



PLURAL



**PLUG-AND-USE RENOVATION WITH ADAPTABLE
LIGHTWEIGHT SYSTEMS**

PLUG-AND-USE RENOVATION WITH ADAPTABLE LIGHTWEIGHT SYSTEMS

PLURAL project aims to design, validate and demonstrate a palette of versatile, adaptable, scalable, off-site prefabricated **Plug-and-Use kits**. A Building Information Modelling (BIM) based platform and a Decision Support Tool (DST) will be developed to enable the optimal component selection, and integration, best Plug-and-Use kit design, faster and low-cost manufacturing and installation.

Renewable energy and smart control systems will be coupled with low environmental impact prefabricated façade components to create the integrated all-in-one Plug-and-Use kits for residential building deep renovation.

OBJECTIVES



NEAR ZERO ENERGY CONSUMPTION



COST-EFFECTIVE



FAST RENOVATION



ENVIRONMENTALLY - FRIENDLY



FLEXIBLE

DEMONSTRATIONS

The PLURAL concept will be integrated at **three different real demo building sites**, located in **Greece, Spain** and the **Czech Republic**.

PLURAL also includes **three virtual building demos** in **Switzerland, Germany and Sweden** for simulating and validating the performance and operation of the solutions under further conditions.

PARTNERS



ams
ADVANCED SOLUTIONS



ZRS



SPF
INSTITUT FOR SOLARTECHNIK

IREC
Shaping Energy for a Sustainable Future

RECUAIR



DAIKIN

BGTec
Building Energy Technology

INTRASOFT
INTERNATIONAL

picharchitects
PICH AGUILERA



FENIX.TNT
tvorivost nad technologii

ITeC

Agència de l'Habitatge de Catalunya



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