

Maintenance and Operation Services for the City of Valladolid

Valladolid's street network faces constant high demand, with limited space to add lanes or increase capacity otherwise. The result is significant traffic congestion and related impacts, such as air pollution and increased risk of accidents.

Kapsch TrafficCom's EcoTrafiX™ Platform provides the key to optimizing the city's mobility conditions, reducing traffic congestion and improving air quality.

Valladolid is a medium-size city with 300,000 inhabitants, where Kapsch is currently carrying out traffic maintenance and operation. For more than 30 years without interruption, the state-of-the-art traffic control equipment and strategies developed by the company have been successfully implemented and used. In December 2021, this contract was renewed for 3+2 years.

During all those years, new traffic equipment has been installed, including the latest EcoTrafiX™ models. The traffic of the city is working with Kapsch's EcoTrafiX™ software, optimizing the mobility conditions of public transport, reducing traffic congestion in the city center, and thus ensuring that people have the right to mobility in the best conditions. The currently implemented traffic management system provides advanced performance control and strategies for an efficient mobility.

Furthermore, with the help of the Valladolid City Council, proofs of concept have been developed to verify the development of new products and solutions such as Traffic Prediction.



Project Scope:

- Service contract for the management and control of the Traffic Systems of the Mobility Control Center in Valladolid City Hall, including: Urban Traffic Control Systems, the Urban Enforcement System, including Red Light Enforcement, and the renewal and periodic adjustment of the current facilities. There is also an integration with the underground, surface parking systems and with the public transport system.
- The maintenance of about 275 controllers, 40 cameras, 10 Red Light Enforcement, 10 Speed Enforcement and the entire communication network with a 24x7 service.
- The engineering and management of the Mobility Management Center.

The Challenges:

- Through the EcoTrafIX™ Platform, providing the Valladolid City Council's Mobility Department with a "system of systems", whose main functionalities include event and incident management, asset management, data analysis, report generation, as well as the availability of data to be used by all the city's stakeholders.
- Promoting a comprehensive interaction of the traffic control system with the rest of the systems, such as the parking management system and the public transport system, so that citizens only have to communicate with a single agent, from which they obtain all reliable information about traffic and transport in the city.

The Solution:

- Technological renovation of traffic equipment, with the implementation of state-of-the-art equipment. Digitalization implies quality of the data.
- Continuing to implement modules in the Integral Traffic Mobility Platform, EcoTrafIX™, which results in a significant improvement of the mobility of not only vehicles, but also of any means of transport, including pedestrians. This platform will integrate the complete existing traffic system and enable the municipal traffic managers to make the right decisions.
- Implementing and developing traffic solutions such as Prediction and ITACA as a real-time Adaptive Traffic Signals System providing advanced performance control strategies for efficient mobility. The system proposes effective solutions to mitigate congestion as it analyzes and identifies the causes in advance.
- Reinforcing the operation of the Control Center with a team of highly qualified experts in management, including analysts and traffic engineers.



The Added Value

- Effective and accurate overview of the traffic situation in real time based on mobility data received by the system.
- Allow the managers of the Mobility Department and the client to make the right decisions based on the information quality obtained from the streets of Valladolid.
- EcoTrafIX™ implements global congestion strategies as well as Event Management, a key to the successful urban mobility policy.
- Improving the quality of life for the people in Valladolid through congestion mitigation and air quality improvement.