

# State Infrastructure Planning System



## Objectives

At the highest level, SIPS has been designed to:

- § Provide a consolidated record of State Infrastructure;
- § Facilitate the analysis of existing infrastructure provision against demand;
- § Identify possible infrastructure responses most likely to support economic development;
- § Provide a mechanism for identifying private sector investment opportunities in infrastructure provision; and
- § Provide a mechanism that conveys a concise and accurate picture to support infrastructure funding.

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## Introduction

The State Infrastructure Planning System (SIPS) is a graphically based decision support system for infrastructure planning. Its ability to assist and improve relevant policy development and decision-making activities, along with providing integrated analytical tools and models makes it invaluable for strategic planning.

SIPS should not be confused with an infrastructure plan, nor is it an individual tool. It is a set of analytical tools and models that support infrastructure planning and decision-making.

The project is being developed within the Infrastructure Policy and Planning Division of the Department of Infrastructure, Energy and Resources (DIER).

## Background and Context

The provision of infrastructure represents an enormous cost to the State, and so planning, providing and maintaining infrastructure is fundamental to supporting Tasmania's economic and social wellbeing. A clear vision for infrastructure within the State also relies on longer term planning towards strategic policy objectives. SIPS can deliver an integrated suite of tools and analytical functionality to enable robust, repeatable, and transparent analysis of Tasmanian infrastructure, within the context of dynamically changing pressures, demands, and constraints.

Data relating to both the demand and supply of infrastructure across Tasmania has been collected and is stored in a single repository to be readily available to planners and analyst in a form that maximises the potential for strategic and integrated planning.

## SIPS Components

The project has involved developing and implementing:

- An infrastructure database presented in a GIS format showing, community, demographic, environmental, industrial, infrastructure, planning, resources, and transport information.
- A range of specific models and desktop applications have been developed and are used in analysing current and future infrastructure requirements and planning for the future.

## SIPS Phases

The project has been conducted in phases:

- **Phase 1.** Collection of data, development of the system, tools and models primarily relating to DIER's portfolio requirements.
- **Pilot Study.** A case study demonstration of SIPS analysis techniques applied to State and Local Government social and physical infrastructure.
- **Phase 2.** Phase 2 will undertake Whole-of-Government implementation and support to major projects, focussing on the following themes:
  - Transport and freight modelling;
  - Land use and supply; and
  - Demographic change and community access.

Phase 2 has recently commenced.

**“The capability to use integrated analytical models, and to explore resource related scenarios, will make SIPS an invaluable tool for strategic planning.”**