



# BIM-based fast toolkit for Efficient rEnovation in Buildings

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# BIM4EEB General objectives

To foster renovation industry in retrofitting existing residential buildings with a complete **BIM-based toolkit** to make the flow of information efficient and decrease intervention working time and costs, while improving building performances, quality and comfort for inhabitants.

These tools will allow to **rapidly reconstruct 3D digital models of existing buildings** and to seamlessly integrate semantic data in order to perform advanced evaluations of design options for renovations.

Main results will include **guidelines for BIM implementation** and providing an easy, practical and operational platform as a central repository of information, namely **Common Data Environment (CDE)**, with different connected tools.

# The project in a nutshell

## CALL/Topic

- INDUSTRIAL SUSTAINABILITY - ENERGY-EFFICIENT BUILDINGS (EEB)
- LC-EEB-02-2018 Building information modelling adapted to efficient renovation (RIA)

## ACTION ID

- BIM4EEB
- BIM based fast toolkit for Efficient rEnovation in Buildings
- GA No. 820660

## Duration:

- 42 months - 1 January 2019 – 30 June 2022

## Financial

- Costs 6'933'940 EUR
- EC Funding 100%

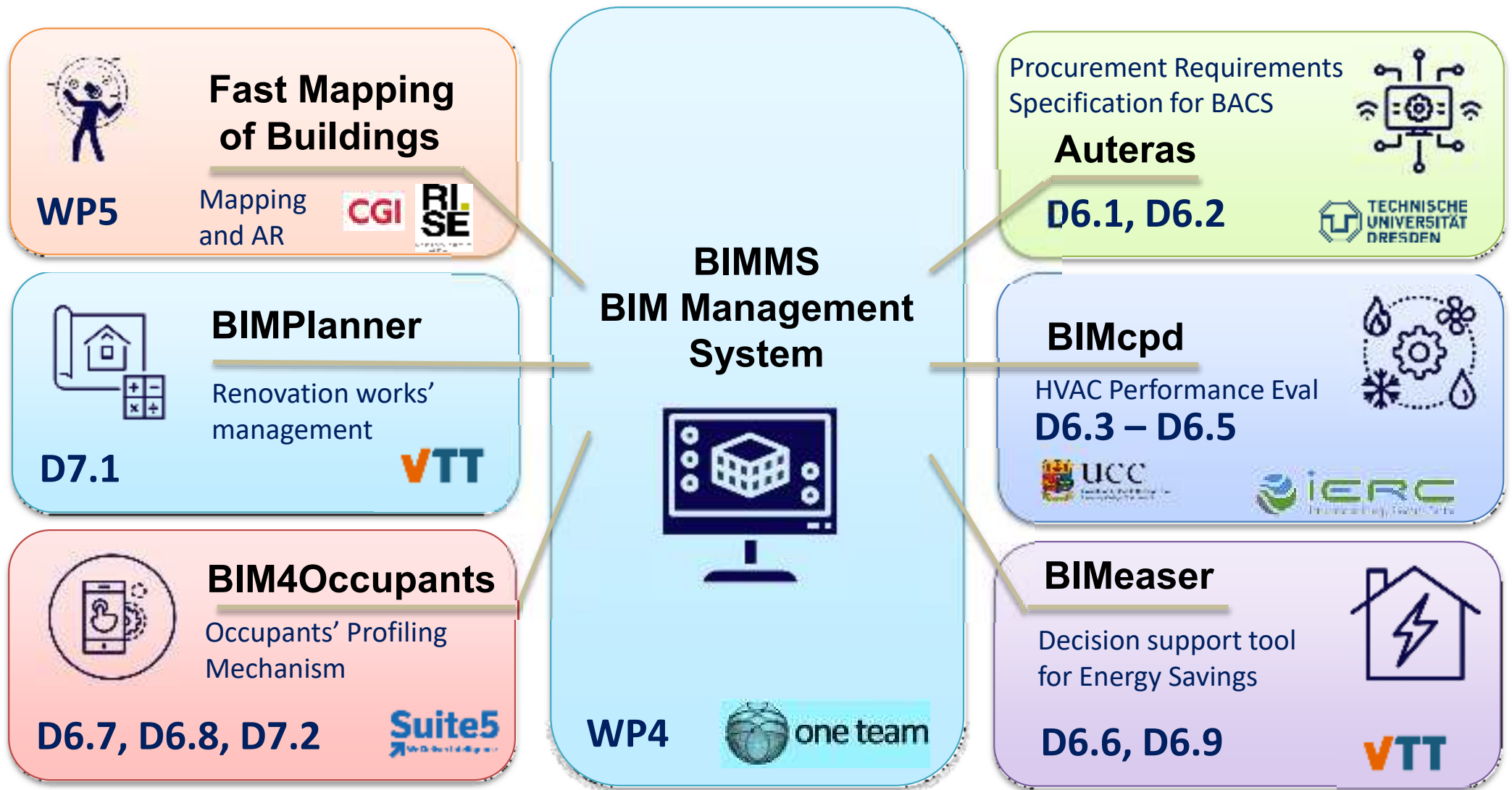
## 15 partners representing main stakeholders

- 3 Universities: PoliMi, UCC, TUD
- 2 Research Institutes: VTT, RISE,
- 2 Public administrations: Lombardy Region / ALER VCBM
- 4 SMEs/ Start-ups: SOLINTEL, SUITE5, OneTeam, VisualLynk
- 3 Large Enterprises: CAVERION, GCI Sverige, PROCHEM
- 1 Association ACE





# The BIM4EEB toolkit



# Overall work plan

## Phase 1



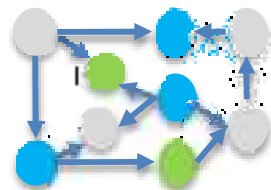
Construction & service companies



HVAC designers



owners & inhabitants



linked data & ontologies

**Requirements,  
linked data & ontologies**

## Phase 2



common data environment



AR for fast mapping & survey



Logbook for fast planning & tracking

BIM-BACS  
data  
exchange



**Tools development**

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## Phase 3



Monza demo site (IT)



Chorzow demo site (PL)



Tampere demo site (FI)

**Demonstration in  
relevant environment**





thanks



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