Overall Concept

FLECON-6G envisions an “Intelligent 6G Network of Networks” that seamlessly integrates Native and Trustworthy AI. This vision empowers the automated and scalable orchestration of services and capabilities across diverse networks, subsystems, and technological domains, fostering collaboration among multiple stakeholders.

Project's Statistics

36
Months

19
Partners

4
PoCs

FLECON-6G

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Flexible Open Architecture and **AI-driven** Enabling Technologies for a Novel **6G Connectivity** Platform

Key Objectives

01 Develop and deploy an innovative 6G architecture integrating public/private sectors and terrestrial/non-terrestrial components.

02 Design and develop efficient native AI algorithms for intent-driven, multi-stakeholder networks, ensuring generalisability and uncertainty quantification.

03 Enable sustainable resource sharing through a Smart Marketplace for MNOs, infrastructure owners, and developers.

04 Develop and integrate a multi-layer NDT framework within a Zero-Touch 6G network architecture.

05 Develop innovative data transfer paradigms with advanced techniques and deep Edge integration.

06 Establish a collaborative, distributed framework for dynamic, multi-domain 6G networks of networks.

07 Validate FLECON-6G innovations through targeted experimentation and testing in PoCs.

Proof of Concepts (PoCs)

PoC 1

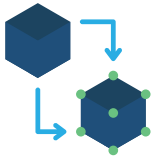
Seamless Immersive Reality (SIR)

PoC 2

Machine Inspection Using Autonomous Robots & VR

PoC 3

Network Digital Twin with NTN



PoC 4

Public Safety Services

Consortium

iSi ATHENA Research & Innovation Information Technologies

EURECOM

cnit consorzio nazionale interuniversitario per le telecomunicazioni

TU Delft

University of Central Lancashire UCLan Cyprus

eBOS Engineered for Excellence Driven by Passion For Innovation

iquadrat

NEXTWORKS HEADING THE FUTURE

BRAINSTORM

e-lighthouse

realworldsystems

AIRBUS

ERICSSON

Lenovo

NVIDIA

SIEMENS

orange

OTE

Telefónica