved system integration, interoperability and standardisation of specifications.
- Alignment to international practice and standards.

### 4. National Architecture Enablement

Architecture Enablement establishes the FRAME architecture for use by road agencies by:

1. Updating the National ITS Business Architecture with a focus on the business models for priority service groups.
2. Establishing the National ITS Architecture Repository to support road agency pilot projects.
3. Interfacing Architecture tools and processes with the National ITS Architecture.

### 5. Pilot Architecture Governance

Consistent adoption of the National ITS Architecture needs to be supported by appropriate levels of architecture governance at a national level. To ensure that the components of the roadmap can be executed in a timely way, an interim governance capability will be established to provide the levels of support required for architecture enablement while further architecture development continues.

### 6. Information Systems and Technology Architecture Development (Stage 2 & 3)

The Information Systems and Technology Architecture Development component will iteratively/progressively deliver high priority Information Systems and Technology (platform only) models, providing early delivery of the design elements to support the following prioritised ITS service groups:

- Service group 7.1 (Traffic Control)
- Service group 7.2 (Incident Management)
- Service group 7.3 (Demand Management)
- Service group 6.1 (Pre-trip Information)
- Service group 6.2 (On-trip Information)
- Service group 7.5 (Co-operative systems).

Austroads recognises the need to incorporate architecture elements from various sources into the National ITS Architecture during this stage. This may include FRAME elements, CVRIA components and road agency inputs to support pilot projects.

### 7. Agency Alignment and Enablement

This phase will see the road agencies action their transition plans (developed as part of component 2) to align with the National ITS Architecture, incorporating:

- Establishing agency capabilities required to align with the National ITS Architecture including identified gaps.
- Considering business impacts for each agency in undertaking architecture alignment, and executing actions to address those impacts.

### 8. Pilot Project Application

The process of embedding the National ITS Architecture by road agencies will be done in the context of real projects, enabling the benefits of alignment to be determined early and ensuring benefits are directly measurable. Pilot projects have been selected by each agency on the basis of priority, timing, potential alignment benefits, project profile and commercial constraints. Alignment with the National ITS Architecture will be piloted against these projects.

### 9. Formal Architecture Governance

Final governance processes will be established and the National ITS Architecture will transition into a business as usual phase where the focus is on supporting agency alignment and incorporating incremental changes to maintain relevance and reflect ongoing changes to the ITS landscape. This will establish architecture 'ownership', maintenance roles and responsibilities, and update processes including collaboration with the FRAME architecture team.

**“... adoption of a National ITS Architecture is a pre-condition for the deployment of consistent and interoperable ITS systems throughout Australia and the unlocking of benefits that are potentially able to be derived from intelligent national transport infrastructure.”**

*Standing Council On Transport and Infrastructure:  
The Policy Framework for ITS in Australia.*

## Industry Engagement

Austroads' intention is to engage with industry stakeholders during the Architecture Enablement phase. This will provide industry with information on the implementation of the National ITS Architecture Roadmap and the opportunity to comment.