



# <u>BIM</u>-based holistic tools for <u>E</u>nergy-driven Renovation of existing Residences

Call: LC-EEB-02-2018



- BIMERR is an EU-funded project under Horizon 2020, related to the Building Information Modelling (BIM).
- 16 partners from 9 Member States
- Budget: approx. 7€ million
- Project duration: 45 months (1/2019 - 09/2022)

- AUTOMATED CREATION OF ENHANCED BUILDING INFORMATION MODELS
- RENOVATION DECISION SUPPORT SYSTEM
- PROCESS MANAGEMENT TOOL
- INTEROPERABILITY FRAMEWORK

## **BIMERR Pilot sites**





KRIPIS home, the first Smart Near-Zero Energy Building in Greece, with IoT, Smart Home solutions



## **Pre-pilot Athens**

Residential building in Athens for smart sensors installation, audits, surveys, and digital model population activities



### **Pilot Bilbao**

Residential building in Bilbao, Spain. 5storey high with 60 apartments that will be renovated using the BIMERR tools



#### **Pilot Warsaw**

Residential building in Warsaw, Poland.
L-shape, 4-storey building will be renovated using the BIMERR tools

#### **RenoDSS**



LCC LCA Urban Plan









## **Interoperability Framework**











### **Digital Model Creation**











External Legacy Systems







Architect



Project Manager



# **PWMA Toolkit**











0.4



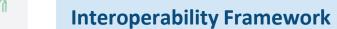
Project

Manager

Site Manager



Occupant















Students & Researchers

Building Surveyor





















**External Legacy Systems** 

