

## WHAT IS BIM4EEB?

BIM4EEB is a EU-funded project supporting the renovation industry in retrofitting existing residential buildings with a complete **BIM-based toolkit**. This will allow a more efficient flow of information, improve building performance, quality and comfort for inhabitants, and decrease the renovation time.

The tools will support to **rapidly shape 3D digital models of existing buildings** and to integrate semantic data in order to perform advanced evaluations of design options for renovations.

Main results of the project include **guidelines for BIM implementation**, and an easy, practical and operational platform as a central repository of information, namely Common Data Environment (CDE).

## WHAT VALIDATES THE PROJECT?

The validation of the developed tools and proposed methodology will be tested on **three Best Practice Examples**. These demonstration buildings have been selected in three different European countries and climate zones. The whole project relies on a user-centric approach, considering different involved users: stakeholders, such as architects, designers, construction companies and service companies will derive advantages of the implementation of BIM-based processes as inhabitants. For this reason three social houses and residential apartment buildings have been selected as case studies in Poland, Italy and Finland.

# PARTNERS



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**BIM4EEB**  
BIM based fast toolkit for  
Efficient rEnovation in Buildings

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## A EU-FUNDED PROJECT



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## OBJECTIVES

1. Maximise efficiency in building renovation
2. Accelerate the market uptake across Europe towards a digital built environment
3. Speed-up data gathering and processing
4. Interoperability of different stakeholders and tools, harmonising data exchange formats

## APPROACHES

The project is based on a multidisciplinary, user-centric approach through:

- Identification of needs of different stakeholders
- Co-designed innovations through workshops at demo sites
- Key social marketing framework based on: AIDA model (attention interest, desire, action)
- Defra's 4E model (enable, encourage, engage, exemplify)
- E-cooperation/ engagement through attractive and intuitive user interfaces and services/ web
- Enhanced Data Privacy and Protection

# NUMBERS

**100%** funded by the European Commission

**3** Universities: PoliMi, UCC, TUD

**2** Research Institutes: VTT, RISE

**42** months: 1 January 2019  
30 June 2022

**3** Large Enterprises: CAVERION, GCI Sverige, PROCHEM

**3** Demo Sites in IT, FI, PL

**1** EU Association ACE

**4** SMEs/ Start-ups: SOLINTEL, SUITE5, OneTeam, VisualLink

**2** Public administrations: Lombardy Region / ALER VCBM