

Xg Open Network & Edge Testbed

XONET

NEXTWORKS
HEADING THE FUTURE

Research, development and innovation



**Open 5G
testbed for
research and
experiments**

Flexible, modular, customizable, end-to-end testbeds

Virtual deployment, container- or VM-based

Beyond mobile networks, with multi-platform and multi-cluster edge/cloud and IoT platforms

Fully open 5G testbeds, ready to integrate new components

Open and documented interfaces at various layers

Standard-based for interoperability and easy integration

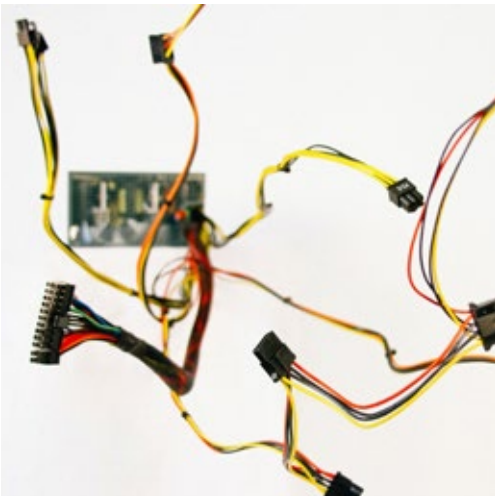
Open-source tools, from mainstream projects or research projects

Integration of simulation tools

Tailored-made solutions, easy to extend in the future

Open-source or proprietary solutions at each layer and domain, for a right balance between stability and openness in every segment

HW and SW selected for your own need, ready for future extensions



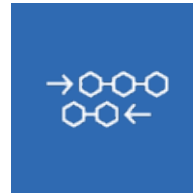
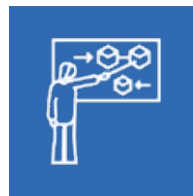
**Open 5G
testbed for
research and
experiments**

Full support from design to training and operation

Technical requirements, design, technology selection, with
extensibility in mind

System integration and customization, deployment and testing
on-site

Documentation, practical training on-site and remote assistance





Typical technical features

Hardware

Server rack PowerEdge R250/R450/R650, with GPU option

Switches and mini PCs for OVS-based programmable transport nodes



Details on the lab 5G NPN



Typical technical features

Software

OpenStack, K8S, K3S



5G CN license / OSS

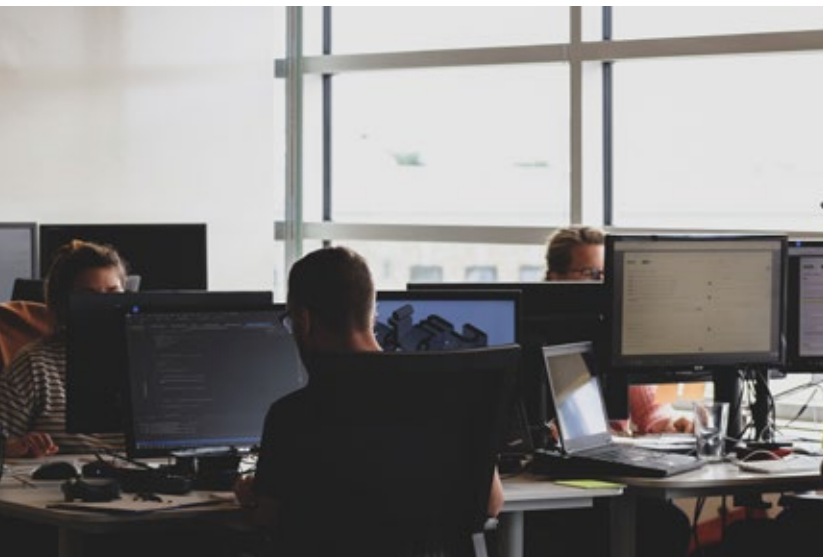
ETSI OSM NFVO

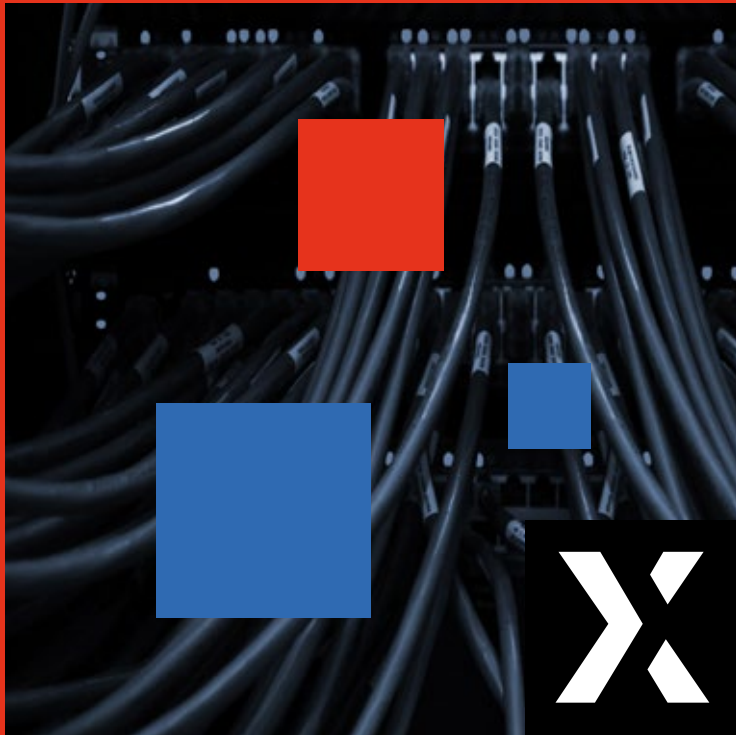
SDN controllers: OpenDaylight, ONOS, ETSI TeraFlowSDN

Simulation/emulation tools: UERANSIM

Additional OSS components developed in EU projects for added value services:

- Network slice management
- Monitoring platform
- Service and resource orchestration
- Experiment management and testing tools







NEXTWORKS
HEADING THE FUTURE

info@nextworks.it
www.nextworks.it

**HQ: via Livornese, 1027-29
56122 Pisa (Italy)**

**Tel: +39-050-3871600
Fax: +39-050-3871601**