



Nobel Grid

Smart energy
for people

New cost-effective business models for flexible Smart Grids

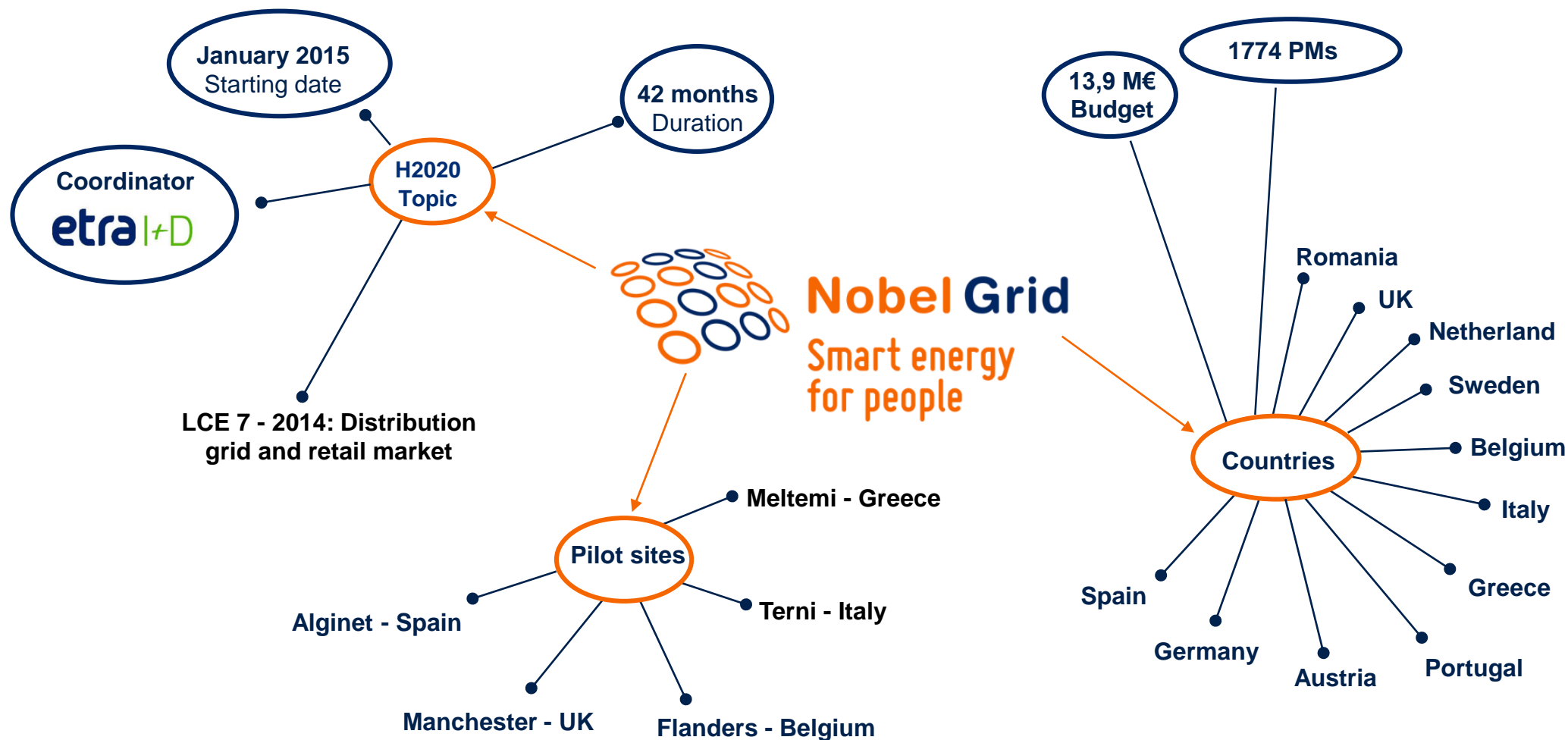


This project has received funding from the European Union's Horizon 2020 research and innovation programme under the grant agreement No 646184.



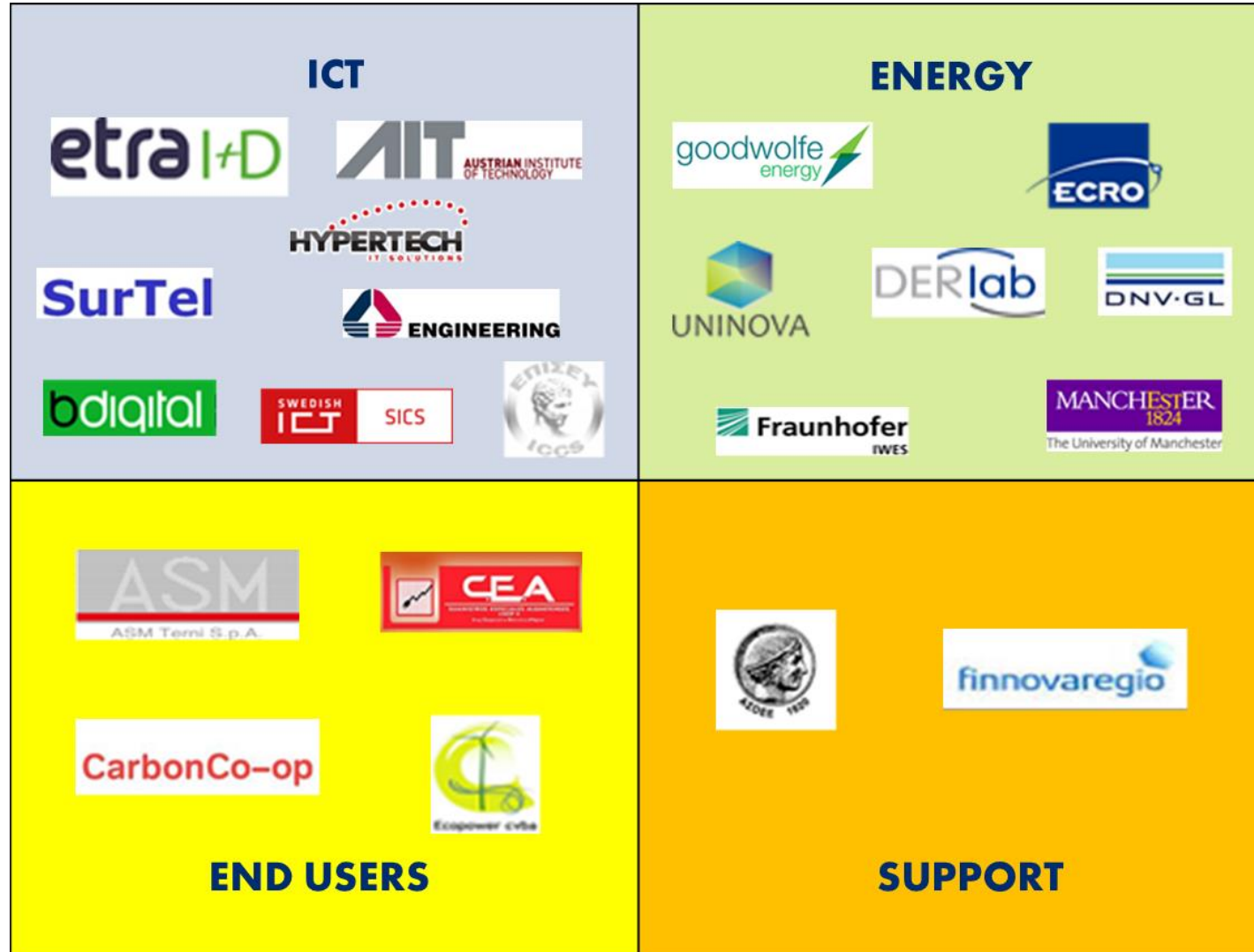


Project highlights





Project Consortium





Objectives

1. To provide **Secure, stable and robust Smart Grids** allowing DSO:
 - To mitigate management, replacement and maintenance costs
 - In presence of large share of renewable energy
2. To develop **New services and Business models for all the actors of the distribution grid**, including new actors, such as prosumers, aggregators and ESCOs. This will include services for:
 - Next generation distributed renewable energy integration and
 - Active participation of end users (demand response schemas).
3. To design and develop from scratch an **Innovative and affordable Smart Low-cost Advanced Meter** allowing:
 - More extended functionalities
 - Empower consumers and prosumers





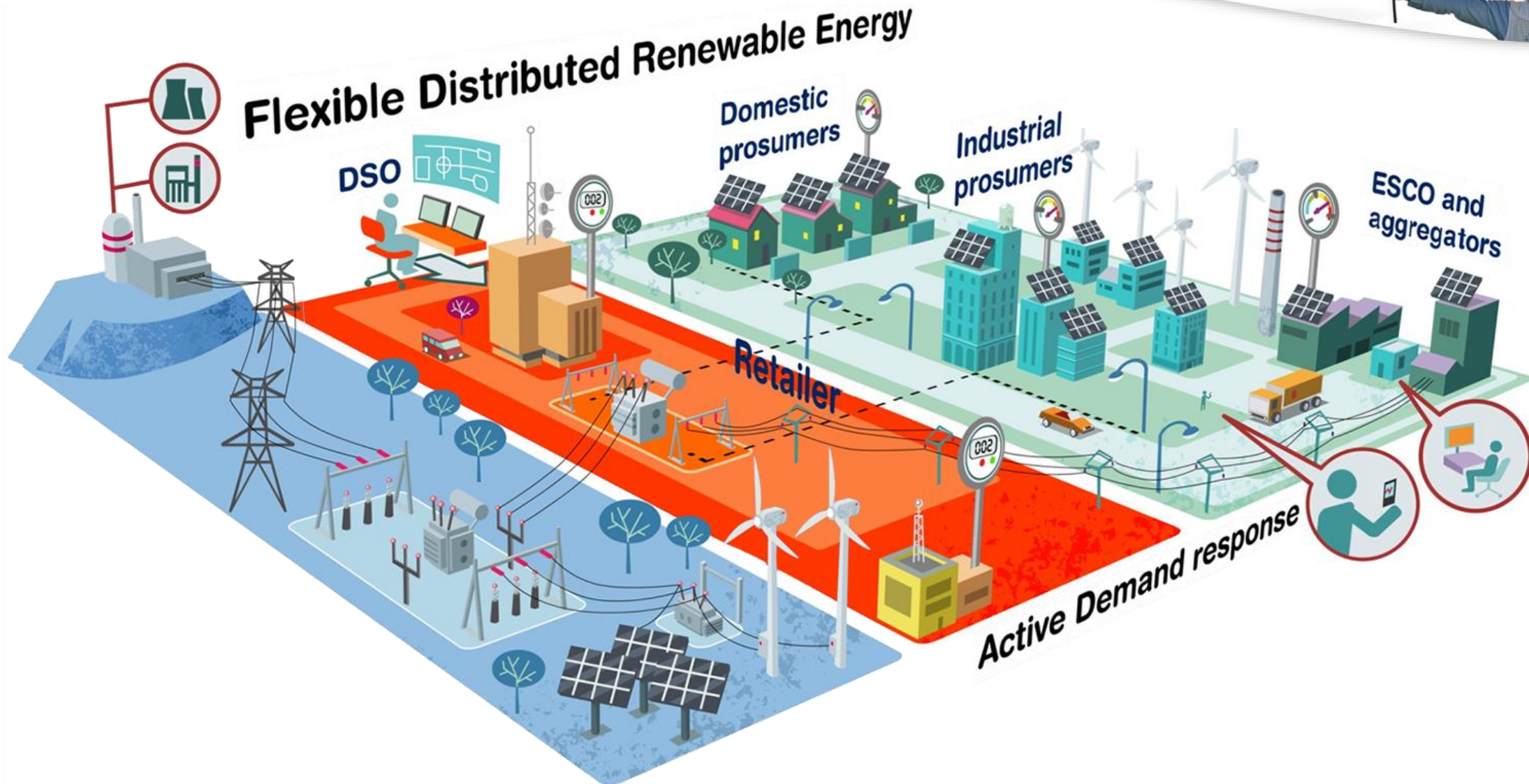
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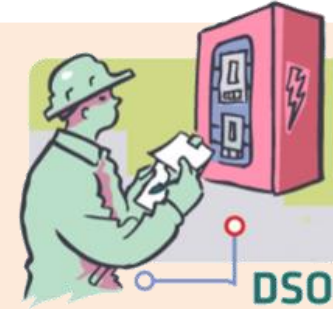




Tools and ICT services for Smart Grid actors

G3M Framework

Grid Management and Maintenance Master framework for DSOs



EMA App

An energy monitoring and active participation App for domestic and industrial prosumers

DRFM cockpit

A Demand Response cockpit for aggregators, energy service companies (ESCOS) and retailers.





SLAM: Smart Low Cost Advanced Meter

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Standard
Interfaces
*Diversity of
Users*

Extended functions
*Diversity of
Applications*



SMART METER EXTENSION
(Specific Smartness)

**EU Policy: 80% Smart
Meters deployed in 2020**



SMART(er) METROLOGY METER
(Simple Standard Smartness)



Demonstrators

NOBEL GRID results will be tested in real conditions
in five different electric cooperatives and non-profit demonstration sites in five EU members' states:



Alginet, Spain



Gistel



WKK - Eeklo



PV-panelen



Terni, Italy



Meltemi, Greece



Manchester, UK



Expected Impact

- Notable **improvement on quality of life for EU citizens** by enhancing the European energy mix, with the reduction of the emissions.
- Efficient and **fair distribution of the benefits** on the electricity distribution to all actors.
- **Active participation of prosumers**, and new players in energy markets, such as aggregators and ESCOs.
- Opening up **new markets** for advanced smart grid and smart metering technologies to **foster European industries' competitiveness**.
- Promoting the implementation of **new business models, market rules and legislation framework** for smart grids and smart metering infrastructure.



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Thank You!



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