



SYSTRA

SYSTRA IN ANZ



CONFIDENCE MOVES THE WORLD

ENABLING THE DIVERSE COMMUNITIES OF ANZ TO THRIVE

ACKNOWLEDGMENT OF COUNTRY

In the spirit of reconciliation, Systra ANZ acknowledges the Traditional Custodians of Country throughout Australia and their connections to land, sea, and community. We pay our respect to their Elders past and present and extend that respect to all Aboriginal and Torres Strait Islander peoples today.



SYSTRA AT A GLANCE

SYSTRA is one of the world's leading engineering and consulting groups specialised in public transport and mobility solutions. Headquartered in France, the business was originally established through the merger of the consultancy arms of French national railway SNCF and Paris transport operator RATP, who remain sole shareholders.

For more than 65 years, the Group has worked alongside cities and regions, contributing to positive development by creating, improving, and modernising their transport infrastructures.

The ANZ team is an integral part of the SYSTRA global network, backed by 10,000 plus experts, providing us the unique ability to be agile with global scale.

With our first project in Australia almost 20 years ago, we opened our first permanent office in New Zealand in 2022. In 2023, we strengthened our experience in underground engineering with the acquisition of Bamser, providing multi-disciplinary services to the transport, utilities, mining and energy sectors.

SYSTRA ANZ continues to go from strength to strength, expanding in both geography and head count. When a project is complex, high risk and requires deep technical skills and pedigree, SYSTRA ANZ is the signature team.

OUR VALUES



EXCELLENCE

Rooted in our engineering culture, excellence is an objective and a way of doing things. Our clients and projects are ambitious and demanding. Our commitment to design and deliver the best solutions is our promise drawn from trust, performance, and sustainability.



CONNECTED TEAMS

We connect our experts throughout the entire Group and coordinate them to respond to the most complex issues. By going beyond cultural and technical challenges, we create teams united around the same objective, in which the talent of each individual contributes to the success of all.



BOLD LEADERSHIP

The projects we accompany profoundly transform mobility. Through our capacity for innovation and project management know-how, we provide fresh answers for our clients and the bold leadership necessary for change. Our task is to consider, design, and imagine today the mobility solutions of tomorrow.



OUR APPROACH



We bring deep local knowledge and connection supported by best-in-class global expertise.

We have a strong local team that understand client needs/expectations and have delivered successful projects for over a decade. The ANZ team is an integral part of part of our global network of experts, providing us the unique ability to be agile with global scale. This proven model brings close to 70 years of experience throughout the world to each and every job, anchoring and contextualizing world leading expertise with on the ground presence for a seamless client experience.



We understand and maintain alignment to the big picture.

We stay focused on delivering positive outcomes and lasting impact for clients and communities. By enabling critical infrastructure, allowing people to interact and mobilise with purpose, we are committed to improving the liveability, loveability and connectedness of communities, bringing people closer to healthcare, jobs, education, and leisure.



We think about end users from day 1.

Our diverse team thinks holistically, combining technical and human centred disciplines, we inspire confidence in the communities that we serve, providing safe and resilient infrastructure solutions.



We are an experienced and trusted partner.

We are open, honest, and adaptable, making it easy for clients and partners to work with us as we help unlock opportunities, overcome challenges, and deliver world leading solutions and technical expertise.



With confidence, we help the world move forward.

We specialise in resolving highly technical, complicated problems, founded from our global operational knowledge to manage risk, provide certainty and assurance - when its high risk and difficult, our team excel.



SECTORS

We provide specialist technical expertise, founded from our global operational knowledge to manage risk and provide certainty and assurance.



RAIL

SYSTRA has forged a reputation for creating railways that connect cities and support economic and social development. We are involved in the design and construction of new lines and in the modernisation and upgrade of existing links, meeting the highest technical standards and the most stringent environmental requirements.



ENERGY & SUSTAINABILITY

We deliver holistic sustainability and energy outcomes throughout the project cycle, designing and delivering projects with the future in mind including the impacts of climate change, resource efficiency, governance, and procurement.



STATIONS & BUILDINGS

We are experienced in placemaking for stations and buildings, transforming them into memorable spaces for communities.



SECURITY & TECHNOLOGY SOLUTIONS

We provide specialist engineering and technical services to a range of Defence, Security and Technology clients.



URBAN TRANSIT

We have over 65 years of experience in urban transport modes and mobility solutions for cities, from the hypercentre to the outskirts.



INDUSTRIES

SYSTRA anticipates the challenges of tomorrow by advising on, designing, and delivering transport infrastructure including roads, highways and airports.



BRIDGES & TUNNELS

SYSTRA has a dedicated international network of experts involved in the entire production chain of bridges and tunnels. We design all types of major structures including viaducts, tunnels and bridges.



SERVICES

We support our partners and clients with a range of services that are designed to solve the most complex problems throughout the whole project lifecycle.



ASSET MANAGEMENT

Assist in making the best asset investment and maintenance decisions by helping you understand state of wear and tear, ageing, financial values, causes of deterioration, investment and/or maintenance scenarios, etc.



DESIGN & DELIVERY

Assemble recognised specialists across route layouts, geotechnology, earthwork, structures, tunnels, environment, rail systems, rollingstock and maintenance to solve the most complex engineering problems.



DIGITAL SOLUTIONS

Digital modelling and decision-making supported by a suite of digital tools to improve project outcomes and streamline efficiencies.



SPECIALITY ENGINEERING

Apply a Systems Engineering approach in line with ISO15288, and ensure new or modified systems will be safe, reliable, and maintainable.



PROJECT MANAGEMENT & ADVISORY

Advise and manage activities through all stages of a project lifecycle, ranging from development of business cases to design to construction, commissioning, operation, and maintenance.



OPERATIONAL INTEGRATION

Achieve operational efficiency and significant safety improvements by factoring the human element within systems and organisations (Human Factors) and reach tailored and efficient solutions for transport networks (Transport Planning).



SYSTEMS INTEGRATION

Help to integrate and connect multiple technologies, networks, structures, and stakeholders to improve the efficiency, safety and sustainability of transport and mobility systems.



UNDERGROUND ENGINEERING

Design and rehabilitate underground structures, bringing expertise throughout the asset lifecycle to optimise both operating and maintenance performance, while reducing costs and delivery times.



TRANSPORT PLANNING

Develop fully integrated, future-focused transport plans that address the priorities of local, regional and national transport strategies.



SIGNATURE PROJECTS



Long Term Recycled Water Release Plan

City of Gold Coast Council is upgrading and expanding the city's recycled water network to provide a climate-resilient, affordable and fit-for-purpose recycled water supply. SYSTRA Bamser is the Delivery Support Services Consultant, ensuring trenchless aspects of the project are managed and completed successfully within an acceptable risk profile. The project aligns with SYSTRA's focus on environmental responsibility and sustainability, in the context of natural resource management and the climate emergency.



Queensland Train Manufacturing Program (QTMP)

In a joint venture with EGIS, SYSTRA ANZ has been selected as Independent Certifier (IC) for QTMP. QTMP represents the biggest investment in new rolling stock in Queensland's history. The project includes the construction of 65 six-car passenger trains, a purpose-built manufacturing facility, a new rail facility, plus ongoing operation and maintenance. With QTMP we continue to build on our reputation as a trusted independent advisor providing best-in-class IC services.



Sydney Metro

By 2030 Sydney will have a network of four metro lines, 46 stations and 113km of new metro rail connecting Sydney's northwest, west, southwest and greater west to fast, reliable turn-up-and-go services with fully accessible stations. SYSTRA ANZ has been engaged to deliver independent certification, digital engineering development and implementation, human factors design, tunnel project engineering and constructability advice (SYSTRA Bamser). We are proud to contribute to Australia's biggest public transport project that will transform and revitalise community spaces and enhance Sydney's liveability and culture.



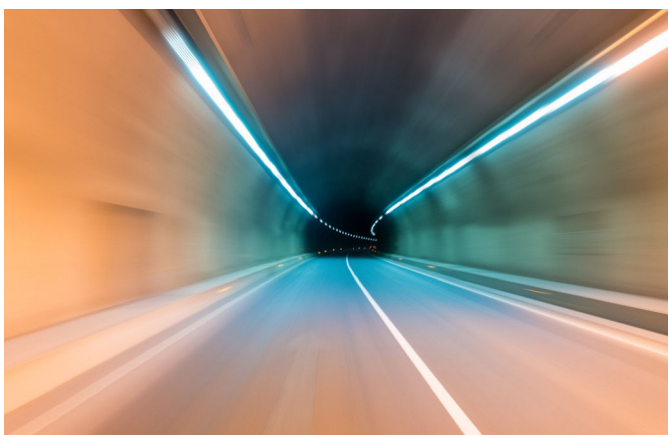
Cross River Rail

A 10.2km rail line that will alleviate bottlenecks and increase overall network capacity in Brisbane. Hitachi Rail STS has engaged SYSTRA ANZ to perform and manage the Human Factors scope for the project, including integration of ETCS onboard equipment into existing rolling stock, design, and implementation of ETCS trackside, and development and integration of the ETCS and Traffic Management System into existing control rooms and control operations. The strength of SYSTRA's human factors expertise ensures that solutions are designed and developed with consideration of end-user needs and assurance of system safety and performance.



Level Crossing Removal Authority

SYSTRA ANZ was appointed to the Level Crossing Removal Authority Panel to help accelerate and streamline disruption planning on behalf of Metro Trains Melbourne (MTM). A digital planning decision making platform was developed – Bus Disruption Tool – to enable the dynamic calculation of optimal replacement bus services and associated KPIs essential to managing rail service disruption plans. With foresight and innovation at the heart of our DNA, SYSTRA's targeted digital solutions help tackle some of the most complex problems facing our communities in a way that improves outcomes and streamlines efficiencies.



NorthConnex

A 9km twin tunnel linking the M1 Pacific Motorway at Wahroonga to the Hills M2 Motorway at West Pennant Hills to provide faster, safer, more reliable, and efficient journeys for road users in Sydney's north. SYSTRA ANZ delivered support testing and commissioning of motorway subsystems and SYSTRA Bamser provided specialist surveillance officers for construction works and supported in-tunnel pavement fit out works. Our excellence in underground engineering enables us to deliver solutions that improve freight access, connectivity and reliability and reduce congestion and pollution for local communities.



LAND 200 Program

The LAND 200 Program will deliver a new tactical communications network for the Australian Defence Force. As part of the Team Downer consortium, SYSTRA ANZ delivered project transformation and leadership capability, including the introduction of new project methodologies and implementation of change management strategies. As an experienced and trusted partner, SYSTRA successfully overcame challenges to unlock opportunities and deliver best-in-class project management expertise.



Kidston Pumped Storage Risk Review

The Kidston Pumped Hydro Project is the flagship project of the Kidston Clean Energy Hub, located in Far-North Queensland. It is a world first project whereby an abandoned gold mine will be utilised to generate up to 250MW storage. SYSTRA Bamser assisted a large Australian contractor by providing specialist due diligence advice for the potential Early Contractor Involvement (ECI) in the project. Specifically, SYSTRA Bamser provided support by reviewing the feasibility study, participating in the underground construction workshop, generating geotechnical information, developing a risk review report, and identifying opportunities to further develop during the ECI project phase.





Newcastle Light Rail

Transport for NSW appointed SYSTRA ANZ as Independent Safety Assessor for the Newcastle Light Rail, a 10.2km light rail track running from Wickham Transport Interchange to Pacific Park. The high-capacity transport system cuts city centre congestion, connects key activity precincts, and provides a frequent, reliable, and comfortable travel option through the centre of Newcastle. SYSTRA is the signature team for innovative, sustainable, and modern light rail transit systems, with projects in more than 40 towns and cities around the globe.



Waitemata Harbour Connections – NZ

The project will provide a fully multi-modal solution for people to walk, cycle, travel by bus or light rail, drive, or transport freight across Waitemate Harbour. In a joint venture partnership, we are responsible for transport planning, solutions design, cost estimation and benchmarking, and delivery for the project's next phase. SYSTRA ANZ continues to go from strength to strength, expanding our presence in New Zealand and driving the delivery of projects that enable the diverse communities of Aotearoa to thrive.



Bordeaux Light Rail – France

The Bordeaux tramway network has become a symbol of urban revival in France. From 1997 to 2020, SYSTRA led the TISYA Consortium, overseeing the design and construction of four tram lines. By maximizing transport options and reducing road congestion, the network enhances the architectural charm of Bordeaux's historic center. This success is evident with a well-connected system of four lines, catering to activity hubs, employment centers, residential areas, and tourism. The network now moves over 100 million passengers annually, showcasing the transformative impact of efficient public transportation on Bordeaux's mobility landscape.



Brenner Base Tunnel – Italy

The Brenner Base Tunnel is an intricate tunnel system characterised by its complexity and extensive length. Running 55km, it ranks among the world's longest underground railway stretches. The project posed significant engineering challenges due to the intricate geometry and diverse geological conditions encountered. From 2016 to 2019, SYSTRA's services included Tunnel Boring Machine selection, detailed design based on BIM models, MEP design, and technical assistance during construction for this €993 million project in Italy.



Grand Paris Express – France

SYSTRA is a key player in Europe's largest infrastructure project, the Grand Paris Express, which aims to revolutionize mobility in Île-de-France. The project features four new automated metro lines, comprising nearly 200 km of new tracks and 68 stations, effectively doubling the existing Paris metro while connecting more cities across the region. This modern transport network will be accessible to 90% of inhabitants within 2 km of a station, and is expected to transport over 2 million passengers daily. SYSTRA's expertise is essential to the project, with the group involved in all phases from initial studies in 2011 to the expected completion in 2030.



HS2 – UK

After working on HS1, the first high speed rail (HSR) line in the United Kingdom, SYSTRA is a key player in the HS2 project to increase rail capacity for more local, regional and freight services. In two joint ventures, SYSTRA is delivering civil engineering design services for lots N1 and N2, and construction of the new Old Oak Common Station, the largest railway station to be built in London for a century. We are proud to be a global leader in the HSR space, delivering sustainable, low emission transport solutions that connect cities and regions delivering real impact on economies and communities.



Atlantic Bridge – Panama

The Atlantic Bridge, opened in August 2019, is the world's longest concrete cable-stayed bridge connecting South America and North America. Designed to accommodate the largest Post-Panamax containerships, the bridge boasts a record-breaking 530-meter concrete main span. SYSTRA's Global Bridge Centre of Excellence, with offices in San Diego and Dubai, contributed to the project's design and construction. The 3-kilometer-long bridge was built without disrupting traffic on the vital Panama Canal, utilising innovative methods such as precast and cast in-situ concrete segments and simultaneous deck and tower erection.



Electrifying Bus Transport Centre – Canada

SYSTRA Canada was assigned to support Société de Transport de Montréal (STM), Canada in developing infrastructure for their future electric bus fleet. SYSTRA Canada conducted a feasibility study on the Bellechasse bus garage, identifying the needs for infrastructure to accommodate for 210 electric buses. SYSTRA's responsibilities included electrical capacity analysis, layout scenarios for bus recharging, equipment inventory, technical descriptions, design elements and financial profitability analysis. The 18-week contract aligned with SYSTRA's global strategy to be a significant player in innovative transport solutions, particularly in electro mobility.



European Bus Rapid Transit 2030 (eBRT2030)

eBRT2030 seeks to support sustainable urban transport by proposing innovative solutions for electric Bus Rapid Transit (BRT). A major milestone in electric mobility, eBRT2030 aims to demonstrate the applicability of a new generation of eBRT systems in different urban contexts with innovative solutions that are economically viable and enhanced with new automation and connectivity functionalities. As one of 45 partners from across the EU, SYSTRA is involved in the definition of all use cases and eBRT demos, the definition of a predictive maintenance strategy connected to IoTs and Technical Evaluation of the demonstrations in 7 cities in regard to the system technical and operational performance.



CarbonTracker

Decisions taken at the design phase of a project predetermine the majority of emissions from the infrastructure over its entire life cycle. CarbonTracker helps anticipate the impacts of a project and take the right decisions. The tool measures, monitors and controls carbon emissions at each phase of the project.

Backed by a specific carbon database compatible with BIM technology, it is a sustainable design tool that adapts to your project data.

OUR ESG COMMITMENT

At SYSTRA ANZ, we believe our role extends far beyond designing and engineering excellent infrastructure solutions, it's also about ensuring a better, more sustainable, and resilient future.

A commitment to environmental, social, and governance (ESG) resonates deeply with our values and aspirations of where we want to go as an organization. In collaboration with our people, partners, and clients; we are dedicated to creating a sustainable future that leaves the communities we operate in better off than before. We also hold ourselves to the highest ethical standards and seek diversity, equity, and inclusivity in all we do.

For more information on our ESG commitments, see <https://www.systra.com/australia/who-we-are/esg/>



SYSTRA ANZ

SYSTRA is one of the world's leading engineering consultancy firms.

Present in over 80 countries, it is our mission to be there where it matters; on the complex projects with the greatest impact, providing innovative solutions that will shape the future of our communities.

With confidence we help the world move forward.

For more information about SYSTRA ANZ go to systra.com/australia. Follow us at [in /SYSTRAANZ](https://www.linkedin.com/company/systra-anz)



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