

6G Data and ML Operations Automation via an End-to-end AI Framework

6G-DALI eagers to revolutionize the AI-driven automation in 6G, by providing the first of its kind e2e experimentation platform

6G-DALI

Project: 101192750 - 6G-DALI
 Project starting date: 1 January 2025
 Call: HORIZON-JU-SNS-2024
 Project duration: 36 months
 Partners: 13

6G-DALI 6GDali 6GDALI



OBJECTIVES

- Objective 1**
Deliver a user-friendly e2e AI framework for DataOps and MLOps in 6G
- Objective 2**
Deliver Gaia-X and Extract Load Transform (ELT) approaches for DataOps in 6G environments
- Objective 3**
Streamline 6G testbed's trustworthy AI/ML operations via MLOps and AutoML
- Objective 4**
Deliver plug-able adapters to easily integrate 6G testbeds from future calls
- Objective 5**
Build and Integrate a Digital Twin Testbed to generate representative datasets for 6G
- Objective 6**
Ethical data sets and validation methodologies and legislative compliance
- Objective 7**
Dissemination, Communication, Exploitation and Standardization

USE CASES

- 1**
Data management and experiment on demand
 - Data on-demand and enhanced ELT pipelines
 - Data search and extraction via Gaia-X service catalogue
- 2**
AlaaS for Content Delivery Network apps via cross-testbed decentralized MLOps
 - Hyperparameter optimization and placement of ML models at the Cloud-Edge-Continuum
 - ML model benchmarking and drift detection during vertical application testing
- 3**
Digital Twins Testbed and RLOPS for large and medium-scale experiments
 - Medium-scale DT experimentation for O-RAN
 - Large-scale experimentation for RLOps



Co-funded by the European Union



6G-DALI 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 101192750.