

Cross River Rail Project European Train Control System (ETCS)

SIGNALLING FOR SEAMLESS AND SAFE TRAIN TRAVEL

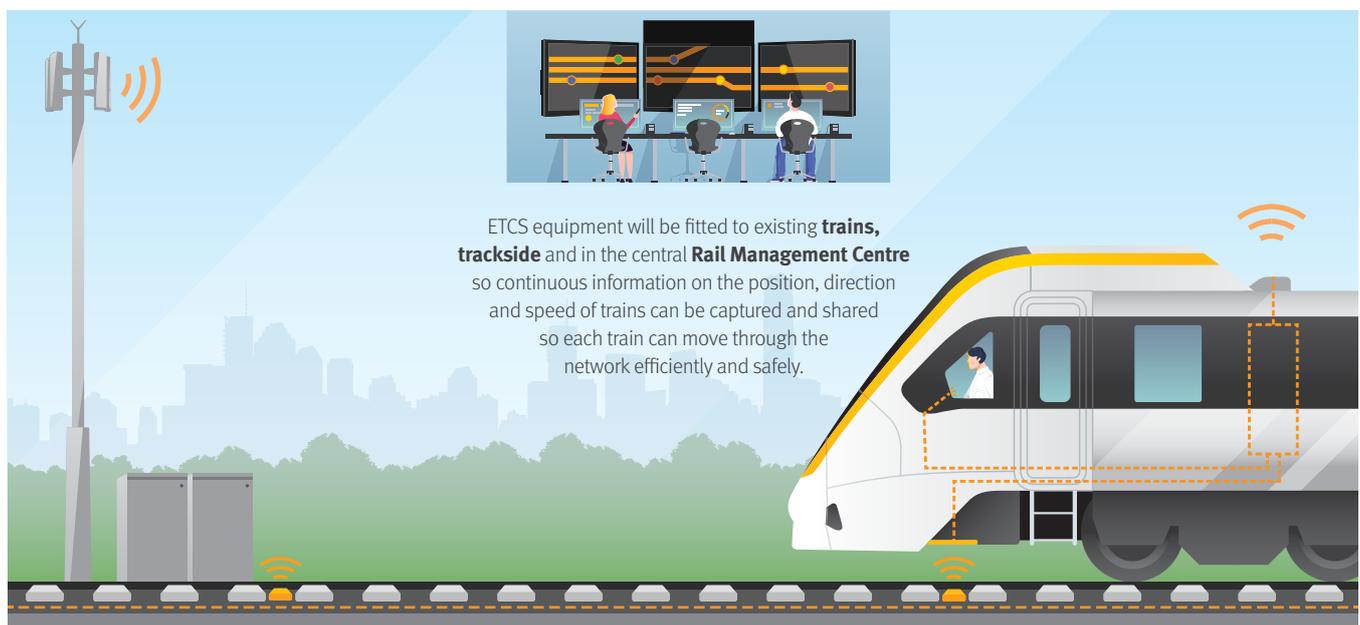
A world-class railway signalling system is being installed in South East Queensland as part of the Cross River Rail Project.

Already operating in cities around the world, the new railway signalling system will increase capacity, efficiency and reliability while maintaining safety on our rail network. It is especially important for the safe operation of trains in the Cross River Rail tunnels.

THE BENEFITS

- Smart signalling and rail traffic management
- Improved reliability and increased capacity
- Continued safety of services
- Safe tunnel and seamless train operations
- Safe trackside maintenance

How does it work?



ETCS is an advanced signalling system that relays continuous information between the central Rail Management Centre (RMC) and trains via a radio system, and between trackside equipment and the RMC through a fixed transmission network. Some additional data is transferred via fixed balises (or beacons) on the train tracks to the trains.

This information reports the position, direction and speed of each train and enables the system to calculate safe, maximum running speeds.

Knowing the exact position of each train along the network means they can be scheduled to travel closer to each other while maintaining the highest standards of safety.

What's involved?

ETCS will be rolled out in several stages starting with the Shorncliffe line where work has already commenced.

This will involve ETCS equipment being fitted to trains and tracks, and in Queensland Rail's Rail Management Centre. New cabling, technology cabinets, marker boards and radio masts and antennas will also be installed to complement existing infrastructure.

The majority of work will be completed, and infrastructure installed within the rail corridor and on Queensland Rail property.

Every effort will be taken to ensure all work is carried out safely, and managed to minimise disruption to commuters and surrounding residents and businesses. All activities will be undertaken in accordance with relevant regulations.



Subscribe to receive updates

To learn more about ETCS, visit crossriverrail.qld.gov.au/about/rail-network-improvements.

Be sure to also keep up to date with work in your area by subscribing to electronic updates by selecting ETCS.

About Hitachi Rail

Hitachi Rail is a fully integrated, global provider of rail solutions. With a presence in 38 countries and over 14,000 employees, we strive for industry-leading innovations and solutions that deliver value for our customers and sustainable railway systems to benefit communities.

We have integrated ETCS signalling systems worldwide, and are proud to be delivering the ETCS system, along with our state-of-the-art traffic management technology which is also operating in Tokyo and London.

About Cross River Rail

Cross River Rail is a new 10.2km rail line including 5.9km of twin tunnels running under the Brisbane River and CBD that will unlock a bottleneck at the core of the rail network and that will transform the way we travel across the whole of South East Queensland.

It will include four new underground stations through the middle of Brisbane, provide a new above-ground station at the RNA Showgrounds, upgrade six stations between Fairfield and Salisbury, deliver three new stations on the Gold Coast, and introduce a new world-class signalling system.