



RailPlanning
Services

Trusted Advisor

Capability
Statement



About Rail Planning Services

Rail Planning Services is an independent consultancy, specialising in transport infrastructure projects.

We provide technical advisory, project management, engineering planning, delivery and assurance services to solve challenging problems for both public and private sector clients.

Our team consists of hand-picked professionals, including project managers, engineers, construction experts, safety advisors and surveillance personnel.

Our people have extensive experience across all phases of the project lifecycle, combining management expertise and technical knowledge, offering our clients unparalleled service.

Rail Planning Services has established itself, over the last decade, as a trusted advisor to our clients, providing high value services.





Our Vision

To better our community through superior transport outcomes.

Our Mission

To be a trusted advisor at the forefront of rail and transport planning, delivery, operations and maintenance across Australia, delivering expert advice and high value services to our clients.

Our Values

- ▶ Respect
- ▶ Professionalism
- ▶ Excellence
- ▶ Wellbeing



Rail Planning Services at a glance

Our operations

Rail Planning Services has offices in Sydney, Brisbane and Melbourne.

We specialise in providing high quality services throughout Australia and have also serviced clients in North America, New Zealand and Singapore.



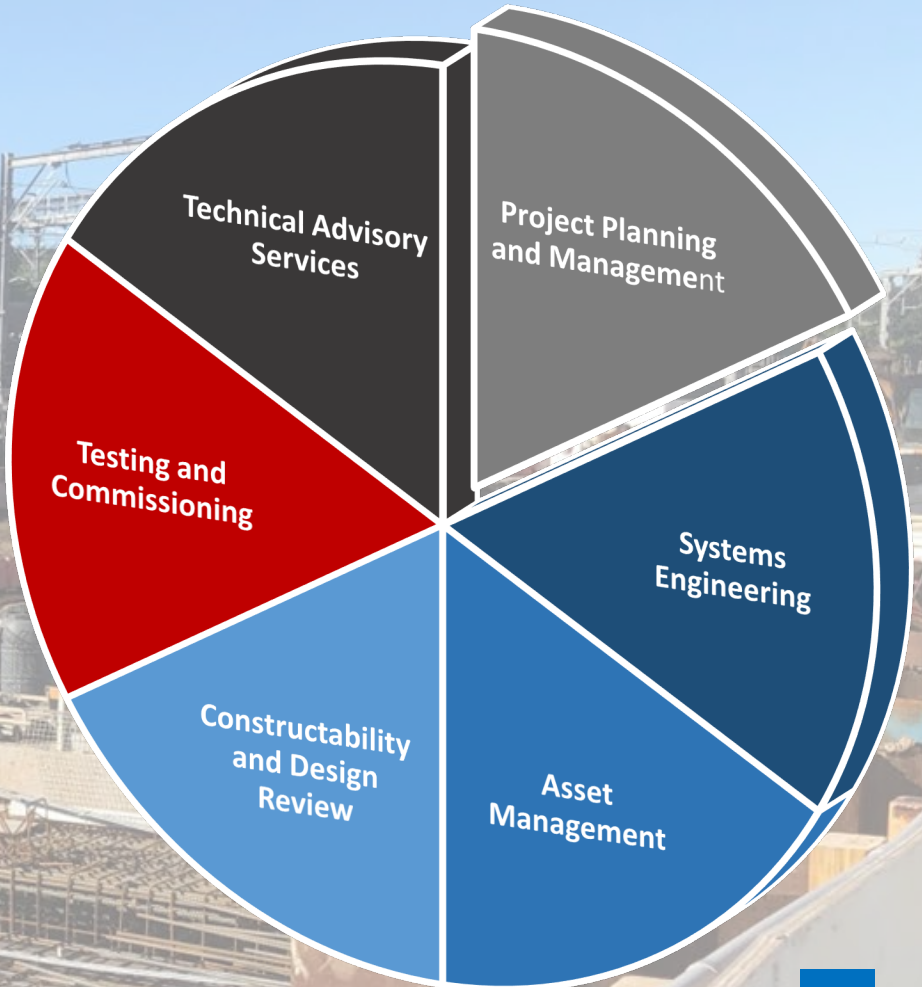
650 Projects completed

People 70+ **Partners** 20+

Our certifications



Our engineer registrations



Project planning and management

Our team have an extensive skill set within project planning and management – forged over decades within the heavy-asset industries.

We advise on feasibility, concept and business case development, drive integration for seamless delivery on multi-disciplined projects and complex brownfield projects.

Our experts skillfully manage key stakeholders and strive for a unified goal focused on delivery/operational objectives.

Within our Project Planning and Management Capability, we provide:

- ▶ Feasibility and Concept Planning
- ▶ Business Requirements Development
- ▶ Business Case Support
- ▶ Stakeholder Management
- ▶ Optioneering and assessment
- ▶ Project development support
- ▶ Procurement and tendering services
- ▶ Detailed schedule and program development
- ▶ Cost planning and estimates
- ▶ Project controls
- ▶ Project integration management
- ▶ Project Risk Management
- ▶ Interface management
- ▶ Lessons learned and improvement initiative development



Constructability and design review



We are skilled experts in analysing construction efficiency and staging as well as undertaking multi-discipline reviews for design and construction.

We thrive at solving complex staging or constructability challenges that are intrinsically safer to build, efficient in design and are challenged through true integrated design checks.

We provide the delivery and/or assurance of:

- ▶ Constructability and Design Reviews
- ▶ Operational Environment impact Assessment
- ▶ Design Suitability
- ▶ Staging and Temporary Works Design
- ▶ Possession Management and Optimisation
- ▶ Operator Interface Determination
- ▶ WHS and Rail Safety Planning

Asset management

We are Asset Management experts who can support and advise throughout the asset life cycle for the operation and maintenance of infrastructure.

We excel in the delivery and assurance of:

- ▶ Configuration Management
- ▶ Asset Information Systems
- ▶ Asset Management Plans
- ▶ Asset Maintenance Plans
- ▶ Asset Management Review, Audit and Assurance
- ▶ Asset Management System Support
- ▶ Green Energy Option Reviews



Technical advisory services

Rail Planning Services has a wealth of skills and experience, combining to be industry leaders through our team of Subject Matter Experts in their technical speciality available for a range of reviews.

Some of what our SMEs can provide, include:

- ▶ Technical Expertise (all engineering disciplines)
- ▶ Standards Review
- ▶ Type Approval Support
- ▶ Technical Training Development
- ▶ Track Capacity Investigation
- ▶ Rollingstock Interface



Testing and commissioning

Our team of industry leading rail experts provide advisory services for projects to go live through the testing and commissioning, systems integration, and operational readiness processes to achieve desired targets.

We understand Integration of systems is a challenge on projects and our people understand, map and deliver on the daily tasks to achieve project integration.

We can deliver, advise on, and/or assure:

- ▶ Commissioning Planning and Management
- ▶ Integration Planning and Management
- ▶ Brownfield Testing and Commissioning
- ▶ Greenfield Testing and Commissioning
- ▶ Unit/Subsystem, Acceptance, and System Testing Advisory
- ▶ Site surveillance
- ▶ Handover/Operational Readiness



Systems engineering



Our Systems Engineering methodology is centred around the pre-specified and sequential process of the “V” model – best aligned to our heavy-industry clients.

Our team’s experience covers all 14 Technical Processes of *IEEE 15288:2015 – Systems and Software Engineering – System Life Cycle Processes*.

We excel in the delivery and assurance of:

- ▶ Engineering Management Plans
- ▶ Requirements Management
- ▶ Interpreting and adopting regulatory requirements
- ▶ Concept of Operations / Operational Concepts
- ▶ Specialty Engineering (e.g., PHA/FHA, RAMS, Human Factors)
- ▶ Design Management
- ▶ Verification and validation
- ▶ Operational planning, analysis and reporting
- ▶ Maintenance planning, analysis and reporting
- ▶ Incident investigations and reviews
- ▶ Decommissioning and Disposal



Highlighted projects

Project	Sydney Metro City & Southwest
Sector	Metro
Capabilities	Project Management/ Testing and Commissioning
Client	Sydney Metro
Location	Sydney, NSW
Completion	2023 (expected)



Sydney Metro City & Southwest (CSW) is part of Australia's largest public transport project, its first driverless passenger railway.

Rail Planning Services is providing project management services, working within Sydney Metro implementation groups, to manage the delivery of works in sensitive brownfield areas at Central Station, Sydenham Station, Sydenham Junction and the Bankstown Line conversion.

Project	Moorebank Intermodal Precinct
Sector	Heavy Rail, Intermodal
Capabilities	Project Management/ Site Surveillance
Client	Qube
Location	Sydney, NSW
Completion	2023 (expected)



Rail Planning Services has been appointed by Qube to assist with the contract and project management of development, operation and maintenance of interstate terminal facility for the transport and distribution of freight, associated storage and associated warehouse facilities, maintenance facilities, rail facilities and ancillary activities within the Moorebank Logistics Park.

Project	Cross River Rail (CRR) Southern Portal Works
Sector	Heavy Rail
Capabilities	Constructability and Design Review
Client	CRR Delivery Authority
Location	Brisbane, QLD
Completion	2024 (expected)



Cross River Rail is a 10km rail line between Dutton Park and Bowen Hills, which includes 5.9km of tunnel under the Brisbane River and the CBD, 4 new underground stations and 2 upgraded stations.

Our constructability team reviewed proposed portal designs and carried out a complete forensic analysis of the construction schedules and proposed alternative scoping options.



Highlighted projects

Project	Sydney Metro Engineering Design Solutions
Sector	Metro
Capabilities	Constructability
Client	Mott MacDonald (for Sydney Metro)
Location	Sydney, NSW
Completion	Ongoing



The Sydney Metro EDS program aims to reduce schedule risk for the construction of the new integrated Sydney Metro.

Rail Planning Services was engaged to provide constructability advice associated with the preparation of the concept designs at various locations along the alignment.

Project	Traction Power Scope Development for MTMS
Sector	Heavy Rail
Capabilities	Technical
Client	Transport for NSW (TfNSW)
Location	Sydney, NSW
Completion	Ongoing



The TfNSW Rail Power Development Team is responsible for the development and definition of the power scope component of the major NSW metropolitan rail capital programs including the various More Trains More Services (MTMS) stages. Rail Planning Services is engaged to define power scopes and manage risks associated with delivery including modelling and analysis.

Project	Major Works Division Electrical Isolation Improvement Program
Sector	Heavy Rail
Capabilities	Technical
Client	Transport for NSW (TfNSW)
Location	Sydney, NSW
Completion	Ongoing



The Major Works Division Electrical Isolation Improvement Program (EIIP) is improving Sydney Trains electrical network by implementing new technology to reduce the time it takes to isolate and restore power. Rail Planning Services provides SME support to the program including electrical isolation processes/ requirements, infrastructure, authorisations, roles and responsibilities.



Highlighted projects

Project	Clapham Junction
Sector	Heavy Rail
Capabilities	Project/ Interface Management
Client	Queensland Rail (QR)
Location	Brisbane, QLD
Completion	2024 (expected)

Rail Planning Services has been appointed by Queensland Rail to undertake the program delivery overview role for Clapham Junction, as part of the Cross River Rail project, including:

- critical review of staged delivery plans and fall-back configuration states
- configuration management and assessment
- staging and migration planning
- identification of gaps to the delivery health of the project to ensure system integration and operational readiness risk mitigation
- operational readiness health checks
- defects management.

Project	Rail Deflection Testing (V/ Line) Bendigo Echuca and Shepparton
Sector	Heavy Rail
Capabilities	Technical advisory services
Client	Coleman
Location	VIC
Completion	2022



Rail Planning Services was appointed by Coleman to assist with developing a plan for the upgrading of the Echuca line and the Shepparton line.

V/Line proposed to increase the speed for passenger trains on these lines and required an investigation to assess the existing condition of the lines and the performance of the existing track and formation to determine the improvements necessary to cater for the increased speeds.

Project	Project Management Services Panel
Sector	Heavy Rail, Light Rail, Metro
Capabilities	Project management
Client	Rail Projects Victoria (RPV)
Location	VIC
Completion	2030



Rail Planning Services has been appointed to Rail Projects Victoria's Project Management Services Panel. The panel has engaged highly experienced, capable and qualified resources for ad hoc project management functions to respond to the dynamic and expanding nature of the projects and programs being delivered by RPV.



Highlighted projects

Project	Road Asset Data Collection with Artificial Intelligence
Sector	Transport - Roads
Capabilities	Project Management Asset Management
Client	Fedasen
Location	VIC
Completion	2024 (expected)



Rail Planning Services has been engaged by Fedasen to assist with the collection of DoT Victoria road asset data, based on DoT Asset Hierarchy and defined data attributes, across the state network with AI-assisted technologies. The purpose is to automate asset survey and condition monitoring, asset maintenance and operational procedures relating to AI monitoring of Asset Systems and the provision of associated services.

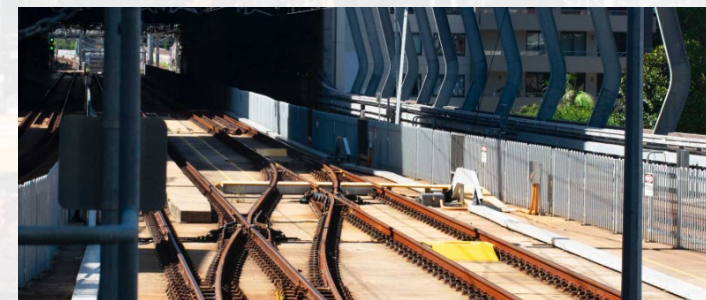
Project	Cross River Rail (CRR) Brisbane Live Arena
Sector	Heavy Rail
Capabilities	Project Planning and Management
Client	CRR Delivery Authority
Location	Brisbane, QLD
Completion	



Cross River Rail is a 10km rail line between Dutton Park and Bowen Hills which includes 5.9 kilometres of tunnel under the Brisbane River and the CBD, 4 new underground stations and 2 upgraded stations.

The Brisbane Live Arena proposal is for a new arena of 17,000 to 18,000 seats located on a large deck structure built over railways, roads and property, with active transport connections to neighbouring CBD locations.

Project	Civil Design Delivery Annual Works Program
Sector	Heavy Rail
Capabilities	Project Management
Client	Sydney Trains
Location	Sydney, NSW
Completion	2023 (expected)



Rail Planning Services is providing project management services to Sydney Trains, to assist its Engineering Support Services (ESS) team with the delivery of civil and track designs as part of its Annual Works Program (AWP). Services provided include developing design briefs, developing time and cost estimates, risk management activities, implementing project controls and more.



Highlighted projects

Project	Roads Condition Assessment
Sector	Roads
Capabilities	Asset Management
Client	Transport for NSW (TfNSW)
Location	Sydney, NSW
Completion	2021



TfNSW is the asset owner of State Roads and is responsible for asset management within the Greater Sydney road network. This includes over 2,600km of roads and associated road corridor infrastructure such as bridges, tunnels and drainage structures.

Rail Planning Services was engaged by TfNSW to carry out an asset condition assurance review and provide project and administration services.

Project	Newcastle Light Rail Condition Assessment
Sector	Light Rail
Capabilities	Asset Management
Client	Transport for NSW (TfNSW)
Location	Newcastle, NSW
Completion	2021



TfNSW is the asset owner of State Roads and is responsible for asset management within the Greater Sydney road network. This includes over 2,600km of roads and associated road corridor infrastructure such as bridges, tunnels and drainage structures.

Rail Planning Services was engaged by TfNSW to assist with this asset condition assurance review and provide project and administration services.

Project	Operations and Maintenance/ Asset Management
Sector	Heavy Rail
Capabilities	Asset Management
Client	V/Line
Location	Melbourne, VIC
Completion	2022

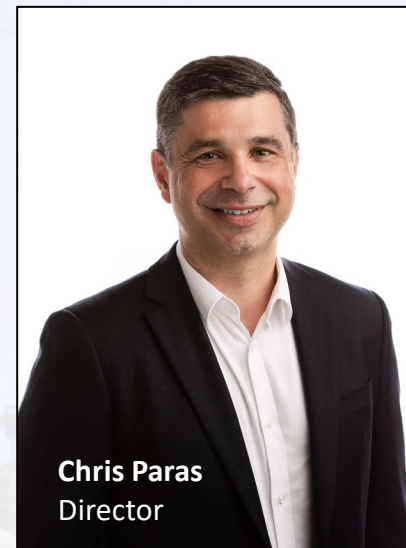


Rail Planning Services provided strategic advisory services for the implementation of Major Periodic Maintenance and Routine Maintenance Framework.

This included co-ordination of a series of reviews and strategic advice with our subject matter experts in rail.



Our executive





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