Distributed Artificial Intelligence-Driven Open & Programmable Architecture for 6G Networks

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

Vision & Key Transformations

ADROIT6G integrates AI-driven intelligence across the entire network, ensuring real-time adaptation, optimization, and efficiency.

AI/ML-Powered Network Optimization

- CrowdSourcing AI Framework
- Distributed BDI Agents
- Federated & Distributed Learning

Software-Driven, Zero-Touch Operations for Automation

- AI-Based Orchestration and Management
- Automated End-to-End Network Slicing
- Intelligent Workload Distribution

Fully Cloud-Native 6G Architectures for Flexibility & Scalability

- Virtual Base Stations (VBS)
- Dynamic Network Slicing
- Edge & Non-Terrestrial Networks (NTN) Integration

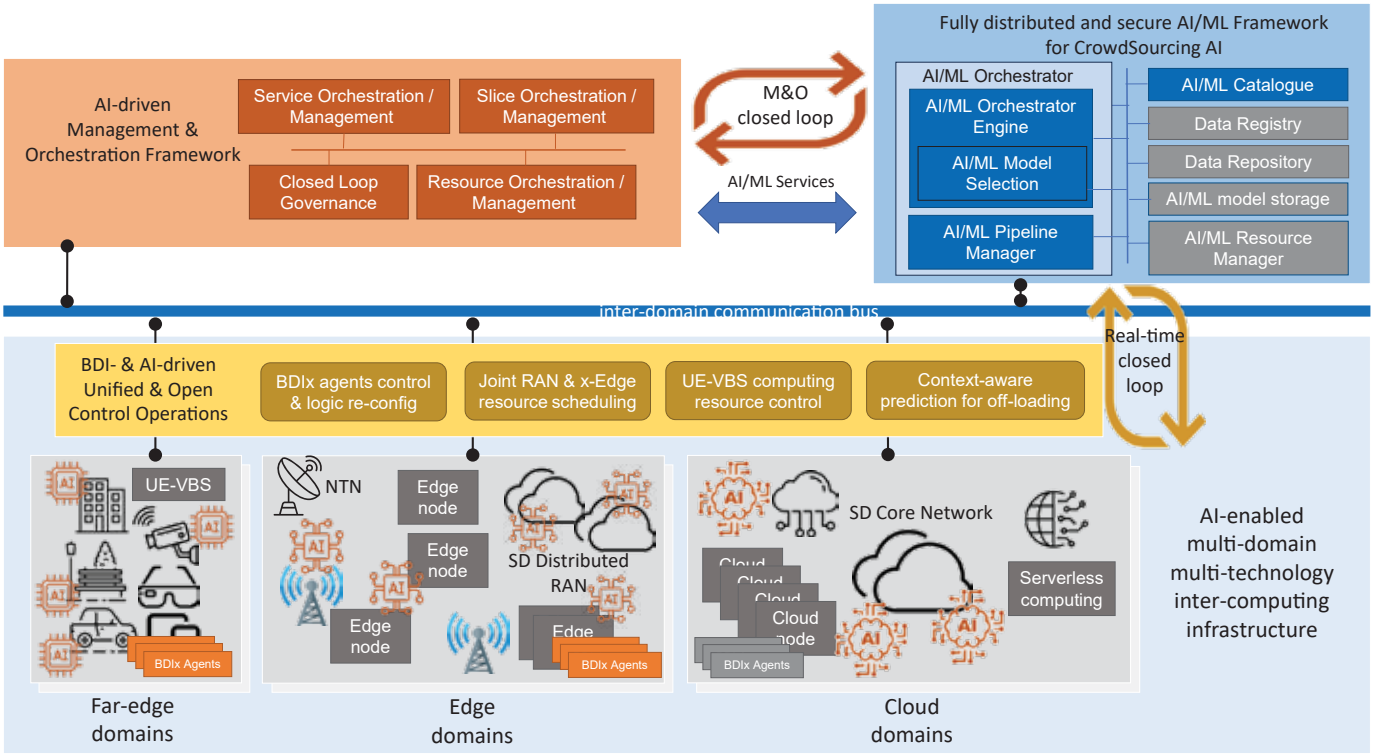
Co-funded by the European Union

6GSNS

www.adroit6g.eu

ADROIT6G project has received funding from the Smart Networks and Services Joint Undertaking (SNS JU) under the European Union's Horizon Europe research and innovation programme under Grand Agreement No 101095363.

ADROIT6G Architecture



Consortium

ATHENA Research & Innovation Information Technologies · isi

CYENS CENTRE OF EXCELLENCE

cnit consorzio nazionale interuniversitario per le telecomunicazioni

EURECOM Sophia Antipolis

UNIVERSITY OF OULU

NVIDIA

NOVA

SIEMENS

orange

CAFA

eBOS Engineered for Excellence Driven by Passion For Innovation

iq

NEXTWORKS HEADING THE FUTURE

Co-funded by the European Union · 6GSNS

www.adroit6g.eu

ADROIT6G project has received funding from the Smart Networks and Services Joint Undertaking (SNS JU) under the European Union's Horizon Europe research and innovation programme under Grand Agreement No 101095363.