



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

5G-EPICENTRE 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.

OBJECTIVES

- 1 Build an end-to-end 5G experimentation platform specifically tailored to the needs of the public safety and emergency response market players.
- 2 Pilot 5G systems in PPDR-based trials, successfully demonstrating 5G-EPICENTRE onboarded apps as a crucial communications accompaniment to public safety mission critical communications technologies.
- 3 Cultivate a '5G Experiments as a Service' model, which will enable developers and SMEs to experiment with PPDR applications in parameterized, easily repeatable, and shareable environments.
- 4 Implement impact-driven dissemination, standardisation and exploitation.
- 5 Facilitate automation, continuous deployment and multi-access edge computing supported by containerized network functions, so as to reduce service creation time and time-to-market for 5G solutions.
- 6 Leverage Artificial Intelligence for achieving cognitive experiment coordination and lifecycle management, including dynamic 5G slicing, application awareness and insightful ML-driven analytics.

USE CASES

- UC 1: Multimedia MC Communication and Collaboration Platform
- UC 2: Multi-agency and multi-deployment mission critical communications and dynamic service scaling
- UC 3: Ultra-reliable drone navigation and remote control
- UC 4: IoT for improving first responders' situational awareness and safety
- UC 5: Wearable, mobile, point-of-view, wireless video service delivery
- UC 6: Fast situational awareness and near real-time disaster mapping
- UC 7: AR and AI wearable electronics for PPDR
- UC 8: AR-assisted emergency surgical care

CONSORTIUM

