



Cross Israel Highway TMS

Client: Derech Eretz

Location: Tel Aviv, Israel



System Features

- DYNAC ATMS® Software •
- Incident Detection •
- Decision Support Management •
- Tunnel Management •
- Hebrew Character Implementation •
- Electronic Tolling System Interfaces •
- RDMBS Interface •
- NTCIP •
- Video Display Wall •
- Integrated AVI Data Processing •
- Dynamic Message Signs •
- CCTV •
- Traffic Controllers •
- Vehicle Detectors •
- Vehicle Detector Loops •
- WAN •
- Fiber Optics •
- Serial Communications •
- Regional Data Reporting •



The Cross Israel Highway was constructed to significantly reduce traffic congestion in the Tel Aviv area. As the largest infrastructure project ever to be constructed in Israel, the Cross Israel Highway diverts traffic to the central region of the country, thus reducing vehicle density and pollution in the greater Tel Aviv region. The new highway is faster and more convenient than any existing road in Israel and offers the country's inhabitants of the North and South areas quicker access to the central region.

Transdyn designed, built, and supports the Traffic Management System (TMS) for the \$1.1 billion, all-electronic Cross Israel Highway. Managed by Transdyn's DYNAC ATMS® (Advanced Traffic Management System) software, the system is integrated with Raytheon's open road electronic tolling software to form a unified Electronic Toll and TMS to manage traffic and collect tolls. TMS allows operators in the Highway Operations and Management Center (HOMC) to provide highway surveillance, real-time traffic monitoring, incident and congestion detection, incident management, ramp monitoring, generate reports and disseminate motorist advisory information. The TMS also provides traffic control at signalized interchanges that are integrated with the system.

To allow for the efficient use of the TMS in the native language of the operations staff and motorists, Transdyn internationalized DYNAC® to allow use of the system in Hebrew or English. Hebrew characters were implemented for variable message signs, graphic displays, and over thirty-five applications that provide functions ranging from alarm management to loop configuration. Transdyn provided Hebrew Character Implementation of DYNAC® for dynamic message signs, graphic displays, and over thirty-five applications that provide functions ranging from alarm management to loop configuration.

The TMS promotes life safety by recommending and enforcing appropriate traffic behavior, alerting motorist of driving conditions and managing traffic flow. The TMS also promotes highway safety by ensuring incidents are quickly cleared, and by allowing roadway maintenance work to be undertaken more safely.