

# Abertis Mobility Services to implement Pamplona's Low Emission Zone

- *The Abertis Mobility Services - i3i Ingeniería Avanzada joint venture has been selected by Pamplona City Council to implement the LEZ project in some of the city's neighbourhoods.*
- *Abertis Mobility Services (AMS), a technology subsidiary of the Abertis Group, is an expert in cutting-edge technology services for infrastructure management and smart mobility in urban areas.*
- *LEZs are areas where access to certain vehicles is restricted due to their emissions in order to reduce pollution and congestion.*
- *With this project, Pamplona adapts to the new law on Climate Change and Energy Transition, which requires cities with more than 50,000 inhabitants to have Low Emission Zones (LEZ) in place by 2023.*

**Barcelona, 19 September 2022 – Pamplona City Council has commissioned the implementation of the Low Emission Zone project to the Abertis Mobility Services (AMS) - i3i Ingeniería Avanzada joint venture.** AMS, a technology subsidiary of the Abertis Group, has extensive experience managing and transforming smart urban mobility through cutting-edge technology systems in more than ten countries. Both companies are experts in implementing, operating and maintaining camera systems with state-of-the-art License Plate Recognition (LPR) technology. In addition, AMS has a cloud-based solution for smart traffic management through pay-per-use and pay-per-pollution based on satellite technology and the connected vehicle. As **Christian Barrientos, CEO of Abertis Mobility Services (AMS), explains**, "*At AMS, we have extensive experience in managing smart and sustainable mobility in cities, and we operate in more than ten countries with different solutions including Low Emission Zones. We aim to provide innovative, state-of-the-art technology-based solutions to councils to manage mobility and reduce emissions in their municipalities.*"

Within the LEZ project in Pamplona, **a system of stations will be deployed to measure air quality and noise. This will allow a comparison of air quality and noise pollution indices** before and after the implementation of the restricted zone. These stations are equipped with various sensors to monitor air quality by measuring gases the WHO considers to be harmful to humans at specific concentrations (CO, SO<sub>2</sub>, NO, NO<sub>2</sub>, O<sub>3</sub>).

**The project will monitor and collect traffic and pollution data for the future definition and implementation of the Low Emission Zone.** In terms of the technology and scope of the project, number plate reading (LPR) cameras will be deployed that will identify all vehicles entering and leaving the restricted zone. Cameras will also be installed with artificial intelligence and deep learning algorithms that generate artificial vision analytics and allow additional parameters to be obtained on traffic and mobility in the city.

The project also envisages the deployment of parking sensors that will monitor the use of surface parking spaces to know the occupancy of these spaces in real-time.

Based on their experience in traffic management projects, **AMS and i3i Advanced Engineering will implement in the project an integral platform for mobility and management of LEZ** structured in functional modules and microservices that, thanks to its flexibility, adapts to the specific needs of each municipality. The platform for managing the Pamplona LEZ is made up of four components:

**Control points:** composed of artificial smart number plate readers and cameras, surface space sensors, air quality and noise stations.

**Back-office systems and processes:** responsible for information management.

**Interface to connect to external services:** to obtain and share information with entities such as the DGT.

**Interface to connect to local services:** to obtain data on local entities linked to vehicles and entities in Pamplona.

### **Improving the quality of life of citizens**

In recent years, Pamplona City Council has been committed to carrying out actions to transform the city into a more sustainable, decarbonised environment with good air quality, making it a healthier city where citizens can reclaim public space.

Low Emission Zones aim to improve the quality of life of citizens and air quality in cities, reduce noise levels, promote a modal shift towards more sustainable transport and contribute to climate change mitigation with the challenge of becoming carbon neutral by 2050. For their part, city councils will have digitalised infrastructures, a mobility management tool that will improve road safety, provide real-time information on air quality and provide data and results on mobility strategies.

### **Abertis Mobility Services, a world leader in mobility and smart traffic management services**

Abertis Mobility Services (AMS) has a Cloud solution for smart traffic management through pay-per-use and pay-per-pollution, based on satellite technology and the connected vehicle. It is currently implemented in the United States, specifically in the interurban environment in the states of Oregon, Utah and Virginia. Thanks to its leadership and extensive experience, the satellite solution can be applied to urban settings to complement the deployment of Low Emission Zones and promote the transformation of cities into healthy, sustainable and connected spaces. Technology plays a fundamental role in implementing innovative systems to encourage, among other things, a greater use of more efficient and healthier urban transport.

**About Abertis Mobility Services (AMS)**

Abertis Mobility Services (AMS) is the technology subsidiary of the Abertis Group, experts in implementing cutting-edge technology platforms and operation services for infrastructure management and smart mobility in urban and interurban environments. It focuses on free flow toll activities and implementing the technological ecosystem for urban traffic management through Low Emission Zones and other systems, such as infrastructure charging. It has a presence in 10 countries, allowing them to provide expertise in multiple regulatory frameworks and solutions. With more than 400 employees engaged in customer service, AMS has extensive experience managing digital communication channels with citizens and handling enquiries.

The solutions proposed by AMS are comprehensive and address the entire value chain, from the implementation of technological platforms and the initial management of the client to operation and maintenance. AMS has extensive knowledge of vehicle detection systems, a proven track record and experience, and value-added services to improve customer experience and regulatory compliance.

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