

CONSTRUCTION SKILLS ENERGY EFFICIENCY

REGULATING SUPPLY CHAINS

TACKLING CLIMATE CHANGE

BIM CERT



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BIMcert Conference

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***Reducing the energy footprint
in the built environment***

Speaker Title:

Paul McCormack,
BIMcert Programme
Manager,
Belfast Met

Session Title:

Welcome & Introduction



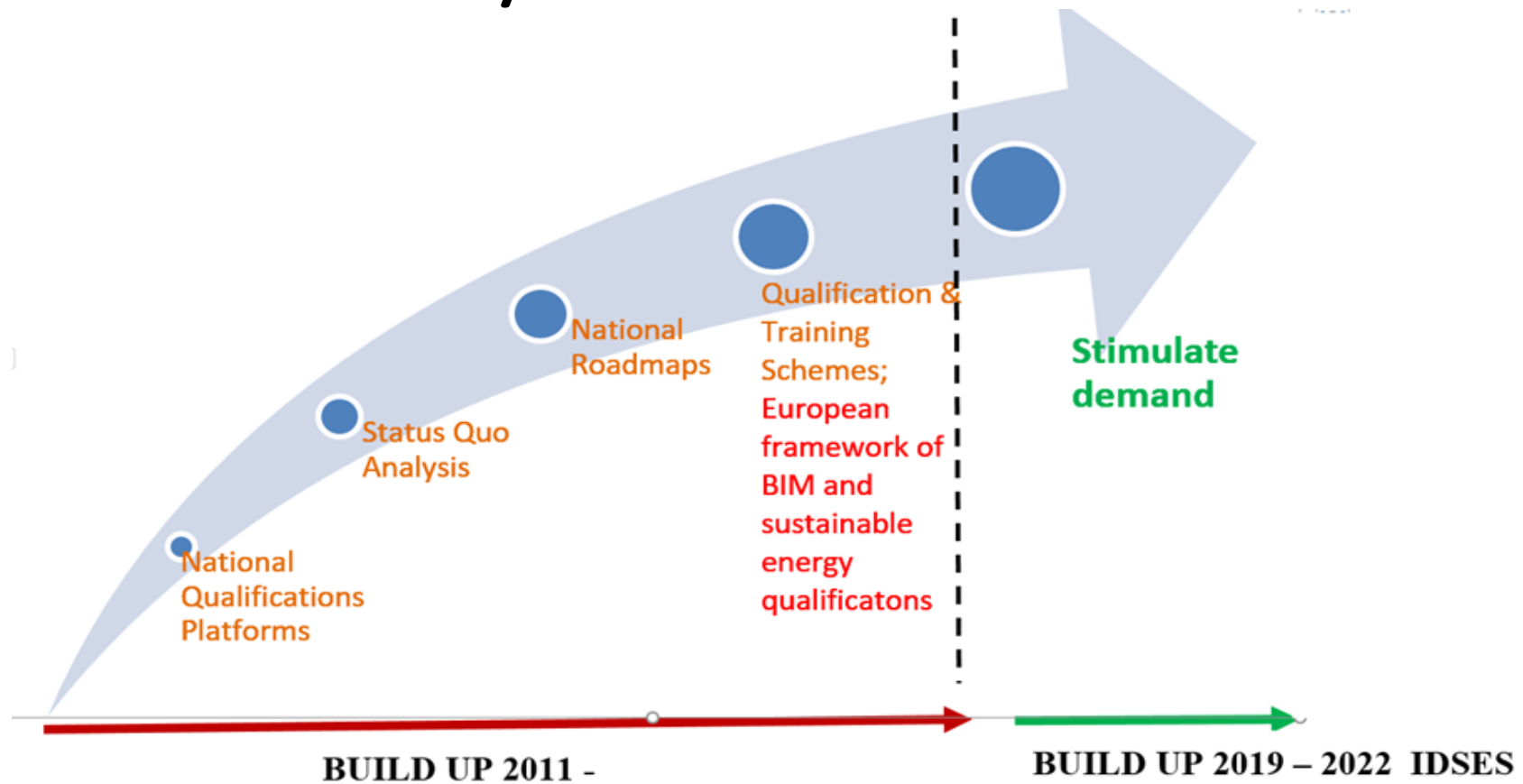
The BIMcert team



BIMcert Journey

- Started March 2015
- Delivered to date
 - 1st FE College to win a H2020 project
 - 1st class BIMcert team
 - 1st beyond blended modules
 - 1st byte sized BIM training
 - 1st BIM academies

BIM Journey





AIMS

BIMcert is a project based upon 3 steps, aimed at providing a large scale training & qualification scheme providing the requisite skills for the entire construction supply chain to:

1. **Enable** collaborative working to improve access to and the transition from design to development and delivery of both new build and renovation to achieve energy efficient near zero buildings (embedded energy)
2. **Achieve** efficient and effective ongoing management of the building in terms of energy and fabric (operational energy)
3. **Utilise** Building Information Modelling (virtual construction) as the enabling methodology and tool (sustainable energy)

Industry informed



- Seven Core Application Partners (CAP),
- Industry Advisory Partnership (IAP) led by O’Hare & McGovern
- Technical Advisory Partnership (TAP) led by Dr James Harty in the Copenhagen School of Design & Technology
- Wider support network encompassing many public bodies and authorities across Europe including Invest NI, Enterprise Ireland and the EASME.

Tackling the Construction Energy question

- Governments, particularly in the EU, are increasing their CO₂ and energy efficiency regulations and raising their targets,
- EU strategies and policies for decarbonization of the construction sector and approaching NZEBs are being established
- Digitalisation goes hand in hand with energy skills
 - provides a great opportunity to reduce the environmental impact of construction projects.
 - Makes energy skills of construction workforce more effective, easier to improve and provides confirmable effects in rational and smart use of materials and energy.

Challenges

Nearly 90% of global business leaders recognize the critical importance of adopting intelligent automation.

70% of construction companies believe that those who do not adopt digital tools will go out of business.

That message is loud and clear.

What is not clear is

1. How to transition to this 'digital workforce.'
2. How to optimize the opportunities presenting themselves
3. How to deploying the digital workforce *at scale*.
4. How do we overcome 'digital dissonance'

Challenges

Most of the issues related to low demand for skilled workforce are due to:

1. lack of a widely recognized and accepted international scheme of certified qualifications for sustainable construction and sustainable energy skills;
2. lack of awareness and uptake by the industry of new methods and digitalisation;
3. lack of mandate or incentive by public authorities for the use of such skills.

The formerly called “brick and mortar” industry has entered the digital age.

What Next?



**Digitalisation - a vital enabler of Net Zero
Construction**

- Alliance of 100 partners across 24 EU countries
- Shared resources
- Digital library of tools, modules and blended materials
- Supporting digital transformation in the built environment.
- Stimulating the demand for sustainable energy skills
- Providing clear upskilling transactions and recognition of upskilling performed

Inspiring the Demand for Sustainable Energy Skills

IDSES

The 5A STAR stimulus approach to increasing demand for sustainable energy skills in the construction sector will be achieved by:

1. Alignment
2. Access
3. Assignment
4. Accreditation
5. Assistance



Centre of Excellence for Digital Construction

- Promote and enhance the use of digital skills in the construction sector
- Share knowledge, best practice, inspire collaboration and showcase new opportunities in digitalisation of construction.
- Support Smart Construction i.e. Offsite Manufacturing, Digital Technologies and High Performance Buildings.
- Establish a Skills Hub which will explore the future of skills in the built environment and the ways in which we can encourage new entrants into the industry.
- Deliver BIM training, accreditation, digital certification of skills and deliver our innovative EU wide BIM Passport
- Become the key to transforming and changing the face of our industry.
- Assist industry to reduce the carbon footprint of the construction sector

The Delegate 'take 3' Challenge

We need to be conscious that sustainable and lean construction is already a reality but we do not have sufficient skilled professionals and workers to make it become a “normal practice”

What 3 key things will you take from today's conference?