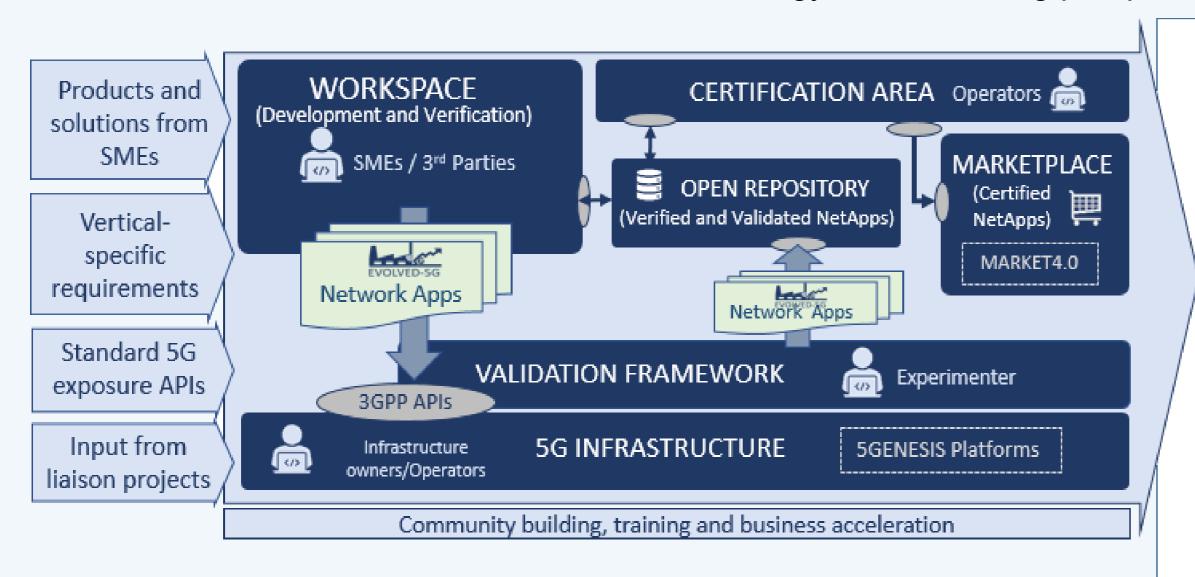


Call: H2020-ICT-2018-2020
Topic: ICT-41-2020
Action: Research and Innovation

Duration: Research and Innova-Duration: 30 month Start date: 1 January 2021

# Experimentation and Validation Openness for Long-term evolution of VErtical inDustries in 5G era and beyond

The intense research work on 5G experimentation in Europe has reached the point where the evolved 5G capabilities, provided through a Service-Based Architecture (SBA), are to be exploited by third party innovators. An endeavor that is expected to shape a new and dynamic ecosystem in mobile networks from both the technology and marketing perspectives.

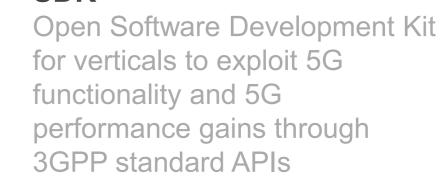




## **EVOLVED-5G** embraces the potential of the emerging Network App ecosystem under a two-fold scope:

- to build an open experimentation facility for Network App creation, validation, and certification. Developed Network Apps will be validated in the EVOLVE-5G Pilots -Athens & Malaga 5G Platforms-, built upon 5G-PPP ICT-17 experimentation infrastructure from H2020 5GENESIS project.
- to provide the means and the tools for long term evolution of 5G-enabled vertical industries.

#### SDK





SDK

#### **VERIFICATION & VALIDATION**

test complete network services in multi-domain environments, automation in the validation process, and vertical- to networklevel measurement campaigns



#### **CERTIFICATION**

individual ecosystem with a set of certification programs to securely isolate the operator's tools and allow a wider openness of the workspace and the validation facility to third parties



#### **PUBLICATION**

active online Network App store where verticals can interact with, publish, search, discover, acquire and deploy Data Services

### **Network Apps for the Factory of the Future**



Intent-driven Chatbots for precise maintenance



Haptic-driven console for industrial surface repairing (hot bonding)



IoT/M2M-based remote monitoring platform



ML-driven anomaly detection system for Industrial Processes



L7-aware Whitebox Switch with Dynamic SFC & TSN Support



Al based video analyzer for industrial & robotics safety



Al-driven Humanoid robot / logistic robotic fleets



SIEM (Security information and event management) system



Mixed Reality (MR) assisted manufacturing



IQBT: Blockchain Data Brokerage Engine

**EVOLVED-5G** project will contribute towards the fourth industrial revolution - Industry 4.0.

















































