



# PRECEPT

Less Energy > Smarter Buildings

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## What is PRECEPT?

The challenge 

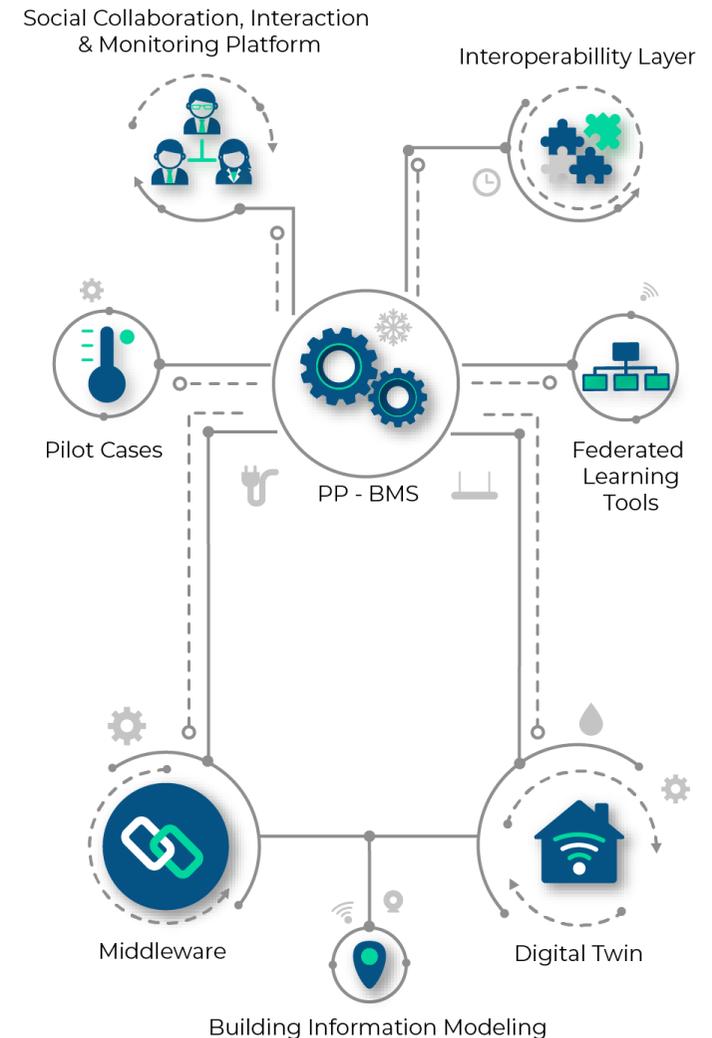
Residential buildings in Europe consume 25% of the total energy and only 7,7% (2019) of residential buildings are smart and energy-efficient.

How does PRECEPT tackle the challenge? 

The overall goal is to make the transformation of buildings from reactive to proactive more attractive to stakeholders, more reliable, secured and cost-effective, environmentally friendly, and in line with grid needs, thus enabling the acceleration of building proactiveness transformation. PRECEPT's ambition is to deliver the next generation of the Smart Home (IoT) industry reaching an ambitious goal of 15% cost savings yearly improving in parallel the occupants' well-being. The overall vision is summarized as follows:

- Transition to Pred(scr)ictive, Proactive Smart Residential Buildings
- Self-managed "plug-n-play" PP-BMS together with federated learning AI algorithms
- Combine edge-computing, security and privacy
- Introduction of Novel sustainable business models

## PRECEPT Architecture



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.



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

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# Pilots

The PRECEPT framework will be demonstrated in real-life conditions as its main mission focuses on the fulfillment of the actual needs and requirements of the tenants.

These pilot cases are located in Greece, Ukraine, Germany, Spain and the Netherlands. CERTH's Smart Home is acting as a pre-pilot where technologies are validated.

The pilots will also be monitored prior to the installation of the PRECEPT ecosystem so baseline data can be gathered.

All Privacy and GDPR legislations have been carefully followed to ensure the protection of the tenants' private information.



# Get Involved

How?

- Visit our [website](#)
- Join our social media channels
- Check out our upcoming events to participate

We will be happy to hear from you!



## Partners



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