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Towards a learning building sector by setting up a large-scale and flexible qualification methodology integrating technical, cross-craft and BIM related skills and competences.

www.bimplement-project.eu

WHY?

"BIMplement aims to achieve an improved quality for nZEB construction and renovation"

BIMplement is a 30 month-long EU funded project which started in September 2017. The overall objective is to achieve an **improved quality for nearly Zero Energy Building (nZEB)** construction and renovation by using **BIM as a medium**. BIM, as a powerful tool much more efficient than just 2D plans, will be used to facilitate and optimize nZEB implementation.

nZEB construction and renovation need an enhanced systematic approach for the quality control of the entire process. This is the first prerequisite to reduce the gap between designed (predicted) and actual performances of buildings, both in terms of energy efficiency and indoor environmental quality. The most important part of this enhanced quality control approach is a fully and equipped workforce, capable to implement, execute and perform all the necessary labor actions with a full understanding of the responsibility of their own profession and actions, as well as the relation with the other involved professions and actions within the value chain.

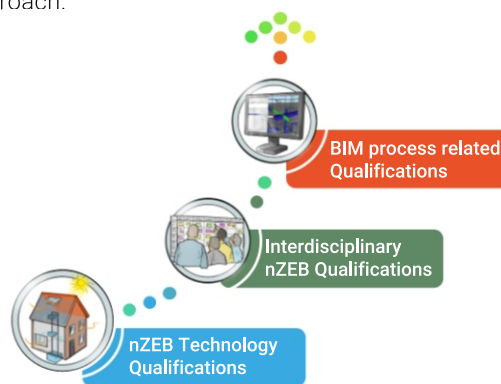


BIMplement in a nutshell

HOW?

"by setting up large scale training, Continuous Professional Development and BIM-enhanced qualification schemes, strengthened with hands-on and BIM-enhanced workplace learning tools"

BIMplement will develop a methodology on how to identify the different professions and levels for the specific crucial topics for nZEB, establishing a easy-to-use link between nZEB skills, BIM skills and the BIM model. The team will link available methodologies of mapping of skills, training and qualifications schemes to the different professions involved in the different phases of the construction process. This includes the definition of **BIM skills** that need to be achieved by all professionals to ensure an improved quality for nZEB. Trainers and trainees will be offered a range of tools for creating **a fully qualified and equipped workforce**. The BIMplement concept includes setting-up **large scale training, Continuous Professional Development** and **BIM-enhanced qualification schemes**, addressing all process phases in a **cross-trade** and **cross-level** multidisciplinary approach.



Qualification Framework Methodology

BIMplement will combine the upskilling in using BIM with the upskilling on nZEB related topics. For this purpose, BIM model will be used as a medium to bear and offer nZEB technologies' related data, as well as information about the skills needed for the implementation of these technologies.

WHAT?

"testing the methodology by addressing selected nZEB related topics: ventilation and airtightness"

NZEB requires a systematic, integrated approach that covers a large range of topics, technologies, concepts and products. BIMplement will focus on applying the methodology to two of those topics, **building ventilation and airtightness**, to show how the method can be used for the implementation of the Continuous Professional Development and qualification schemes.

WHERE?

"the methodology will be tested in BIM-learning centres and implemented in experimental building sites"

BIMplement experimentation will take place in each country (France, Spain, The Netherlands, Lithuania and Poland) **involving 50 construction or renovation projects** that will be used to test the value of BIMplement methodology and BIM-enhanced tools. The aim of this pilots is to provide both professionals (white collars) and craftsmen (blue collars) **Just-in-Time & Just-in-Place** with the necessary **knowledge and skills**, thanks to a real implementation in construction or renovation building sites.

Each country will also carry out BIM awareness campaigns addressed to:

- Public procurers to raise their awareness about the need to include requirements for quality and BIM processes in their call for tenders.
- The craftsmen and SME's to convince them to build up their skills.