

Rail Systems Engineering

DT Infrastructure's Rail Systems Engineering (RSE) team offers fully integrated end-to-end solutions for rail infrastructure asset owners across Australia and New Zealand.

DT Infrastructure has a long, successful history within the Australian rail sector and it remains a core part of our business today. We are proud of our culture that strives to maximise asset life and deliver value for money in a safe, efficient manner. Through our extensive experience designing, building, integrating and maintaining complex rail infrastructure, we bring significant rail systems engineering knowledge and capabilities in heavy, light and metro rail applications.



Asset management

DT Infrastructure's RSE team provides our clients end-to-end services including whole-of-life asset management capabilities.



Safety assurance

Enhancing overall operational handover certainty, our capable team of assurance engineers provide an in-house, end-to-end project delivery offering.



Digital engineering

We are dedicated to enhancing efficiencies, agility and scalability through digital transformation on rail systems operations and maintenance.



System engineering

DT Infrastructure provides a focused systems engineering approach in project delivery to minimise risk and generate real benefits for our customers including value-for-money outcomes.



Communications

As one of the largest digital radio and network communications engineering providers, DT Infrastructure is your network solutions integrator of choice.



System integration

Our proven system integration expertise ensures newly implemented rail sub-systems are fully integrated and work seamlessly with any existing systems.



Control centre

DT Infrastructure's experience in designing and commissioning operational control centres provides assurance we are a fully turnkey delivery partner.



Signalling

Our experienced local signalling workforce can design, install, integrate, test and commission complex signalling systems for transport including mainline, metros and light rail.



Overhead wiring

DT Infrastructure provides overhead line wiring for mainline, metro and light rail applications in both alternating current (AC) and direct current (DC) environments.



Testing and commissioning

We have in-house capabilities for all rail systems testing and commissioning activities, including comms networks, rail signalling, train control systems and network supervisory systems.



Installation

Our dedicated construction teams assemble, install and construct major systems for all rail applications, including signalling and train control.



RSE combines our extensive rail sector experience, in-house capabilities and cross-sector understanding to provide an integrated, customised and specialist service for rail projects.

Upgrade to the Warrnambool Line

Warrnambool Line Upgrade (WLU) is a key part of the Victorian Regional Rail Revival project delivered by Rail Projects Victoria (RPV).

As part of the WLU project, the team delivered 180km of new rail systems componentry on the Geelong and Warrnambool Line.

Our scope involved interface management, signalling and train control design, integration, testing and overall commissioning of the rail system.

Key features:

- Commissioned six new computer based interlockings (CBI) on the corridor.
- Deployed a new DT Infrastructure Train Control System (TCS) known as TrackDNA InControl.
- Introduced a new DT Infrastructure Maintenance Support System (MSS) known as TrackDNA InSupport.
- Provided turnkey system assurance, engineering, and overall system integration to the project.

