



## Workshop **Innovative solution and co-creation for effective implementation of demand response**

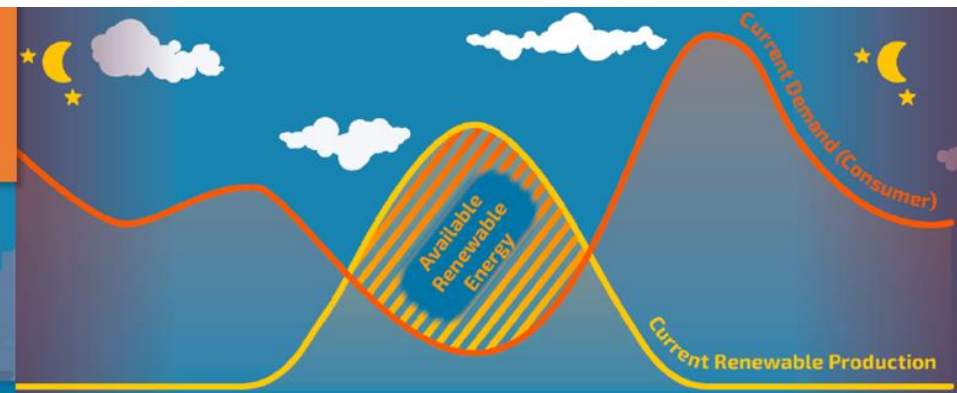
14<sup>o</sup> of June, 2023 - Madrid, Spain

[sustainableplaces.eu](https://sustainableplaces.eu)



All projects have received funding from the European Union's Horizon 2020 Research and Innovation programme

# Consumer makes the difference



EDUCATION

FLEX-COMMUNITY

SMART -  
TECHNOLOGY

I won the Weeks Challenge. I have reduced my electricity consumption by 10%.

My neighbour and I now use the electricity from his solar panels.

I don't use my washing machine during the evening so its cheaper and more sustainable.

4 DEMO SITES

8 EUROPEAN NATIONS

7.2 MILLION EURO BUDGET

744 USER



start date

**2021**

January

duration

**42**

months

end date

**2024**

June

**16**

partners

**9**

countries

**4**

living labs

**EMPOWERMENT OF  
ENERGY COMMUNITIES**

**DIGITAL TOOLBOX &  
INNOVATIVE DIGITAL SERVICES**

**DEMONSTRATION & VALIDATION  
AT FOUR PILOT SITES**

Delivering an integrated  
tool-chain for the transition  
of energy communities to  
fullplayers of the energy &  
flexibility markets

Developing a Consumer  
Digital Twin model to  
streamline the information  
exchange between building-level  
tools and market  
actors

Creating a secure and  
interoperable digital toolbox  
compatible with the  
majority of residential  
building systems used  
across the EU

**Technical & Technological**

**OBJECTIVES**

**Citizen Engagement &  
Co-creation**

Designing compound  
(energy & non-energy)  
service offerings and  
business models to enable  
the participation of the  
residential sector in demand  
response markets/services

Identifying incentives and  
drivers of citizens and  
energy communities and  
delivering a citizen  
engagement methodology  
to stimulate citizen  
participation in the energy  
transition and community  
flourishing

Validation of the expected  
impact of the ACCEPT  
solution in real-life conditions  
(citizens, communities) in  
four European countries and  
maximize replication  
potential



HESTIA is a EU funded project developing a mix of Technological, Innovative and Social Sciences and Humanities models approaches to improve the management and use of energy by and for residential consumers.

HESTIA aims to develop a cost-effective solution for the next-generation demand-side response services by encouraging residential consumers to engage in flexibility sharing and grid balancing to HESTIA, and user-personalised services will help lay the foundation for an open marketplace and new grid reality.



HESTIA will integrate state of the art and emerging ICT tools to enable the next generation of Demand Response services for residential communities



Pilot the HESTIA solution on three residential demo setups with different infrastructural, climatic and market contexts (IT, FR and NL)



Develop efficient business models, understand barriers and define solutions for the large-scale replication of the HESTIA solution

**HESTIA will allow changing and improving the generation, management and use of energy in many areas and ways**



Economic



Technological



Environmental



Policy



Social



This project has received funding from the European Union's H2020 programme under Grant Agreement No. 957823.

## HOLISTIC DEMAND RESPONSE SERVICES FOR EUROPEAN RESIDENTIAL COMMUNITIES

### 3 PILOT SITES



Voorhout  
NETHERLANDS



Berchidda  
ITALY



Palaiseau  
FRANCE

### 19 PARTNERS

### 9 COUNTRIES



**hestia-eu.com**

**in** [linkedin.com/company/hestia-project](https://www.linkedin.com/company/hestia-project)

**@EuHestia**



# Making it easy to participate in Demand Response

## iFLEX Assistant

– your energy and flexibility manager

The Assistant learns and adapts to the behaviour & optimisation goals of your home and reacts to flexibility signals according to your personal preferences

- » Automate the flexibility activations, while being in control of the operations at all times
- » See information about participation in flexibility events and the benefits achieved
- » Get advice on how to optimise consumption
- » Be protected by secure & private data exchange

**600 users**  
**3 pilot sites**

**4 EU countries**  
**€6.3 million budget**



# ◀ Sender ▶

## Sustainable consumer **engagement** and **demand response**

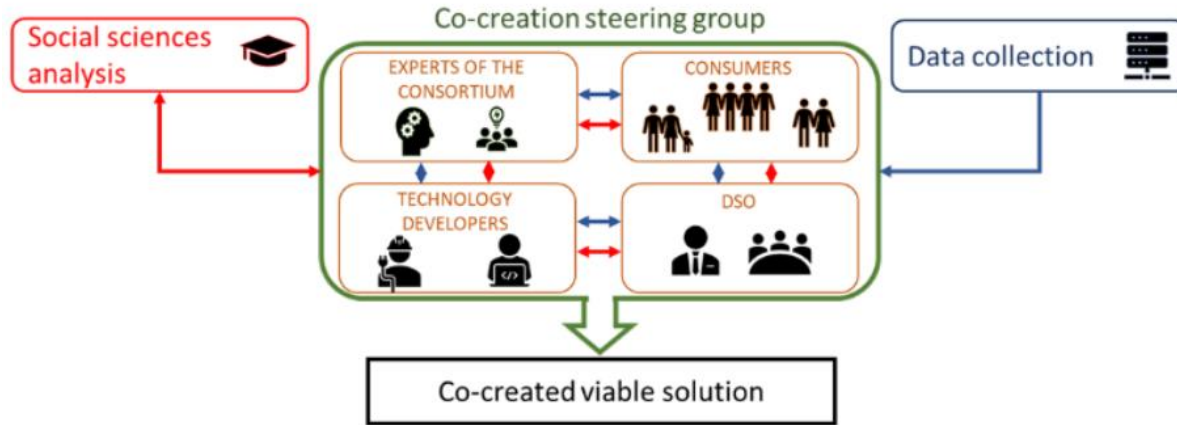


Figure 6: The co-creation actors and process



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# Thank you for your participation!



Participants can join  
at **slido.com** with **#8172491**

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