

BIMEET

The broadening of the BIM training agenda to support the European union building energy efficiency agenda.



Inspiration

The fight against climate change requires us to urgently reduce energy consumption in the building sector, which is responsible for over 40% of CO2 consumption and emissions in Europe. Improvements in the design, construction or operation of buildings entail the use of new materials and technologies and the introduction of new production and management methods. Moreover, apart from the disciplines usually involved in this field, new professions are emerging, including specialists in the fields of energy and the environment.

Furthermore, the digital transformation of the sector as a whole is not only leading to productivity gains, but is also improving our understanding of building and city data, paving the way for better collaboration in the sector and enhanced interaction with users of the built environment. BIM (Building Information Modelling) is emblematic of these technologies and collaborative methods.

Enhancing the qualifications of workers is key in all economic sectors but is particularly critical in the Construction sector. It is recognized that Information and Communication Technologies (ICT) can be the key enabler of a new era in the Construction sector and the European Commission has identified a strong need in improving the skills of middle and senior level professionals and blue collar workers in the area of sustainable energy efficient construction

Innovation

BIMEET will endeavour to enhance the skills, qualifications and capabilities of construction practitioners (from middle and senior level professionals to blue collar workers), thus increasing market penetration and the adoption of key technological development in BIM, given the timeliness of the need for training in combined green and functional performance engineering.

BIMEET aims to broaden the BIM training agenda to support the European union building energy efficiency agenda. This requires broad awareness and expertise in BIM practice across different asset types and different roles in the industry. The innovation relies on a combination of BIM and energy efficiency. To achieve this, LIST and its project partners will develop a skill matrix related to BIM and energy efficiency, for the Architecture Engineering and Construction (AEC) sector. The project will disseminate the outcomes based on the European Qualifications Framework and will provide a platform for construction stakeholders to assess skills and register their training offering.

LIST brings its expertise in the field of BIM, relying on ongoing projects like BIM4VET, 4DCollab and BIMetric. In particular, the BIMEET project will rely on, and develop further, the competency matrix for BIM developed within BIM4VET. It will also deploy the BIM4VET platform to offer services to construction practitioners and training institutes.

Impact

BIM is foreseen as a means to waste reduction, performance gap minimization, in-use energy enhancements, and total lifecycle assessment. It also targets the whole supply chain related to design and constructions as well as the management and use of facilities, at the different qualification levels (including blue collar workers).

BIMEET will demonstrate/strengthen the usefulness of BIM to achieve energy-efficient buildings through concerted and strategically devised Europe-wide adapted training. The BIM qualifications and skills frameworks across Europe will be harmonized, following and implementing the reference European Qualification Framework to BIM and EE.

The project will contribute to improving the capacities and skills of professionals in the field of the building energy performance. BIM technology is also relevant for enhancing the integration of renewables in buildings. It is expected that the BIMEET project will help to improve the efficiency of systems or to install more renewable energy systems, leading to more renewable energy produced in buildings.

Partners

BRE (UK) , CSTB - Centre scientifique et Technique du Bâtiment (FR) , House of Training - HoT (LU) , Centre de référence européen sur l'énergie solaire et le bâtiment - INES (FR) , Metropolia - University of Applied Sciences (FI) , VTT (FI) , Cardiff University (UK)

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