





Nodes deployed to ensure main coverage, as well as the main elements of the 5G architecture and configured Private 5G Network

2025

Deployment of private 5G SA network in Mercamadrid. Advanced infrastructure ready for automated and connected mobility PoCs.

Impact Evaluation Preparation.

Preparation for impact assessment. Capacity to collect technical, social, and environmental KPIs in real time

Visibility and Positioning

Participation in key events and dissemination in sectoral congresses, reinforcing Madrid's leadership in sustainable mobility.

Provision of 5G SA IoT SIMs

Provision of 5G SA IoT SIMs for installation in traffic lights, signage, streetlights, and vehicles.

2026

Functional Validation of PoCs

Start of real operation and validation under real conditions.

KPI Collection and Analysis

Collection and analysis of KPIs Measurement of the technical and environmental impact of the deployed solutions.

Boosting Exploitation and Scalability

Transfer of results and adoption in other European cities.

Strengthening Collaboration and Dissemination

Continuity in European initiatives and sectoral events to promote smart mobility.













5G+Connecting the future



MOST INNOVATIVE PRIVATE 5G+ HYBRID NETWORK

It provides the best performance in connecting autonomous vehicles and devices in the project

SAFETY AND RELIABILITY

HIGH CAPACITY AND ULTRA-LOW LATENCY MAXIMUM EFFICIENCY FOR CONNECTING IOT DEVICES















Main Use Cases in MercaMadrid Private 5G Network

Autonomous Vehicles. Network Slicing, V2X Self-driving bus Self-driving waste collection truck

IoT Devices

Traffic lights, signage, streetlights, and vehicles.

















5G+ Network Analysis





Serving 5G PCI



















