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challenging limits

Kapsch TrafficCom

New Zealand State Highway TMS.

Kapsch/Transdyn was awarded a professional services contract by NZ Transport Agency (NZTA) to design, build, and support a new advanced Traffic Management Software (TMS) System to manage the entire New Zealand state highway network.

Running on Kapsch/Transdyn's DYNAC ATMS® software, the new TMS system provides NZTA with the flexibility to manage roadway, bridge and tunnel operations from both traffic operations centers located in Auckland and Wellington, New Zealand.

The seamlessly integrated management of traffic and weather systems, electronic message signs, lane control signals, moveable lane barrier, tunnel systems, and traveler information services along with traffic and roadway condition monitoring, incident response, and sign control enhances NZTA's ability to respond safely and effectively to traffic incidents and emergency situations.

DYNAC ATMS® facilitates the sharing of traffic data throughout the state highway network. Information such as traffic data, dynamic sign messages, and incident data is delivered to NZTA's Traffic Data Repository (TDR) and is used to alert motorists of travel situations in other areas of the country. DYNAC ATMS® also disseminates variable message sign alerts to the NZTA Auckland traffic flow website.

A reversible lane configuration on the 8-lane Auckland Harbour Bridge eases congestion at peak travel times. A moveable barrier increases the number of available lanes and maximizes bridge capacity during peak travel times. DYNAC ATMS® allows control of the moveable barriers configuration, enabling designated lanes to move traffic in the opposite direction.

DYNAC ATMS® also eases congestion and enables safer travel in key tunnels including the Terrace and Mount Victoria Tunnels in Wellington and Victoria Park Tunnel in Auckland. Located in Christchurch, the Lyttelton Tunnel is the longest tunnel in the country and is being managed by a separate DYNAC ATMS® system solely dedicated to the tunnel's safety systems.

Tunnel systems such as lighting, ventilation, fire suppression, CCTV, water deluge, incident detection, emergency phone, traffic signals, dynamic message signs, roadway barriers, and over-height vehicle detection are managed via DYNAC ATMS® from a unified user interface.

References.

Client: NZ Transport Agency

Location: Auckland and Wellington, New Zealand

System features.

- > DYNAC ATMS® Software
- > Weather Service Interface
- > GIS Application
- > Dynamic Message Signs
- > Lane Use Signals
- > Variable Speed Signs
- > Roadway Loops
- > Radar Detectors
- > Video Incident Detection
- > Moveable Lane Barrier
- > Tunnel Systems
- > Travel Times