

**FIEC examines  
the EU BIM  
for Building  
Renovation  
Competition for  
construction  
professionals  
and students**

# Tools for 21st century construction

**H**orizon2020 project BIM-SPEED partners announce the launch of the "EU BIM for Building Renovation Competition" which will start on 21 June 2021 and will last until 21 January 2022.

The "EU BIM for Building Renovation Competition" is intended to bring together multi-disciplinary teams working or studying in the design and construction industry to present a building renovation project that applies the BIM tools and methods developed by the BIM-SPEED partners on their own or in cooperation with other tools available on the market.

Every participating team will have to develop a renovation project using BIM in a way that results in energy savings for the occupants and improves their comfort while at the same time reducing the duration and cost of the overall renovation process.

Jury of the competition consists of international experts based across the EU and specialised in engineering, architecture, and renewable energy. They will

evaluate all renovation projects submitted in the competition and choose the winner in each category.

The following criteria to determine the winners will be taken into consideration:

- time and cost savings results using the BIM-SPEED platform and tools
  - application of sustainable strategies in the renovation project
  - level of collaboration of the team within the BIM-SPEED platform
  - addressing issues related to user comfort and health
- Lastly, competition is accessible to everyone based in the EU and winners will also receive EU exposure through BIM-SPEED dissemination channels and networks of the umbrella organisations covering the widest professional coverage in the sector.

## **BIM – TOOL TO REDUCE CO<sub>2</sub> IN CONSTRUCTION SECTOR**

According to the European Commission, construction and buildings are jointly responsible for almost 40% of global CO<sub>2</sub> emissions and final energy consumption.

In order to reach goals, set out in Paris Agreement by 2050 construction industry have to completely decarbonise. In addition, residential buildings across Europe constitutes more than 75% of the total floor area of the existing building stock, that signifies that speeding up renovation could contribute to a reduction of energy consumption in the EU.

To address issues described above, the EC supports and promotes digitalisation in the construction industry and has



started various initiatives to promote it through Horizon Europe, Digital Innovation Hubs and Testing and Experimentation Facilities.

One of the main tools is Building Information Modelling (BIM) which aims to reduce costs and resource use. BIM facilitates the process of managing information during the project lifecycle, from planning and design to construction operations.

With no doubt, BIM is a sustainable energy supportive technology, improves design, construction and operation processes and reduces carbon footprint in construction industry.

## **BIM-SPEED PROJECT IN A NUTSHELL**

The EU-funded project BIM-SPEED aims to develop a combination of methodologies and tools with one central information source, namely BIM, a digital representation of a building.

All integrated into a single platform, the BIM-SPEED solutions are designed to reduce the cost and duration of the deep building renovation process for all the actors of the value chain while improving the energy

performance of the building by 60%.

Over a four-year period (2018-2022), BIM-SPEED is set to develop a cloud-based BIM platform which is affordable and user friendly, as well as a set of interoperable BIM tools that will be connected on the BIM platform.

In addition, taking into consideration the fact that majority of residential buildings are renovated by SMEs, the project will present 12 real demonstration cases (in Bulgaria, Italy, Poland, Spain), focusing on SMEs involvement in construction.

The consortium is led by the Technical University of Berlin and consists of 22 partners in total – 3 universities, 4 construction companies, one public sector company, 3 research and technology centers, 7 R&D firms and 4 European construction industry umbrella organisations (FIEC, ACE, REHVA and EBC).

All four umbrella organisations are highly involved in dissemination of project results at the European level as well as implementing guidelines and business plans to ensure long term sustainability of different project's outcomes.

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