Ķekava Bypass Project

High-Tech Traffic Management System in Latvia

In October 2023, Kapsch TrafficCom officially launched the advanced traffic management system for the Ķekava bypass in Latvia. This major infrastructure project, Latvia‘s first “high-speed road“ is designed to alleviate traffic congestion in Ķekava and enhance road safety and sustainability through cutting-edge technology.

Innovative solutions contribute to a healthy world without congestion.

Project Overview:
Opening Date: October 13, 2023
Objective: To significantly reduce traffic in the town of Ķekava and improve driving conditions on the Bauska Motorway, one of Latvia‘s busiest roads with 17,000 vehicles per day.
Infrastructure: The new 17.5 kilometer bypass with more than 20 kilometers of parallel roads offers an efficient route for motorists traveling between Lithuania and Riga, excluding tractors but providing infrastructure for pedestrians and cyclists. Technologies Implemented: Kapsch TrafficCom has deployed a range of technologies including cameras, sensors, radar systems, and a flexible traffic management software platform.

The Ķekava bypass project, implemented through a public-private partnership (PPP) model, is a significant milestone for road safety and sustainability in Latvia. With advanced technologies from Kapsch TrafficCom, this project sets new standards for traffic management, ensuring safer and more efficient travel for thousands of daily drivers.

Project Scope:

- CCTV System: 21 cameras for comprehensive monitoring. Automatic Incident Detection (AID): 7 units to promptly identify incidents.
- Data Acquisition System (Radar): 11 radar systems for vehicle detection and speed monitoring.
- RWIS (Weather Stations): 2 stations to monitor road and weather conditions.
- Communication Network: Installation of L3 and L2 switches (fiber optic backbone provided by the client).
- Control Center Hardware: Servers, workstations, and LCD wall displays for effective traffic management.
- Central Software: ATMS (DYNAC) application for integrated traffic management.

Maintenance Scope:

- Help Desk Service: Managed by the D&O team, covering L1-L2-L3 support.
- Customer Calls: Estimated 10 monthly customer calls. HW Incident Management: Support for Dynac and AID servers and workstations with HP, and NVR with Dell.

The Solution:

- The new 18-kilometer bypass provides an efficient route for motorists traveling between Lithuania and Riga, while excluding tractors but including dedicated infrastructure for pedestrians and cyclists. Kapsch TrafficCom has deployed a comprehensive suite of technologies to enhance the functionality and safety of the bypass, including cameras, sensors, radar systems, and a flexible traffic management software platform. These technologies work together to monitor and manage traffic flow effectively, ensuring safe and convenient travel for all users.
- At the core of the traffic management system is the Dynac software platform, which integrates and manages all components of the advanced traffic management system. The system measures road and weather conditions, collects data on vehicle numbers and speed, and enables roadway operators to make informed decisions based on real-time information. This data-driven approach helps to optimize traffic flow and minimize congestion, significantly improving highway safety through enhanced decision-making processes. The Dynac platform‘s versatility and robustness ensure reliable and efficient traffic management, contributing greatly to the overall success of the bypass project.

> *“We rely on Kapsch TrafficCom technologies to ensure safe and efficient operation of the Ķekava bypass for the next 20 years.”*
>
> Juris Frīdmanis, General Manager of JSC Kekava ABT

> *“The Ķekava project is a testament to the positive influence of state-of-the-art technology on road safety.”*
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> Marko Frank, Regional Sales Director, Kapsch TrafficCom

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