

## 5G EXPERIMENTATION INFRASTRUCTURE HOSTING CLOUD-NATIVE NETAPPS

## FOR PUBLIC PROTECTION AND DISASTER RELIEF

The 5G-EPICENTRE project aims to lower barriers to 5G adoption and market entry for European SMEs to conduct rigorous experimentation of their products and applications aimed at the public safety market, through the provision of an open, federated, end-to-end experimentation facility

# Re5hapinG the PPDR Community

### The 5G-EPICENTRE Platform

5G is considered to be the next decade mainstream broadband wireless technology and can leverage the efficiency and effectiveness of everyday high demanding operations such as Public Protection and Disaster Relief (PPDR). LTE-Advanced systems as well as 5G are both considered as a mission critical PPDR technologies able to address the needs of mission critical intelligence. The 5G-EPICENTRE Platform is the product of the homonymous project funded by the European Union within the Horizon 2020 funding programme and offers an environment for open, end-to-end experimentation focusing on software solutions that serve the needs of PPDR. The Platform allows coding and testing of mobile solutions over a fully featured 5G network, supported by experimentation analytics driven by Machine Learning and a wide array of Network Applications.





## **5G EXPERIMENTATION INFRASTRUCTURE** HOSTING CLOUD-NATIVE NETAPPS FOR PUBLIC PROTECTION AND DISASTER RELIEF

#### Features ×== $\langle \rangle$ PPDR-based trials of End-to-end 5G Automation. Impact-driven Developers can Al-assisted experiment with PPDR 5G-enabled systems experimentation continuous deployment dissemination. cognitive experiment to verify their tailored to the needs and multi-access standardisation applications via the coordination and robustness even in of the PPDR and exploitation. '5G Experiments as a lifecycle management. edge computing. Service' model. extreme conditions. market players. **Testbeds & Benchmarking** Aveiro Berlin Suitable for Video & Throughput 5G scenarios Suitable for Drone Management scenarios Ideal for: Ideal for Studying the behaviour of drone-based PPDR solutions Studving the behaviour of a video · Identifying the effect of traffic on the different layers •

### Barcelona

Suitable for Instantiation & Latency scenarios

#### Ideal for

· Studying how a PPDR service can be instantiated, towards auto-recovery solutions

· Identifying the needs of these solutions, the time events, and the corrective measures that may have impact on the deployment time

Analysing the radio interface, latency, and its influence on the handling of UAVs

### Malaga

Suitable for QoS & Slicing scenarios

#### Ideal for

- Studying the behaviour of PPDR solutions when a QoS management is available . Identifying the needs of these solutions, the drawbacks detected during the
- project, and the corrective measures





5Epicentre 🏏