aerOS
EUROPEAN IOT-EDGE-CLOUD

aerOS: Autonomous, scalablE, tRustworthy, intelligent European meta Operating System for the IoT edge-cloud continuum

PILOT 2: Containerised Edge Computing near Renewable Energy Sources

CloudFerro, Electrum and Sripas

Pilot & Scenario Overview

The primary goal of Pilot 2 is to prove applicability of aerOS for set up and management of cloud-edge architectures distributed between "big" central clouds and small edge nodes.

At each edge node location there is green energy provider producing power and relaying information and events from the deployed smart devices.The edge nodes will have connectivity to the private cloud infrastructure of CloudFerro.

Infrastructure & Technology

There will be two Containerized Edge Nodes connected to green energy. They will be based on Containers and bare metal machines with provisioned and important software components to provide an appropriate environment (Kubernetes clusters).

Objectives & Benefits

- Outcome 1: Reduction in the energy consumption due to the transfer of AI and real-time analytics to the edge nodes.
- Outcome 2: Definition and implementation of energy and network conscious management tools and procedures.
- Outcome 3: Flexibility, portability and scalability of the aerOS concept in the IoT-edge-cloud continuum.

CONSORTIUM

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