



BIMcert News

#01 June 2018

How will BIM enable the construction industry to achieve sustainable energy and efficient nearly zero energy buildings?

This edition...

In the first edition of BIMcert News

- Find out about what is the Project
- Ours goals and work going forward
- Highlights of our Project launch
- Information about upcoming workshops that you can participate in

Project Objective

BIMcert is a European wide project, funded by The European Union's Horizon 2020 research and innovation programme, aimed at providing a training and qualification scheme for the skills required to support the implementation of BIM across the construction supply chain.

The Construction Industry, including its supply chain, is a significant contributor to the European economy. However, the Built environment is recognised as one of the largest consumers of natural resources, producers of carbon emissions and source of energy wastage. To improve the sustainability of the Built Environment and energy efficiency, a more coordinated approach to enhance collaboration is required across the industry. Building Information

Modelling (BIM) provides a collaborative design, build and manage processes that offers the opportunity for improved efficiencies for the Construction Industry in energy, materials and time. BIM can reduce waste, inefficiencies in the supply chain, improve coordination and management, while incorporating better, more suitable and more sustainable design choices and decision making.

This project will:

Embedded Energy

- Enable collaborative working to improve design, development and delivery of both new build and renovation construction projections, whilst supporting energy efficient near zero buildings

Operational Energy

- Achieve efficient and effective ongoing management of the building in terms of energy and fabric

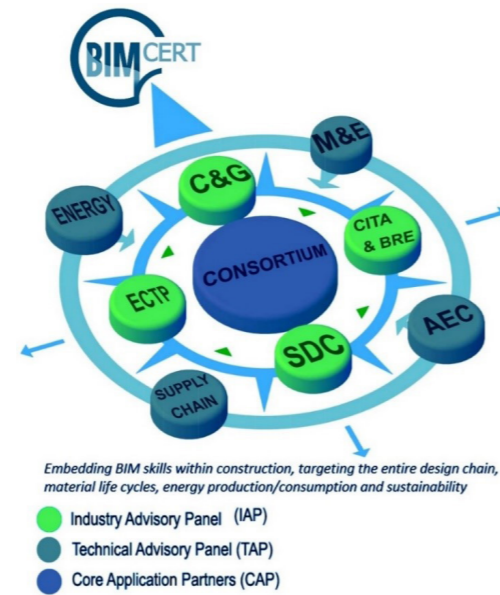
Sustainable Energy

- Utilise Building Information Modelling (BIM), and virtual construction as the enabling methodology and tool to achieve sustainable energy efficient construction



BIMcert Compass

Recognising the stakeholders and the key driving force in the BIM implementation, the BIMcert project will utilise the innovative **BIMcert Strategy Compass**. Information and advice will be collated from the target groups and key industry, technical and academic partners to develop training tools, utilising innovative delivery methods. This informed strategic direction aims to ensure successful delivery of the project's objectives for all stakeholders. Our consortium core partners represent a mix of industry and academia, with expertise in providing BIM solutions, skills and training across the Construction Industry and supply chain.



Project Aims

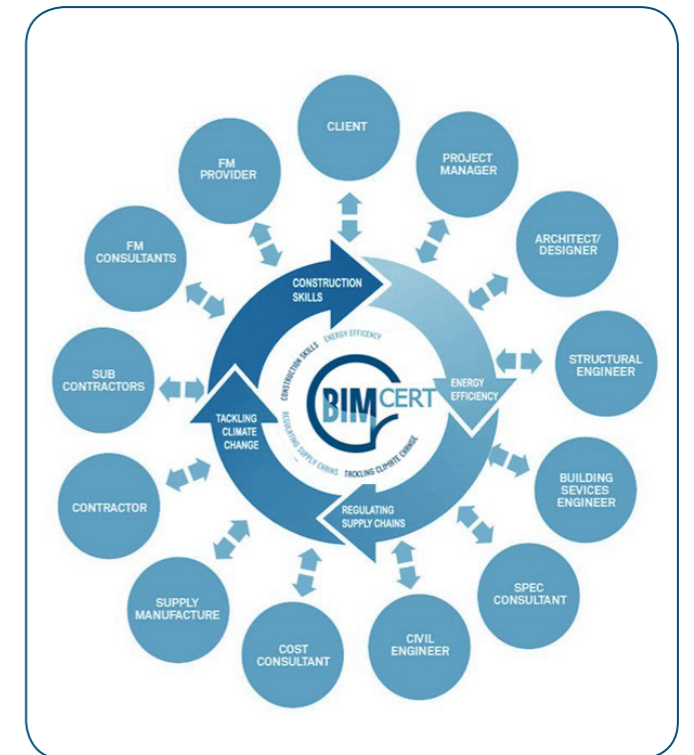
There are seven main aims for this project:

1. To improve the sustainability of the Built Environment by training its workforce in more efficient ways of designing and constructing through the use of BIM processes, better materials, products, and energy sources. This will seek to integrate concepts of sustainability in the practical application and integration with technology (BIM) based on real life industry needs and limitations.
2. To improve access for new workers entering or existing workers within the Construction Industry to the necessary skills for the technology (BIM). This will improve job mobility, upskilling and employability for all levels of the Construction Sector.
3. To improve access for the Construction Industry to training and qualified staff for design, manufacture and maintenance. This will be achieved through the development of an efficient, standardised and sustainable blended training programme, based on international best practice, policies and mandates.
4. To provide opportunities for efficiencies across the entire supply chain.
5. Integrate skills within companies and professionals and to better collaboration platforms.
6. To develop a pan-European framework for recognition and accreditation of BIMcert's "bite-sized" learning modules, which constitute what we call "micro-accreditation" of knowledge and which recognise and certify existing and new skills. Sets of these Micro accredited learning modules will combine to build towards fully standardised skills recognition while aiming to link within existing national and European initiatives and frameworks of accredited courses and awards
7. Improve the building environment by training all involved in better and greener ways of designing and constructing the build environment

Our Target groups

Our Target groups include all that have key roles in current building processes, namely: Professionals (Engineers/Architects/QSs), Technicians and Site workers (Installers/Maintainers), Supplier and manufacturers. BIMcert will identify the current and required level of BIM competences and skills required for each target group to enable a more efficient collaboration to enable an improved energy performance towards near zero building.

Just as BIM maps to the full building and constructed asset lifecycle, the BIMcert consortium spans the full construction sector, as demonstrated in the project's cohesive use of the Industrial Advisory Panel and Technical Advisory panel. The BIMcert consortium is highly connected to industry and to academic, and the network of partners, advisory partners, and technical advisors will ensure that during the project and after its completion the training method and accreditation system will have a significant positive impact upon the achievement of the EU's goals for sustainability in the built environment through the upskilling of construction workers across all levels within the sector.



Partner Meetings *Meet and engage with us!*

<p>19-20 June 2018.....Croatia</p> <p>October 2018.....Ireland</p>	<p>February 2019.....Macedonia</p> <p>July 2019.....Portugal</p>
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BIMcert Workshops *Learn – Share – Improve*

<p>May 10th 2018.....Croatia Talk: BIM to energy efficiency – energy refurbishment</p> <p>May 15th 2018.....Croatia BIMCERT workshop at EIHP</p>	<p>May 2nd 2018.....Dublin</p> <p>May 2018.....Portugal</p>
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BIMcert Team

<p>Project Management and Coordination</p> <p>Belfast Metropolitan College</p> <ul style="list-style-type: none"> • Anne Artt • Paul McCormack • Peter Smyth <p style="text-align: center; background-color: white; color: #00728f; padding: 2px;">WP 1</p>	<p>State of the Art Assessment</p> <p>Construction Industry Training Board Northern Ireland</p> <ul style="list-style-type: none"> • Barry Nielson • Gayle Becket <p style="text-align: center; background-color: white; color: #00728f; padding: 2px;">WP 2</p>	<p>BIMcert platform development</p> <p>Instituto Superior Tecnico - Universidade de Lisboa</p> <ul style="list-style-type: none"> • Antonio Costa Aguiar • Paulo Carreira <p style="text-align: center; background-color: white; color: #00728f; padding: 2px;">WP 3</p>	<p>Development of Concepts and Methodologies</p> <p>Dublin Institute of Technology</p> <ul style="list-style-type: none"> • Avril Behan • Barry Mcauley <p style="text-align: center; background-color: white; color: #00728f; padding: 2px;">WP 4</p>
<p>Development Training Models & Tools</p> <p>Institute for Research in Environment, Civil Engineering and Energy</p> <ul style="list-style-type: none"> • Angelina Taneva-Veshoska • Dijana Likar <p style="text-align: center; background-color: white; color: #00728f; padding: 2px;">WP 5</p>	<p>Trial, Review and Testing</p> <p>Future Analytics Consulting Ltd Dublin</p> <ul style="list-style-type: none"> • William Hayes • Sheryl Lynch <p style="text-align: center; background-color: white; color: #00728f; padding: 2px;">WP 6</p>	<p>Accreditation</p> <p>Belfast Metropolitan College</p> <ul style="list-style-type: none"> • Andrew Hamilton • Eduardo Rebelo <p style="text-align: center; background-color: white; color: #00728f; padding: 2px;">WP 7</p>	<p>Exploitation</p> <p>Energy Institute Hrvoje Požar</p> <ul style="list-style-type: none"> • Leila Luttenberger • Toni Borković <p style="text-align: center; background-color: white; color: #00728f; padding: 2px;">WP 8</p>

BIMcert Launch

The BIMcert project was officially launched by leading EU BIM Expert, Dr James Harty, on 6th March 2018 at Belfast Metropolitan College.

Leading EU BIM expert, Dr James Harty, from the Copenhagen School of Design & Technology, was the Keynote Speaker at the launch of Belfast Met's BIMcert project; a project which has positioned Belfast Met as the first Further Education College in the UK to lead a Horizon 2020 project. Speaking at the launch, Dr Harty said: "Disrupt or die, BIM changes everything. Increasingly, reputations will be based on performance. If you cannot measure it, you cannot deal with it. This means calibrating and monitoring performance through a building's life cycle, using transparent technologies like Blockchain. Poor performance, no reward."

The BIMcert project will develop a blended, fully supported suite of Building Information Modelling tools, which will allow geographically dispersed construction project teams to use

technology to enhance information exchange and collaboration. The project will have a particular focus on testing the BIM approaches to green and passive building design to contribute to the improvement of energy efficiency.

Amandine De Coster - Lacourt, Project Adviser with the Executive Agency for Small and Medium-sized Enterprises (EASME) stated:

"Europe needs the qualified workforce and building professionals to make Near-Zero Energy Buildings and retrofit opportunities a reality. The BUILD UP Skills initiative has been contributing to this objective

since 2011 with more than 50 projects having delivered concrete training and qualification solutions. We continue to actively support this type of activities under Horizon 2020 and it is positive that projects such as BIMcert are now placing Building Information Modelling at the center of the training agenda'.



Director of Development Belfast Metropolitan College Damian Duffy stated 'BIMcert represents a disruptive approach to traditional training delivery that seeks to unlock the preformed barriers that prevent access to vocational education and will result in greater numbers of vocationally excluded people accessing new skills, training and education and securing new levels of skills enhancement and mobility'.

Participate and have your say!

Purpose of the Survey

This survey will be used to collect answers from a wide range of individuals and companies engaged in the design and construction of buildings. This survey will be used to assess:

- The current status of knowledge and skills of BIM and sustainability aspects of Construction Industry,
- Their interest in upskilling to a modern software based approach for more effective construction
- Their favoured model and methods of learning and improving professional and applied skills

Your opinion matters!

Answer the questions and assist in creating an innovative and effective training program for Construction Industry that is relevant to you! Please share the survey with anyone else engaged in the design and construction of buildings.

To participate, use survey link <http://citbni.org.uk/News/BIMCERT-Survey.aspx>

For more information on BIMcert contact:

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