

# ODEON

FEDERATED DATA AND INTELLIGENCE ORCHESTRATION &  
SHARING FOR THE DIGITAL ENERGY TRANSITION

# PROJECT INTRODUCTION



Funded by  
the European Union

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## HORIZON-CL5-2023-D3-01-15

Supporting the green and digital transformation of the energy ecosystem and enhancing its resilience through the development and piloting of AI-IoT Edge-cloud and platform solutions

## 5 PILOT SITES

Distributed in 5 different EU member states

# ODEON AT A GLANCE

## 48 MONTHS

Starting in January 2024  
Ending in December 2027

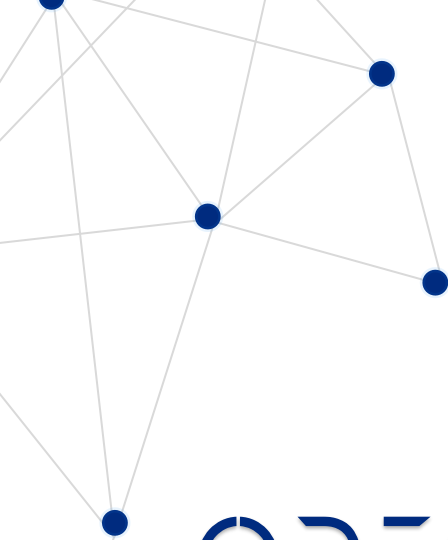
## 34 PARTNERS

From 13 different member states

## TOTAL BUDGET:

22.56 M€

Total funding: 17.87 M€



# ODEON PARTNERS





ODEON goals

# BUSINESS INNOVATION AND MARKET UPTAKE GOALS

ODEON aims to revolutionize the **Green and Digital Energy transition** through the creation of an inclusive ecosystem of stakeholders characterized by the **integration of a mesh of Data, Intelligence, Service, and Market flows in the energy system**. ODEON enables the resilient operation of the energy system considering the increased **RES integration**, and the effective orchestration of **the flexibility** from assets residing at the edges of the system (edge-computing).

01

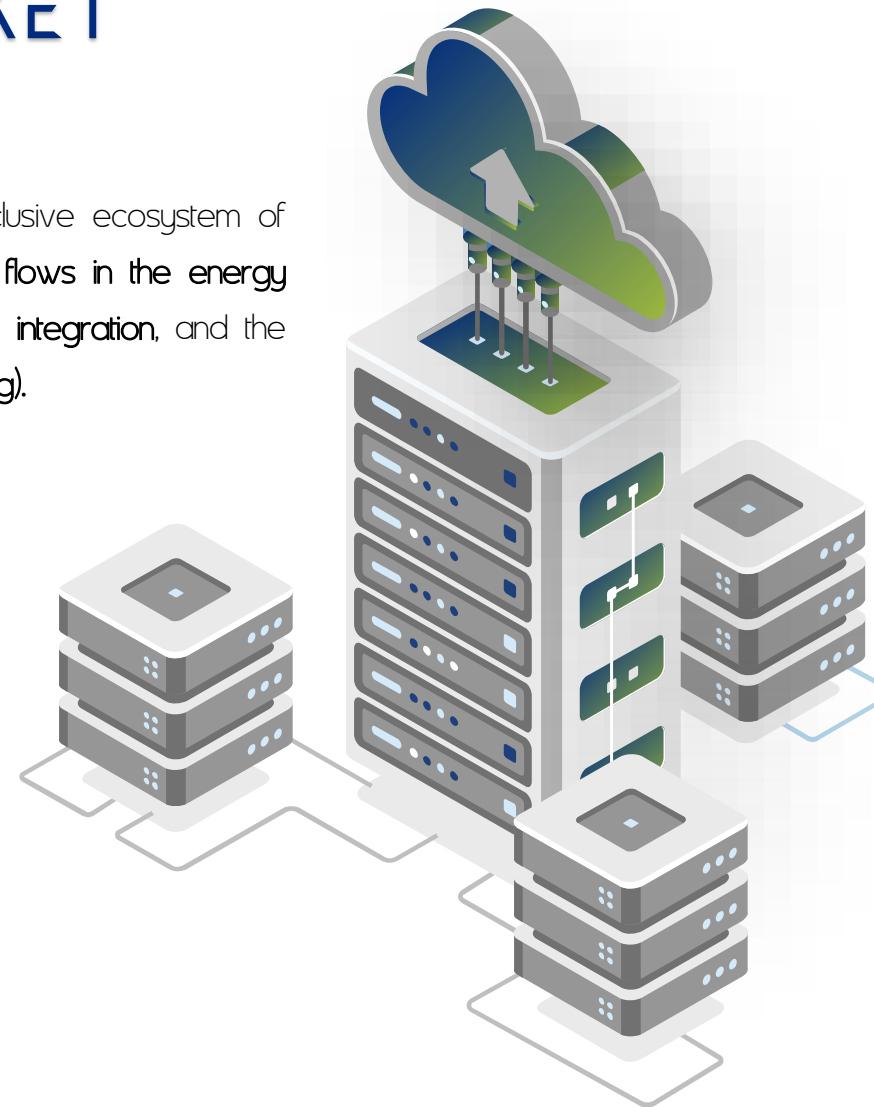
**To demonstrate and validate the concept in 5 large-scale demonstrators across real-life and critical conditions**

02

**To prepare the grounds for the successful replication and market uptake**

03

**To promote OODEON as a reference Cloud-Edge Data and Intelligence enabler for the Green and Digital Transition through intense dissemination and knowledge transfer**



# ODEON INNOVATIONS

## ODEON CLOUD-EDGE DATA AND INTELLIGENCE SERVICE PLATFORM



Reference Energy Data Spaces implementation around energy data

## ODEON CATALOGUE OF AI ARTEFACTS



Machine-Learning mechanisms for orchestration of devices

## ODEON ENERGY SERVICES FOR DSO



- Flexibility-based Network Management
- Dynamic Power Flow Management and Quality restoration
- Network Planning and Reinforcement Assessment
- Asset management and Predictive maintenance

## ODEON ENERGY SERVICES FOR LECS/AGGREGATOR



Reduction of energy costs and increase their autonomy by management in RES and flexible assets

## ODEON ENERGY SERVICES FOR PROSUMERS

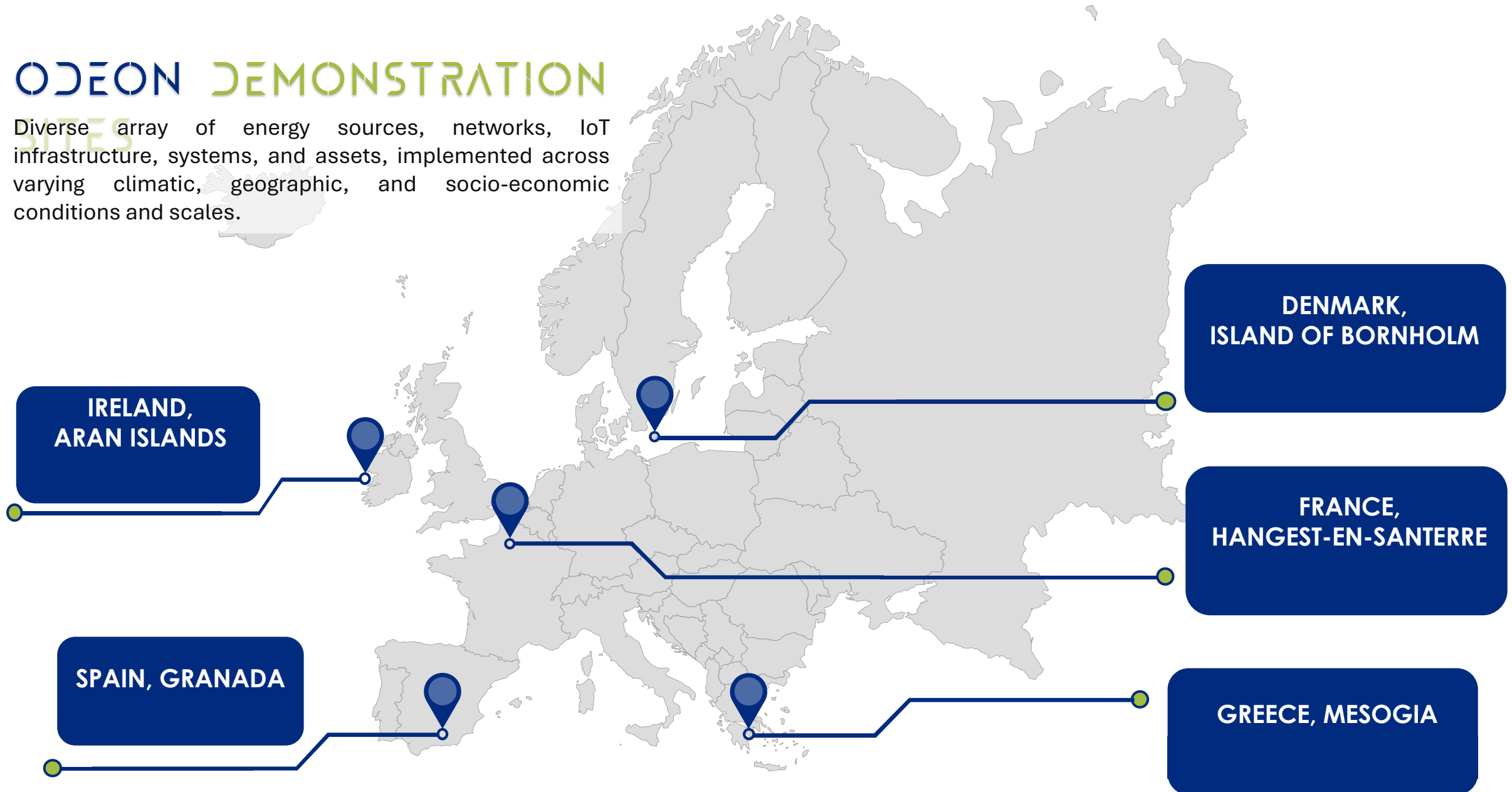


Informed and transparent participation in flexibility and energy transactions



# ODEON DEMONSTRATION

**SITES**  
Diverse array of energy sources, networks, IoT infrastructure, systems, and assets, implemented across varying climatic, geographic, and socio-economic conditions and scales.





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# THANK YOU!

Moisés Antón

[manton.etraid@grupoetra.com](mailto:manton.etraid@grupoetra.com)

## Contact Us



[www.odeonproject.eu](http://www.odeonproject.eu)



[info@odeonproject.eu](mailto:info@odeonproject.eu)

 @odeonEU



Company @odeoneu



@ODEONproject