Distributed Artificial Intelligence-Driven Open & ProgrammableArchitecture for 6G Networks

KEY OBJECTIVES

01 Design and implement an Artificial Intelligence based 6G system architecture

02 Create an AI driven Management & Orchestration for 6G Networks

03 Architect a distributed and secure CrowdSourcing AI

04 Develop energy-aware models for multimodal Representation Learning

05 Evolve the cellular infrastructure towards deep-edge in communication and computation functions

06 Enable Non-Terrestrial Networks connectivity for highly reliable Industrial Internet of Things Services

07 Demonstrate the use of decentralized AI for Device-to-Device communications

08 Support data plane acceleration

09 Demonstrate the value of 6G through relevant Proofs of Concepts

10 Maximize the project's impact

11 Provide rationalized contributions to emerging standards and relevant communities

12 Contribute to the establishment of a globally accepted set of Key societal Value Indicators

Proof of Concepts

PoC 1
Extreme eMBB for immersive Extended Reality

PoC 2
Extreme URLLC for collaborative robots

PoC 3
Extreme mMTC for Industrial IoT

Consortium

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