Start: 01.01.2023

Duration: 36 months

Call: HORIZON-CL4-2022-DATA-01-03

Topic: Programming tools for decentralised intelligence and swarms

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P2CODE

Programming Platform for Intelligent Collaborative Deployments

Innovating and creating a wide-open, secure and trusted IoT-to-edge-to-cloud compute continuum to realize the true potential of edge intelligence.

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Objectives

- Design and implement a highly scalable infrastructure management layer.

- Develop a robust and scalable application and business programmability stratum (ABPS) to manage a large number of geo-distributed instances.

- Design and implement an open and extensible programming toolset to facilitate the development and management of highly efficient applications on edge-connected nodes.

- Develop a trusted, interoperable, scalable, and secure framework for data distribution and IoT.

- Deploy a reference cloud-managed testbed integrating open best-of-breed data plane technologies with edge computing capacity wired interconnected IoT systems.

Application Areas

Smart Logistics
Evaluate scenarios for smart logistics at terminal stations through application-level programmability.

Smart Worker Assistant
Create a prototype digital HV substation.

Utilities Inspection
Achieve effective management and improving adaptive human-machine interaction in smart factories while boosting healthy operators.

Smart PPDR
Evaluate scenarios for smart PPDR with UAVs and ground robot through collaboration and coordination.