

Kennedy Highway - Kuranda Range Intelligent Transport System



Installation of additional Intelligent Transport Systems (ITS) treatments on Kuranda Range Road is now completed. The ITS treatments will make it quicker and easier to manage incidents and reduce the risk of crashes.

Various ITS stations will be installed between Smithfield and Rainforestation Nature Park. The ITS stations will complement the existing variable message signs on the approaches to Kuranda Range Road.

GRC Civil's Kuranda Range ITS Upgrade reached Practical Completion during November.

The project has improved speed compliance through the installation 30 Variable Speed Signs which change with the weather conditions and traffic volume on the range.

Commissioning of 18 CCTV at critical points along the Range Road gives Traffic Management Centre unprecedented visibility of the condition of the Road and improved its ability for early response to incidents and hazards on the Range.

During the wet season, Road weather monitors will provide data to the ITS system which will make changes to the speed conditions given the visibility and Road Surface Moisture – all these technologies will combine for a safer, more efficient Kuranda Range with fewer closures and faster response during incidents.

The project has also delivered excellent training outcomes for **GRC Civil** and its Subcontractors. **Phaze Solutions** who completed the ITS works on the project have developed an ITS training facility at their Cairns Workshop.

The facility is designed to replicate some of the latest ITS Infrastructure installed within the region including VLS, VMS and CCTV, and will provide their apprentices with opportunities for exposure to some of the more complicated ITS systems popping up in the FNQ Region.

GRC Civil is extremely pleased with the project, its benefits to the community and the economic injection that the project afforded the local supply chain.

Completion of this project is a Major Milestone for the Kuranda Range and signals the completion of the first round of works from a planned \$262.5m funding commitment.

Benefits

- Improves safety
- Improves network efficiency
- Contributes to economy
- Contributes to regional growth

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Key Features

The ITS stations will be equipped with roadside data systems and signs that can display variable speed limits.

The ITS stations will allow rapid detection and management of incidents on Kuranda Range Road.

It is expected that the treatments will reduce incidents and shorten the length of time for closures of the road, improving trip reliability.

The ITS stations will also provide real-time information about road surface conditions. When sections of the road are slippery due to wet weather, the speed limit for these sections will be remotely adjusted, making it safer for motorists.

The project will not increase capacity on Kuranda Range Road. Due to the challenging construction environment, TMR will deliver the project within the existing road footprint.

Funding

This project is jointly funded by the Australian Government and Queensland Government on an 80:20 basis.

Sucontractors and Suppliers

NQ Project Partners	Project Management
Naylor Civil	Construction and Quality Management
Trafflec	ITS Installation (Self Performed)
Aussie Drill Kings (ADK)	Horizontal Directional Drilling
ETS Geotechnical	Geotech Testing
Excav8	Trenching Subcontractor
Arena Engineering	Supply of Footing Cages and Reinforcing Materials
Neuman Steel	Supply of Footing Cages and Reinforcing Materials
CMI Electrical	Supply of Electrical Cables

Boral	Concrete and Quarry Products
PNQ	Concrete and Quarry Products
Sherriff Electrical	Supply Electrical Material
Boral Asphalt	Supply Bituminous Products
FGF Bitumen	Asphalt Surfacing Contractor
Heaths Excavation	Wet Hire Plant
FDH Equip Pty Ltd (Froggys Dry Hire)	Dry Hire Plant
Coates	Site Buildings and Small Plant
Ausco Modular	Site Buildings
Howard & Andrew Plumb	Water Cart Hires
Arid To Oasis Traffic Management	Traffic Management
Tutt Byrant	Dry Hire Plant & Equipment
Fenwick Drilling	Cast insitu Piling Works
Phase solutions	Electrical and ITS installation
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