



The Smart Buildings community

Flexibility 2.1 webinar

“From demand response to renewable energy communities”

15/03/2021, online



This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement N° 956936.

General information

- Call: H2020-LC-SC3-EE-2020-1 → Building a low-carbon, climate resilient future: secure, clean and efficient energy
- Topic: LC-SC3-B4E-9-2020 → Support to the coordination of European smart buildings innovation community
- Starting date: 01/10/2020
- Duration: 30 months

Partners



ECTP's LTPs



Smartness in the construction sector

Buildings & Construction needs

From passive isolated elements to smart buildings:

- adapt to occupants needs
- behave as active nodes
- be fully integrated to the energy grids and other infrastructures.

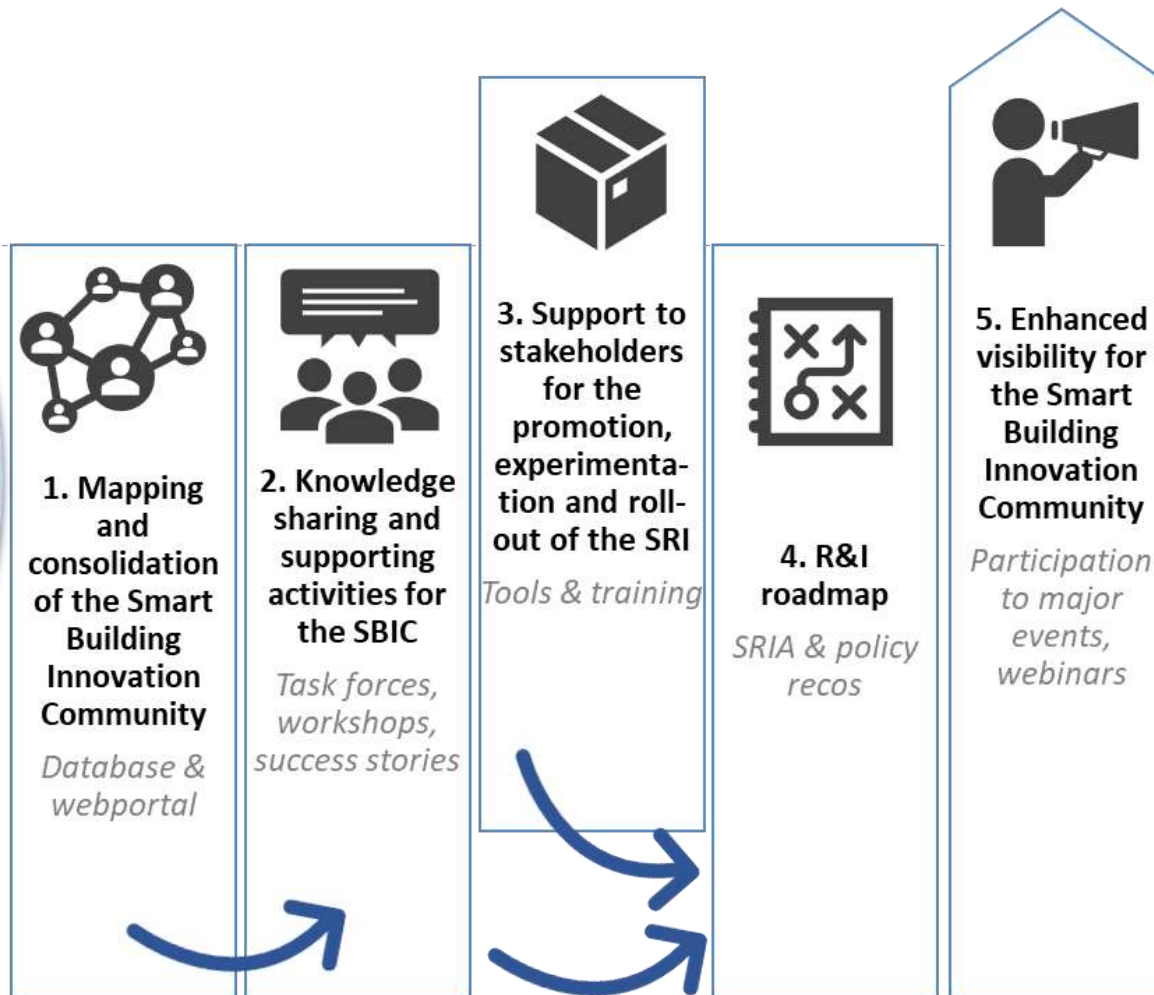
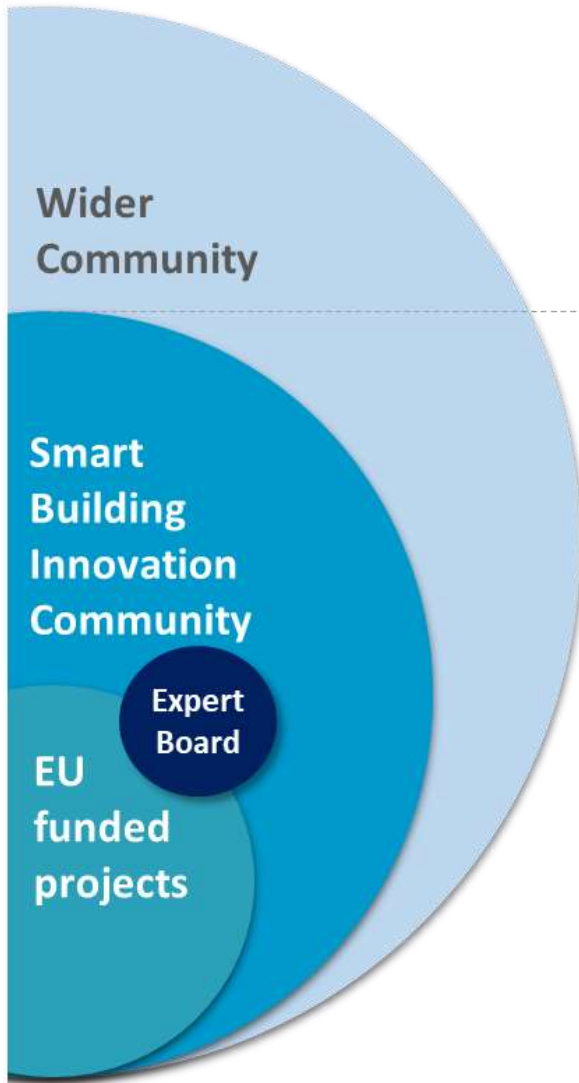
Main challenges

- Slow market uptake and wide-scale roll-out of ICT & smart technology
- Engage building occupants
- Achieve optimal building operation
- Integrate buildings to energy markets
- High fragmentation of the ecosystem
- ...

Rationale behind SmartBuilt4EU

- Consolidate & support the innovation ecosystem in the Smart Building value chain
- Break silos, share information (networking & communication actions)
- Bridge the gaps between innovation, markets and policy.
- Ground for a future full-fledged Smart Buildings market in Europe

Project's activities



SRI - Smart Readiness Indicator:

- Required by the EPBD
- Common EU scheme for **rating the smart readiness** of buildings
- **Raise awareness:** benefits of smart tech. & ICT in buildings
- **Motivate consumers** to accelerate investments in smart building technologies
- **Support uptake of technology innovation** in the building sector

<https://smartreadinessindicator.eu/>

SBIC: Smart Buildings Innovation Community
EPBD: Energy Performance of Buildings Directive

Examples of promotion activities

- **Workshops** - e.g. with Build UP <http://www.buildup.eu/en/events/webinar-smart-buildings-meet-eu-innovators>
- **Brochures**
 - Promotion of Smart Building (EU-funded) projects
 - ~45 projects registered so far
 - Questionnaire to be part of the brochure: [Link](#)



Four task forces dealing with one broad theme

**Task Force 1:
Interactions with users**

**Task Force 2:
Efficient building
operation**

**Task Force 3:
Interactions with the
external environment**

**Task Force 4 :
Crosscutting issues**

- Each TF composed of 3 "Topics":
 - define a scope of investigation (challenge, trend, problem)
 - describe SoA, barriers, solutions, good practices, R&D gaps
 - possibly draft recommendations
- Each topic = one **White Paper** -> formalise the outputs of the collective work

Interested in joining Task Forces?
Contact us!
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	Task Force 1: Interactions with users	Task Force 1: Efficient building operation	Task Force 3: Interactions with the external environment	Task Force 4 : Crosscutting issues
TOPIC A	Informed end-user Strategies to improve end-user awareness and acceptance of smart building functionalities	Interoperability Interoperability among building components & systems	Providing flexibility to power grids Data interoperability to provide flexibility to the electricity grid	Financing and business models New services, financing & business models (incl. Building as a Service), integration of new technologies (Blockchain)
TOPIC B	User-centric building Integrating smart solutions for enhanced well-being, inclusiveness and health of occupants	Optimised building costs Integrating tools for optimised costs over full life cycle (incl. BIM, digital twin, predictive maintenance, AI, weather forecast, predictive control)	Providing flexibility to DH&C grids Data interoperability to provide flexibility to the DH&C grids	Security and privacy Cyber-security; Data privacy & protection
TOPIC C	Responsive end-user Tools and strategies to give operational feedback to the end-user (vs awareness) leading to behavioural changes	Smartness to reduce building's environmental impacts Resource efficiency; Environmental impact management; Integration of renewable energies (incl. DC building)	Smart building integration into multiple networks Smart network integration (sector coupling); Smartness requirements for interactions with Building clusters and smart cities, mobility, Local Energy Communities	Education Integration of IT & user-centric dimensions in curricula of academic and vocational education

- Join our “Smart Buildings Innovation Community” and actively contribute to the SmartBuilt4EU project’s activities!

Click on the [Registration page](#)
or use the QR code



- **Project website:** <https://smartbuilt4eu.eu> (to be opened end of March 2021)

 <https://www.linkedin.com/showcase/smartbuilt4eu-project>

 @SmartBuilt4EU

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The Smart Buildings community

Thank you for your attention!



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