



# Capability Statement



**RailPlanning**  
Services

*Trusted Advisor*



# About Rail Planning Services

Rail Planning Services is an independent consultancy, specialising in transport infrastructure projects. We provide project management and technical advisory services, solving 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.

We provide services on a variety of projects, ranging from very small projects (where we may provide a single advisor) to large, complex infrastructure projects (where we may provide a whole team).

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



# Vision, Mission and Values

## 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

- ▶ Treat others the way you would like them to treat you
- ▶ Welcome the differences between us and the value of diversity
- ▶ Recognise the worth of the contributions of others

### Professionalism

- ▶ Employ a strong work ethic
- ▶ Always act with integrity
- ▶ Take responsibility for your actions
- ▶ Continually develop knowledge and skills

### Excellence

- ▶ Deliver the best possible outcomes
- ▶ Collaborate to utilise the skills of the team
- ▶ Inject innovation into transport solutions
- ▶ Unlock our potential by solving the most challenging problems
- ▶ Recognise achievement and teamwork

### Wellbeing

- ▶ Look after your health and wellbeing
- ▶ Create a healthy work/life balance
- ▶ Take care for your safety and the safety of others

# Our Executive



**Chris Paras**  
Director



**Daniel Armstrong**  
Director



**Glenn Dewberry**  
Director



**Gus Sullivan**  
Director



**Michael Hickey**  
Director



**Michael King**  
Director



**Glenn Bentley**  
Chief Executive Officer



**Nicky Collins**  
Senior Corporate  
Accountant

# Our Services

- ▶ Project feasibility and concept
- ▶ Project management
- ▶ Constructability advice
- ▶ Asset management and assurance services
- ▶ Technical services
- ▶ Testing & commissioning
- ▶ Operation & maintenance

## Project Feasibility, Concept Definition and Procurement Services

Our team has extensive knowledge and experience of the full project lifecycle that allows us to address risks in the early stages. We provide successful planning/design/program advice to create foundations for successful projects.

### We provide:

- ▶ Feasibility and concept definition
- ▶ Business requirements development
- ▶ Functional specification development
- ▶ Business case support
- ▶ Optioneering and assessment
- ▶ Project development support
- ▶ Procurement and tendering services
- ▶ Strategic procurement advice
- ▶ Interface identification
- ▶ Risk analysis

## Project/Interface Delivery Management including Site surveillance

Our team have an unmatched skill set within project and interface management. We drive integration for seamless delivery on multi-disciplined projects and complex brownfield projects. Our experts skilfully manage key stakeholders and strive for a unified goal focused on delivery/operational objectives.

### We provide:

- ▶ Project management
- ▶ Project integration management
- ▶ Interface management
- ▶ Live rail interface identification
- ▶ Stakeholder engagement and management
- ▶ Lessons learned and improvement initiative development
- ▶ Risk identification and mitigation
- ▶ Site surveillance
- ▶ Detailed schedule and program development
- ▶ Cost planning and estimates
- ▶ Project controls

# Constructability Strategies and Corresponding Design Reviews

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 have been challenged through true integrated design checks.

## We provide:

- ▶ Constructability and design reviews
- ▶ Live rail environment impact assessment
- ▶ Design suitability
- ▶ Planning and delivery
- ▶ Staging, commissioning, temporary works design (identification and solutions)
- ▶ Critical resource identification
- ▶ Possession management and optimisation
- ▶ Operator interface determination and management
- ▶ WHS and rail safety

# Asset Management and Assurance Services

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

## We provide:

- ▶ Requirements management (systems engineering)
- ▶ Aligning concept of operation and maintenance
- ▶ Configuration management and design (safety and system) assurance
- ▶ Lead operational readiness - infrastructure and fleet handover
- ▶ Asset information systems
- ▶ Strategic asset management plans
- ▶ Asset management plans
- ▶ Technical maintenance plans
- ▶ Asset management review, audit and assurance
- ▶ Asset management system support
- ▶ Technical investigations and reviews asset
- ▶ Configuration management assistance
- ▶ 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.

### We provide:

- ▶ Technical expertise (all rail disciplines)
- ▶ Standards review
- ▶ Type approval support
- ▶ Technical training development
- ▶ Track capacity investigation
- ▶ Rolling stock interface

## Testing & Commissioning including Operational Readiness Management

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 provide:

- ▶ Operational Readiness
- ▶ Testing And Commissioning Especially In Brownfield Environment
- ▶ System Integration And Project Integration
- ▶ Program Advice
- ▶ Detailed Schedule And Program Development
- ▶ Cost Planning And Estimates
- ▶ Project Controls

## Operations and Maintenance Reviews

Our team has many years of operational and maintenance experience who provide expert advice on operations and maintenance aspects throughout the asset life cycle.

### We provide:

- ▶ Operation and maintenance
- ▶ Rail operations
- ▶ Incident investigations and reviews
- ▶ Interpreting and adopting regulatory requirements
- ▶ Technical maintenance plans
- ▶ Technical investigations
- ▶ Development of maintenance plans to realise long-term benefits
- ▶ Configuration management assistance

# Our Projects

## SYDNEY METRO CITY & SOUTHWEST

<b>Sector</b>	Metro
<b>Scope</b>	Project Management (Brownfields)
<b>Client</b>	Sydney Metro
<b>Location</b>	Sydney, NSW
<b>Completion</b>	Expected 2022

Sydney Metro City & Southwest (CSW) is part of Australia's largest public transport project, its first driverless passenger railway. CSW will extend Sydney Metro Northwest under Sydney Harbour, through new underground stations in Sydney's CBD to the southwest to Bankstown. The project consists of 30km of railway, 7 new underground stations and upgrading of 11 existing stations.

Rail Planning Services was engaged to provide 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.

Scope includes:

- ▶ management of numerous stakeholders
- ▶ overseeing complex interfaces with existing rail infrastructure
- ▶ program development
- ▶ risk identification and mitigation
- ▶ leadership in all disciplines of civil works management
- ▶ early identification and resolution of contractual issues
- ▶ site surveillance
- ▶ project delivery optimisation leading to significant time and cost savings
- ▶ contract development and procurement
- ▶ management of utilities and associated risks, including establishing relevant processes and procedures
- ▶ contract administration

## SYDNEY METRO CITY & SOUTHWEST

<b>Sector</b>	Metro
<b>Scope</b>	Constructability Services
<b>Client</b>	WSP / Aecom (for Sydney Metro)
<b>Location</b>	Sydney, NSW
<b>Completion</b>	Expected 2022

The WSP / AECOM Joint Venture was appointed as the Technical Advisor on Sydney Metro City & Southwest (CSW), with the Rail Planning team providing constructability review of designs and live rail constructability advice to assist in design development and methodologies.

Rail Planning Services' role is the validation of the feasibility and methodology of the required construction activities to achieve the design intent, taking into consideration constraints such as the rail network possession program. The services include the provision of constructability advice associated with the preparation of the Reference Design in accordance with Sydney Metro AEO.

A key portion of the deliverables relate to the augmentation of the rail systems of Sydney Metro Northwest, along with the construction and conversion of the Bankstown Line. One of the primary requirements was the design development of options for the conversion of the Bankstown Line, testing each option in line with the project outcome of minimising customer impact and reviewing cost efficiencies to align forecast cost to available budget.

## SYDNEY METRO – ENGINEERING DESIGN SOLUTIONS

<b>Sector</b>	Metro
<b>Scope</b>	Constructability Advisor
<b>Client</b>	Mott MacDonald (for Sydney Metro)
<b>Location</b>	Sydney, NSW
<b>Completion</b>	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 concept designs at various locations along the alignment (e.g. Westmead, North Strathfield).

Scope of services includes:

- ▶ Supporting the design team in identifying options that allow continuous operation of the existing railway during the construction of the works
- ▶ Development and documentation of construction methodologies
- ▶ Identification of site establishment activities (including identification of suitable site compound and laydown areas)
- ▶ Develop construction operations staging plans
- ▶ Develop traffic and pedestrian management plans for temporary access arrangements for each construction stage
- ▶ Create possession strategies
- ▶ Identify and document any required concessions to asa standards

Our team ensured the constructability considerations were integrated into the design solutions to minimise potential impacts during construction.

## MORE TRAINS MORE SERVICES – STAGE 2

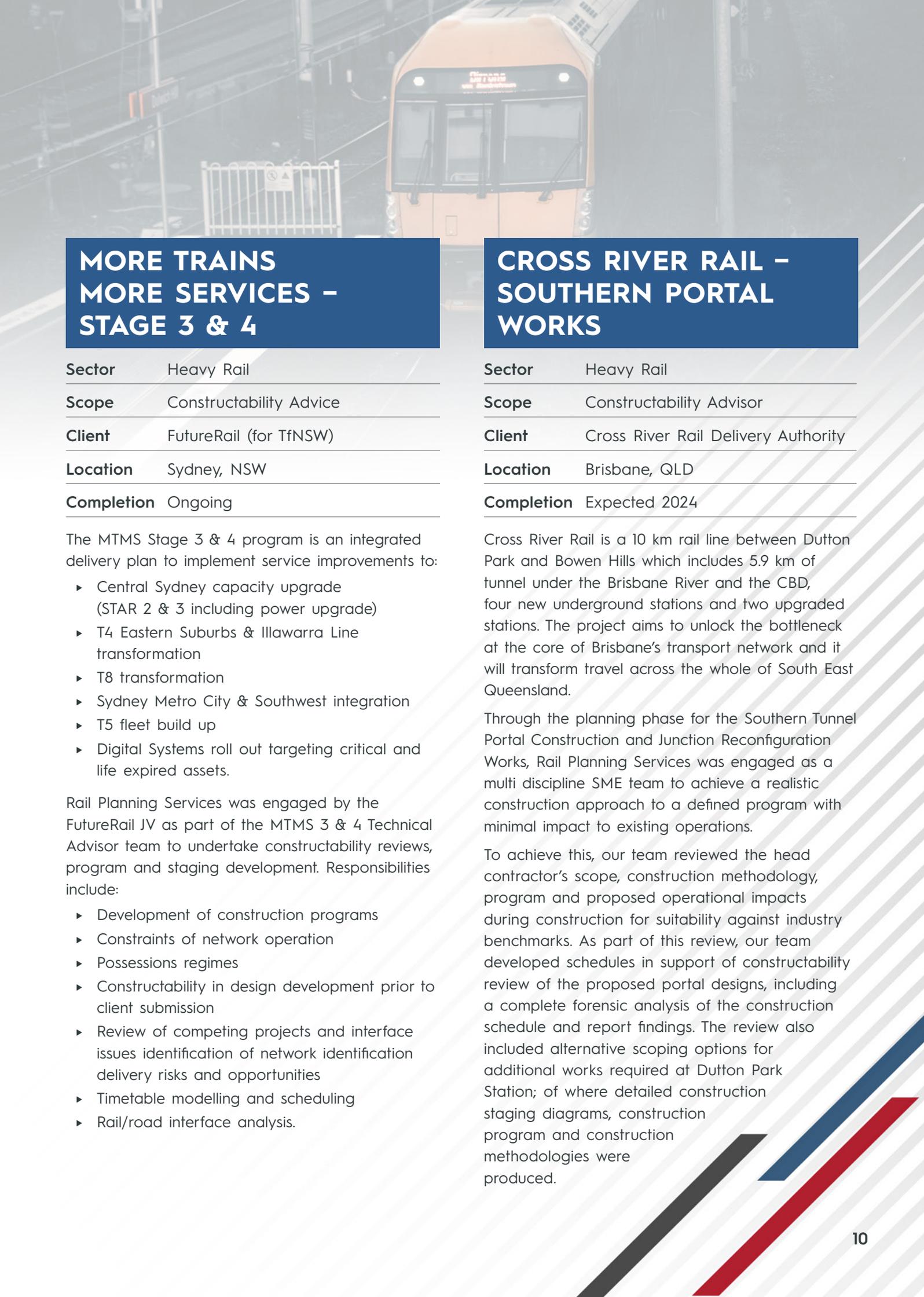
<b>Sector</b>	Heavy Rail
<b>Scope</b>	Constructability Advisor
<b>Client</b>	TfNSW
<b>Location</b>	Sydney, NSW
<b>Completion</b>	Expected 2024

The MTMS Stage 2 program is an integrated delivery plan to implement service improvements on the T4, T8 and South Coast lines. Upgrades include:

- ▶ Central Station platform extensions
- ▶ Signalling
- ▶ Southern stabling options (Wollongong, Port Kembla, Waterfall and Sutherland)
- ▶ Station upgrades
- ▶ Traction power
- ▶ Fire life and safety to the airport line tunnel

Rail Planning Services was engaged by TfNSW to undertake constructability reviews and reports (including staging diagrams) for packages including Sydney Terminal Area Reconfiguration, Airport Line Traction Power Upgrade, Mortdale Maintenance Centre reconfiguration and Hurstville Crossovers. Our team then led negotiation of possession strategies to deliver the works in parallel with other major projects and competition for critical resources. Rail Planning Services also provided constructability advice for major reconfigurations at Waterfall, Wollongong and Port Kembla.

In addition, Rail Planning Services was engaged through the Technical Advisor to develop the designs and optimise constructability while identifying and managing interface issues with other major projects being delivered across the Sydney network including Sydney Metro City & Southwest and Sydney Metro Northwest.



## MORE TRAINS MORE SERVICES – STAGE 3 & 4

<b>Sector</b>	Heavy Rail
<b>Scope</b>	Constructability Advice
<b>Client</b>	FutureRail (for TfNSW)
<b>Location</b>	Sydney, NSW
<b>Completion</b>	Ongoing

The MTMS Stage 3 & 4 program is an integrated delivery plan to implement service improvements to:

- ▶ Central Sydney capacity upgrade (STAR 2 & 3 including power upgrade)
- ▶ T4 Eastern Suburbs & Illawarra Line transformation
- ▶ T8 transformation
- ▶ Sydney Metro City & Southwest integration
- ▶ T5 fleet build up
- ▶ Digital Systems roll out targeting critical and life expired assets.

Rail Planning Services was engaged by the FutureRail JV as part of the MTMS 3 & 4 Technical Advisor team to undertake constructability reviews, program and staging development. Responsibilities include:

- ▶ Development of construction programs
- ▶ Constraints of network operation
- ▶ Possessions regimes
- ▶ Constructability in design development prior to client submission
- ▶ Review of competing projects and interface issues identification of network identification delivery risks and opportunities
- ▶ Timetable modelling and scheduling
- ▶ Rail/road interface analysis.

## CROSS RIVER RAIL – SOUTHERN PORTAL WORKS

<b>Sector</b>	Heavy Rail
<b>Scope</b>	Constructability Advisor
<b>Client</b>	Cross River Rail Delivery Authority
<b>Location</b>	Brisbane, QLD
<b>Completion</b>	Expected 2024

Cross River Rail is a 10 km rail line between Dutton Park and Bowen Hills which includes 5.9 km of tunnel under the Brisbane River and the CBD, four new underground stations and two upgraded stations. The project aims to unlock the bottleneck at the core of Brisbane's transport network and it will transform travel across the whole of South East Queensland.

Through the planning phase for the Southern Tunnel Portal Construction and Junction Reconfiguration Works, Rail Planning Services was engaged as a multi discipline SME team to achieve a realistic construction approach to a defined program with minimal impact to existing operations.

To achieve this, our team reviewed the head contractor's scope, construction methodology, program and proposed operational impacts during construction for suitability against industry benchmarks. As part of this review, our team developed schedules in support of constructability review of the proposed portal designs, including a complete forensic analysis of the construction schedule and report findings. The review also included alternative scoping options for additional works required at Dutton Park Station; of where detailed construction staging diagrams, construction program and construction methodologies were produced.



## TRACTION POWER SCOPE DEVELOPMENT FOR MTMS

<b>Sector</b>	Heavy Rail
<b>Scope</b>	Traction Power SME
<b>Client</b>	TfNSW
<b>Location</b>	Sydney, NSW
<b>Completion</b>	Ongoing

The TfNSW Rail Power Development Team are responsible for 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 was engaged to define power scopes and manage risks associated with delayed delivery including:

- ▶ Airport Line DC modelling & analysis
- ▶ Wollie Creek SS DC modelling/ analysis for new DC feeding location
- ▶ T4/South Coast OHW & DC feeder analysis for latest MTMS2 input timetable
- ▶ Mascot 33kV options analysis
- ▶ Airport Line OHW limits review to reduce scope
- ▶ alternate Hurstville-Mortdale DC feeding assessments
- ▶ overarching AC traction study analysis
- ▶ AC backup scoping analysis and reporting for MTMS4 Strategic Business Case
- ▶ Sydney Terminal DC modelling and analysis to develop upgrade plan 2020-2032
- ▶ STAR 2030 study including developing and assessing DC sectioning options
- ▶ input to 10-year capital power corridor plan development by others (including rail earth volts modelling and analysis of 2030 input timetable)
- ▶ modelling and analysis for STAR SS capacity upgrade trigger point

## ELECTRICAL ISOLATION IMPROVEMENT

<b>Sector</b>	Heavy Rail
<b>Scope</b>	Traction Power SME
<b>Client</b>	TfNSW
<b>Location</b>	Sydney, NSW
<b>Completion</b>	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 provided SME support to the program including electrical isolation processes/ requirements, infrastructure, authorisations, roles & responsibilities. This included experience and support for the various assurance deliverables and activities to ensure compliance to the Electrical Network Safety Rules, ASA Standards and regularity and legislative requirements. In circumstances where the process change did not align with current requirements and or regulations, our team identified and assessed risks and hazards with alignment to SFARP principles.

Other scope included:

- ▶ Engaging with key stakeholders throughout the process assessments to achieve support/ final implementation approval of the process changes and new infrastructure
- ▶ Working closely with the infrastructure stream responsible for the development, procurement, design and construction
- ▶ Managing key stakeholder engagement for the new remotely controlled isolating and rail connecting electrical infrastructure.

## PARRAMATTA LIGHT RAIL - STAGE 1

<b>Sector</b>	Light Rail
<b>Scope</b>	Constructability Advisor
<b>Client</b>	TfNSW
<b>Location</b>	Parramatta, NSW
<b>Completion</b>	Expected 2022

Parramatta Light Rail (PLR) Stage 1 will connect Westmead to Carlingford via Parramatta CBD over 12 km with 16 stops, conversion (and duplication) of the existing Carlingford rail line from heavy rail to light rail and construction of 2 new bridges.

Rail Planning Services was engaged to review and refine the construction method and construction traffic requirements along the entire PLR alignment to enable the definition of the project requirements and interfaces; most notably the Hawkesbury Road works that involved a complex interface with ongoing construction works at the hospital. These construction methods were included within the staging strategy and Scope Performance Requirements.

Our team also assisted in the contract preparation (including associated tender documents) for both the Main and Enabling Works.

## RAIL PROJECTS VICTORIA – PROJECT MANAGEMENT SERVICES PANEL

<b>Sector</b>	Heavy Rail, Light Rail, Metro
<b>Scope</b>	Project Management Services
<b>Client</b>	Victorian Government
<b>Location</b>	VIC
<b>Completion</b>	2030

Rail Planning Services is on the Rail Projects Victoria (RPV) Project Management Services Panel, which includes highly experienced, capable and qualified project management resources to respond to the dynamic and expanding nature of the projects and programs being delivered by RPV.

Projects on the panel include:

- ▶ Metro Tunnel Project
- ▶ Regional Rail Revival Program
- ▶ Victorian Rail Infrastructure Program
- ▶ other projects as required under the Major Transport Infrastructure Authority.

Rail Planning Services has supplied resource options to Rail Project Victoria with a broad depth of experienced resources, with coverage across all the required project management skillsets.



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**Rail Planning Services Pty Ltd**

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