

Spain

Low Emission Zone Castelló de la Plana

In December 2022, Kapsch entered into a public contract with the City Council of Castelló de la Plana. The agreement involves delivery and installing a comprehensive solution comprising various technological components for overseeing and controlling vehicles in the designated low-emission zone. This initiative is jointly funded through European "Next Generation" funds as part of the broader Recovery, Transformation, and Resilience Plan. Over the course of sixteen months, commencing in December 2022, Kapsch TrafficCom Transportation S.A.U. started to manage the delivery and installation.

The need for cities to be more sustainable

Kapsch's mobility solutions contribute to the reduction of greenhouse gas emissions and pollutant gases and particles from fossil-fueled vehicles, thereby contributing to sustainable development goals and improving air quality and noise levels. Cities can reduce the negative effects of congestion, noise and pollution.



Project Scope:

- Consultancy work for the design of the performance of the Low Emission Zone
 - Initial Diagnosis
 - Scenario Planning and Evaluation
 - Design
 - Impact Analysis and Awareness
- Supply and installation of equipment and signage
 - Supply and installation of license plate recognition system
 - Supply and installation of air quality monitoring equipment and acoustic sensors
 - Supply and installation of user information panels
- Computer and Software Supply
- Supply of monitoring systems, fleet characterization and violation control
 - Supply of software and mobile applications for authorization, information and user advice

The challenges

- Technical complexity due to the fact that this is Kapsch's first major Low Emission Zone project
- Raising public awareness of the importance of the Low Emission Zone
- Adapting the project to changes in government

The Solution:

- Consulting and Service Design
 - Low Emission Zone Analysis, Planning, and Design
 - Social, gender, and disability impact analysis, economic report, legal analysis, communication, and public awareness plan
- Supply and installation of equipment and signage
 - Supply and installation of 45 Optical Character Recognition (OCR) cameras on the entrance and exit roads to the LEZ to read and identify the license plates of vehicles entering and leaving the LEZ.
 - Supply and installation of OCR cameras in each of the public car parks to control vehicles within the central area of the Low Emission Zone.
 - Supply and installation of 24 air quality and noise monitoring stations
 - Supply and installation of 10 LED panels at the entrances to the city center and the area of influence.
 - Supply and installation of 25 panels for the signage of the accesses to the ZBE, proposing an integrated solution of fixed and variable signage.
- Computer supply (hardware and software)
 - Upgrade of the existing EcoTrafiX™ traffic management system, Kapsch's integrated mobility management solution for cities and access corridors.
 - SRAN Low Emission Zone software that detects, captures and recognizes the license plate of vehicles entering or leaving the Low Emission Zone and determines whether the vehicle is authorized to enter and remain in the controlled zone.
 - Web/App software for user authorization, information and consultation. The system will be compatible with Android and iOS versions available in their respective stores and also accessible from a web browser.

