



5G-INDUCE: Open cooperative 5G experimentation platforms for the industrial sector NetApps

5G-PPP EU H2020 (2021-2024)

To provide an end-to-end orchestration platform over enabling experimentation infrastructures for advanced 5G NetApps applicable in the broader Industry 4.0 sector.
To validate the 5G-readiness of both telecom operators and applications providers, through a 5G system platform that enables the smooth porting of NetApps in Industry 4.0 ecosystems.

- Enable NetApp developers to define and modify the application requirements, while the underlay intelligent OSS can expose the network capabilities at the application level without revealing infrastructure related information.
- Enable an application-oriented network management and optimisation approach that is in line with the operator's role as manager of its own facilities, while offering the development framework environment to any developer and service provider through which tailor-made applications can be designed and deployed, for the benefit of vertical industries and without any indirect dependency through a cloud provider.
- Bring and extend a complete 5G orchestration platform that includes the mechanisms of service deployment, network management and network resource orchestration.
- Separate the concerns between the application and network domains, along with a continuous interaction for dynamic adjustment of both application needs and slice configuration.
- Network Application Orchestrator (NAO) to autonomously manage the lifecycle of vertical applications during runtime independently of the network service functions.
- Interfacing between end users, NAO and OSS/MANO, among others, needs to be defined.

