



SINCLAIR KNIGHT MERZ

WHERE TO FIND US:

With offices across Australia, Europe, Middle East, New Zealand, the Pacific Islands, South America and South East Asia our aim is to deliver our leading skills across the globe.

Sinclair Knight Merz employs several thousand staff and our professionals enjoy excellent relationships with business and government contacts in regions where we operate.

We have extensive experience working with the leading financial institutions, aid agencies and other non-government organisations.

CONTACT:

For further information on our range of services and office locations visit our website or contact:

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Design: SKM Graphics



infrastructure

our commitment to clients



Ensuring our clients achieve remarkable success - the result of our passion for excellence in service, technology and innovative solutions.

SINCLAIR KNIGHT MERZ helps key public and private sector clients create a sustainable future for all by delivering innovative and effective solutions on infrastructure projects that balance the needs of today with those of tomorrow.

An Overview:

The global Infrastructure market has been undergoing a renaissance, fuelled by strong economic growth and a desire for improved transportation links and systems within cities and regions.

Public and private sector spending in this market has increased, resulting in the need for innovative approaches in the application of professional advice.

Sinclair Knight Merz (SKM) has extensive experience in the planning, engineering design and construction management of all infrastructure elements.

We service this market with our strong combination of civil and structural engineers, along with transport planners, traffic engineers, signalling designers, environmental scientists, urban planners and economists.

Along with our extensive global track record in engineering and project delivery, our breadth of skills and depth of expertise enables us to provide a unique service in strategic planning, public private partnerships (PPPs) and sustainable development.

Our specific expertise lies in the following market segments:

- Aviation
- Highways and Roads
- Maritime
- Rail
- Traffic and Transport Planning
- Urban Infrastructure

Our experience encompasses a broad range of projects such as award winning tourist resorts, road design and maintenance, highways, port developments for major resource operations, light rail projects, and upgrades to airports to meet increasing demand and cater for the arrival of new, larger passenger aircraft.

We place a strong emphasis on client relationships and pride ourselves on an ability to create positive project scenarios that benefit the business outcomes for our clients. Our practitioners are leading deliverers of sustainable economic infrastructure.



TIM BOYLE | GENERAL MANAGER | INFRASTRUCTURE

GLOBAL STRENGTH



SKM is a long established independent professional project delivery organisation with a team of several thousand professionals working out of offices in major business centres across the globe.

We work in close partnership with strategically selected clients to advise on, assess, develop and manage the delivery of significant and iconic infrastructure and development projects.

Our selected clients are the enterprises that build nations and shape industries.

We openly invest our considerable skills, energies, resources and innovation to build lasting, mutually-prized relationships with our clients.

As a result, we are looked upon not merely as an external supplier, but perceived as a valued and integral component of their organisation and their ideal future.

We support them wherever they choose to do business, in the markets they embrace and wherever in the world their aspirations take them.

Through this approach, we ensure that our clients achieve remarkable success in their endeavours and that they enjoy the consequent market recognition and accolades.



Our hard earned reputation as a leading service provider to the Infrastructure market has been earned through involvement in many successful, award winning projects.

This includes projects carried out by SKM in its own right, along with those undertaken in partnership with government agencies, financiers, contractors and other major engineering firms.

We have built our business on a solid foundation of professional excellence, strong ethics and services focused on helping our clients achieve their business objectives.

Various cooperation and technology associations have been established with specialist international organisations to keep our professionals abreast of the latest developments in technology.

SERVICES

- Project planning and approvals
- Patronage and forecasting
- Environmental assessment
- Engineering design
- Project verification and due diligence
- Project management
- Asset management and maintenance
- Contract documentation and administration

FROM LEFT

- Independent Engineer, Eastern Distributor, Sydney.
- Capability developed in tunnelling.
- Studies conducted into transport links to Scottish Airports.
- Development of airport terminals across the globe.

AVIATION



Airports are the interface between air and surface transport.

To enable both passengers and cargo to move efficiently and cost effectively from origin to destination, all elements of the complex process must be well-planned, designed, constructed, maintained, operated and managed.

These tasks must be done in an environmentally responsible way to ensure the airport is a good neighbour in the community that it services.

Our specialist aviation capability now covers a full range of services relating to airports and the aviation industry.

We also provide financial and economic advice on airport privatisation, infrastructure investment and airline commercial development.

As well as providing technical and operational advice, studies have been undertaken for Government departments, airlines and airport authorities in over 50 countries worldwide.

Our team provides skilled resources in economics, maintenance, freight and passenger operations, land and airside development, marketing, market research, finance and information technology.

Our projects range from masterplanning for 'greenfield' airports to upgrades for A380 services.



We are skilled at the design and construction management of upgrades at major operational hubs, while our pavement engineers enjoy an excellent reputation.

Our structural engineers have designed some of the most recent, iconic airport terminals and our skills and credentials in aviation security are highly regarded.

SERVICES

- Airport planning and location studies
- Air traffic forecasting
- Institutional restructuring and investment appraisal
- Financial appraisals
- Economic, including environmental impacts
- Terminal facility sizing and passenger flow modelling
- Airport catchment area analysis
- Operational and fleet planning studies
- Air traffic control routing and equipment studies
- Airline and airport passenger surveys
- Freight and express parcel/courier studies
- IT planning and feasibility studies
- Land use planning at airports
- Environmental management plans
- Ground transportation plans

FROM LEFT

- New access road, International Terminal, Sydney Airport.
- Unravelling Auckland's Central Motorway Junction.
- Melbourne's City Link Road Project.

HIGHWAYS AND ROADS



The development of highways and roads encompass much more than just engineering.

SKM's breadth means that we hold the full range of skills, in house, required for a highway engineering project.

This provides public and private sector clients with simplified project management control and also, through improved activity coordination, more efficient design processes.

SKM is experienced in all aspects of road developments from initial planning and feasibility through to concept and detailed design and construction management.

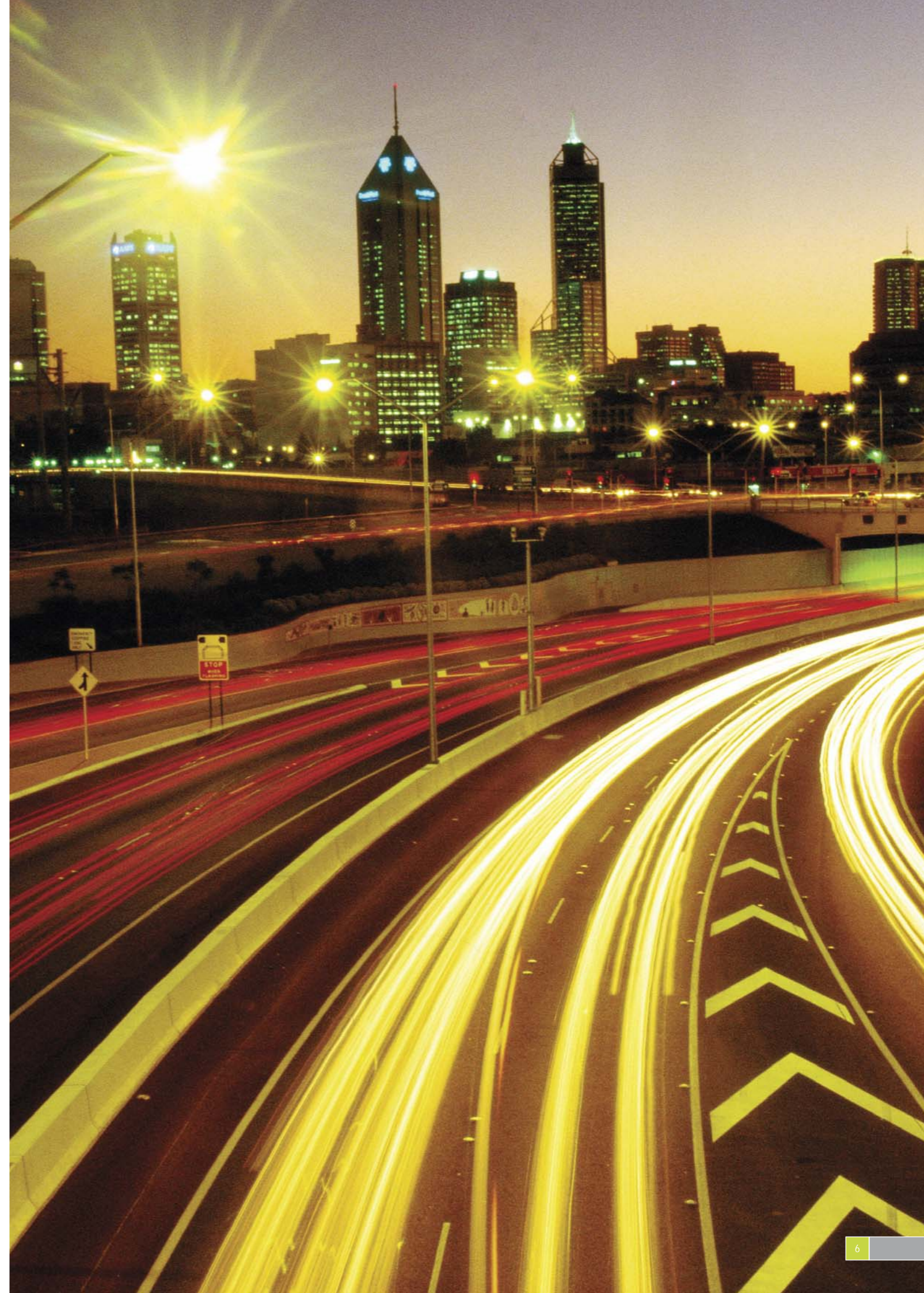
We are equally at home in dealing with urban and rural roads or major highways and tollroads.

In recognition of the increasing demand for underground engineering expertise, SKM has acquired and developed expertise in tunnel design and construction and associated geotechnical engineering.

Our expertise also covers road system management and policy formulation.

SERVICES

- Public consultation
- Road and transport studies including road transport logistics
- Route selection
- Economic and environmental appraisals
- Road, bridge and tunnel design
- Geotechnical and pavement design
- Traffic engineering
- Contract documentation and administration
- Project management and site management
- Independent verifier
- Total asset management, maintenance planning and programming
- Lighting, road furniture design, road safety audits
- Intelligent transport systems and electronic tolling
- Alliance/D&C/BOOT experience



FROM LEFT

- Lautoka Port, Fiji.
- Expanding port facilities for the Resources sector on Finucane Island, Western Australia.
- Port upgrade linked to West Angelas Iron Ore Project, Western Australia.

MARITIME



The demand for the faster distribution of goods to their respective markets is driving the growth of the global maritime market.

For maritime projects, SKM has a significant depth of resources with specialist maritime experience to service this need.

Our team of highly skilled and experienced infrastructure engineers, designers and project managers work as a seamless, focused group to deliver innovative solutions in this area.

We are able to offer clients a comprehensive range of services through our many in-house specialists, affiliations and wide network of industry contacts.

This ability has led to winning work on major projects in India, Malaysia, other parts of South East Asia, the Pacific and Australasia.

Areas of specialist skill include port planning, structures and operations, along with dredging and reclamation, coastal process and environmental protection.

SKM also provides services in other areas associated with coastal and port development projects, including pavements, drainage, roads, port buildings and associated services, environmental planning, wastewater treatment, water quality, contaminated materials disposal and flood control.

SERVICES

- Port planning and development
- Dredging and reclamation
- Upgrading and repairs
- Materials handling
- Small craft facilities
- Coastal processes and coastal protection
- Environmental studies
- Logistics
- GIS systems and data management services



FROM LEFT

- Historic Abt Rail Project, Tasmania.
- Light Rail work in Melbourne.
- Successful completion of Dublin's new Light Rail system - The Luas.

RAIL



Railways throughout the world are currently experiencing substantial investment, as it becomes clear that fast, efficient and sustainable transport links are essential for economic growth and sustainable industries.

This resurgence is driven by the growth in demand for transport services and an increasingly commercial approach to rail transport.

We pride ourselves on an ability to provide authoritative technical advice and recommendations on standards and matters related to track geometry, structure, materials, associated tools, equipment and processes and associated infrastructure.

This advice extends to railway signal engineering including train control systems, interlocking, automatic signalling and level crossing protection.

Our teams also have strong skills in efficiently developing innovative, aesthetically pleasing railway infrastructure (e.g. bridge structures) that are visually appealing, yet in harmony with the surrounding environment.

We have developed a large suite of GIS and data management and administration software systems for maintaining assets and infrastructure records.

SERVICES

- Feasibility studies
- Transport economics and planning
- Planning and project management
- Track and civil engineering
- Overhead wiring and traction power
- Bridges and tunnels
- Structural engineering
- Structural dynamics
- Signalling and telecommunications
- Rail freight and logistics
- Railway operations
- Asset management



TRAFFIC AND TRANSPORT PLANNING



With the growing emphasis on sustainable urban development, governments are regularly faced with the difficult issue of developing and adapting integrated transport systems to suit the changing mobility demands of the population.

SKM works with all levels of Government and the private sector to develop transport planning strategies that will achieve integrated and sustainable urban transport systems.

We advocate taking a long-term, sustainable view of the functions of the entire public transport system, of the objectives it is to meet, and of the policies and practices to be adopted to best achieve these objectives.

Our services include the development of policies, implementation of multi-modal strategies, detailed plans and estimates of budget allocations to meet our clients' specific requirements.

We also have the capacity to model individual intersections or lengths of roads, local areas and extended transport networks and undertake demand forecasting.

The company uses the full suite of traffic and transport models to achieve the objectives set by clients.



SERVICES

- Transport modelling and demand forecasting
- Strategic transport planning
- Development approvals and transport assessments
- Traffic and transport surveys and analysis
- Road and traffic safety audits
- Public transport planning and engineering
- Community consultation
- Economic evaluation

FROM LEFT

- Integrated transport management skills.
- Planning for the Docklands Light Rail in London.
- Harvest Lakes Development, Western Australia.
- The Award winning, Couran Cove Eco-Tourist Resort, Queensland.

URBAN INFRASTRUCTURE



Identifying, assessing and integrating social, environmental and economic outcomes into the planning design and construction of new development projects is the mantra for urban infrastructure professionals at SKM.

By definition, urban infrastructure comprises siteworks, earthworks, roadworks, stormwater drainage treatment and management, water supply and integrated water management, sewer reticulation, water features (lakes, lagoons etc.) and associated utility services.

Our aim is to ensure that sustainability initiatives are primary considerations, while adding value to our client's projects through the provision of engineering and environmental solutions.

The firm has successfully delivered a number of significant, innovative and award winning projects.

These range from master planned communities to major resort projects, industrial estates and the integrated development of townships.

Our professionals have a proven track record of success in securing approvals for complex and difficult developments.



The SKM team, with strong skills in planning, design, documentation, construction management is able to provide reliable solutions on time, and which exceed expectations.

SERVICES

- Full range of engineering services
- Site identification and analysis
- Environmental management
- Strategic advice and planning for urban release areas
- Feasibility studies
- Preparing and obtaining development approvals
- Design and documentation
- Tender Process Management
- Construction management
- Contract administration
- Land disposal
- Resolution of legal and titling issues

OTHER SERVICES



SKM's strategy is to maintain stability by practising across several chosen market areas.

Aside from the Infrastructure market, SKM operates in the following market sectors:

- Buildings and Property
- Power and Industry
- Resources
- Water and Environment

BUILDINGS AND PROPERTY

SKM is a leader in the buildings and property sector, providing leading edge design, planning and advisory services to public and private sector clients.

Particular skills have been developed in sustainable building design and implementation.

Our consultants add value to the process through an understanding of the built form.

A multi-disciplinary approach is provided in strategic planning, design and documentation and specialist engineering advice to clients in the infrastructure sector.



This also includes:

- Architecture
- Quantity surveying
- Facilities condition and compliance auditing
- Interior design
- Modular buildings logistics and fire engineering

POWER AND INDUSTRY

Across the Power and Industry sector, SKM provides an innovative array of services.

We offer management and technical consultancy skills, engineering design and management service for power project development, operation, power delivery engineering, due diligence and asset valuation.

We have completed numerous assignments as Lenders or Owners Engineer relating to EPC contracts.

FROM LEFT

- Conducting a range of environmental planning studies for infrastructure projects.
- Satellite imagery capability.
- Northparkes E26 Mine, New South Wales.
- The Prospect Water Filtration Plant supplies water to approximately 80% of Sydney's population.



RESOURCES

SKM provides whole of mine life services from feasibility, capital project delivery to mine closure planning and decommissioning.

Our Resources team is working on the development of facilities in many sectors, such as iron ore, nickel, coal, alumina, mineral sands and copper.

SKM's highly skilled and experienced infrastructure engineers, designers and project managers work as a seamless, focused group to deliver innovative, cost effective solutions.

This expertise covers areas such as:

- Earthworks and drainage systems
- Airstrips and associated facilities
- Marine and port facilities
- Rail systems and signalling
- Access, site and haul roads



WATER AND ENVIRONMENT

SKM is a leading environmental consultancy, with a growing global practice.

We employ qualified environmental scientists, engineers, planners, economists, hydrogeologists and social scientists with specialised skills in all facets of environmental management.

Environmental management is the key to success in developing ecologically, socially and environmentally sustainable projects.

Our team provides services across a broad range of industry sectors:

- Environmental Science
- Environmental Planning
- Environmental Engineering
- Natural Resource Management
- Spatial