



# Building the rail networks of the future



RCS Australia is a top-tier provider of industry-leading rail signalling solutions.



# Contents

## **ABOUT US** **04**

Why partner with us	05
Our heritage and purpose	06
Our people and culture	07

## **OUR SERVICES AND SOLUTIONS** **08**

Professional services	10
Engineering	10
Construction	11
Project Delivery	11
Recent projects	12

## **SAFETY & QUALITY** **18 + 19**

# About us



Combining years of expertise and experience, we founded RCS Australia with a genuine commitment to being the absolute best in the rail signalling business, whilst creating a culture of excellence and innovation.

For over a decade, our team has positioned RCS Australia as one of the most experienced, agile and sought-after providers of rail signalling and control systems engineering in Australia.

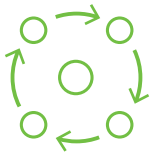
We provide our clients with innovative, technically advanced and purpose-built signalling and communication systems, and we do so by uniting the brightest minds in the industry.

# Why partner with us?



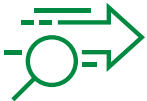
## We've been places

We have delivered signalling projects across Australia and internationally.



## We're flexible

We're proud to offer capabilities across all signalling disciplines, either as a stand-alone service or end-to-end, from feasibility through to commissioning.



## We know technology

Since inception we've prioritised innovative technology and we offer an array of industry-leading technology solutions including commercial-off-the-shelf (COTS).



## We're in it for the long-haul

We take a true partnering approach to our work – developing long-term relationships with our clients.



## We get it right, first time

We are often called to save 'problem projects' – instead, let us get it right for you first time

# Our heritage and purpose



Back in 2007, RCS Australia co-founders Richard Ogilvie and Paul Hann recognised a gap in the rail signalling market for an engineering organisation that truly understood the challenges of rail operators – an organisation that could form genuine partnerships with clients in order to address those issues.

RCS Australia has grown to become a truly unique organisation – providing all facets of signalling from technology R&D, design engineering and professional consulting through to factory fabrication, site installation and commissioning.

Passionate about the future of the rail industry, we're committed to developing and delivering the safest and most efficient signalling and control systems in the world.

# Our people and culture

*RCS Australia invests in its people, and our team is made up of individuals with the same passion and drive as the founding members.*

Our team shares a common commitment to innovative industry disruption – believing there’s always the potential to make our rail networks safer, more efficient and more technologically advanced for our stakeholders, both now and into the future.

The value of an organisation lies in its people – a statement that’s never more true than at RCS Australia. In fact, we rely on our people to drive the future of the organisation. Through self-management and strategic thinking we can depend on our people because we value trust, flexibility and autonomy.

This culture of ownership and accountability is supported by rigorous processes, open communication and a collective alignment to the growth and development of both individuals and the organisation as a whole. Additionally, our executive team is committed to driving strategy and providing leadership and advice that supports the business and its evolution in building the rail networks of the future.



# Our services and solutions

“Safety-critical solutions through cutting-edge technology”

Technology innovation is a carefully controlled process in the rail safety environment – however, this often leaves rail operators reliant on dated legacy systems. With intimate knowledge of the legacy systems, RCS Australia also understands their limitations when it comes to rail operations, maintainers and even safety. Legacy systems may have the tenure, but would they withstand the rigour of the safety assurance process that is applied to new technology today?

Knowing this, we like to challenge the norm and find better and safer ways of doing things. We can do this because we understand the risks associated with technical innovation in a safety environment.

At RCS Australia we’ve combined our rail signalling expertise with new technology and an in-house functional safety assurance team – ensuring we provide safe, reliable technology solutions that solve real-world problems for our clients.

To date, RCS Australia has developed and deployed safety systems to both private and main-line rail operators, with solutions ranging from stand-alone level crossings to fully integrated, signalling interlocking and control systems.

Our solutions utilise industry standard interfaces and communication protocols, for low-risk network integration and significant future-proofing opportunities. Governed by our quality assurance processes as well as internationally recognised safety standards, RCS Australia is leading signalling technology innovation in Australia. As well as having patents pending, we’re also exporting our technology to overseas markets.



Professional services



Engineering



Construction



Project delivery







## PROFESSIONAL SERVICES

RCS Australia has a dedicated consulting discipline for the provision of professional services.

Our team is comprised of experts with significant experience across a broad section of the industry, and is able to support and advise clients in the areas of engineering review, verification and validation, specification review and authorship, technology optioneering, functional safety assurance and complex delivery strategies across all signalling disciplines.

When not providing expertise to our clients, our consultants advise and support our project delivery teams – giving technical mentorship to our engineers, and ensuring this unique and highly valuable wealth of knowledge is retained and propagated within the RCS Australia team.



## ENGINEERING

Our engineering team holds competencies for all major rail operators in Australia, and is led by senior engineering staff with years of industry and state operator-specific experience.

Based in Victoria and Queensland, the teams cross-pollinate their skill-sets in order to ensure optimum and efficient resourcing on all our projects.

We provide engineering capability across a wide variety of legacy and modern technology systems, as well as across the whole design lifecycle – from principles-based scheme development through to detailed lineside and interlocking design. Our dedicated in-house testing and commissioning engineers are well-versed in factory-based and on-site pre-testing and commissioning, and our senior test engineers are some of the most qualified in Australia.

Our engineering team is extremely selective in its recruitment, and this has resulted in a strong team culture and an exceptional delivery record. It's for this reason that we prefer not to 'body shop' our engineering staff – our value resides in our people, and our people work best as a team.



## CONSTRUCTION

RCS Australia delivers signalling construction to some of Australia's largest rail infrastructure projects.

With specialist electrical, civil and mechanical resources, factory-build and installation capabilities, our construction team can deliver stand-alone signalling works or integrate into larger multi-disciplinary teams working across all facets of signalling construction projects. All works are managed by our construction leadership team, who also provide expertise to other organisations and fill discipline lead roles in major projects.

Based out of our dedicated fabrication and test facility in Brisbane, our team supports major projects with the deployment signalling technology, as well as fabricating and wiring RCS Australia solutions to specific client requirements. Our construction teams carry out all aspects of site civil works – usually in advance of the deployment of fully factory-tested equipment enclosures and line side huts from our dedicated factory and test facility in Brisbane. Our site teams then complete the final installation and testing before the signalling system is commissioned into service.

Our safety and quality management processes enable RCS Australia to fulfill principal contractor obligations. RCS Australia's focus on OH&S and rail operational safety ensures that our projects meet and exceed safety and compliance expectations. Fully equipped with compliant and certified plant and equipment, our team delivers all factory and on-site electrical, civil and mechanical signalling installations.

Finally, our electrical and mechanical teams can provide maintenance services to main-line and private rail operators with a team of qualified cert 4 signal electricians, cert 3 qualified mechanical points installers, construction labour and supervisory staff.



## PROJECT DELIVERY

RCS Australia is committed to ensuring the best commercial outcomes for our clients.

Our projects and commercial team has rail-specific experience, and prides itself on the ability to manage delivery risk so that our clients don't have to. Programme and budget management is a key focus, as well as building relationships of trust and confidence with our clients.

Combined with the technical ability and dedication of our engineering and construction teams, RCS Australia has an impressive project performance record that sees us enjoy repeat business from key industry organisations, year after year.

# Recent projects

## QUEENSLAND

- **2018 - 2021**  
North Coast Line –  
European Train Control  
System (ETCS) Level 1
- **2020 - 2021**  
Queensland Rail's Level  
Crossing Compliance  
Project
- **2019 - 2024**  
Cross River Rail
- **2021**  
Queensland Rail  
Mechanical Maintenance

## NEW SOUTH WALES

- **2018 - 2020**  
Inland Rail – Parkes to  
Narromine

## VICTORIA

- **2016 - Ongoing**  
Level Crossing Removal  
Project
- **2020 - 2021**  
Metro Tunnel Project
- **2021 - 2022**  
Gippsland Line  
Upgrade Project

---

## Level Crossing Removal Project

**Location** Victoria **Year** 2016 - Ongoing



**Client**  
Victorian Government

RCS Australia have been involved in design, testing and commissioning works for the Southern Program Alliance (SPA) and Western Program Alliance (WPA).

Together with UGL, RCS Australia have provided, testing and commissioning services for SPA Hurstbridge Line Upgrade Inner Area Works, modifying and upgrading the existing Clifton Hill and Victoria Park SSI installations. Alongside UGL and as part of the Union & Mont Albert Road Level Crossing Removal (UMA), RCS Australia will provide SSI capabilities to modify the existing SSI interface at at Camberwell station.

RCS Australia have delivered testing and commissioning support for Ferguson St level crossing removal as well as delivering design, testing and commissioning support for Old Geelong Road level crossing removal project. RCS Australia is delivering design, testing and commissioning support for Cherry Street level crossing removal project

---

## North Coast Line – European Train Control System (ETCS) Level 1

**Location** South East Queensland **Year** 2018- 2021



**Client**  
Queensland Rail (QR)

RCS Australia together with Alstom Australia are delivering the ETCS Level 1 for the North Coast Line. RCS Australia is in the process of delivering construction, site installation and testing and commissioning works in addition to design approvals through our QR accredited RPEQ engineering team.

New equipment housings were fabricated and tested in our Brisbane based facility prior to deployment to site where RCSA established local site facilities to support the civil, electrical and testing & commissioning works throughout the corridor, comprising of:

- Civil works for the installation of cable routes and new equipment housings
- Installation of main and local cables, ETCS balise and location boxes
- Modification of the existing signalling infrastructure
- Testing and commissioning of all new works
- Site safety management

RCS Australia is providing significant value to project stakeholders through their local knowledge of the QR network and of the legacy system that was integrated with the ETCS L1 solution. This will be the first ETCS implementation in Queensland and our teams gained valuable experience from exposure to ETCS technology.

---

## Inland Rail – Parkes to Narromine



**Location** New South Wales      **Year** 2018 - 2020

---

### Client

InLink JV (BMD & Fulton Hogan)

The Parkes to Narromine (P2N) section was the first of 13 projects the complete Inland Rail. The project is responsible for upgrading 98.4km of existing rail track and building 5.3km of new rail near Parkes, NSW. RCS Australia was contracted to undertake signalling, construction and testing & commissioning works which included:

- 22 pre-built and tested signalling huts deployed to site from our Brisbane factory
- 12 active level crossings
- Signal installation
- 248 km of cable installation
- Testing and commissioning works into revenue service

Our site delivery and our project management teams were presented with significant challenges to complete these works as the most intense delivery period was during the height of the 2020 COVID-19 pandemic. Through their dedication to the success of the project our teams delivered the works on time through out-of-the-box innovation and sheer hard work.

---

## Queensland Rail's Level Crossing Compliance Project



**Location** Queensland      **Year** 2017 - 2022

---

### Client

Queensland Rail (QR)

In 2017 – 2018 RCS Australia deployed two trial sites for Queensland Rail for a new level crossing solution developed with COTS technology. Following client acceptance RCS Australia were awarded the contract to deliver the technology across high risk level crossing sites throughout regional Queensland.

This project was an end to end solution from technology development through to commissioning inclusive of safety assurance activities, detailed design, procurement, factory build & test and site works (civil install and testing).

Since commencing this project our technology solution has gained industry recognition and has been type approved by other mainline operators within Australia.

---

## Cross River Rail

**Location** Queensland

**Year** 2019 – 2024



### Client

UNITY Alliance (CPB  
Contractors, UGL,  
AECOM & Jacobs)

Cross River Rail is a \$5.4 billion dollar project to build a new 10.2km rail line from Dutton Park to Bowen Hills including a tunnel from Dutton Park to Normanby and the construction of four new railway stations. RCS Australia has been contracted to undertake signalling design, construction, installation, and testing and commissioning for the Rail Integration and Systems (RIS) 'Unity' alliance. Our teams are developing the signalling design from concept through to detail and liaise with project stakeholders to identify cross discipline risks and develop optimal solutions for the project.

In addition to the design, RCS Australia staff are integral in the discipline leadership. Our construction and testing leaders are engaged in the planning and management of complex site works and the site teams are mobilised over multiple track access and commissioning windows.

The programme of works extends to 2024 and provides RCS Australia with an opportunity to utilise its experience in multi-disciplinary delivery teams and to draw upon its expertise with the Brisbane suburban signalling system.

---

## Metro Tunnel Project

**Location** Victoria

**Year** 2018 – 2023



### Client

Rail Infrastructure  
Alliance (RIA) (CPB  
Contractors, John Holland  
Group & AECOM)

The Metro Tunnel will create a new end-to-end rail line from Sunbury in the west to Cranbourne/Pakenham in the south-east, with high capacity trains and five new underground stations.

As part of the Metro Tunnel Project RCS Australia are contracted to deliver the signalling design. This involves co-location of our signalling designers in a multidisciplinary team in order to develop complex signalling solutions to facilitate the delivery of the civil and construction components of the project.

Our experienced team was able to deliver the needs of the project, especially where multiple legacy technologies formed part of the design.

---

## Gippsland Line Upgrade Project

**Location** Victoria

**Year** 2021 - 2022



### Client

VicConnect Alliance

VicConnect Alliance has been engaged to design and construct the upgrades to the Gippsland railway line, primarily between Pakenham and Traralgon, as part of the Victorian Government's Regional Rail Revival Project. The Gippsland Line Upgrade will deliver more frequent and reliable train services to the growing communities of Gippsland.

The works will include second platforms and station amenity improvements at Bunyip, Longwarry, Morwell and Traralgon stations, track duplication at Bunyip and Longwarry, extension of the Morwell crossing loop, level crossing upgrades, signalling upgrades and drainage structure upgrades along the line.

RCS Australia has been engaged by VicConnect Alliance to assist with signalling upgrade works where WESTRACE Mk I CBI Interlockings and Object Controllers are to be replaced with ElectroLogIXS. RCS Australia will provide specialist signalling expertise to deliver the client's technical solution effectively and to a high standard.

---

## Queensland Rail Mechanical Maintenance

**Location** Queensland

**Year** 2021



### Client

Queensland Rail

Expanding our rail capabilities and providing new opportunities is what RCS Australia is all about. Recently we have taken on a new contract with Queensland Rail supporting their Wayside maintenance teams with a Points Maintainer and trainee. Our team has been working semi-autonomously to provide track protection and complete maintenance tasks as required by QR, whilst going above and beyond supporting civil crews where requested.





# Safety

As a safety critical systems provider operating in an environment of inherent risk, RCS Australia lives and breathes safety in everything we do.

We're committed to the provision of a safe, healthy and hazard-free work environment for our employees and external stakeholders, and we regard this commitment as a prerequisite to every task we undertake.

At the core of what we do is an absolute expectation of a duty-of-care from every employee, in order to ensure their work is carried out safely and without risk to themselves or others.





# Quality

RCS Australia holds the following quality management certifications:

- ISO 9001:2015 Quality Management Systems ISO 45001-2018 Occupational Health
- and Safety Management Systems

Our programme of continuous improvement drives our commitment to safety and quality, and our employees are constantly challenging and innovating our safety and quality regime.

Our engineering design, factory build and site installation works are carried out in strict accordance to rail and customer specific standards, as well as to current Australian standards. As part of our Integrated Management Systems we regularly track legislative and industry standards to ensure we are working to current and best practices.





# Contact Us

We'd love to hear from you.

## Melbourne office

Level 6  
533 Little Lonsdale Street  
Melbourne VIC 3000  
(03) 9034 3000

## Brisbane office

Level 13  
145 Eagle Street  
Brisbane QLD 4000  
(07) 3171 3320

## Banyo factory

Unit 4/ Lot 5  
457 Tufnell Road  
Banyo QLD 4011  
(07) 3171 3316