

SELFNET is driven by use cases designed to address major network management problems through innovative mechanisms for:

SELF-PROTECTION
Capabilities against distributed cyber-attacks

SELF-HEALING
Capabilities against network failures

SELF-OPTIMIZATION
Capabilities to dynamically improve the performance of the network and the QoE of the users.

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SELFNET is one of the first phase projects of the 5G Infrastructure Public Private Partnership (5G-PPP) website: <https://5g-ppp.eu/>

PARTNERS



FRAMEWORK FOR SELF-ORGANIZED NETWORK MANAGEMENT IN VIRTUALIZED AND SOFTWARE DEFINED NETWORKS

SELFNET EXPECTED IMPACT

AT THE MACRO LEVEL

- // Enlarged market share for European network operators and equipment vendors
- // Strengthen the competitiveness of European service providers

AT THE OPERATIONAL LEVEL

- // Improved scalability and extensibility
- // Reduced deployment time to less than 90 minutes
- // Reduced OPEX and CAPEX

AT THE SOCIETAL LEVEL

- // More secured and resilient network and services
- // Enhanced QoE of the end users, bandwidth usage and support for video applications
- // Reduced energy consumption

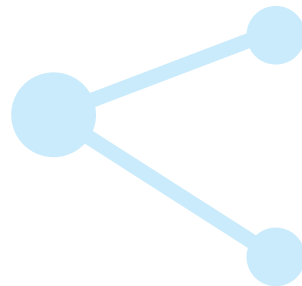




SELFNET is a 36 month project of the 1st Phase of 5G-PPP programme which address the Network Management strand.

START DATE July 2015

SELFNET will investigate innovative schemes to achieve advanced automation of complex **NETWORK MANAGEMENT** operations, providing a network infrastructures with new intelligence to automatization of different functionalities such as: network monitoring, network maintenance, deployment of network management tools and network service provisioning.



SELFNET EXPLORES A SMART INTEGRATION OF STATE-OF-THE-ART TECHNOLOGIES IN:

- // Software-Defined Networks (SDN)
- // Network Function Virtualization (NFV)
- // Self-Organizing Networks (SON)
- // Cloud computing
- // Artificial intelligence
- // Quality of Experience (QoE)

PROPOSED SELFNET FRAMEWORK

