



Smart2B

Smartness **to** existing Buildings

UPGRADING SMARTNESS OF EXISTING BUILDINGS THROUGH INNOVATIONS FOR LEGACY EQUIPMENT

Deliverable 8.5

Periodic Stakeholder Engagement Report v1

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Abbreviations and acronyms

Abbreviation	Definition
APEEN	Associação Portuguesa de Economia da Energia
BMS	Building management system
DSO	Distribution System Operator
EC	European Commission
eu.bac	European Building Automation and Controls Association
EPBD	European Performance of Building Directive
ESCO	Energy Service Company
IoT	Internet-of-Things
IcT	Information and Communications Technology
REHVA	Representatives of European Heating and Ventilation Associations
SAB	Smart2B Advisory Board
SRI	Smart readiness Indicator
TSO	Transmission System Operator
WP	Work Package



Revision history

Version	Author(s)	Changes	Date
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6.0	Nuno Mateus (EDP)	Final revision	17/08/2022



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Executive Summary

This document presents the deliverable D8.5 – Periodic Stakeholder Engagement Report v1 of the H2020 project Smart2B. This deliverable reports the stakeholder engagement activities developed by the Consortium during the first year of Smart2B (M1-M12), providing an overview of the identified stakeholders, the related engagement strategy and the activities of engagement performed.

The current document corresponds to the first version of the Periodic Stakeholder Engagement Report, composed by the report about the activities performed during the initial phase of the project where the main objective is to create initial awareness about Smart2B project to specific targeted groups based on a coherent engagement action plan. This deliverable will be then updated (version 2) in M36, August 2024 (D8.9).



1. Introduction

This report serves to provide an update concerning stakeholders' engagement in the Smart2B project. The activities reported in this document refer to stakeholders' engagement activities mentioned in Task 8.4 Stakeholder Engagement through webinars, workshops, events and a final conference lead by EDP. Stakeholders' engagement is fundamental not only to develop a correct communication and dissemination strategy for the project but also to understand and interpret the needs of the different stakeholders and develop solutions that are consistent with their expectations on the environmental and social context; work which is related to WP1 outcomes and developments. Consequently, the project outcomes are more likely to be relevant to society and aligned with the demands of the market.

Identify correctly all the related stakeholder groups and develop tailored content and strategies and activities to involve them actively is one of most relevant tasks to improve project impact. In this context, communication and dissemination activities are essential for an effective stakeholder's engagement: while communication aims to inform and reach out to society about the project and results through the use of a common language, dissemination activities enable the use and uptake of the project results aiming at audiences that may use the project results in their own work or activities.

The engagement work started in the early phase of the project, with the definition of a stakeholder framework (D1.1), identifying the most relevant actors and their corresponding roles within Smart2B context. This work builds upon this foundation for all further engagement activities. The different approaches, tools and formats of gathering inputs from external stakeholders, as well as from the Advisory Board members will be detailed in this report.

The main objectives of this deliverable are the following:

1. Provide an overview of the identified stakeholders and the type of activities planned for each of them;
2. Report the activities of public engagement developed by the Smart2B Consortium during the first year of project (M1-M12).

1.1 Structure of the deliverable

Deliverable D8.5 – Periodic Stakeholder Engagement Report v1 is structured as follows:

- Chapter 2 – Smart2B actors and stakeholders: presentation of the actors and roles related to Smart2B concept identified during the initial phase of the project in WP1 (D1.1), and presentation of a list of the most relevant identified stakeholders.
- Chapter 3 – Stakeholder's engagement strategy and tools: report about the public engagement activities performed by Smart2B Consortium during the first year of the project and the tools used.
- Chapter 4 – Feedback from stakeholders' engagement: presentation of Smart2B strategy to collect stakeholders' feedback in the activities organized by the Consortium in order to gather suggestions for improvement. In this chapter, were also presented the main inputs and suggestions gathered from the events in which Smart2B participate (including advisory board meeting).
- Chapter 5 – Conclusions: addressing the main highlights of this deliverable.



2. Smart2B actors and stakeholders

The identification of the Smart2B ecosystem is crucial to identify the target audiences, their needs and characteristics in order to ensure an effective and efficient communication and dissemination plan for the whole project. In order to adequate Smart2B communication with target audiences, in “D8.1 - Dissemination and Communication Plan, including project identity”, an initial communication and dissemination strategy was defined, including hints about the type of activities and stakeholders that should be relevant for the project.

In addition, in the six first months of the project, in “T1.1 - Analysis of actors and roles related to SMART2B Concept”, the Consortium worked together with the objective to identify the different actors and stakeholders that could be relevant for the Smart2B project. In this task, literature-based research, expert interviews and/or surveys among potential users was conducted in order to analyse and describe the roles and needs of the actors as well as to identify the desired level of user interaction, defining the Smart2B stakeholder framework of actors and roles.

In the following section, a brief description of the actors identified in the initial stage of Smart2B is presented, highlighting their involvement in the project; while on section 2.2 a list of stakeholders already identified that could be relevant for the project activities is also presented.

2.1 Types of actors

Smart2B project aims to develop and demonstrate a whole ecosystem constituted by three main layers:

- Internet-of-Things (IoT)-enabled and intelligent devices (Smart2B devices – WP2);
- An advanced, modular and scalable community-enabled smart readiness platform (Smart2B platform – WP3);
- A service toolbox (Smart2B services – WP4).

The ultimate objective is to transform the currently passive European building stock into an active element of the energy system by smartening up interconnected building appliances and systems. In addition, the project also includes the development of a user interface that allows the communication and feedback from building occupants as one of the central elements for dynamically adapting controls to user needs. Finally, the project also addresses the engagement of several actors that can have a direct role in the Smart2B platform, such as building owners & managers, grid operators and aggregators, common users (highlighted in Smart2B architecture presented in Figure 1), and other actor profiles within the energy sector.

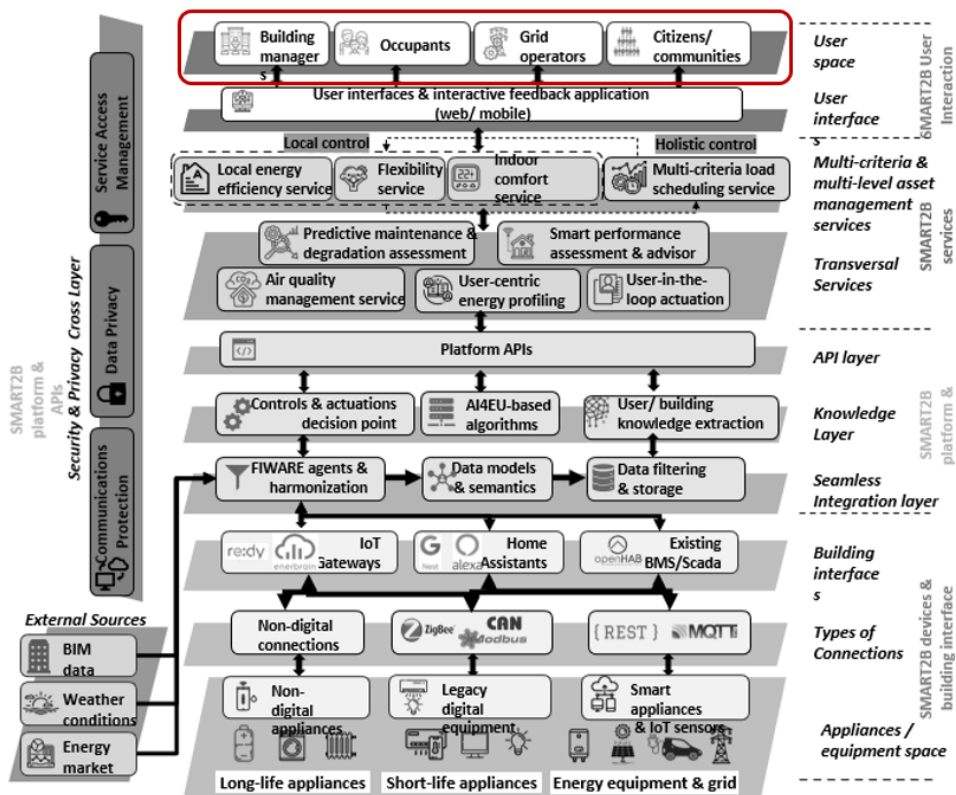


Figure 1: Smart2B Architecture.

Following, the key stakeholders that have been identified in WP1 previous work and that will contribute to the success of the project will be presented, as well as other relevant actors that could be interested in Smart2B outcomes:

1. End users/consumers & Energy Communities

They can be building owners, householders, operators/managers and/or building occupants. Their involvement with Smart2B will be essential, in order to understand user needs, desired level of interaction with the user interface APP, get feedback on the user friendliness of the system and to assess user satisfaction and preferences. In addition, in "D1.5 – Definition of Business Models and Evaluation Framework", these actors (building owners, managers and/or occupants) were identified as the main potential customers of Smart2B.

2. Building industry

Building industry involves actors during the design, construction and delivery phases of the building involving building construction companies, building designers, architects and masonry workers as the main actors; but also during its operation and maintenance phases where building system manufacturers, appliance manufacturers and building operation technology providers, building renovators and technicians/workers are the main actors respectively. Building operation and maintenance industry that is committed to EPBD goals towards a Greener EU Building stock direction, could leverage Smart2B developments to significantly reduce carbon footprint and improve energy use in buildings during their normal operation. Being the designers of future building operation landscape, they are committed to smarter building renovations and designs leveraging AI techniques to deploy energy-efficient load management systems and improve the smart-readiness of the buildings like Smart2B. As a result, their inputs regarding the future needs and how different components of the buildings can be integrated and communicate to each other is of utmost importance for the project direction definition.



3. Grid operators, Energy utilities & ESCOs

Include energy providers, aggregators, transmission system operators, distribution system operators, retailers, ESCOs and energy balance responsible parties. They will be mainly involved during the design of the flexibility management services that will be developed in the project (WP4). Energy providers may also usually offer energy management and energy-savings marketization services. In addition, ESCOs, as providers of a wide range of energy solutions and services, can contribute to evaluate the ability of the Smart2B platform to provide an open and competitive environment for the development of energy and smartness assessment as well as efficiency optimization services.

4. Policymakers, Municipalities & Associations

Municipalities, associations and policy makers, at different levels and with different approaches, they are all socio-political entities or intend to influence socio-political entities. They are characterized by having the power to influence or determine policies and practices at an international, national, regional, or local level that could potentially boost green transition in building operation through smart and targeted financing and regulatory policies. Since Smart2B aims to give policy feedback and collaborate with relevant EC policy officers (as EPBD), involving these stakeholders will allow to increase the impact of the project to a bigger scale.

2.2 Stakeholders list

This section features a list of stakeholders considered relevant for the project success, according to the categories of actors identified in the previous section. In the following table, the entities highlighted in green have already been contacted and Smart2B has already interacted with them, through its participation in events organized by the consortium, Advisory board meetings or other kind of activities. The remaining entities were already identified by the Consortium as relevant stakeholders and will be involved in the future Smart2B events according to the stakeholder's engagement strategy presented in Chapter 3.

Table 1: Smart2B stakeholders list

Building industry	Grid operators, energy utilities & ESCOs	Policymakers, Municipalities & Associations	Others





3. Stakeholders engagement strategy and tools

Smart2B is a project in which the proposed solutions and demonstrators will interact directly with building users, potentially causing major disruptions and discontentment if not properly managed; this is why stakeholder's engagement will be a priority for the project.

According to Smart2B Stakeholder management process defined in the early stage of the project, in D9.1 Project Management Handbook, and in order to correctly address stakeholders needs, a four-step approach was followed:

1. Stakeholders identification;
2. Stakeholders assessment;
3. Strategy development;
4. Action plan creation.

While in Chapter 2, the results of the two first steps were reported, in Chapter 3, the strategy and tools used to promote the stakeholder engagement as the action plan to be followed will be presented.

In addition, Stakeholder management will be well articulated by the main in WP8 Partners (EDP, D1 and CERTH) to ensure a proper use of the main tools available to communicate the project progress and main outcomes.

3.1 Communication and dissemination activities

According to the communication and dissemination strategy defined in "D8.1 – Dissemination and communication Plan, including project identity", during the first year of the project the main objective is to increase the awareness of national and international stakeholders about Smart2B scope and objectives. During this phase, the following tools were created, used and also make available on a dedicated page on the [project website](#) (resources):

- The Smart2B logo, brochure, poster, roll-up, infographics, PowerPoint template, logo video-reveal;
- Project website and social media channels (Facebook, Twitter, LinkedIn, Youtube).

Also, during this initial phase, beyond the identification of stakeholders (presented on Chapter 2), the strategy to reach each of the target stakeholders according to their needs was also defined. Following, on Table 2: Smart2B stakeholders strategy Smart2B stakeholders' strategy is presented.

Table 2: Smart2B stakeholders strategy

Target stakeholders	Strategy to reach them
Consumers (occupants, building owners and managers)	Invitations to project events, Website, Social Media, Communication materials
Grid operators, Energy utilities & ESCOs	Webinars (including Smart2B innovation webinars), invitations to key project events.
Policymakers, Municipalities & Associations	Invitations to key project events, Policy-oriented publications, Participation in standards.
Building industry: building construction companies, building designers, manufacturers, architects, and technology providers	Targeted literature (including blog posts), Webinars, invitations to key events, Professional networks, Associations, Partner networks, Trade fairs, Social media



SMEs and start-ups	Professional networks, Associations, Partner networks, Trade fairs, Social media, Webinars (including Smart2B innovation webinars)
Academia, the scientific community.	Academic publications, Targeted literature, Demonstration cases, Training courses/workshops, Website, Webinars (including Smart2B innovation webinars)
Smart2B Consortium and Advisory Board	Key project events.
General Public and Media	Website, Social Media, Communication materials

In the next phase of the project, strategic dissemination (M13-M24), the existing promotional materials will be then updated, and dissemination efforts will intensify with open access papers and participation in conferences and events in the field. Regarding the promotional materials, two series of videos will be also produced in the next months, as follow:

1. Series of interviews with Smart2B Partners produced during next project general assembly, with the aim of communicate each Partner participation in the project;
2. Three promotional videos to disseminate Smart2B activities and results will be launched until the end of the project.

3.2 Smart2B innovation Webinars

On behalf of "T.8.4 Stakeholder Engagement through webinars, workshops, events and a final conference", EDP is leading Consortium efforts in order to organize a series of webinars focused on Smart2B innovations. In this context, "Smart2B innovation Webinars" concept was developed during the last months to be used by the Consortium as a tool to engage stakeholders, communicate the main project developments and discuss their relevance in the energy transition context and how they can contribute to improve the smartness of existing buildings.

The main target audience for these webinars are Start-ups, grid operators, energy utilities, ESCOs, and researchers, and the webinar series will be composed by 5 webinars: 4 about the Smart2B technology pillars (devices, platform, services and user-interface) and an initial webinar for general project presentation, according to the following schedule:

1. Presentation of the project: July 2022
2. S2B Devices: November 2022
3. S2B Platform: March 2023
4. S2B Services: July 2023
5. S2B User-interface: November 2023

Each webinar has one hour duration, consisting in three 15minutes presentations (two invited speaker plus one representant from Smart2B Consortium) and 15 minutes of Q&A and discussion about the main topics of the webinar. For the effect, a [dedicated page on Smart2B website](#) was created, where the main information regarding the initiative are presented and the recordings of the webinars will be stored and made available for the general public (Figure 2: Smart2B Innovation webinars page..




S2B Webinar Series

July 12th, 2022 | Topic: Presentation of the project | Time: 4PM CEST

Presentation of the project

July 12th, 2022 - Time: 4 PM CEST

In the 1st Smart2B innovations webinar several **European Commission initiatives (EC)** will be presented, namely the revision of the European Performance of Building Directive (EPBD) and the Smart readiness Indicator (SRI) methodology. Additionally, **Smart2B project will be presented, highlighting its technology pillars** and the main **project key exploitable results**, that will be further discussed in the following webinars. Finally, will be discussed how Smart2B can contribute to EU objectives in terms of energy transition and digitalization.



Agenda

FROM 4:00 pm CEST 10 min	TO 4:10 pm CEST	Simone Alessandri eu.bec
FROM 4:10 pm CEST 10 min	TO 4:20 pm CEST	Andrei Litiu REHVA
FROM 4:20 pm CEST 10 min	TO 4:30 pm CEST	Nuno Mateus EDP NEW
FROM 4:30 pm CEST 10 min	TO 5:00 pm CEST	Q&A session

Figure 2: Smart2B Innovation webinars page.

3.3 Advisory Board

The Smart2B Advisory Board (SAB) is a key element for the success of the project and is composed by representatives from all sectors of the Consortium Partners and/or relevant stakeholders for the project. SAB should provide critical evaluation, qualitative advice, regarding requirements, project objectives, impacts, standardization, exploitation and dissemination of the designed tools, and ultimately, ensure that the Smart2B devices, platform and services developed are appropriated for the needs of the industry and the common users.

Regarding Stakeholders engagement activities, SAB should help to promote the co-operation and interaction with relevant interest groups, projects, initiatives in order to strengthen project impact. In this context, the SAB members pointed out in the first months of the project could be grouped according to its sector of activity as follow:



1. Associations

European Green Cities

<http://www.greencities.eu/>



A non-profit organization, founded in 1998, that have been actively participating in EU proposals and projects with the objective of help alleviate the climate crisis by supporting innovative energy and mobility projects. Their mission is to contribute to the development of green cities and buildings in a sustainable Europe by supporting the projects with our know-how.

DECO Proteste

<https://www.deco.proteste.pt/>



A Portuguese, non-profit, consumers association, which objectives are ensuring that the citizens are informed, enlightened, aware and trained in the defense of their rights, hoping to promote a more innovative and competitive economy. In the last years, DECO has been actively participating in EU proposals and projects and is also responsible for testing and compare appliances and HVAC systems performance.

2. Appliances and HVAC systems manufacturers

Whirlpool

<https://www.whirlpool.com/>



An American multinational manufacturer and marketer of home appliances. The project contact is part of Whirlpool Italy, and in the last few years they are participating in several EU projects and can contribute to Smart2B with their knowledge about appliances integration and communication as well as fault detection and predictive maintenance needs.

BSH Home Appliances

<https://www.bsh-group.com/>



A German manufacturer of home appliances, the largest in Europe and one of the leading companies in the sector worldwide. The group result from a joint Venture between Siemens and Bosch. Their experience and expertise in the appliance's world will be valuable for the project.

iSMA CONTROLLI


<https://www.ismacontrolli.com/en/>



A capital group operating in the field of building automation, formed by iSMA CONTROLLI Italy S.p.A and iSMA CONTROLLI Poland S.A.). The Smart2B advisory board contact person work mainly in the manufacturer of actuators and valves for HVAC systems and their integration of these kind of devices with new and existing Building management systems (BMS).




3. Construction

CTCON	https://ctcon-rm.com/en
	<p>Asociación Empresarial De Investigación Centro Tecnológico De La Construcción Región De Murcia, is a Spanish private non-profit business association whose main purpose is the development of any activity aimed at advancing technology, quality, competitiveness and expansion of the construction sector and related industries. Their main task is the development of R&D projects, but they also provide Advanced Technological Services, Specialized Training Services and Technological Dissemination and Surveillance Services.</p>

4. IoT & ICT provider

Schneider Electric	https://www.se.com/ww/en/
	<p>Is a French multinational company that specializes in digital automation and energy management, including buildings, data centers, industries by combining energy technologies, real time automation and related services.</p>

5. Business Models

Schneider Electric	https://www.civiesco.it/_uk/
	<p>Is an Italian Energy Service company controlled by Civibank, that works in the field of energy efficiency and R&I. They develop documentary collection of data on energy consumption, analysis of the same and proposal of interventions in order to support investment decisions. In addition, they have great knowledge and experience developing innovative business models.</p>

3.4 Clustering activities

Since Smart2B is part of a community of European funded projects and many Consortium Partners are participating in other H2020 projects, Smart2B aims join its forces with other related entities in order to foster the exchange of information, experience, knowledge and best practices. In addition, collaborations with other EU research and innovation projects in the same or related framework will lead to potential synergies (whenever possible) regarding the communication and the dissemination of the initiatives in terms of innovations and European cooperation.

In deliverable “D8.1 – Dissemination and Communication Plan, including project identity”, some EU projects were already identified for potential collaboration. During the last months several contacts have been established with other European Projects, and relationships have been strengthened, resulting in two types of collaboration:

1. EU4BET - EU for Buildings’ Energy Transition projects cluster:

Cluster of projects funded under the H2020 framework, that have the common goal of developing devices, platforms, services and business models to achieve smarter buildings and also make use of the aggregation of flexibility, enhancing energy communities. The EU4BET has divided in two workgroups: the communication group aims to promote communication and dissemination activities mainly through the organization of joint events and a common strategy to manage social media channels; and the technical group that will work together to discuss common technical topics, sharing experiences, knowledge, best practices and data. As next activities the cluster will define the cluster logo and name, subscribe to the Horizon Results Booster, create a dedicated page on each project website, joint social



media activities, and organize a joint webinar on the Sustainable Energy Days. The EU4BET cluster is composed by five projects, including:

SATO

www.sato-project.eu



Self-Assessment towards optimization of Building Energy. This project receives funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement Number 957128.

PRECEPT

www.precept-project.eu



A novel decentralized edge-enabled PREsCRIPTivE and Proactive framework for increased energy efficiency and well-being in residential buildings. This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under grant agreement No 958284.

COLLECTIEF

www.collectief-project.eu



Collective Intelligence for Energy Flexibility. This project has received funding from the European Union's H2020 Research and Innovation Programme under grant agreement No 101033683.

PRELUDE

<https://prelude-project.eu/>



Prescient building Operation utilizing Real Time data for Energy Dynamic Optimization. This project has received funding from the European Union's H2020 Research and Innovation Programme under grant agreement No 958345.

2. Other projects:

With the other EU projects outside EU4BET cluster, the main objective of Smart2B is to promote and coordinate communication and dissemination activities in order to increase project visibility on social media and websites, and to build a strong network boosting a mutual participation in workshops, conferences and events. Currently, Smart2B established relationship with the following projects:

SmartBuilt4EU

www.sato-project.eu



The SmartBuilt4EU supports innovators from the smart building value chain through concrete networking and communication actions and develops a Strategic Research Agenda combined to policy recommendations to support the further uptake of smart buildings. This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under grant agreement No 956936


PHOENIX
<https://eu-phoenix.eu/>


PHOENIX

Adapt-&-Play Holistic cOst-Effective and user-frieNdly Innovations with high replicability to upgrade smartness of eXisting buildings with legacy equipment. This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under grant agreement No 893079

3.5 Events

This section reports all the events conducted from September 2021 up to August 2022 to communicate about Smart2B project, disseminate results and engage stakeholders. For each event, information regarding the name of the event, date and place, description of activity, lead partners, number of attendees, and target stakeholders is presented. In order to collect this information in an organized manner the "Smart2B event tracking document" presented on "D8.1 - Dissemination and Communication Plan, including project identity" was used.



15th Congresso Engenharia de Serviços e Gestão

Date and Place	27 th April 2022, Faculdade de Engenharia da Universidade do Porto (FEUP)
Type of event	Hybrid mode (physical + online)
Description of the activity	Nuno Mateus (EDP) introduced the audience to the goals and challenges that the project will be facing in the forthcoming years. Focus points were the services that Smart2B aims to develop and the user-centric approach that the consortium is using to develop the Smart2B concept.
Lead Partners	EDP
Nº of attendees	40 participants
Target stakeholders	<ul style="list-style-type: none"> - Academia, the scientific community - General Public
Picture	<p>The first image is a presentation slide titled 'Smart2B' with the subtitle 'Improving the smartness of existing buildings through the implementation of smart services'. It lists 'Nuno Mateus' as the speaker on '27 April 2022' at 'FEUP - CESG'. The second image is an infographic titled 'Technology Pillars' with three main sections: 'Diagnosis and building selection', 'Implementation & Deployment', and 'Use scenarios, user engagement & social innovation'. Each section includes a brief description and an icon.</p>
Reference	https://www.linkedin.com/feed/update/urn:li:activity:6923209651069054976/



Energy by demand side - Associação Portuguesa de economia da Energia (APEEN)


Date and Place	7 th June 2022
Type of event	Online mode
Description of the activity	Nuno Mateus (EDP) introduced the audience to the goals and challenges that the project will be facing in the forthcoming years, highlighting the contribution of the project to smart buildings development and the empowerment of consumers.
Lead Partners	EDP
Nº of attendees	35 participants
Target stakeholders	<ul style="list-style-type: none"> - Academia, the scientific community - General Public - Policy makers - Grid Operators (TSOs, DSOs, retailers, aggregators)
Picture	<p>The image is a promotional poster for a webinar titled "A Energia pelo Lado da Procura" (Energy from the Demand Side). The poster includes the following information:</p> <ul style="list-style-type: none"> Topic: Tarifas, edifícios inteligentes e empowerment do consumidor de eletricidade (Tariffs, smart buildings and empowerment of electricity consumers). Date and Time: 3^a feira - 07 junho 2022, 16h00. Speakers: <ul style="list-style-type: none"> Isabel Apolinário ERSE: Diretora da Direção de Tarifas, Preços e Eficiência Energética da ERSE, membro dos grupos de trabalho do gás do CEER e do MEDREG. Mestre em Economia e Política da Energia e do Ambiente (2005) pelo Instituto Superior de Economia e Gestão da Universidade Técnica de Lisboa. Nuno Mateus EDP NEW: Project Manager na área das Energy Positive Communities da EDP NEW, Coordenador do projeto Smart2B (H2020). Doutor em Energia e Desenvolvimento Sustentável (2016) pela Faculdade de Ciências da Universidade de Lisboa. Prof. António Marques Moderador: Universidade da Beira Interior. Logos: NECE, APEEN, and other institutional logos. Link to Webinar: https://Microsoft Colle.../88433012591?web=73a7056a7c711e209218000000000009
Reference	http://www.apeen.pt/ativ/




AIAI 2022 - 18th International Conference on Artificial Intelligence Applications and Innovations

Date and Place	22 nd July 2022, Crete - Greece
Type of event	Hybrid mode (physical + online)
Description of the activity	CERTH Team participate in the Workshop "AIBMG 2022 (Energy, Buildings and Micro-Grids Workshop)", where Iakovos Michailidis moderate the session and two works related with Smart2B were presented: "Non-Intrusive Diagnostics for Legacy Heat-Pump Performance Degradation" and "Performance Meta-analysis for Big-Data Univariate Auto-Imputation in the Building Sector"
Lead Partners	CERTH
Nº of attendees	25 participants (in the session)



Target stakeholders	- Academia, the scientific community
Picture	
Reference	https://ifipaiai.org/2022/

IoTWeek Security & Privacy Threats Session

Date and Place	22 nd June 2022, Dublin - Ireland
Type of event	Hybrid mode (physical + online)
Description of the activity	Antonio Skarmeta (OdinS) participates in the session "Security & Privacy Threats" and discuss how Smart2B is addressing the issues of security and privacy in the development of its platform
Lead Partners	OdinS
Nº of attendees	60 participants
Target stakeholders	<ul style="list-style-type: none"> - Academia, the scientific community - General Public - Policy makers - Grid Operators (TSOs, DSOs, retailers, aggregators) - IoT and ICT Providers
Picture	
Reference	Security & Privacy Threats Schedule IoT Week 2022 Dublin (grenadine.co)



IOTWeek

Workshop - Identity, trust and privacy in an intelligent, smart IoT World. Challenges and outcomes - Session 1: Trust and lifecycle management in the IoT World

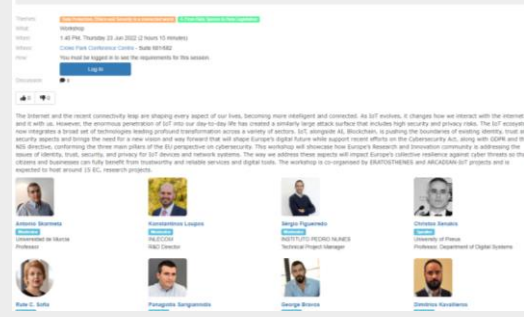
Date and Place	23 rd June 2022, Dublin - Ireland
Type of event	Hybrid mode (physical + online)
Description of the activity	Antonio Skarmeta (OdinS) participates in the "workshop- Identity, trust and privacy in an intelligent, smart IoT World. Challenges and outcomes - Session 1: Trust and lifecycle management in the IoT World" where he presents how Smart2B is addressing the issues of trust, privacy for IoT devices and network systems
Lead Partners	OdinS
Nº of attendees	45 participants
Target stakeholders	<ul style="list-style-type: none"> - Academia, the scientific community - General Public - Policy makers - Grid Operators (TSOs, DSOs, retailers, aggregators) - IoT and ICT Providers
Picture	
Reference	Identity, trust and privacy in an intelligent, smart IoT World. Challenges and outcomes - Session 1: Trust and lifecycle management in the IoT World Schedule IoT Week 2022 Dublin (grenadine.co)

IOTWeek

Workshop - Identity, trust and privacy in an intelligent, smart IoT World. Challenges and outcomes - Session 3: Trustworthiness and Tailored applications

Date and Place	22 nd June 2022, Dublin - Ireland
Type of event	Hybrid mode (physical + online)
Description of the activity	Antonio Skarmeta (OdinS) participates in the "Workshop - Identity, trust and privacy in an intelligent, smart IoT World. Challenges and outcomes - Session 3: Trustworthiness and Tailored applications" where he presents how the project address the issues of identity, trust, security, and privacy and how they will impact Europe's collective resilience against cyber threats so that citizens and businesses can fully benefit from trustworthy and reliable services and digital tools.
Lead Partners	OdinS
Nº of attendees	45 participants



Target stakeholders	<ul style="list-style-type: none"> - Academia, the scientific community - General Public - Policy makers - Grid Operators (TSOs, DSOs, retailers, aggregators) - IoT and ICT Providers
Picture	<p>Identity, trust and privacy in an intelligent, smart IoT World. Challenges and outcomes - Session 3: Trustworthiness and Tailored applications</p> 
Reference	<p>Identity, trust and privacy in an intelligent, smart IoT World. Challenges and outcomes - Session 3: Trustworthiness and Tailored applications Schedule IoT Week 2022 Dublin (grenadine.co)</p>

Smart2B Innovation Webinars	1st Smart2B innovations Webinar – Project presentation
Date and Place	12 nd July 2022
Type of event	Online mode
Description of the activity	<p>The Smart2B innovation webinars are organized by EDP under T8.4. In the 1st webinar several European Commission initiatives (EC) will be presented, namely the revision of the European Performance of Building Directive (EPBD) and the Smart readiness Indicator (SRI) methodology. Additionally, Project Coordinator (Nuno Mateus) presented Smart2B project, highlighting its technology pillars and the main project key exploitable results, that will be further discussed in the following webinars. In addition, Andrei Litiu (REHVA) and Simoni Alessandri (eu.bac) also made their own presentation and participate in the final discussion about Smart2B can contribute to EU objectives in terms of energy transition and digitalization.</p>
Lead Partners	EDP
Nº of attendees	40 participants
Target stakeholders	<ul style="list-style-type: none"> - Academia, the scientific community - General Public - Policy makers - Grid Operators (TSOs, DSOs, retailers, aggregators) - IoT and ICT Providers - Municipalities - Building construction industry - Start-ups



Picture	
Reference	https://smart2b-project.eu/initiatives/webinar/



Porto ICRE'22 - Porto International Conference on Research in Education 2022

Date and Place	22 nd July 2022, Porto (Dublin, Ireland)
Type of event	Hybrid mode (physical + online)
Description of the activity	Santa Casa da Misericórdia de Lisboa Team (Filomena Gerardo, Diogo Gomes and Inês Filipe) will present in "Session 3 – ST3: Challenges of society and education – Parallel Session II" the Smart2B approach regarding the development of the energy sustainability education program for children and young adults
Lead Partners	SCML
Nº of attendees	60 participants
Target stakeholders	- Academia, the scientific community
Picture	
Reference	https://porto-icre2022.eventqualia.net/pt/2022/inicio/programa/programa-cientifico/

3.5.1. Future events

Table 3 provides a list of future events and related target stakeholders. The participation of Smart2B in the first six activities presented in the following table have already been confirmed. The remaining two events were already identified as targets but still need confirmation in the following weeks/months.



Table 3: Smart2B future events

Event	Target stakeholders	Partner	Date
Sustainable places 2022 (Paper presentation and participation in workshop)	<ul style="list-style-type: none"> - Academia, the scientific community - General Public 	EDP	06/09/2022 – 09/09/2022
2nd workshop on Machine Learning for Buildings Energy Management – E European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases	<ul style="list-style-type: none"> - Academia, the scientific community 	EDP & FC.ID	19/09/2022
Digital transformation Summit	<ul style="list-style-type: none"> - Academia, the scientific community - General Public - Policy makers - Municipalities - Start-ups 	EDP	24/10/2022 – 27/10/2022
Enlit Europe 2022	<ul style="list-style-type: none"> - General Public - Grid Operators (TSOs, DSOs, retailers, aggregators) - IoT and ICT Providers - Building construction industry - Start-ups & SMEs - Medium and large-sized corporations/real estate owners 	EDP, D1	29/11/2022 – 01/12/2022
Smart2B innovation Webinars	<ul style="list-style-type: none"> - Academia, the scientific community - General Public - Policy makers - Grid Operators (TSOs, DSOs, retailers, aggregators) - IoT and ICT Providers - Municipalities - Building construction industry - Start-ups 	EDP, D1, EB, ODINS, VITO, FC.ID	11/2022 03/2023 07/2023 11/2023
EDP NEW R&D Sessions	<ul style="list-style-type: none"> - Academia, the scientific community - General Public - Policy makers - Grid Operators (TSOs, DSOs, retailers, aggregators) - IoT and ICT Providers - Municipalities - Building construction industry - Start-ups 	EDP	11/2022



Energy days – EUSEW - Sustainable Energy Days	<ul style="list-style-type: none"> - Academia, the scientific community - General Public - Policy makers - Grid Operators (TSOs, DSOs, retailers, aggregators) - IoT and ICT Providers - Building construction industry - Start-ups 	EDP & D1	09/2022
CISBAT Conference	<ul style="list-style-type: none"> - Academia, the scientific community 	RWTH	09/2023

3.6 Publications

Smart2B stakeholders' engagement strategy also consider make use of publications to attract and engage project stakeholders. Table 4 and Table 5 report scientific publications and other online articles, respectively, published during the first year of the project (M1-M12).

Table 4: Smart2B scientific publications

Reference	Title	Authors	Partner	Date
https://link.springer.com/chapter/10.1007/978-3-031-08341-9_22	Non-intrusive Diagnostics for Legacy Heat-Pump Performance Degradation	Iakovos Michailidis, Georgios Vougiatzis, Alike Stefanopoulou, Asimina Dimara, Christos D. Korkas, Stelios Krinidis, Elias B. Kosmatopoulos, Dimosthenis Ioannidis, Christos-Nikolaos Anagnostopoulos, Dimitrios Tzovaras	CERTH	06/2021
https://link.springer.com/chapter/10.1007/978-3-031-08341-9_23	Data Performance Meta-analysis for Big-Data Univariate Auto-Imputation in the Building Sector	Alike Stefanopoulou, Iakovos Michailidis, Asimina Dimara, Stelios Krinidis, Elias B. Kosmatopoulos, Christos-Nikolaos Anagnostopoulos, Dimitrios Tzovaras	CERTH	06/2021
Future publication in Open Research Europe in a specific collection dedicated to Sustainable Places 2022	Energy Gamification: development of a user interface tool to upgrade the social experience and energy literacy	João Cravinho, Uways Mithoowani, Daniel Albuquerque, Nuno Mateus	EDP	10/2022



Table 5: Press releases and other online materials

Extract	Reference	Partner	Date
 <p>H2020 FUNDED SMART2B PROJECT STARTS IN SEPTEMBER</p> <p>... (text) ...</p>	https://www.lasige.pt/h2020-funded-smart2b-project-starts-in-september	FC.ID	08/2021
 <p>EeB PPP Project review 2021</p> <p>... (text) ...</p>	http://ectp.ectp.org/cws/params/ectp/download_files/36D4584v1_EeB_PPP_Project_Review.pdf	EDP	02/2022
 <p>-Liderar a transição energética sempre foi um objetivo da EDP-</p> <p>... (text) ...</p>	https://executivedigest.sapo.pt/liderar-a-transicao-energetica-sempre-foi-um-objectivo-da-edp/	EDP	05/2022
 <p>Smart2B</p> <p>... (text) ...</p>	https://www.enlit.world/projects/smart2b/	EDP	05/2022
 <p>Machine Learning for Buildings Energy Management workshop (19 Sept)</p> <p>... (text) ...</p>	https://www.ectp.org/news-events-newsletters/news/news-detail/machine-learning-for-buildings-energy-management-workshop-19-september-2022-call-for-papers/	FC.ID	06/2022



4. Feedback from stakeholders engagement

In order to collect a higher number of feedback from public actors engagement, as well as further increase the project newsletter subscribers, a simple online form was developed to collect feedback from project events' participants. This form will be shared with the stakeholders during all Smart2B events, to assess the level of satisfaction about the event and the project by itself, and, finally, to gather also suggestions for improvement. In the figure below is presented the "Event Evaluation Form" used by Smart2B Consortium.

Event Evaluation Form

1. First name

2. Last name

3. Email address
You will receive a confirmation email of your registration

4. Company

5. How satisfied were you with this event?

☆☆☆☆☆

6. Overall, how useful did you find this event?

Extremely useful

Somewhat useful

Neutral

Somewhat not useful

Extremely not useful

7. How do you classify the level of contents presented?

Too easy

Appropriated

Too difficult



8. Select the options that best describes your organization:

Building users/occupants/owners

Facility/ building manager

Architect/engineer

Building construction company

Building designer and appliance manufacturer

Grid operators

Policymakers

Municipality

SMEs and start-ups

Academia, the scientific community

General Public and Media

Other

9. Do you have any suggestions or comments?

10. Are you interested in subscribing Smart2B Project Newsletter?

Yes

No

Figure 1: Smart2B Event Evaluation Form

4.1 Events feedback

During the first year of Smart2B project was not possible to gather as much feedback as desired. However, and also considering the feedback received during external events, good acceptance of the project concept was observed, as well as recognition of the potential impacts the project can create. In overall, the whole Smart2B services layer is the topic the audience is more interested in.

In addition, the first SAB meeting was held on the 7th of June 2022 in online mode. Five of the eight SAB members attended. Since this was the first meeting, the main objectives of this meeting were to present the following topics: the context, background, introduction to the project and the purpose of the SAB; the summary of work packages and their objectives; and the discussion of the main challenges the project faces,

As outcome of this meeting, SAB highlight the following topics as the most relevant outputs of the project:

1. Integration of legacy appliances through Smart2B devices;
2. Development of the building ontologies and automatic semantical representation of all data collected;
3. Smart2B Services.



5. Conclusions

Smart2B adopted a user-centric approach to develop the whole technological ecosystem composed by devices, platform, services and user-interface. In this context, the interaction of different users in order to identify their needs, in the initial stage of project, and to get their feedback about the final results and user-friendliness of the system it is highly relevant for the process success. Proper identification and management of the different Smart2B stakeholders is fundamental since they allow to:

1. Create public and scientific awareness;
2. Involve actors that could bridging the gap between the Smart2B concept and its transposition to "real world", including its market and user acceptance;
3. Maximize project impacts and results.

During the first year (M1-M12), Smart2B project participated in several and diverse types of dissemination and communication events that contributed to promote stakeholders' engagement, including: presentations in workshops, conference and webinars, organization and kick-off of Smart2B innovation webinars, publication of scientific and non-scientific articles.