This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 101016448.
WHAT IS 5GASP?

- “Accelerating SME’s towards the ‘new world’ of 5G-based Network Applications (NetApps)”
- 5GASP offers and operates an Open, and Inter-Domain 5G NFV-based Reference (Open5G-NFV) ecosystem of 5G Experimental Facilities.
- 5GASP platform provides facilities to test and validate NetApps, embracing a fully automated and open DevOps based CI/CD process for developers, which can translate their applications/services into NetApps, taking into consideration vertical-specific requirements.
OBJECTIVES

1. Acceleration of the development, testing and certification of NetApps, through the creation of a common platform, DevOps tools and a certification roadmap.

2. Provide state-of-the-art testbeds where applications for relevant verticals can be tested and validated in a cost-effective way.

3. Innovate technically by addressing inter-domain use-cases, security and trust aspects associated with NetApp deployment and Operation

4. Automate the process of testing and validation, lowering cost associated with testing and certification of NetApps in telecommunication environment.

5. Provide all the community with state-of-the-art tools for test deployment, test automation, continuous integration and monitoring of testbeds, mainly through Open Source Software tools

6. Create a practice community, where developers can share knowledge about 5G NetApps

7. Create a business model around a marketplace of NetApps, by which all stakeholders can share revenue.
HOW TO ACHIEVE

Concept

- DevOps for 5G Networks
- Vertical Testing and Inter-Domain
- NetApp Certification
- Community building in 5G Networks
- NetApps marketplace

Approach

- 5GASP DevOps experimentation and certification readiness lifecycle
5GASP NETAPPS AND ORCHESTRATED USE CASES

Automotive vertical
AUTO-V
Vehicle Route Optimizer in a Virtual OBU with interdomain support and privacy preserving

Cross-vertical
CROSS-V
Autonomous Vehicle Teleoperations / Remote Driving

PPDR vertical
PPDR-V
5G Network Resilience and Privacy in the International Public Safety Operations

Use Cases

Cloud

Auto-v
Vehicle Route Optimizer NetApp

Cross-vertical
V2C/C2V RT Communication NetApp
Remote Human Driving NetApp
FIDEGAD NetApp
5G IOPS NetApp

PPDR

Auto-v
vOBU Provisioning NetApp
vRSU Provisioning NetApp
Multi-domain Migration NetApp
ITS Station NetApp
Efficient MEC Handover NetApp
FIDEGAD NetApp
5G IOPS NetApp

PPDR

Auto-v
vOBU Provisioning Module
Multi-domain Migration Module
V2C/C2V RT Communication Module
Remote Human Driving Module
PPDR M2M Module
CONSORTIUM

- ICT-41-2020 Project
- Start Date: 1/1/2021 (36 months)
- Project Participants:
  - Instituto de Telecomunicações - PT
  - University of Patras - GR
  - University of Bristol - UK
  - VMWare - BG
  - Orange – RO
  - EANTC – DE
  - OdinS – ES
  - Internet Institute – SI
  - Modio Computing – GR
  - YoGoKo – FR
  - BundlesLab - HU
  - DriveU – IL
  - Neobility - RO
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