



Smart2B

Smartness to existing Buildings

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Starting in September 2021 and for the following 36 months of activities, 11 partners will collaborate to develop new software and hardware solutions for automated management and control of legacy equipment and appliances in order to upgrade smartness levels of existing buildings.

OBJECTIVES

Smart2B's aim is to make existing building smarter by developing software and hardware solutions for automated management and control of legacy equipment and appliances.

Smart2B is designed to innovate the three main layers of buildings' energy infrastructure:

DEVICE LAYER

Legacy and smart devices, appliances, IoT sensors and actuators will all be seamlessly inter-connected through Smart2B devices, which allow them to exchange data with the platform.

PLATFORM LAYER

The core "operating system" of the building, featuring machine learning based big-data analytics, predictive analysis, and overall management of the entire infrastructure.

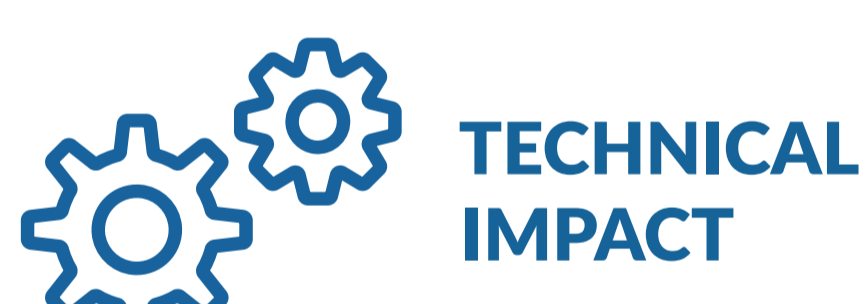
SERVICE LAYER

The Smart2B services toolbox will include multi-criteria management services, namely load scheduling, local energy efficiency, energy flexibility and indoor comfort assessment as well as transversal services, such as energy profiling and energy forecasting, user-in-the-loop actuation, predictive degradation assessment, air quality assessment and smart performance assessment & advisor.

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IMPACTS



TECHNICAL IMPACT

01

Energy efficiency increase up to 40%
Flexibility potential up to 50%
Smartness upgrades up to 93%



ENVIRONMENTAL IMPACT

02

CO₂ emission reduction >2GtCO₂
Primary energy savings 7,4 GWh/year
More efficient building management
Low-carbon technologies



SOCIAL IMPACT

03

Creation & promotion of CECs
Creation of jobs & knowledge in EU
Enhancing EU innovation capacity

Partners

NEW
by EDP & CTG

EDM Energy Research Center | RWTH AACHEN UNIVERSITY

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