Consortium: O-CEI project unites **58 partners** from **19 countries**, including key industrial players, academic institutions, research organizations, SMEs, and a non-profit organization.

Learn more about O-CEI:

o-cei.eu

@O-CEI Horizon

@O_CEI_Horizon

info@o-cei.eu

O-CEI

o-cei.eu

Open Cloud-Edge-IoT Platform Uptake in Large-Scale Cross-Domain Pilots (O-CEI)

O-CEI is a Horizon Europe Innovation Action program that aims to create an open Cloud-Edge-IoT (CEI) platform with a strong focus on interoperability, security, and reliability, making it easier for different sectors to implement novel CEI utilities as well as to share data and knowledge in real time. This will enable faster, more accurate predictions in energy flexibility, helping industries to become more adaptable to energy demands. O-CEI looks for a more sustainable and resilient CEI ecosystem, fostering a smoother transition toward a cleaner energy future.

O-CEI applicability – verticals and pilots

6 key strategic verticals:

- Electricity grid
- Software-defined vehicles
- Logistics
- Electro mobility
- Agrifood and agriculture
- Urban environments

O-CEI Innovative Outcomes

01 **O-CEI Data Sharing Platform**
To share metrics and information about prosumers and infrastructure

02 **O-CEI Cross-Domain Continuum Ontology**
To allow federation of resources

03 **Federated Marketplace**
To discover, select and allow installation from other examples

04 **Pre-Normative**
Standardisation on O-CEI deployments

05 **Adoption Methodology**
Facilitating uptake for other LSPs based on blueprints

06 **Business Model**
Exploitation roadmap of flexible and efficient energy using edge computing

8 large-scale pilots:

P1 Electricity grid optimization upon RES integration

P2 SDV for Vehicle as Software

P3 Smart BEV charging for green postal fleet operations

P4 Energy management in challenging maritime port scenario

P5 Sustainable dairy extensive production process

P6 Efficiency of e-tractor operations in large-scale kiwi crops

P7 Private 5G deployment for enhanced EV distributing charging

P8 Social acceptance of energy flexibility in urban areas