P2ENDURE

PLUG & PLAY BUILDING RENOVATION

PLUG-AND-PLAY PRODUCT AND PROCESS INNOVATION FOR ENERGY-EFFICIENT BUILDING DEEP RENOVATION

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DURATION
48 months

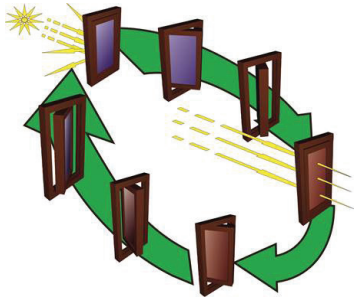
P2ENDURE aims to improve the availability and performance of energy saving solutions for deep renovation and transformation of vacant, obsolete or sub-optimal public buildings into dwellings.

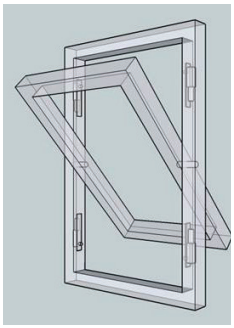
The project provides Plug & Play solutions which are ready to implement, affordable, 50% faster from production to on-site assembly, scalable and adaptable (in all European countries).

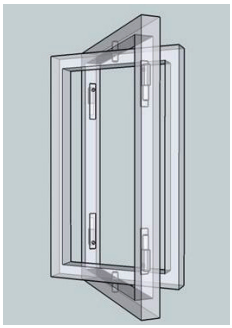
THIS PROJECT IS FUNDED UNDER THE EU PROGRAMME H2020-EE-2016-PPP (SUPPORTING ACCELERATED AND COST-EFFECTIVE DEEP RENOVATION OF BUILDINGS THROUGH PUBLIC PRIVATE PARTNERSHIP (EEB PPP) UNDER GRANT AGREEMENT NUMBER 723391. THE INFORMATION IN THIS PUBLICATION DOES NOT NECESSARILY REPRESENT THE VIEW OF THE EUROPEAN COMMISSION.

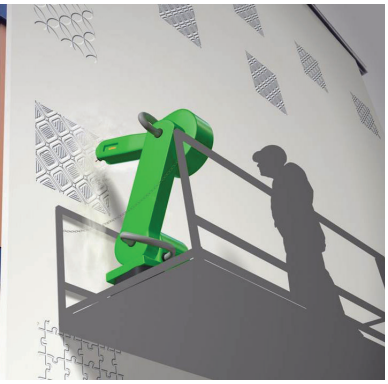
P2ENDURE SOLUTIONS

- Lightweight PnP prefab panel
- Smart energy-efficient window →
- Bloomframe® folding balcony
- Rooftop retrofitting / extension module
- PnP prefab bathroom unit
- PnP prefab HVAC system









← On-site 3D printing and robotics

- IEQ control systems
- 3D scanning (geomatics) – laser and photogrammetry
- Thermal and acoustic scanning technologies
- Connection to energy grid and RES production
- Compact energy storage

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P2ENDURE DEMONSTRATION CASES

The innovative solutions proposed in P2ENDURE will be complemented with a proof-of-performance, which is based on pilot implementation and monitoring in 10 live demonstration projects in all main EU geo-clusters.

The deep renovation within P2ENDURE covers **3 typologies:**

- Transformation from public or historic buildings into dwellings
- Deep renovation of residential buildings and districts
- Deep renovation of public buildings

- Historic residential building in Florence, Itaty
- Historic monastery building in Tilburg, the Netherlands
- Historic building in Reggio Emilia, Italy
- Nursery building in Warsaw, Poland →
- Nursery school in Gdynia, Poland
- Residential district in Ancona, Italy
- Nursery building in Genoa, Italy
- Residenial district Korsløkken, Denmark
- Residenial district in Utrecht, the Netherlands
- University building in Enschede, the Netherlands →
- Office building in Menden, Germany
- District renovation in Palmanova, Italy