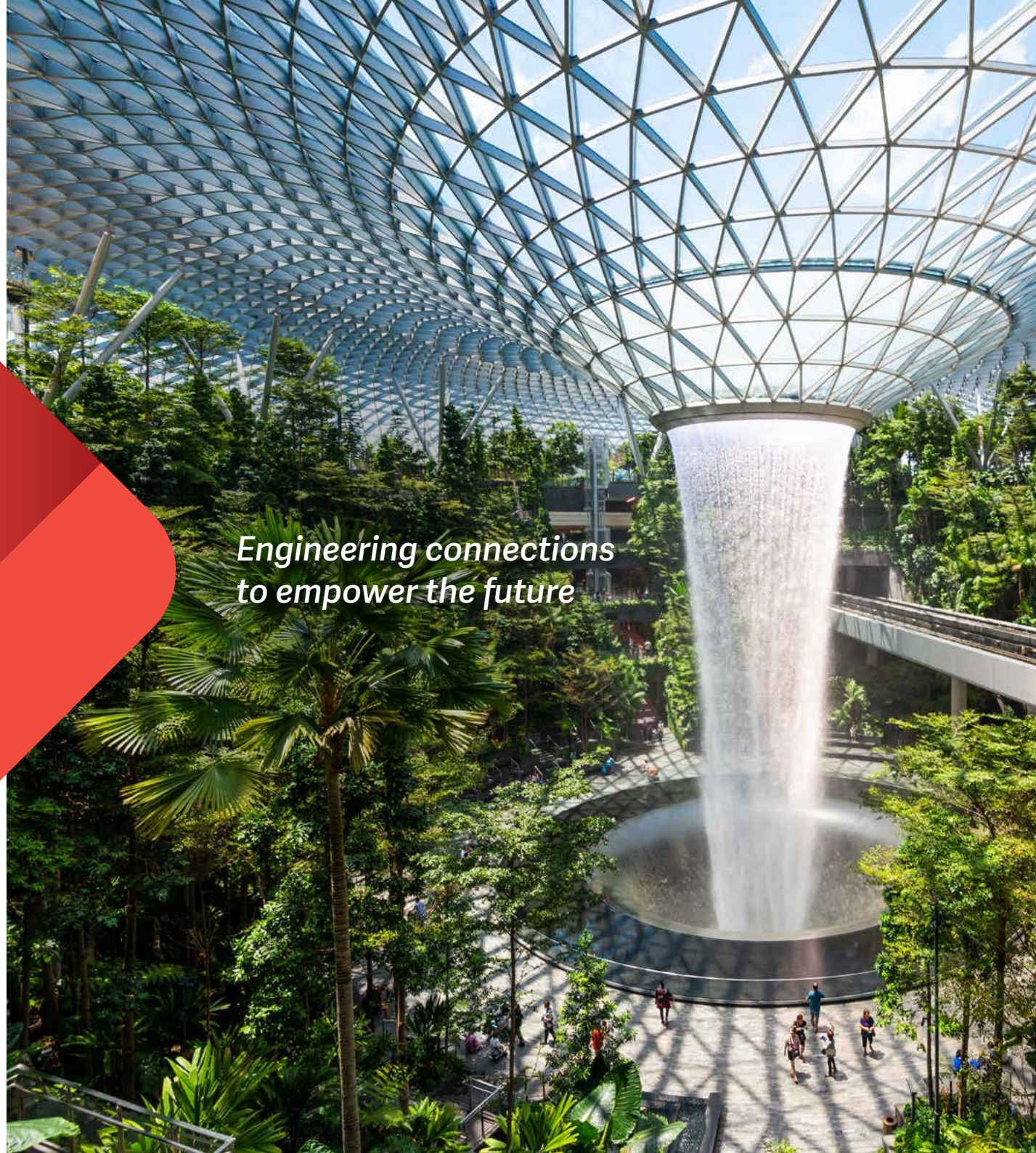




*Engineering connections
to empower the future*



About us



Ingenium is a trusted independent advisory specialising in integrated solutions across the infrastructure spectrum.

We are on a mission to help clients deliver on their commitments. Since 2009, our multidisciplinary expertise has supported project teams to confidently and effectively deliver complex infrastructure projects.

Our vision is of a world where infrastructure projects deliver lasting benefits, connecting communities and facilitating change. Through deep technical knowledge and a commitment to excellence, we simplify and navigate the most complex problems with precision, unlocking value along the journey from inception to delivery and operation.

We believe in the power of one team, working together and supporting each other to challenge norms with care, respect and integrity. This is how we exceed expectations and create lasting, impactful change.

Together, we're shaping a future where certainty, excellence and collaboration are the priorities.

Partner with us as we engineer connections, enable change and transform possibility into reality for generations to come.



Our Commitment to Reconciliation

We are committed to reconciliation and a future where Aboriginal and Torres Strait Islander cultures, knowledge and connection to land and waters, is truly respected and upheld. Ingenium is committed to having a positive First Nations impact by acknowledging, engaging and partnering with Traditional Custodians.

Our Vision

We imagine a world where integrated infrastructure projects deliver enduring community benefits.

Our Mission

Enable Australia's future by creating the connections that make complex infrastructure possible.

Our Values

Respect
Professionalism
Excellence
People First

Ingenium at a glance



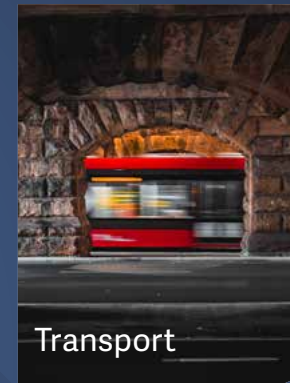
Operations



Ingenium has offices in Sydney, Brisbane and Melbourne.

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

Sectors



Services

- Project Feasibility and Concept
- Project Management
- Constructability
- Asset Management
- Advisory Services
- Communications and Stakeholder Engagement

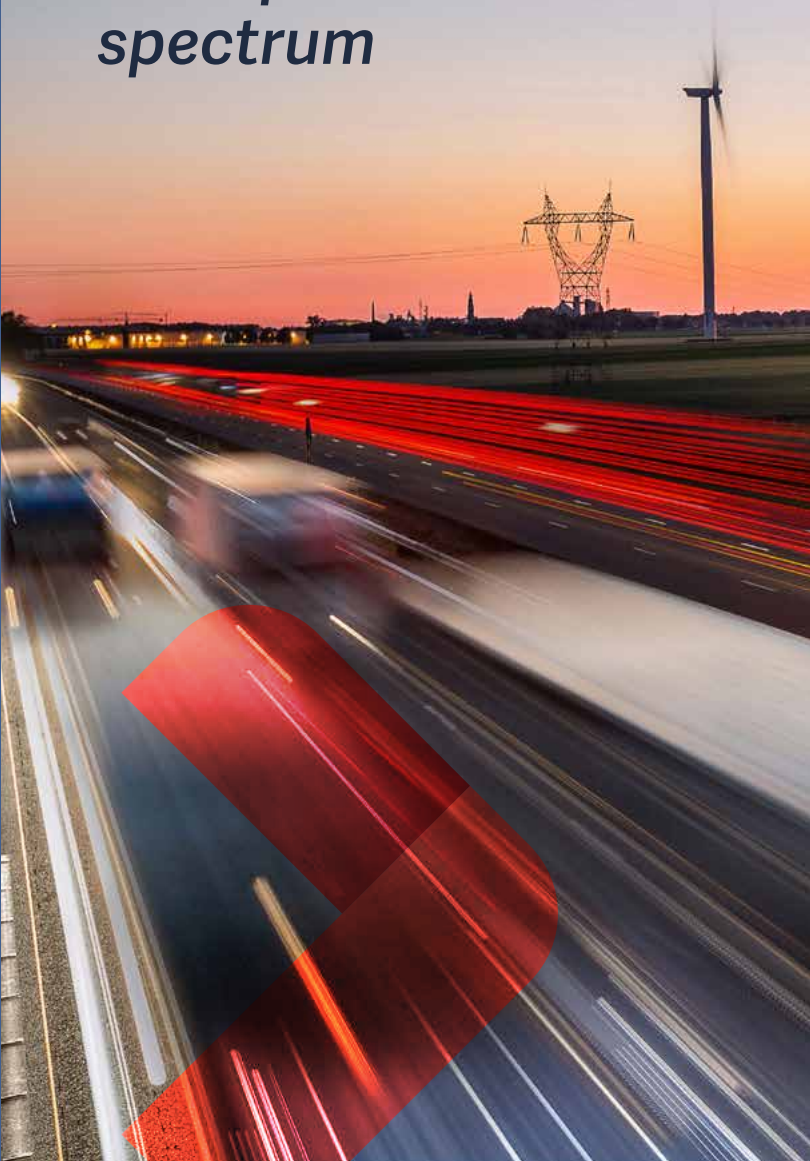


50+
people

20+
partners

650+
projects completed

Ingenium provides integrated solutions across the infrastructure spectrum



Sectors



Energy & Water

Ingenium partners with our clients to plan, procure and deliver energy and water projects in a constantly evolving market.

We work with project developers, asset owners, all levels of government and major energy and water providers, where our deep expertise enables us to respond quickly to client needs, as well as market and regulatory changes. We provide specialist advice across the project lifecycle from business case development, procurement, contract management, advice on 'fit for project' renewable solutions and all project management services.

Transport

Ingenium's project management and technical delivery teams apply their industry expertise and the latest technologies to address complex transport challenges.

We work with the private sector, development companies, professional service providers, and all levels of government to deliver local projects with local impacts, through to state-significant infrastructure that have both regional and national influence.

Be it in road, rail, ports or logistics, our project teams have a deep understanding of our client needs and how to navigate complex regulatory frameworks at all stage of the project lifecycle.

Rail

Our rail sector expertise spans the project life cycle, providing government agencies, infrastructure deliverers, rail operators and their partners with trusted advice.

Ingenium provides up-front cost benefit analysis, options assessment, rail infrastructure management, operational interface and specialist services for rail infrastructure managers, government authorities and rail operators across Australia. We partner with our clients to deliver innovative, safe and reliable solutions that help to navigate a changing regulatory environment, complex technological challenges, assist with asset resilience while also seeking to provide optimisation for network performance.

Social Infrastructure

Ingenium understands the important role that social infrastructure plays in building prosperous and resilient communities.

We partner with our clients to deliver essential infrastructure that help communities function, makes places liveable and helps to improve quality of life.

When truly integrated with economic infrastructure, these projects provide direct benefits to individuals as well as broader social improvements and economic benefits to local communities across the country.

We work with our clients across Health, Education, Arts and Culture, and Emergency Services sectors by ensuring social outcomes are at the heart of decision making, and when combined with our project delivery expertise, we can assist with planning, design and building of social infrastructure projects that deliver meaningful and lasting change.

Services

We are trusted advisors at the forefront of infrastructure planning, delivery, operations and maintenance across Australia.

We offer a combination of technical knowledge, hands-on site experience and management expertise across all phases of the project lifecycle. Our flexible, multidiscipline teams drive projects, large and small, to successful delivery.



Project Feasibility and Concept

Our highly experienced team works with our clients to ensure relevant factors are identified and considered at the front-end of project development.

Drawing on our work across the project lifecycle, the Ingenium team can identify and address risks in the early stages of a project, laying the foundation for successful outcomes.

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

Project Management

We combine extensive technical knowledge and experience to successfully manage and deliver our clients' objectives.

Ingenium brings together all aspects of a project for seamless delivery on multidisciplinary projects, with a focus on operational and maintenance objectives.

- Project establishment
- Interface management
- Program development and monitoring
- Cost planning and control
- Possession planning and management (rail)
- Construction delivery (including site surveillance)
- Operational readiness
- Completion and handover



Constructability

Ingenium's team of constructability experts interrogate design and construction methodology to identify risks and unlock efficiencies, saving our clients time and money.

We understand construction methodology and staging across multiple disciplines, enabling us to identify what's possible, resulting in designs that are intrinsically safer, more economical to build and easier to maintain.

- Design review and constructability assessment
- Optioneering and assessment
- Environment impact assessment input
- Operational/brownfield interface assessment
- Staging solutions
- Critical resource identification
- Possession/closure optimisation
- Worksite safety planning

Asset Management

Our Asset Management experts have extensive practical experience across the asset lifecycle, from concept planning through to operation and maintenance.

Ingenium brings a pragmatic approach to asset management, optimising infrastructure lifecycle costs and maintenance regimes, enabling our clients to deliver more beneficial outcomes.

- Concept of operation assessment
- Strategic asset management planning
- Configuration management support
- Asset management system development and support
- Asset/technical maintenance plan preparation
- Technical investigation and asset review
- Asset management audits
- Green energy option reviews



Advisory Services

Ingenium offers a wide range of infrastructure-related services, delivered by our team of industry leading Subject Matter Experts.

Our one team approach enables us to manage interfaces across engineering disciplines and provide holistic solutions to benefit our communities.

- Multidisciplinary technical expertise
- Compliance/ project health assessment
- Standards review and development
- Electrical system modelling
- Systems optimisation
- Testing and commissioning
- Operations and maintenance
- Incident investigation and review

Communications and Stakeholder Engagement

Ingenium has established a team of communications and engagement specialists who are committed to collaborating with stakeholders and establishing genuine relationships in the communities in which we work.

We partner with all levels of government, industry professionals and the private sector to bring both ambitious and impactful projects to life.

We offer specialist communications and stakeholder engagement services, with local knowledge, across Australia.

- Strategic communications advice
- Community and stakeholder engagement
- Land access and acquisition negotiations
- Media and issues management
- Facilitation

Projects

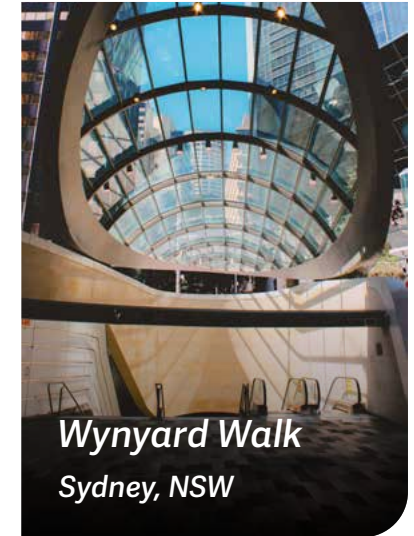
Our projects help to deliver enduring community benefits across energy, water, rail, transport and social infrastructure.

The expertise of our team, our technical knowledge and a commitment to excellence allows us to navigate complex problems with precision and unlock value for our clients from inception to delivery and operation.

An overview of our projects is available at [ingeniumadvisory.com](https://www.ingeniumadvisory.com)



CBD & South East Light Rail
Sydney, NSW



Wynyard Walk
Sydney, NSW



V/Line Asset Management
Victoria



Zero Emission Bus Terminals
Sydney, NSW



Changi International Airport, Terminal 5
Singapore



Sydney Metro City & Southwest

Client:
Sydney Metro

Location:
Sydney, NSW

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

Ingenium provided project management services, working within Sydney Metro implementation groups, to manage the delivery of works in sensitive brownfield areas at Central Station, Sydenham and the Bankstown Line conversion.



Moorebank Intermodal Precinct

Client:
QUBE

Location:
Sydney, NSW

Moorebank Intermodal Precinct houses Australia's first major metropolitan interstate freight terminal and will manage up to 500,000 twenty-foot containers annually.

Our team provided contract and project management services for the construction of the interstate rail terminal, associated storage and warehouse facilities, maintenance facilities and ancillary activities within the precinct.



Cross River Rail (CRR) Southern Portal Works

Client:
CRR Delivery Authority

Location:
Brisbane, QLD

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.



NSW Bushfire Clean-up Program Community Engagement

Client: Laing O'Rourke (for PWA) **Location:** Various, NSW

Peter Whelan led community engagement activities for the NSW Bushfire Clean-up Program in 2019/20. Services included preparing an overarching communications and engagement strategy that ensured consistent messaging and service across the state.

The Bushfire Clean Up Program was awarded the 2020 Premier's Award for Recovery and Resilience.

Traction Power Scope Development for MTMS

Client: Transport for NSW **Location:** Sydney, NSW

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.

Ingenium is engaged to define power scopes and manage risks associated with delivery and timetable implementation, including modelling and analysis.

Roads Asset Data Collection with AI

Client: Fedasen (for DTP) **Location:** Various, VIC

The Department of Transport and Planning (DTP), Victoria is looking to automate asset survey and condition monitoring, and associated operation and maintenance procedures, with the use of artificial Intelligence (AI).

Fedasen engaged Ingenium to assist with the collection of road asset data, based on an established asset hierarchy and defined data attributes, across the state's road network.



HumeLink West

Client:
UGL (for Transgrid)

Location:
Sydney, NSW

HumeLink is one of the state's largest energy infrastructure projects, involving the construction of 365km of 500kV transmission line and multiple new or upgraded substations.

Ingenium has been assisting UGL's Transmission Line Design Team by providing design interface management between electrical, civil and structural design teams for various packages, including electrical, structure, foundation and line design.

Sydney Metro Engineering Design Solutions

Client:
Mott MacDonald

Location:
Sydney, NSW

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

Our Constructability team provided constructability advice associated with the preparation of concept designs and planning approvals. Our team ensured that constructability considerations were integrated into the design solutions, to minimise potential impacts during construction.

Rail Deflection Testing Bendigo Echuca and Shepparton

Client:
Coleman (for V/Line)

Location:
Various, VIC

V/Line proposed to increase the speed for passenger trains on these lines and required assessment of 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. We were appointed by Coleman to assist with developing a plan for the upgrading of the Echuca and Shepparton lines.



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