

Call: H2020-ICT-2018-2020 Topic: ICT-41-2020 Type of Action: Innovation Duration: 36 months Start date: 1 January 2021

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

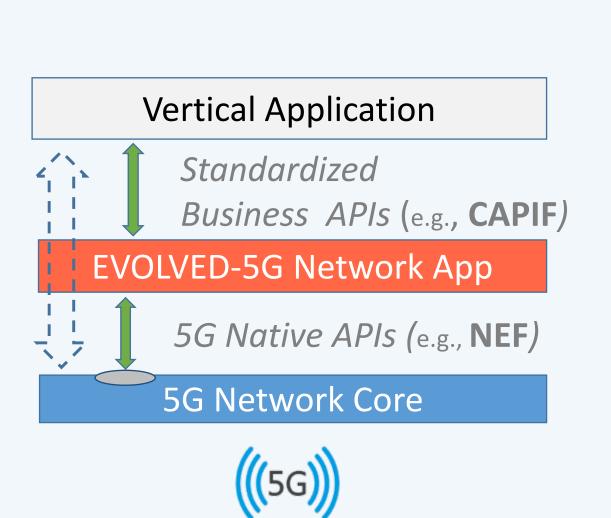
The intense research work on 5G experimentation in Europe has reached the point where the evolved 5G capabilities, provided through a Service-Based Architecture (SBA), are to be exploited by third party innovators. An endeavor that is expected to shape a new and dynamic ecosystem in mobile networks from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

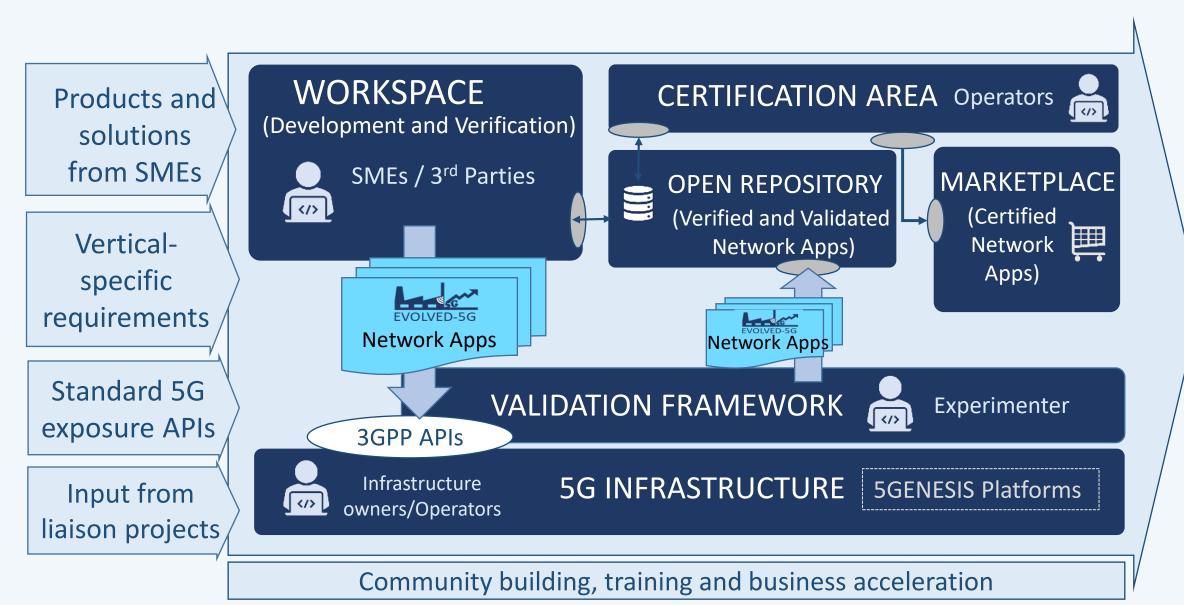


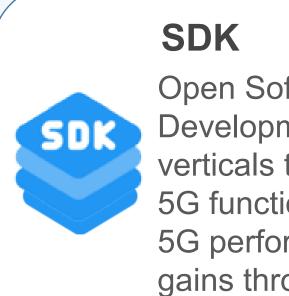
• to provide the means and the tools for long-term evolution of 5G-enabled vertical industries.

• to build an open experimentation facility for Network App creation, validation, and certification.

Developed Network Apps will be validated in the EVOLVED-5G Pilots -Athens & Malaga 5G Platforms-, upon 5G-PPP ICT-17 experimentation infrastructure from H2020 5GENESIS project.







Open Software Development Kit for verticals to exploit 5G functionality and 5G performance gains through 3GPP standard APIs

VERIFICATION

Verify the correct functionality of network services provided by a **Network Application**

VALIDATION

☐ ∵ ✓ Test complete network services in multi-domain environments, automation in the validation process, and vertical- to network- level measurement campaigns

CERTIFICATION

Individual ecosystem with a set of certification programs to securely isolate operator's tools and to a wider openness of the workspace and the validation facility to 3rd 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

IoT/M2M-based remote

monitoring platform



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



ML-driven anomaly detection system for Industrial Processes



L7-aware Whitebox Switch with Dynamic SFC & TSN Support



Al-driven logistic robotic fleets



Al-based video analyzer for industrial & robotics safety

Al-driven Humanoid robot



SIEM (Security information & event management) system



Mixed Reality (MR) assisted



Smart Irrigation system

manufacturing



IQBT Blockchain Data Brokerage Engine

EVOLVED-5G project contributes towards the fourth industrial revolution - Industry 4.0.



EVOLVED-5G COMMUNITY RESOURCES



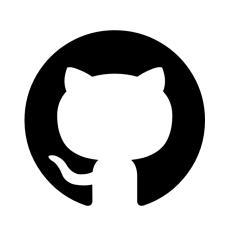
Centralized technical documentation source of the **EVOLVED-5G** project wiki.evolved-5g.eu

FORUM

Public space for inquiries,

discussion, and technical support around EVOLVED-5G-related topics forum.evolved-5g.eu

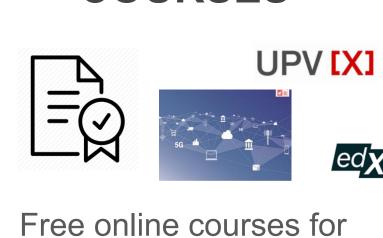
GITHUB



Network Apps & other **EVOLVED-5G** developments at **EVOLVED-5G GitHub** Organization

Open-source code of

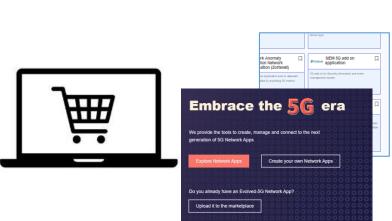
TRAINING **COURSES**



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training step-to-step regarding EVOLVED-5G vision and technical topics, such as Network App development

MARKETPLACE



Free online Network Apps from EVOLVED-5G project, ready-to-use with a large variety of use cases

marketplace.evolved-5g.eu



































































