FLECON-6G

FLECON-6G | @FLECON-6G | www.flecon6g.eu

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

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.

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.

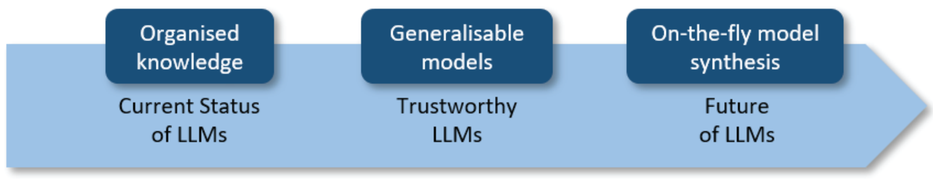
06

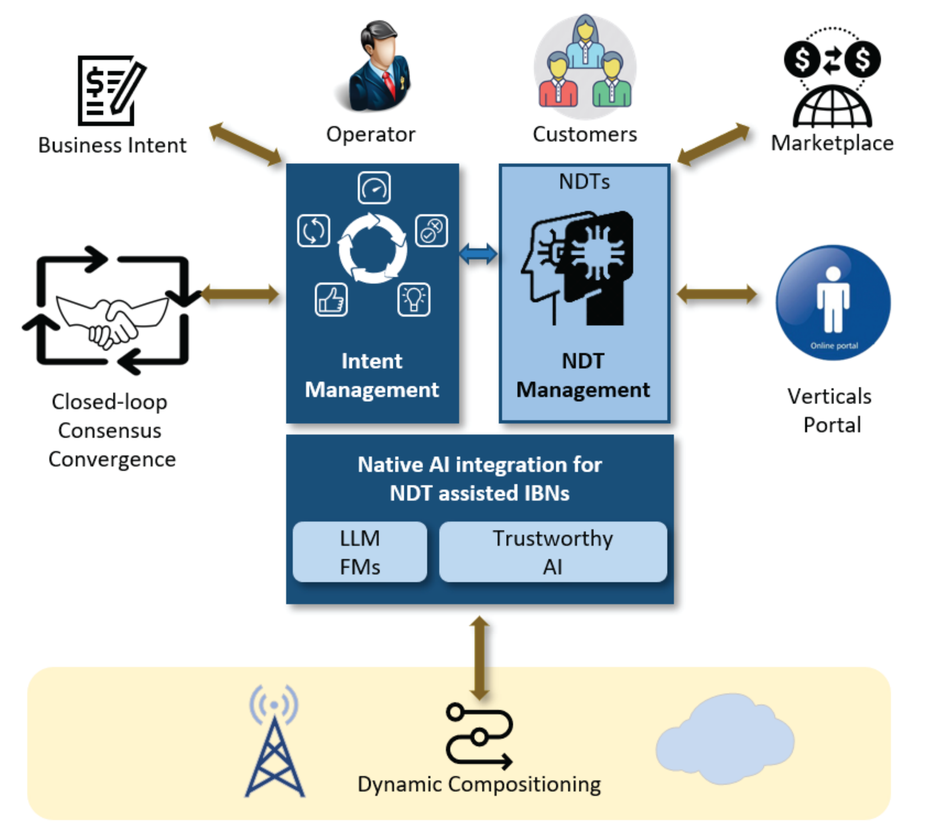
Establish a collaborative, distributed framework for dynamic, multi-domain 6G networks of networks.

07

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

FLECON-6G Vision





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

ATHENA iSI · EURECOM · cnit · TU Delft · University of Central Lancashire UCLan Cyprus · eBOS Engineered for Excellence Driven by Passion For Innovation · iquadrat · NEXTWORKS · BRAINSTORM · e-lighthouse · realworldsystems · AIRBUS · ERICSSON · Lenovo · NVIDIA · SIEMENS · orange · OTE · Telefónica

Funded by the European Union

6GSNS

Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the Smart Networks and Services Joint Undertaking. Neither the European Union nor the granting authority can be held responsible for them.