



PRECEPT

Less Energy > Smarter Buildings

Newsletter

Dear reader,

This is the newsletter of the innovative project PRECEPT, which is using cutting-edge technologies with the aim to transform conventional residential buildings into highly efficient and proactive buildings. The project started in October 2020, completing already 1,5 years of work. In this newsletter, we are proud to share with you an overview of the work and accomplishments we have achieved in the first year of the project.



15

Partners



10

Countries



6

Demonstration Sites



600

Pilot Users



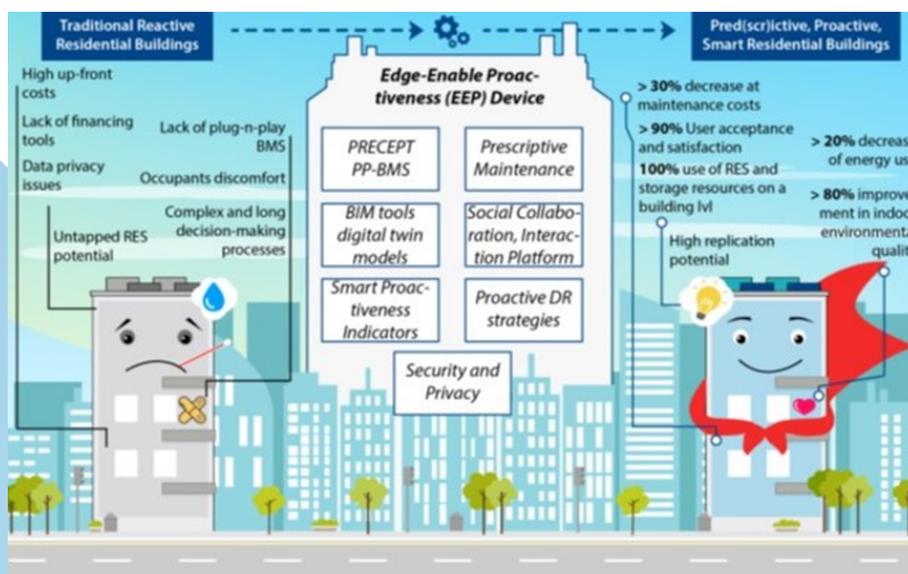
Deliverables

D1.1 – PRECEPT requirements, recommendations and guidelines

The scope of the deliverable is to identify the needs and requirements of the major players and the market concerning the emerging intelligent building control systems. The advantages of proactive buildings foreseen by the PRECEPT project will lead to increased energy and operational efficiency as well as improved overall well-being for the tenants. The output of the deliverable assists in identifying the potential reach and impact of building proactive technologies by investigating the current modern Building Control strategies and technologies. The Report for User & Business requirements constitutes the first milestone of the project which is successfully achieved in March 2021.

D1.2 – European & national legislation, standards & initiation of the legal procedures

The aim of deliverable is to identify the existing European and national legislation with relevance to intelligent proactive buildings. The analysis has indicated that the overarching driving force of proactive residential buildings' development is legislation as well as standards. Defining and implementing the appropriate legislative framework sends the right signals to the industry experts and the construction market key players for the development of innovative products and services and the adoption of effective strategies that will enable the large-scale development of new proactive residential buildings. It also sets the right foundations for raising awareness among the building owners and users about the benefits these dwellings have to offer.



D1.3 – PRECEPT pilot analysis and deployment plan v1

Aims to identify the requirements of the scenarios through a survey conducted on the five pilot sites. With the questionnaire that was disseminated to pilot sites, we assessed the existing condition of the pilots, by developing questions regarding building itself, its users, current energy performance, structural description of the building. Besides, the Smart Readiness Indicator was calculated for each of the pilot sites, using the latest methodology. This deliverable aims at serving as an overview of the demonstration cases and initial definition of the PRECEPT solutions in terms of use cases.

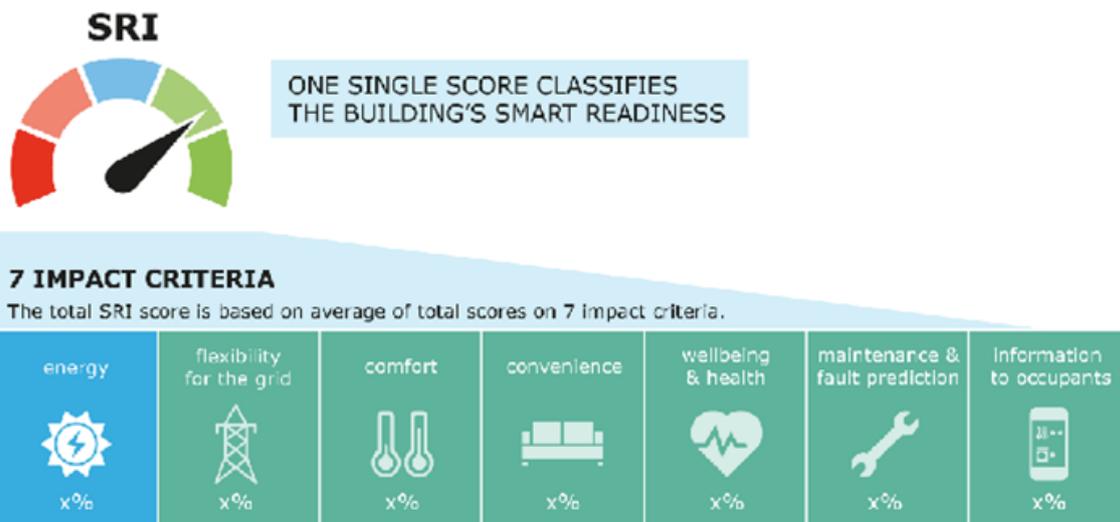


D1.5 – Architecture of PRECEPT Solution along with its functional technical specifications v1

The first part of the deliverable presents the methodology used to achieve and document the architecture. To develop and describe the PRECEPT architecture the international standard IEEE 42010 'Systems and software engineering – Architecture description', which defines core elements like viewpoint and view, is applied. In order to implement and execute this methodology, the approach introduced by Rozanski & Woods is followed. It also presents the methodology and its application in the Framework Design Phase. It implies a process based on a set of relevant architecture viewpoints. For PRECEPT four functional viewpoints have been defined, namely functional view, deployment view, dynamic view and information view. This is an overview of the PRECEPT platform, describing the major building blocks of the system in the form of software modules and dependencies. In line with the above methodology, this reports documents requirements, viewpoints and use case analyses.

D2.1 – Report on smart proactive indicators (SPIs) v1

The key objective of Task 2.1 - Smart Proactiveness Indicators (SPIs) is the establishment of a new set of key performance indicators for smart proactive buildings, the SPIs. This task targets the further development of the Smart Readiness Indicator (SRI), to include indicators that will not only enable the evaluation of the smartness of buildings but also their proactiveness. The SPI methodology follows a multi-criteria assessment approach, which focuses on the buildings' functional capabilities, is modular, flexible, and adaptive and allows for a detailed but also time- and cost-efficient assessment of buildings. The result was the development of the SPI and the methodology by which it is calculated for enabling the assessment of smart proactive buildings.

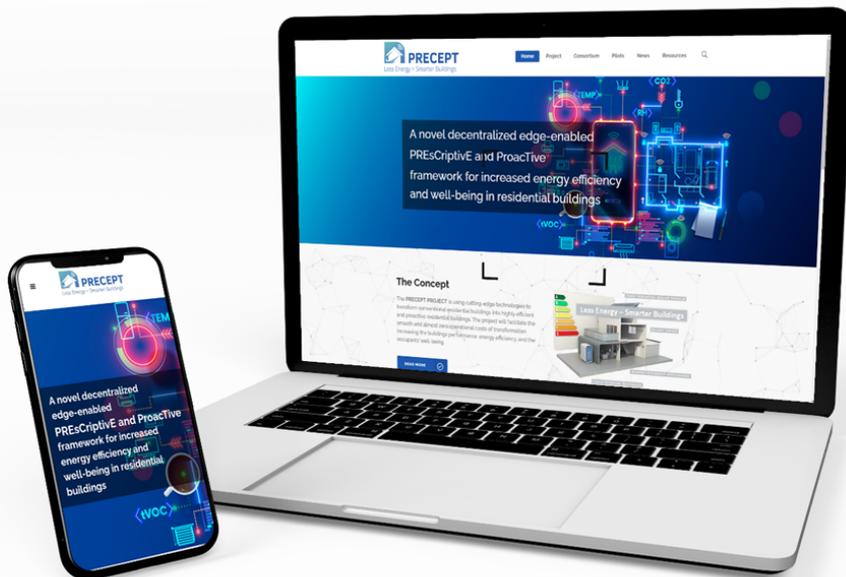


D6.1 – Dissemination & Communication Plans v1

The deliverable covers the introduction of the communication strategy and dissemination planning to be followed throughout the PRECEPT lifecycle. The effective dissemination of the project is based on implementing the appropriate communication methods according to the A.I.D.A. marketing strategy. A clear C&D plan is introduced including target audience groups, messages and channels followed by a set of KPIs to be monitored.

D6.4 – Project Website & dissemination materials v1

Deliverable 6.4 presents the first set of marketing tools generated by the consortium to communicate the project's message and disseminate the results. The PRECEPT website, the project's logo, the PRECEPT document templates and the social media presence are delivered as an initial set of tools used for the PRECEPT branded promotion and materials for exploitation to the wider audience.



Find us on our [Website](#)

D6.6 – Report on Dissemination Activities v1

D6.6 is the first report on Communication and Dissemination activities of the PRECEPT project. The document describes the material and tools utilized by all partners to effectively communicate the project while the PRECEPT poster, the project presentation slides, and functional templates are identified. Activities at local and international level via the different channels, project website and social media pages as well as the promulgation of several press releases, newsletters and scientific publications are reported. Finally, the relevant KPIs in accordance with the DC methodology and the strategy for evaluating the effectiveness of the proposed activities so far are presented.



D6.13 – Report summarizing existing standards and standards under development

This deliverable within the WP6 Task 6.5 provides an overview of existing standards and the ongoing standardisation work in a wide area of relevance to the PRECEPT project. In the analysis 209 standards were identified, among them 99 European standards developed by CEN or CEN and CENELEC and 109 are international standards developed by ISO or jointly ISO and IEC. Of them, 44 standards are currently in the drafting stage. It must be emphasized that despite the relatively large number of standards, relevant for various aspects of BEP, there is a lack of specific standards, particularly relevant for the PRECEPT project. However, adherence to the standards is of critical importance for the deployment and operation of proactive residential buildings, and development of such standard is of utmost importance to ensure their optimal performance and efficiency. While the list of identified standards is not exhaustive, this report is intended to serve as a reference on the key standards in BEP for the consortium members as well as for any expert working in the relevant area.

Latest News



WATT+VOLT presents the PRECEPT project during the 85th Thessaloniki International Fair

PRECEPT Project receives award during BIM & DIGITAL Awards 21.



PRECEPT PROJECT • 1st
PRECEPT HORIZON 2020 PROJECT
22m •

👏 One Thousand connections! Thank you for your support!!
#precept #euproject #H2020 #smarthomes #energyefficiency



PRECEPT 1000 followers in LinkedIn.



PRECEPT 1st in person general assembly meeting in Thessaloniki.

[READ MORE](#)

Marketing Material – PRECEPT Poster

PRECEPT
Less Energy > Smarter Buildings

The smart, efficient and proactive residence

The **PRECEPT PROJECT** is using cutting-edge technologies to transform conventional residential buildings into highly efficient and **proactive** buildings. We facilitate smooth and almost zero operational costs of transformation, achieving better building performance, higher energy efficiency while leveraging the occupant's comfort. The **PRECEPT** ambition is to deliver the next-generation of **Smart Home (IoT)** industry.

Germany
Netherlands
Spain
Ukraine
Greece

Greece
A 6-story building
- Smart House CE3NH pre-plot
in Thessaloniki

Spain
Residential multi-apartment building
in Madrid

Germany
A 6-story residential / multi-family building
in Berlin

Netherlands
A 4-story residential building
"Building for (re)generation"
in Rotterdam

Ukraine
A 5-story skyscraper building
"EcoHome Residential Complex"
in Odessa

WATT-VOL! | PRECEPT | FARMHOUSE | FERRARIS | UNIVERSITÄT DUISBURG ESSEN | UNIVERSITÄT DUISBURG ESSEN | UNIVERSITÄT DUISBURG ESSEN | UNIVERSITÄT DUISBURG ESSEN | UNIVERSITÄT DUISBURG ESSEN

MW | DEMO | OBC

#preceptproject
@preceptproject
@preceptproject
@preceptproject

www.precept-project.eu

This project has received funding from the European Union Horizon 2020 research and innovation programme under grant agreement No 952264

[Download Here](#)

PRECEPT Synergies

D²EPC



Smart2B
Smartness to existing Buildings



Did you know?

Residential buildings in Europe account for 75% of the total buildings stock, consuming 25% of the total energy. However, only 7,7% (2019) of residential buildings are smart and energy-efficient. PRECEPT aims to enable the “smooth” and at almost zero operational costs transformation of conventional residential buildings into highly efficient and proactive ones reaching an ambitious goal of 15% cost savings yearly.

Where to find us



The Consortium



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 958284