

CHARM

National Advanced Traffic Management Software for the Netherlands

In October 2015, Kapsch TrafficCom was awarded a contracts by Rijkswaterstaat (RWS) to supply the DYNAC Advanced Traffic Management Software for implementation throughout the Netherlands as part of the collaborative programme CHARM that will modernize and consolidate traffic management on the highways.

Innovative solutions contribute to a healthy world without congestion.

The CHARM programme is a strategic initiative of the Dutch road network agency to realize an open, modular architecture for Advanced Traffic Management Systems (ATMS). The new software technology selected under CHARM provided the level of integration, scalability and resiliency desired by RWS to more effectively and safely manage critical road networks. Additionally, CHARM has provided a modern ICT framework and standards-based platform upon which future services and innovation modules can be deployed more timely and cost effectively to support the changing the needs of RWS, road users and other stakeholder.



Project Scope:

- CCTV-Management
- Incident Management
- Rollout and Operations

The challenges

- Brownfield environments require seamless integration of numerous disparate technologies and bespoke systems with legacy protocols and interfaces.
- Geographic scale: The CHARM program spans five regional traffic control centers as well as a national center.
- Long-term commitment: The RWS's selection of the DYNAC ATMS solution and Kapsch services represents a significant investment and a crucial long-term partnership.

The Solution:

- Kapsch opted for a new Advanced Traffic Management System (ATMS) with a focus on scalability, resiliency, and interoperability of the central system, while making use of existing technical infrastructure and road network assets to better control and manage traffic. Consequently, the Kapsch DYNAC solution was chosen due to its established reliability in critical ATMS operations, adherence to technical standards, configurability, and future-proofing capabilities.
- Upon completion of the CHARM implementation and rollout, Rijkswaterstaat will utilize DYNAC to more effectively and safely manage their motorways, and improve transportation services through a unified software platform and integrated ATMS/ICT environment. This environment encompasses traffic control centers, a comprehensive network of fixed roadside assets, mobile users, and other stakeholders.

Your Added Value:

- An open, modular Information and Communication Technology (ICT) architecture designed for all regional and national Traffic Management Centers (TMCs) in both countries. This architecture caters to current operational and maintenance demands while ensuring scalability and flexibility to address the future needs of RWS.
- The goal is to achieve more efficient management of traffic operations and enhance the overall road user experience.
- The system is designed to be future-ready.

