





Workshop

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

14° of June, 2023 - Madrid, Spain

sustainableplaces.eu









Project Overview

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





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



Jan 2021 to June 2024



Project cost: 7.57M€

EU contribution: 5.86M€

Grant Number	957781
Call	H2020-LC-SC3-2020-EC-ES-SCC Topic: LC-SC3-EC-3-2020 - Consumer engagement and demand response
16 Partners	HYPERTECH, CIRCE, SIN, QUE, CERTH, Witside, UCC, RINA-C, Mytilineos, ESB, EDBR, MIWenergia, LaSolar, AEM, Viesgo, EEE
Pilots	Demonstration Sites: Greece, Spain, Netherlands and Switzerland Pre-Validation testbeds: 2 testbeds in Greece, DSO historical data from Spain



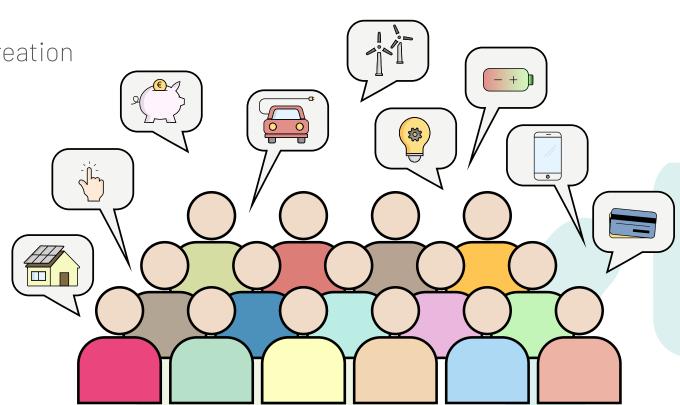
www.accept-project.eu



Importance of User Engagement and Co-creation

3-step engagement approach:

- Raising citizen awareness (info campaigns)
 - What is the energy transition
 - Why do citizens need to be involved
 - How can they benefit
- Making citizens part of the solution (co-creation campaigns)
 - Citizen empowerment
 - Solution meets main user requirements
- Keeping momentum up (feedback and continuous engagement campaigns)
 - Motivation is key
 - Feedback leads to improvements and identification of obstacles







User Involvement in Pilot Sites



38 households



40 households



42 households



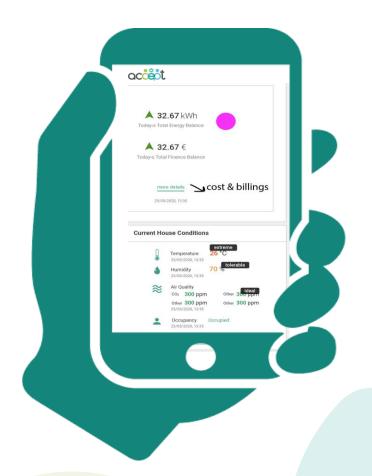
32 residential apartments



Involvement of Users in Co-creation activities

Co-creation focused on Citizen Application:

- Consent form for participants to consent to use of their data
- Briefing document to participants explaining project and user testing
- Notes for pilot partners with guiding note on the user testing process
- Discussion guide: A detailed description of the agenda and instructions for the user testing session for pilot partners to follow
- System Usability Scale (SUS): A standard survey for participants to fill out which provides a quantitative assessment of the C-APP's usability
- Living labs: pilot partners met with the end-users on a 1-to-1 basis for user testing session (feedback on design and functionality of C-App)





Results of User Engagement (Co-creation)

Useful outcomes of co-creation workshops:

- Feedback from end-users of each pilot site used for C-App improvements
- Alignment of real end-user needs and ACCEPT toolset
- Data produced from SUS during user testing show users' current opinions on C-APP and help track progress of C-APP development

Country	Number of participants	Average Score
Spain	4	86.25
Switzerland	3	37.50
Netherlands	11	32.73
Greece	20	66.25

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56.38



What they liked

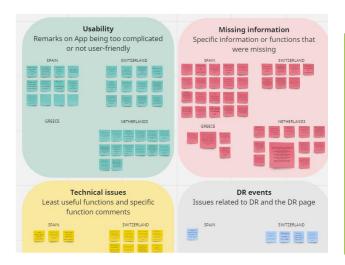
- Summaries on the DR page
- · Majority happy with content of homepage
- ▼Topology and device consumption section & graph

What they disliked

- Community functions not useful or clear
- Analytics section and graph too complex
- Lack of customization (language, measurement units)



Miro Board



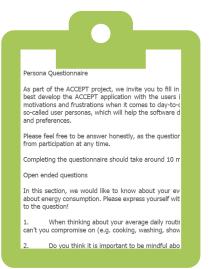
Printed material





Tools and Platforms for User Engagement

Questionnaires and Surveys



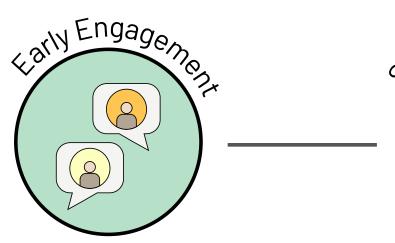
Most valuable tool - Human interaction







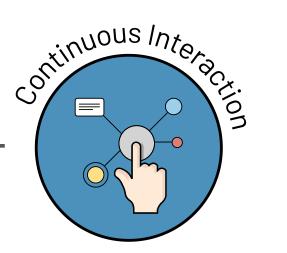
Key Learning from Implemented Strategies



- Inform
- Raise awareness
- Promote
- Recruit



- Empower
- Own
- Tailor



- Keep motivated
- Improve solution and process
- Shape future

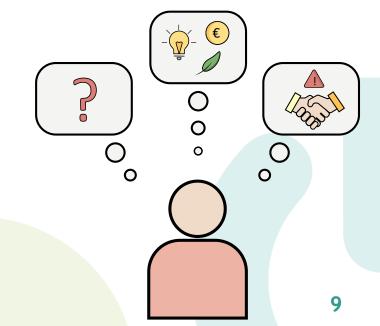


Key Learning from Implemented Strategies

Learning Point 1

Citizen hesitation to engage

- Lack of awareness about the issue (Why should I help?)
- Lack of awareness about /limited understanding of possible solutions (How can I help?)
- Lack of incentives to engage (What's in it for me?)
- Lack of trust from citizens (Is it safe? Does it work?)





Learning Point 2

What has worked well with co-creation activities:

- Leveraging local social dynamics & networks of trust
 - Co-creation activities led by pilot leaders
- Effective communication targeting average citizen
 - All guidance documents in layman terms and local language
- Engagement boosting events
 - Pilot partners introduced pilot sites and participants to SSH partners (leading on the Living Labs)
- Web-based citizen application available for user testing
- Simple tools used for gathering user feedback

Key Learnings from Implemented Strategies



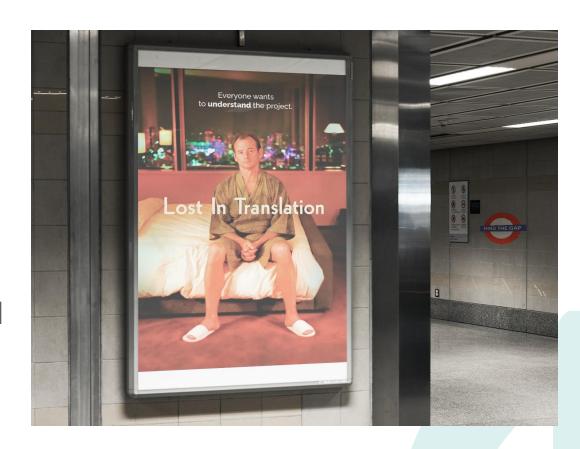




Learning Point 3

- Co-creation is very hard
 - Engagement persistence
 - Communication gap
- Co-creation is necessary
 - Achieve fitness-for-purpose
 - Increase acceptance and replication potential
- Tangible short-term incentives seem critical to engage citizens and achieve early buy-in
 - Until the sustainable, long-term benefits to citizens become evident

Key Learnings from Implemented Strategies



Thank you!



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Questions



Participants can join at slido.com with #8172491







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