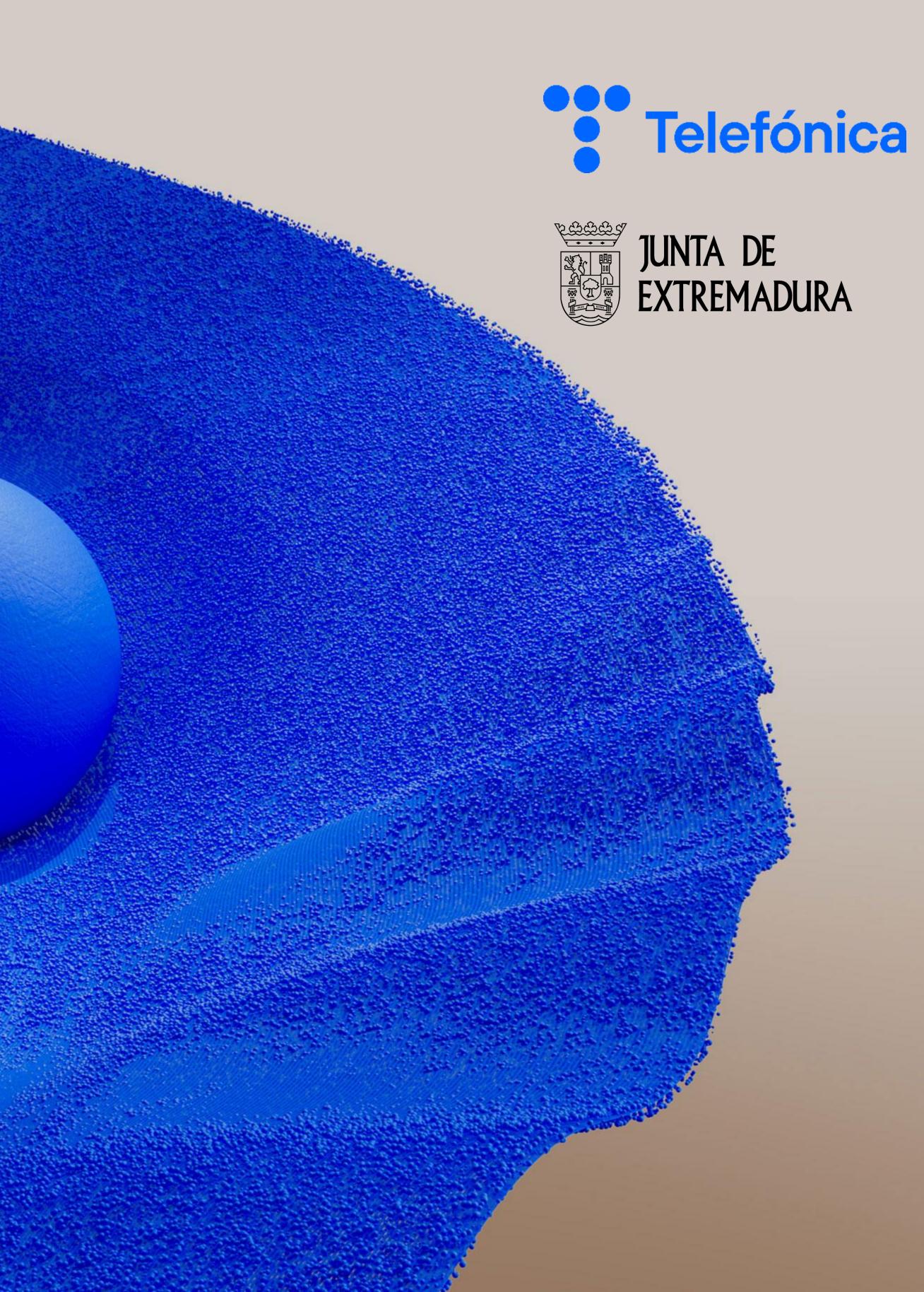
Leading Change Inspiring Progress

5G Network Slicing critical communications

A revolution for emergencies and







01Innovating with **112 Extremadura**

20 minutes





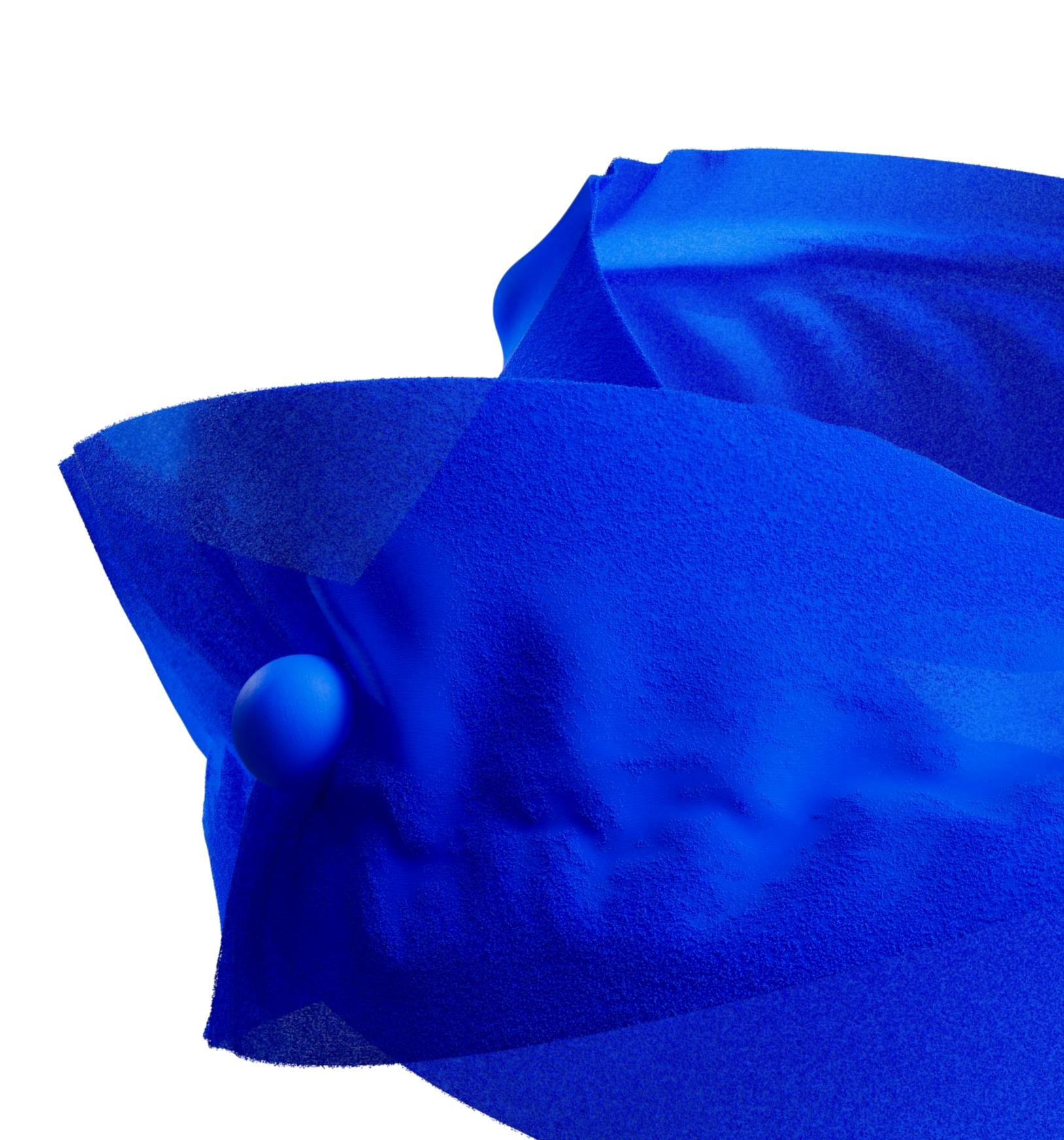
Network Slicing: a commercial reality

10 minutes

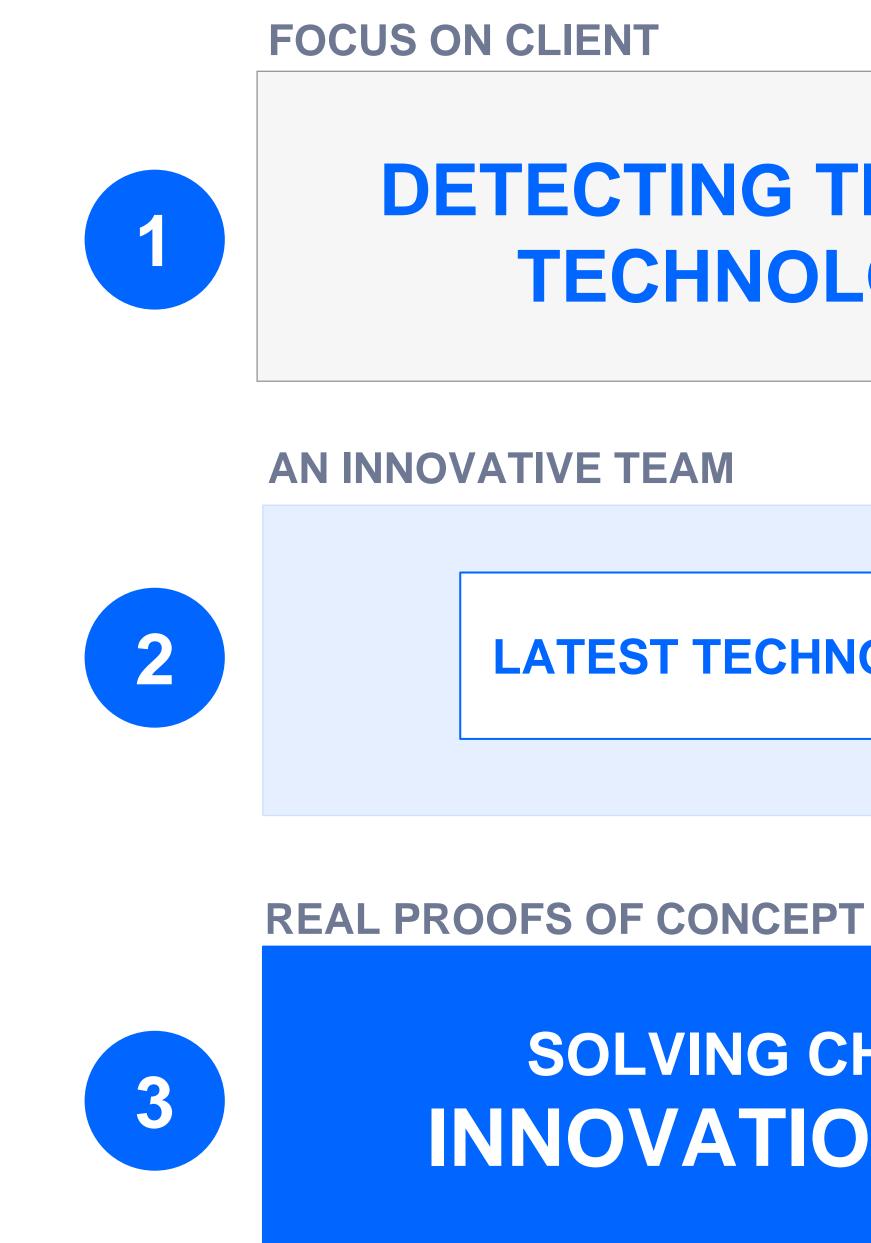
03 The future of **Network Slicing**

10 minutes

01 Innovating with 112 Extremadura



MWC 2025 The impact of innovation







DETECTING THE MOST INNOVATIVE BUSINESS AND TECHNOLOGY NEEDS OF OUR CUSTOMERS

LATEST TECHNOLOGIES MIX

+

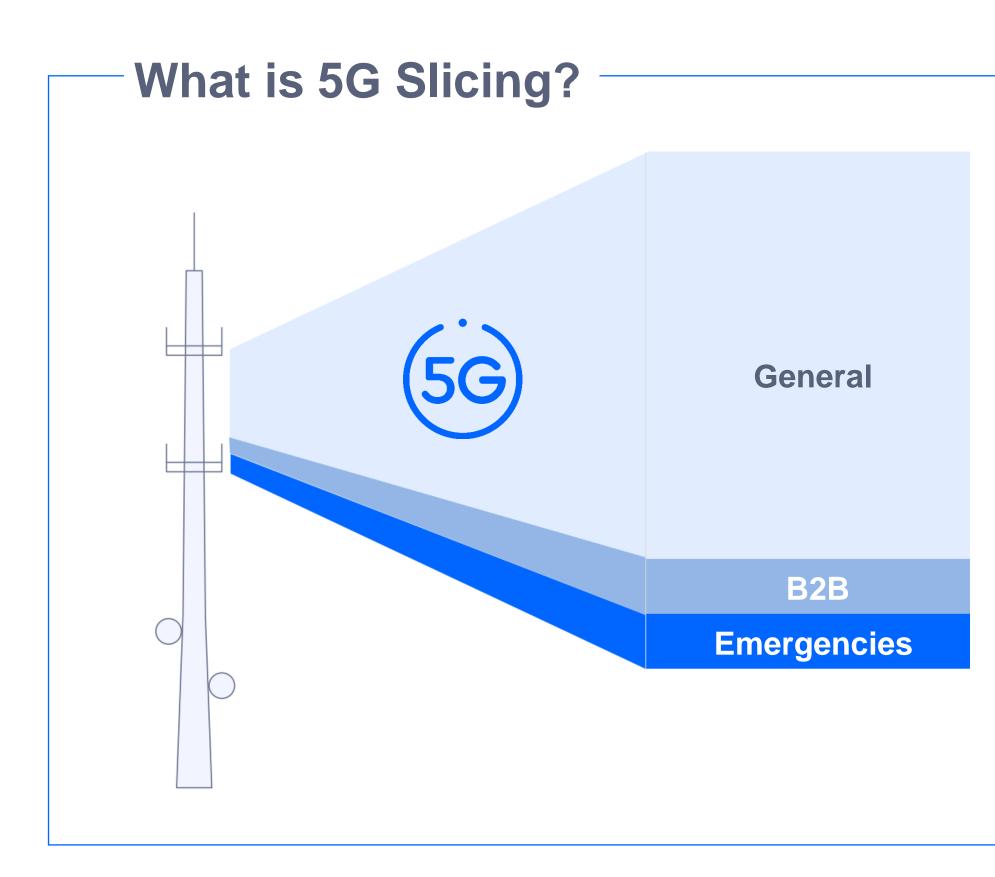
VALUE PROPOSITION AND TELEFÓNICA'S STRATEGY

SOLVING CHALLENGING CUSTOMER NEEDS THROUGH INNOVATION AS THE PATH TO BUSINESS DEVELOPMENT

https://www.telefonica.es/es/innovacion/

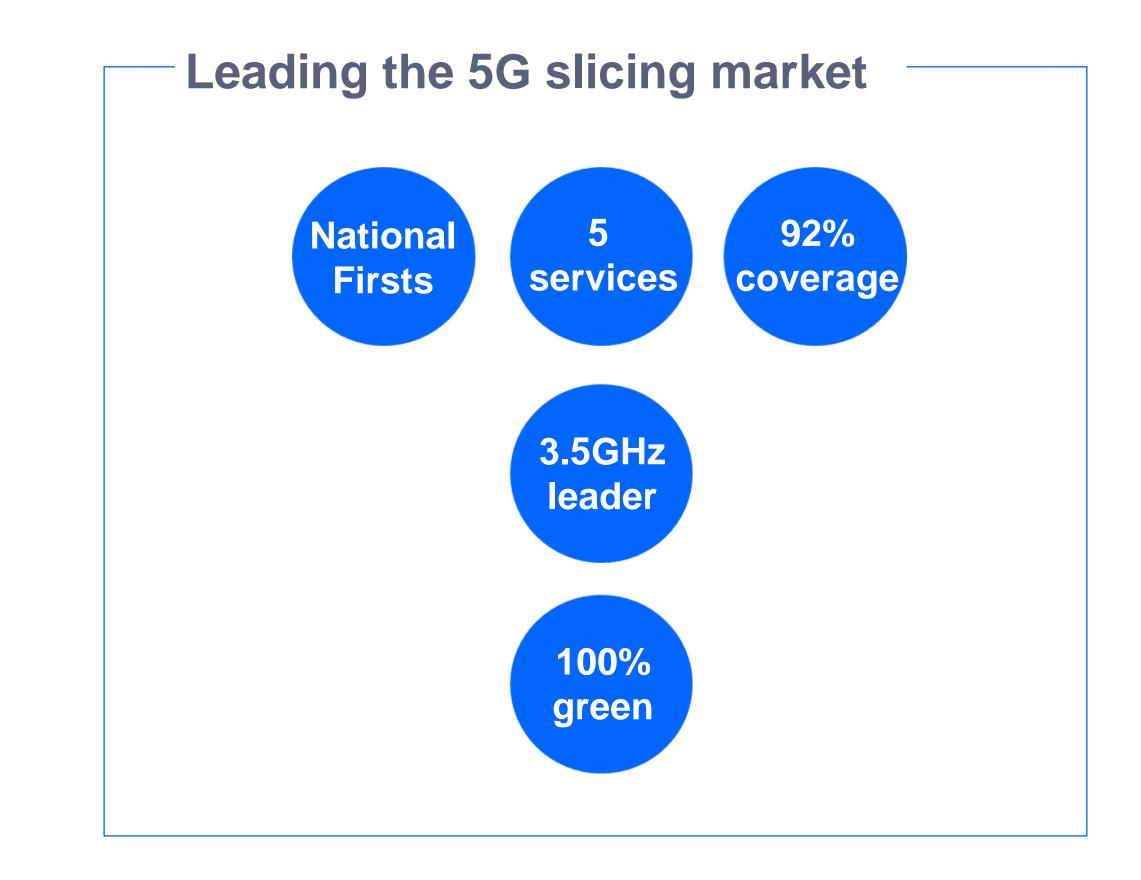
MWC 2025 The impact of innovation

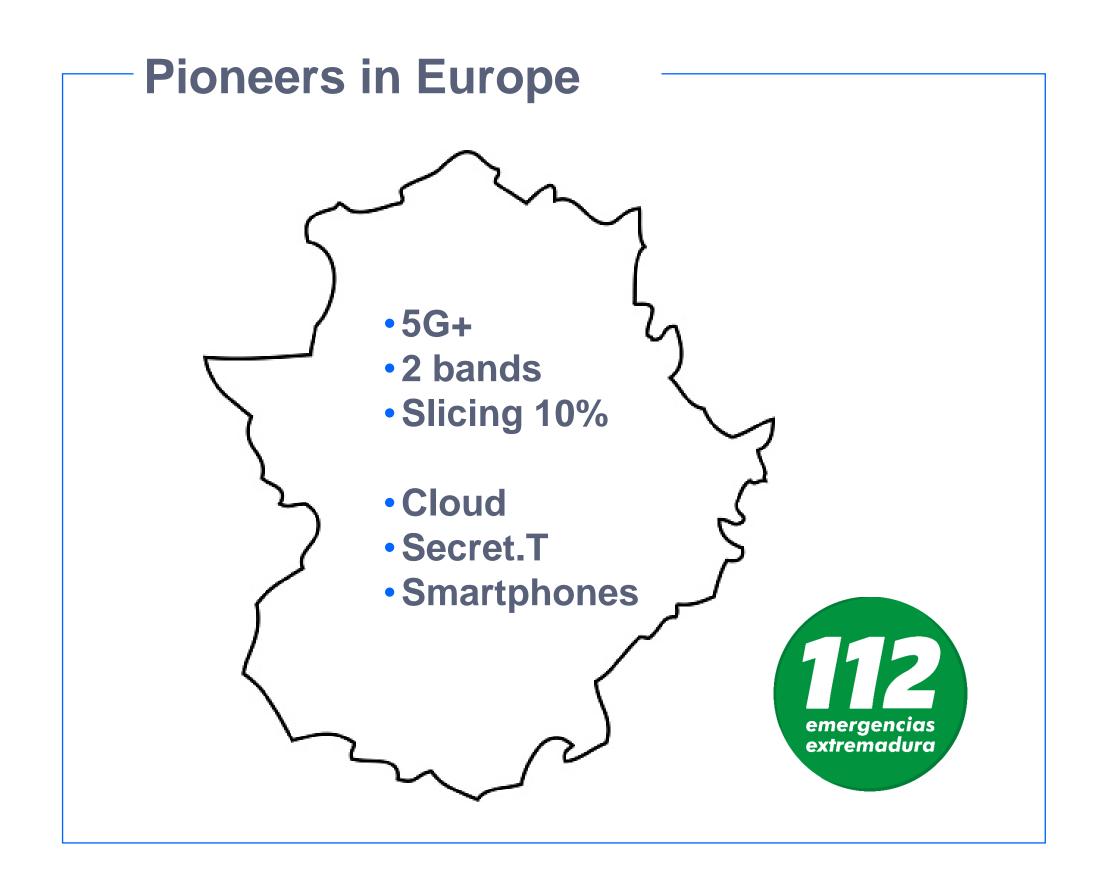
5G Network Slicing: a technology born from Innovation

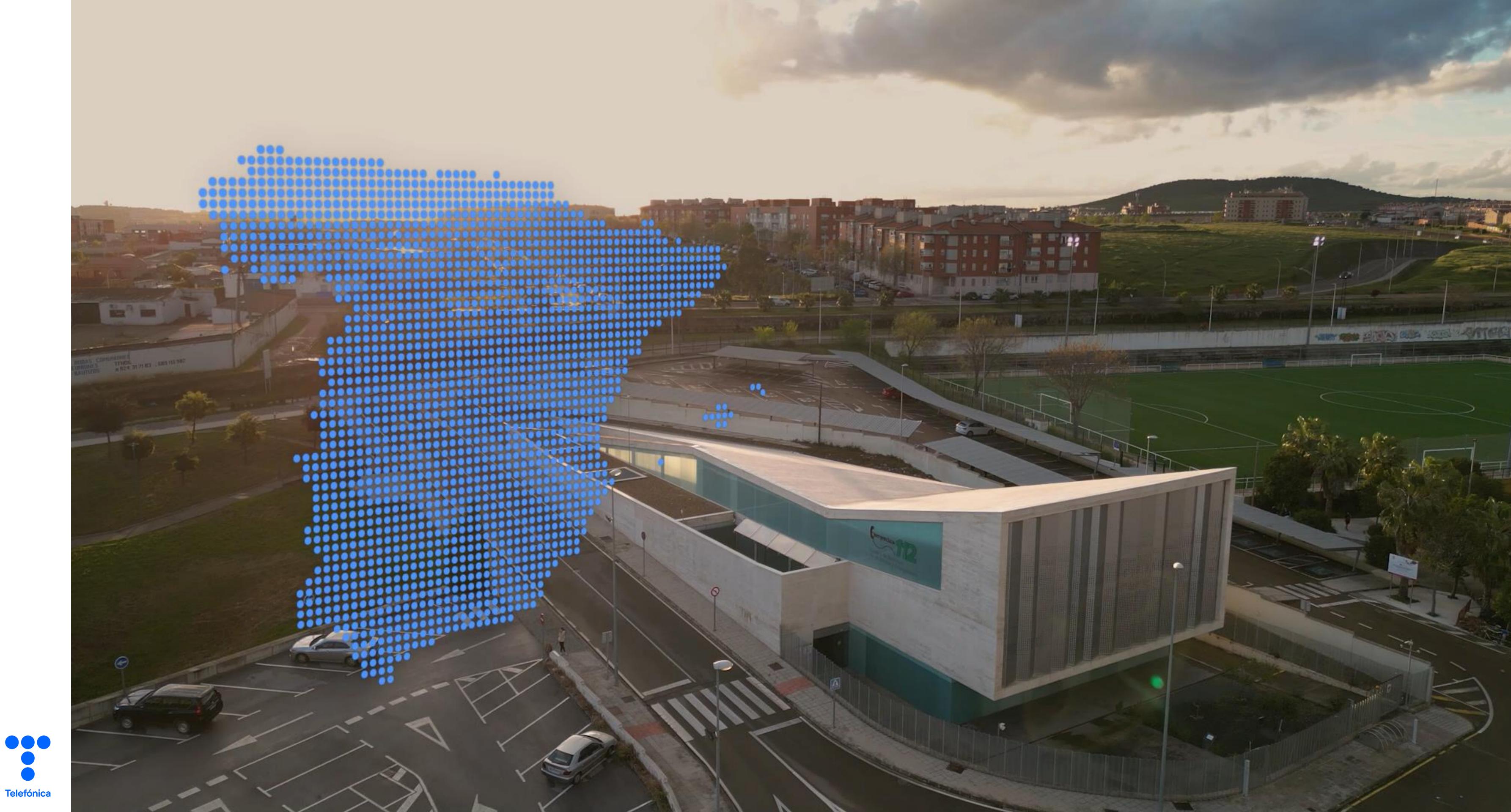














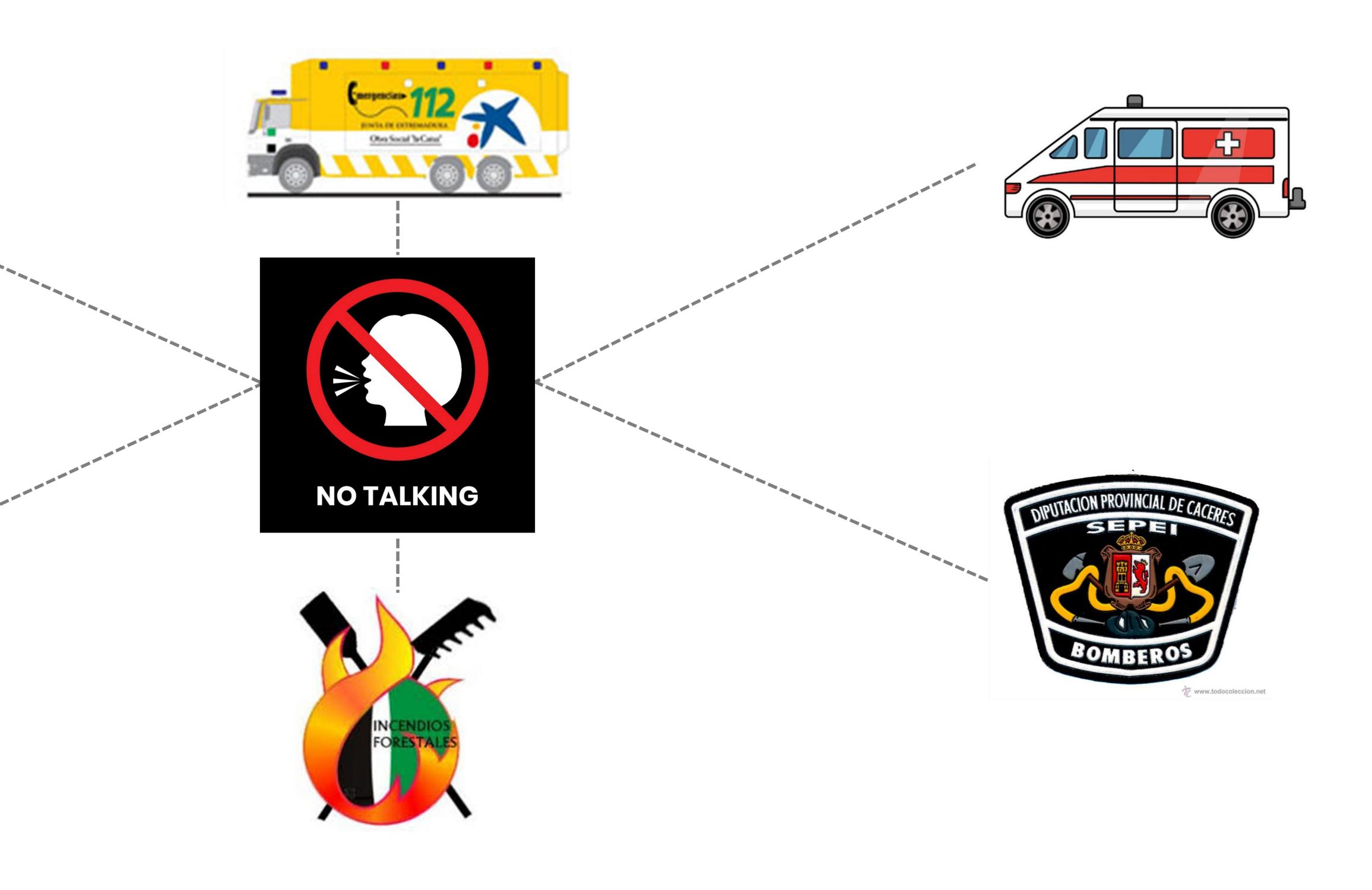
MWC 2025 – 112 EXTREMADURA INNOVATING WITH TELEFÓNICA **PROBLEM! Current Situation in extraordinary emergencies...**











MWC 2025 – 112 EXTREMADURA INNOVATING WITH TELEFÓNICA





5G Slicing 3500MHz and 700MHz







Which use cases is 112 Extremadura testing?

Cell on wheels + slicing Backhaul links



Mission Critical Services

MCX (MCPTT-Video-Data) User Experience

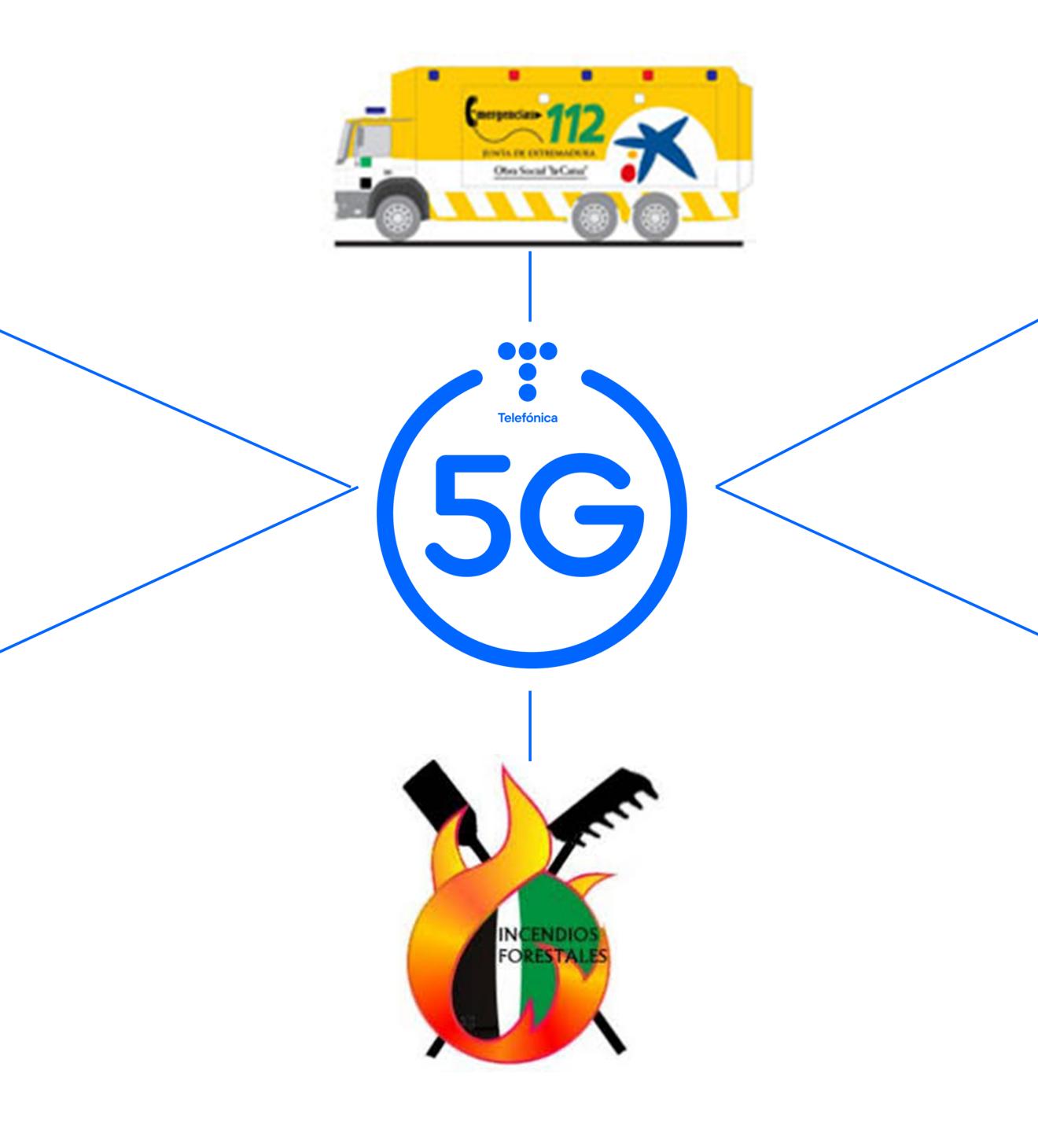
MWC 2025 – 112 EXTREMADURA INNOVATING WITH TELEFÓNICA OPPORTUNNITY APPEARS: LET'S GO!







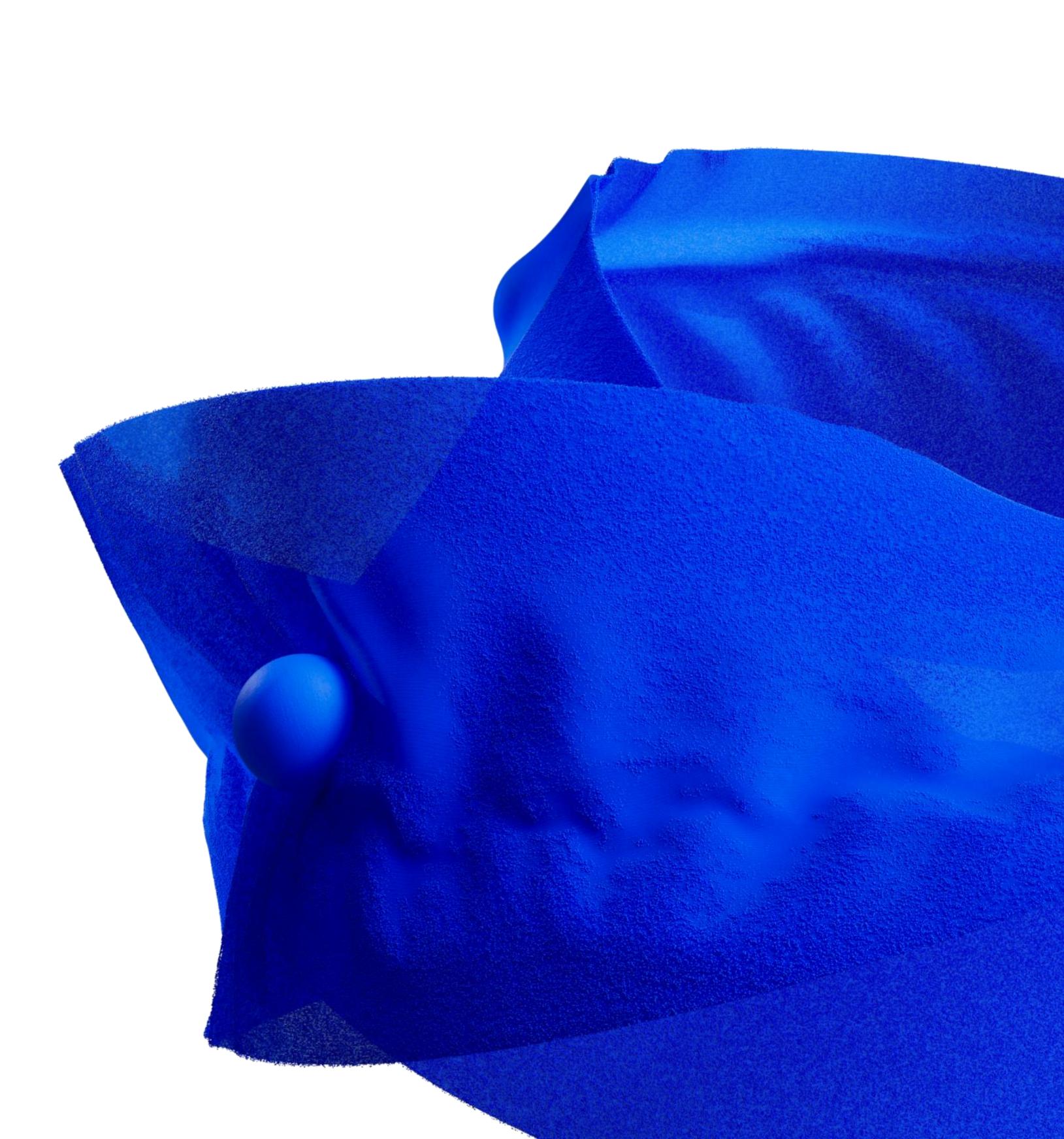








02 Network Slicing: a commercial reality

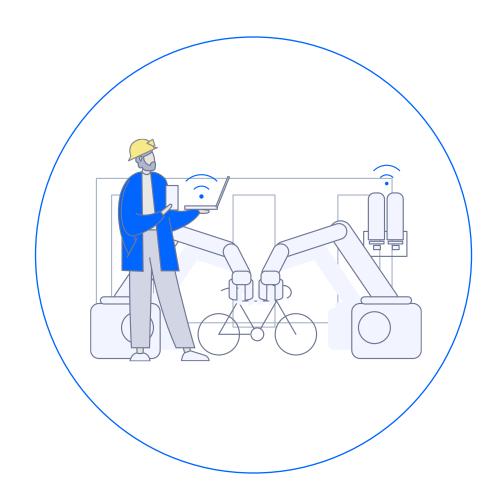


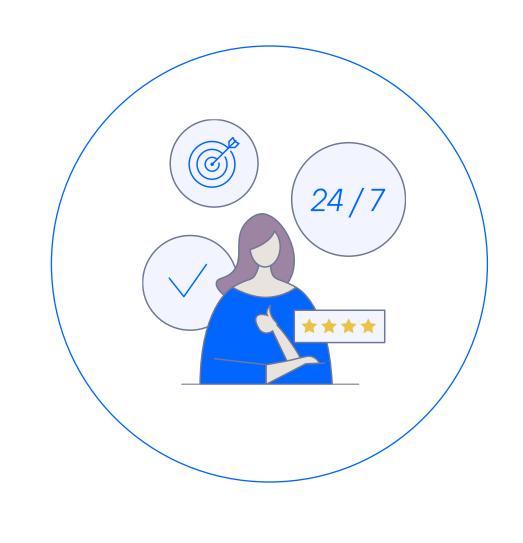
Mobile connectivity has become more relevant for B2B customers and best effort is not good enough for all use cases



Workforce on the go

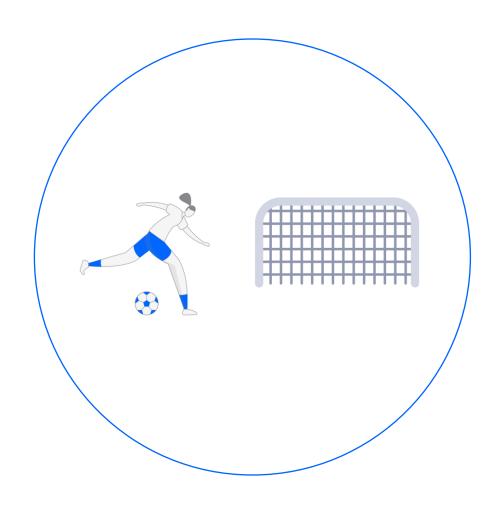






Critical devices

Fixed network redundancy / alternative



High density environments







Slicing Network technical capability to provide differentiated quality of service on the mobile network

MWC 2025



Mobile QoD API

3rd party B2B/B2B2X services or fast PoCs





Mobile QoD API service

Network & IT Systems Slicing capability

MWC 2025 Slicing is now a commercial reality incorporated in Telefonica Spain's portfolio

Mobile QoD API

3rd party B2B/B2B2X services or fast PoCs

API က

Mobile QoD API service

Movistar Intranet Premium & Red privada virtual

> Private 5G as a Service over the public network









Mobile QoD API



Mobile QoD APIs

WAN underlay (VPN-IP 5G / DIBA 5G)

Primary or back-up connectivity for CPE in customer sites



Connectivity service





Mobile QoD APIs



Network & IT Systems Slicing capability

Corporativo Móvil 5G Premium



Premium service for VIP / Critical B2B customer lines



Connectivity service





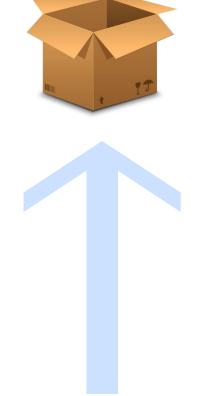
Mobile QoD APIs

5G Misión Crítica

Mobile connectivity for Public Safety services (police, firefighters...)



Connectivity service

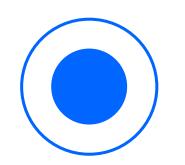






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An API-first approach based on Open Gateway APIs has accelerated Product Innovation whilst improving efficiency



Improve cost efficiency

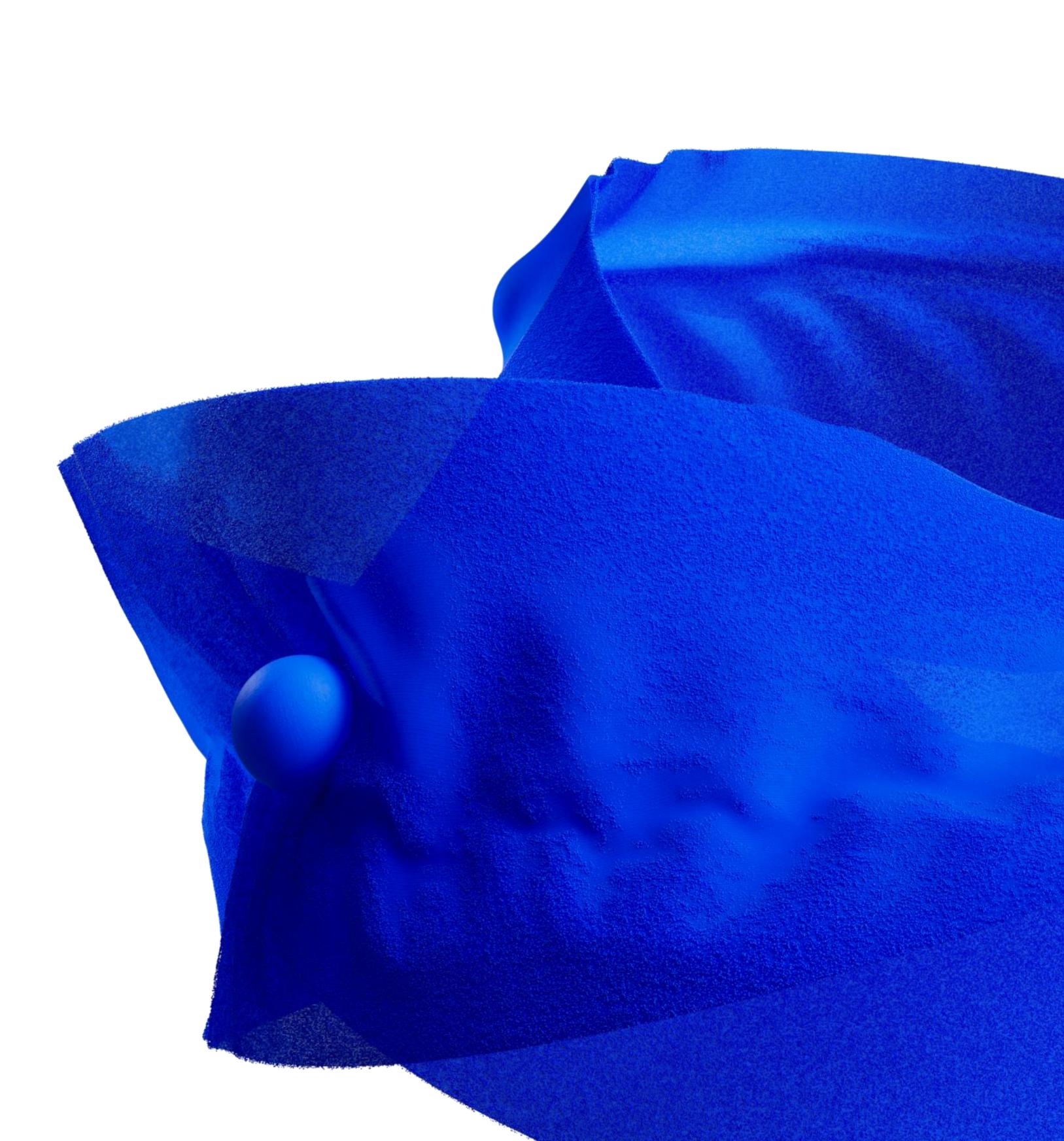


Immediate replicability across portfolio – Faster TTM

Flexible and agile operating and business models

Enable 3rd party global innovators with multi-telco footprint

03 The future of Network Slicing



MWC 2025

Network Slicing can enhance even more the customer experiences

DELIVERING THE CUSTOMER THE CONTROL OF WHICH SPECIFIC APPLICATIONS ARE USING WHICH CONNECTIVITY SERVICE

ADVANCED COLLABORATIVE NETWORK PROTOCOLS TOGETHER WITH NETWORK SLICING CAN ACHIEVE LOWER LATENCIES, LOWER PACKET LOSSES AND SCALABLE THROUGHPUT EVEN DURING CONGESTION SITUATIONS

INDUSTRIALIZATION OF NETWORK SLICES NEEDS TO BE A REALITY EVEN IN NETWORK SHARING SCENARIOS: TELEFONICA IS WORKING ON THE DEFINITION OF THE DYNAMIC NETWORK SLICING IMPLEMENTATION **BETWEEN OPERATORS**



TELEFONICA IS LEADING MAIN TELCO STANDARDS EVOLUTION TO TAKE NETWORK SLICING EXPERIENCES TO THE NEXT LEVEL:

APP TOKEN DEFINITION IN GSMA

- Keeping customer privacy
- Authenticating applications with tokens
- Ensuring service integrity
- CUSTOMER owns the steering rules

L4S IMPLEMENTATION

- Customer device, 5G RAN, 5G CORE and OTT collaborate to adapt bitrates during congestion
- Applicable on specific Network Slices

MWC 2025 Wrapping up

INNOVATION

Pioneering critical comms 112 Extremadura

CUSTOMER REAL NEEDS



COMMERCIAL REALITY

- Real services differenciation
- Services portfolio available
- Qos ogw api

COMMERCIALLY AVAILABLE

INNOVATION LOOP

THE FUTURE

- Dynamic slicing
- Slicing per app
- Control back to the customer
- Collaborative protocols (L4S)
- Network sharing scenarios

EVEN BETTER EXPERIENCES



JUNTA DE EXTREMADURA

Consejería de Presidencia, Interior y Diálogo Social