**Start:** 01.01.2023

**Duration:** 36 months

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

**Topic:** Programming tools for decentralised intelligence and swarms

# FOLLOW US

X    in    ▶

uni.systems  RedHat  NEC  FIWARE FOUNDATION  SIEMENS

ipto  MADE Competence Center I4.0  UBITECH  Suite5  iLINK

K3Y  agentscape  axon logic  arhs DEVELOPMENTS HELLAS  MARTEL innovate

ΠΑΝΕΠΙΣΤΗΜΙΟ ΠΑΤΡΩΝ  POLITECNICO MILANO 1863  UNIVERSITY OF THE WEST of SCOTLAND UWS  MANCHESTER 1824 The University of Manchester

# 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.

p2code-project.eu

# 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 Inception
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.