

Dallas

How “Dallas Area Rapid Transit” reduced congestion on US 75 Corridor

Dallas is the fifth most congested US metropolitan region for road traffic, with the US-75 highway especially affected. With the goal to move even more people and vehicles through the corridor, respond to incidents faster, and provide enhanced traffic information to travelers, transport authorities decided to act.

The US-75 Integrated Corridor Management Project fundamentally changed how transportation agencies in the US-75 corridor collaborate. The project was led by The Dallas Area Rapid Transit (DART) during the pilot phase, with participation from regional partners (TxDOT, cities, transit agencies, and tolling authorities).

“Next Generation” Traveler Information System

Kapsch TrafficCom has successfully upgraded the existing Traveler Information System and mobile app to a new “Next Generation” system. The new platform for the North Central Texas Council of Governments (NCTCOG) in the Dallas-Fort Worth area is powered by the Kapsch EcoTrafiX™ software for which Kapsch served as the lead systems integrator.

The fully integrated system allows agencies to share information, optimize operations, and balance traffic flow. It furthermore provides travelers with personalized, real-time traffic and transit information that enables them to make better decisions about how they travel in the region.

Kapsch will maintain the new system for NCTCOG for a two-year period. The system will be continuously enhanced based on new data sources and customer feedback.



Project Scope:

Comprising the US 75 corridor and utilizing an Information Exchange Network to provide regional agencies with real-time data about roadway conditions, which were shareable with the public via 511. In general, to:

- Operating the US 75 Corridor in a true multimodal, integrated, efficient, and safe fashion where the focus is on the transportation customer
- Increasing corridor throughput
- Improving travel time reliability
- Improving incident management
- Enabling intermodal travel decisions

The project scope increased to include more than 19 agencies in 12 counties and over 6,000 miles of regional roads.

The Challenges:

- Coordination between involved entities to share information and react effectively
- Full situational awareness using a collaborative system

The Solution:

- An integrated platform is powered by the Kapsch EcoTrafIX™ software, which:
 - Offers regional transportation agencies an integrated, multimodal platform for managing their transportation network and sharing real-time information with each other and the public.
 - Boosts the efficiency of transportation operators by providing a fully map-based situational awareness of the entire intersections and arterials network.
 - Accelerates collaboration between stakeholders and optimizes safety and response plans via automatic incident detection, and forecasting future traffic conditions.
 - Leverages advanced technologies to facilitate day-to-day management
- Decision Support System DSS
- Dissemination to public (website, mobile app, IVR, social media, public data portal)



The Added Value

- *Increased collaboration between agencies to improve safety*
- *Increased operators' situation awareness for higher efficiency*
- *Sustainable traffic congestion reduction thanks to advanced traffic strategies*
- *Promotion of the use of public transportation systems*
- *Performance measures dashboards for live and post analysis of incident(s)*