

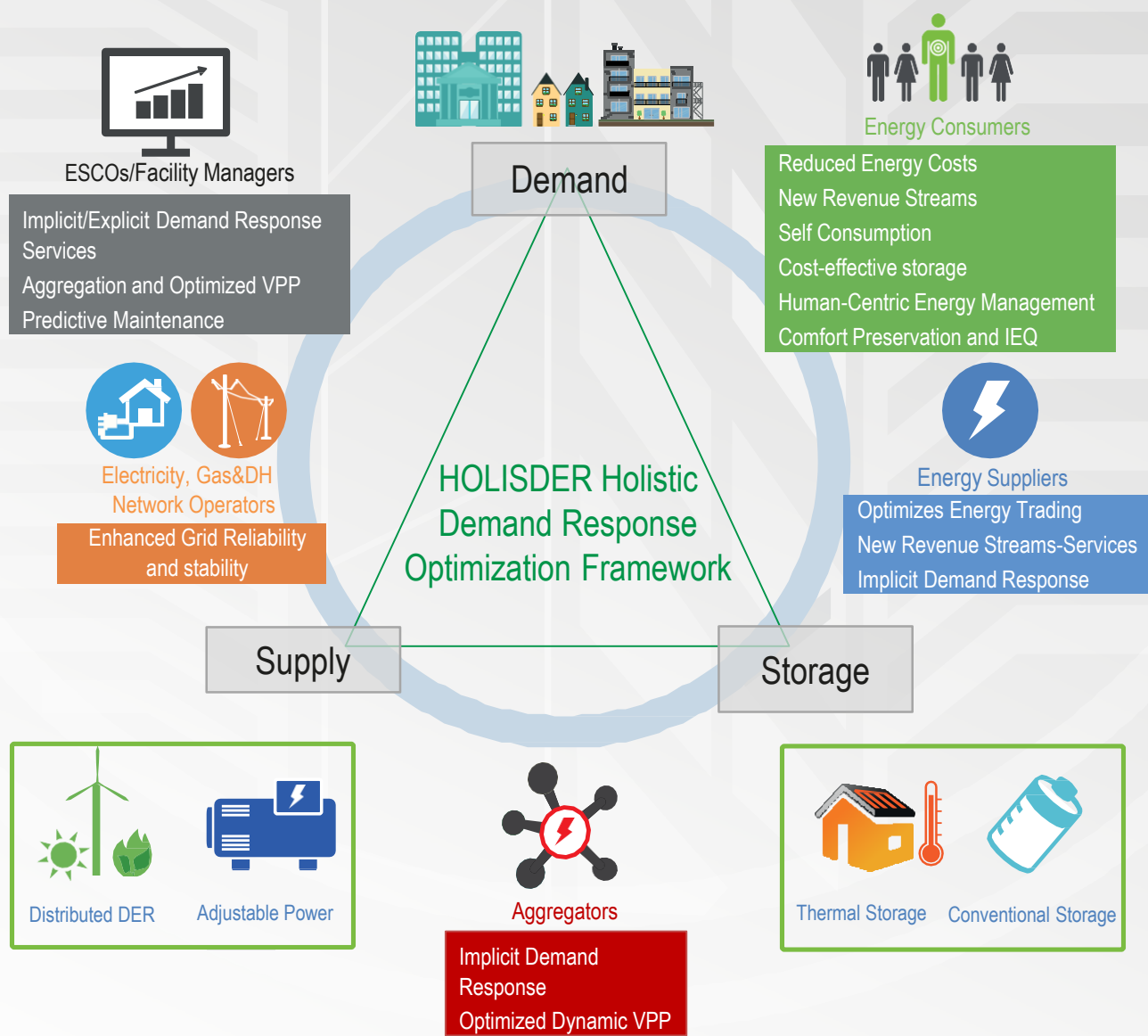


HOLISDER

Integrating Real-Intelligence in Energy Management Systems enabling Holistic Demand Response Optimization in Buildings and Districts

European energy market is evolving towards more **decentralized**, **less predictable** and **flexible** to operate forms, as a consequence of the large-scale integration of renewable and distributed energy. In this context the necessity and value of **demand response schemes** is gaining significant role within energy markets.

HOLISDER introduces a Holistic Demand Response Optimization Framework that enables significant energy cost reduction at building/consumer side. Additionally, small and medium sized buildings are introduced as **major contributors** to maintain the energy networks' stability in response to network constraints and conditions through **optimized energy management**.



- HOLISDER brings together energy networks, building energy management systems and devices, addressing the needs of the **whole demand response value chain** through enabling two-way communication, data exchange and integration.
- The HOLISDER hybrid demand response scheme is supported by a **variety of end-user applications** for Personalized Informative Billing, Human-Centric Energy Management, Load Scheduling and Intelligent Controls and Predictive Maintenance.
- HOLISDER introduces **new business models** for third parties, facilitating consumer involvement, representing them in energy market transactions and tackling knowledge barriers.
- HOLISDER ensures **consumer empowerment** and transformation into **active market players** reducing their energy bills, tackling energy poverty and using various demand response schemes.

Pilot sites



- Office buildings and domestic consumers of electricity producer in Athens, **Greece**
- Commercial and residential buildings from a DR Aggregator's portfolio of clients in London, **UK**
- Building management cases in commercial and residential buildings in Helsinki, **Finland**
- District Heating customers in a large residential neighborhood in Belgrade, **Serbia**

HOLISDER Partners



www.holisder.eu

Project Coordinator: ander.romero@tecnalia.com



This project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement n° 768614