



European
Commission

EASME

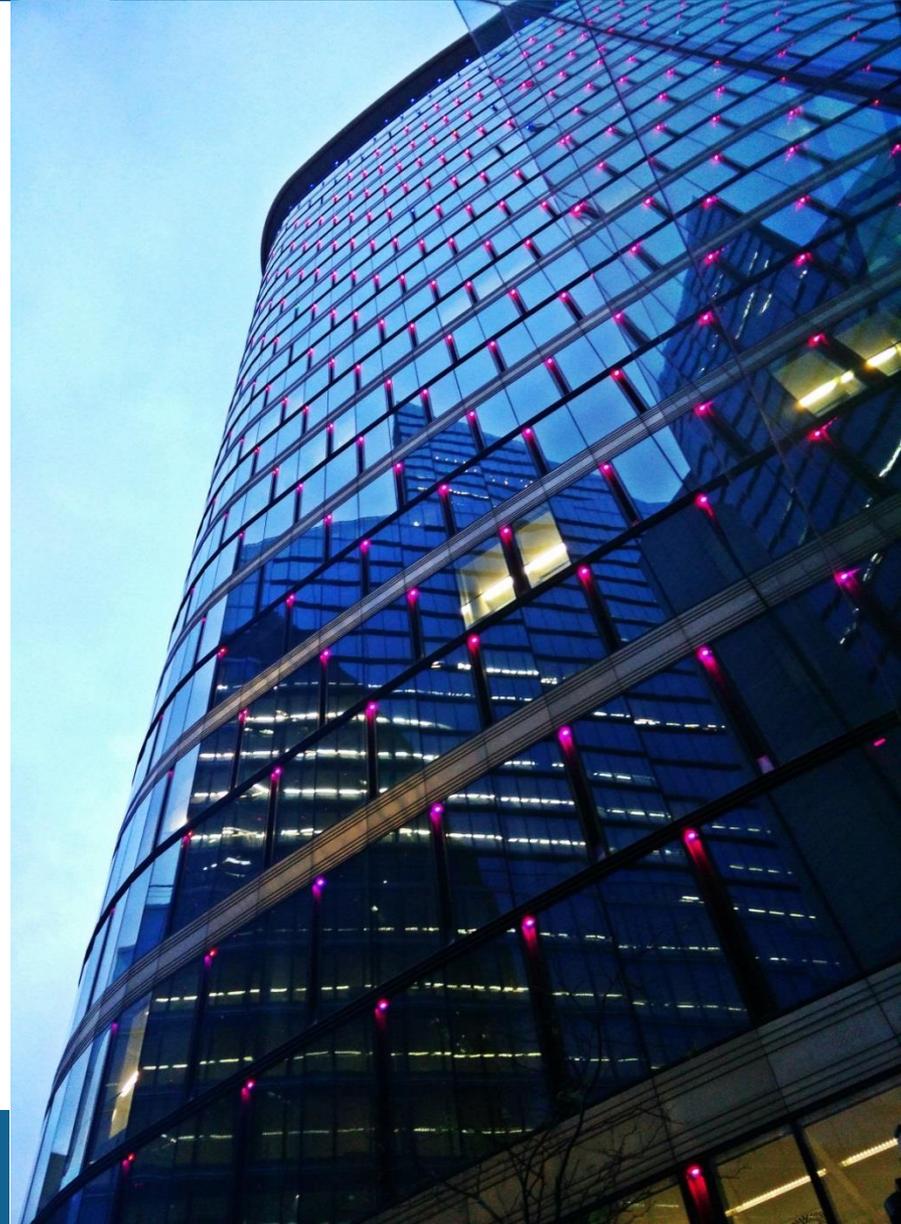
Executive Agency for Small and Medium-sized Enterprises

Horizon 2020 support for skills and processes in the buildings sector

PROF/TRAC Final Conference

Philippe MOSELEY, Project Advisor
Unit B.1 Horizon 2020 Energy

*Executive
Agency
for SMEs*

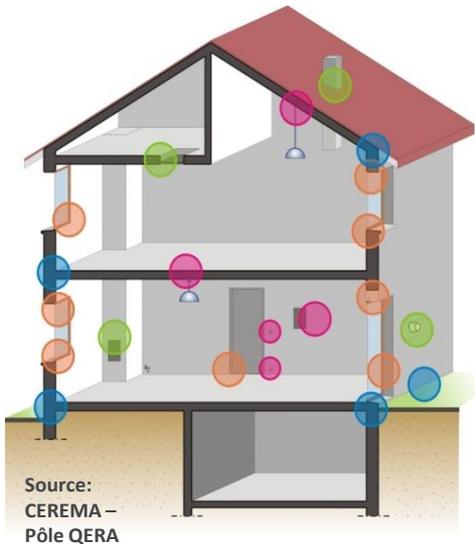






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Energy efficient housing – the skills challenge



Higher standards



Technological change



Collaboration



Cost reduction: A-ZEB

Affordable Zero Energy Buildings

- Develop a methodology for 20% cost reduction of new Nearly Zero Energy Buildings (NZEB)
- Disseminate knowledge, replicate experiences

www.azeb.eu

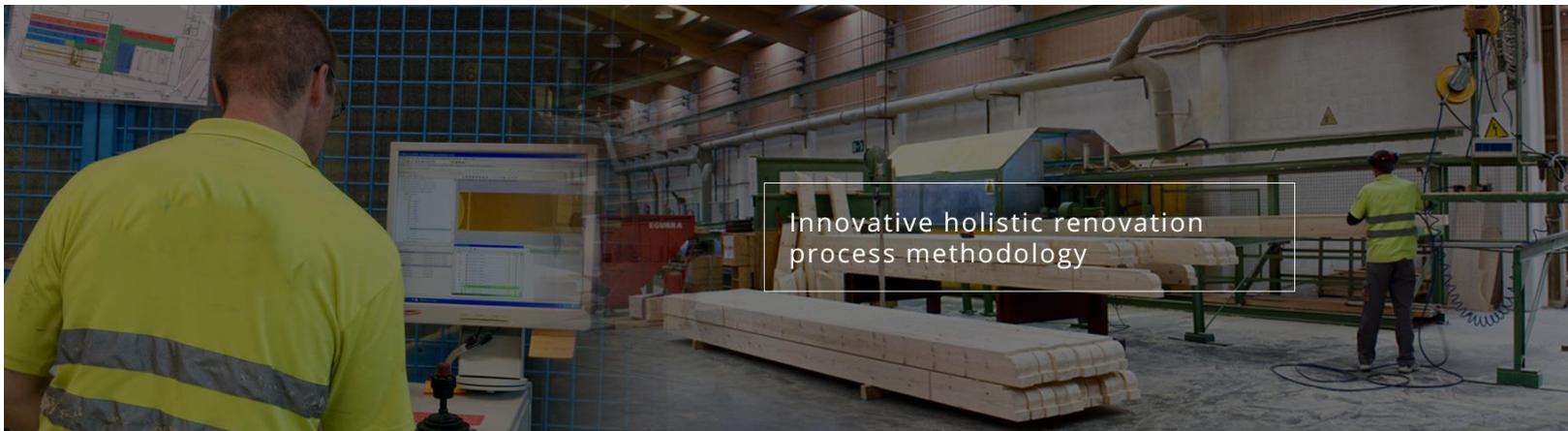


Time savings: BERTIM

Renovation through Timber Prefabrication

- Reduce time for renovation by 30%
- Renovation of housing in Norway & France

www.bertim.eu



Increased Quality: The BUILD UP Skills initiative



Is the workforce ready?



European Commission



- National Qualification Platforms
- Status Quo Analysis
- 30 national Roadmaps

10m EUR 2011-12

- National Qualification & Training programmes in 22 Member States

11.5m EUR 2012-14

- Qualification & training programmes covering one or several countries. 10 projects.

12.3m EUR 2014-16

"Blue collar" workers

Workers and professionals

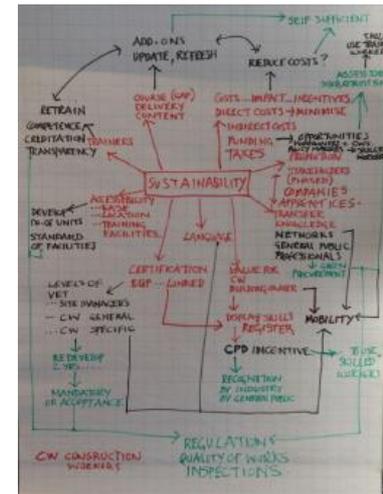
Exchange activities, monitoring and evaluation (EASME)

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BUILD UP Skills EU exchange meetings





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Recent focus on BIM

NET-UBIEP (Network for Using BIM to Increase the Energy Buildings Performance) <http://www.net-ubiep.eu/>

BIMEET (BIM-based EU qualification framework)
http://cordis.europa.eu/project/rcn/210091_en

BIMplement (Qualification methodology integrating cross-craft and BIM related skills)
http://cordis.europa.eu/project/rcn/210066_en



#InvestEUresearch



Horizon 2020 Work Programme for Research & Innovation 2018-2020

Activities of Societal Challenge 3:
"Secure, clean and efficient
energy"

Research and
Innovation

Energy Efficiency



Buildings
21 M€ (2018)
26 M€ (2019)



Consumers
& Services



Industry



Financing
Energy
Efficiency



Public
Authorities
& Policy Support



Digitisation

Innovation
Actions

- EE1** – Innovative approaches for building renovation (2018, 2019)
- EE4** – Upgrading smartness of existing buildings through innovations for legacy equipment (2019)
- EE5** – Next generation of energy performance certification (2019)



Coordination
& Support
Actions

- EE2** – Integrated home renovation services (2018, 2019)
- EE3** – Stimulating demand for sustainable energy skills in the construction sector (2019)
- EE5** – Next generation of energy performance certification (2018)

Energy Efficiency

EE-3-2019: Stimulating demand for sustainable energy skills in the construction sector (CSA)

Specific Challenge

- Increase number of **skilled building professionals and/or blue collar workers**

Scope

- Stimulate demand for **energy skills in construction** e.g.:
 - **Mutual recognition** of qualifications
 - **Raise awareness**
 - Develop **new legislative frameworks**
 - **Partnerships** with producers and retailers of construction products
 - **Reinforce link** between skills and quality

Expected impact

- Primary Energy savings; increased renewables production resulting from improved skills; investments in sustainable energy; increased number of certification schemes for energy efficiency skills; improved mutual recognition of sustainable energy skills; improved collaboration and understanding across different trades and professional groups; legislative changes; reduction in the gap between designed and actual energy performance through improved quality of construction.

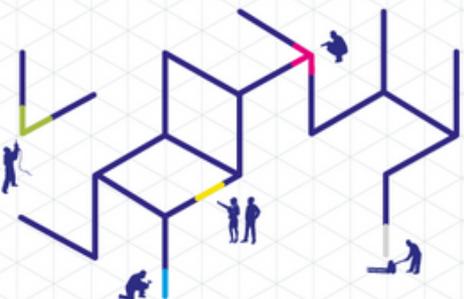


Skills

Build Up Home / BUILD UP Skills initiative

- About BUILD UP Skills
- EU Exchange Meetings
- National Pages
- Technical Working Groups

www.buildup.eu/skills



BUILD UP Skills

See how your country is educating their construction workers and consult our projects

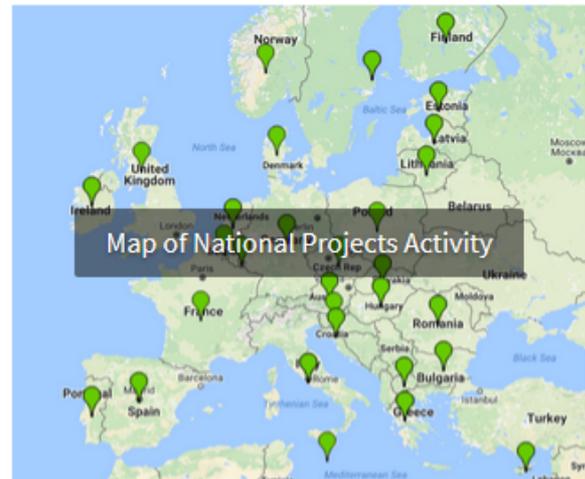
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10th BUILD UP Skills EU exchange meeting was in Rotterdam on 30-31 May. [Click here to have a look at the report to participants as well as the 2-day meeting presentations.](#)

NEWS

BUILD UP Skills Videos | What is BUILD UP Skills?

Energy efficient buildings will play a key role in helping Europe meet its ambitious climate and energy targets. However, installing the technologies needed to make Europe's building stock greener requires a



EVENTS

★ The BUILD UP Skills Initiative - Training the European building professionals towards energy efficiency and sustainability

 23 Nov 2017



clear all

Project Type

- Coordination & Support (CSA)
- Innovation (IA)
- Research & Innovation (RIA)

Participant type

- Coordinators
- Partners

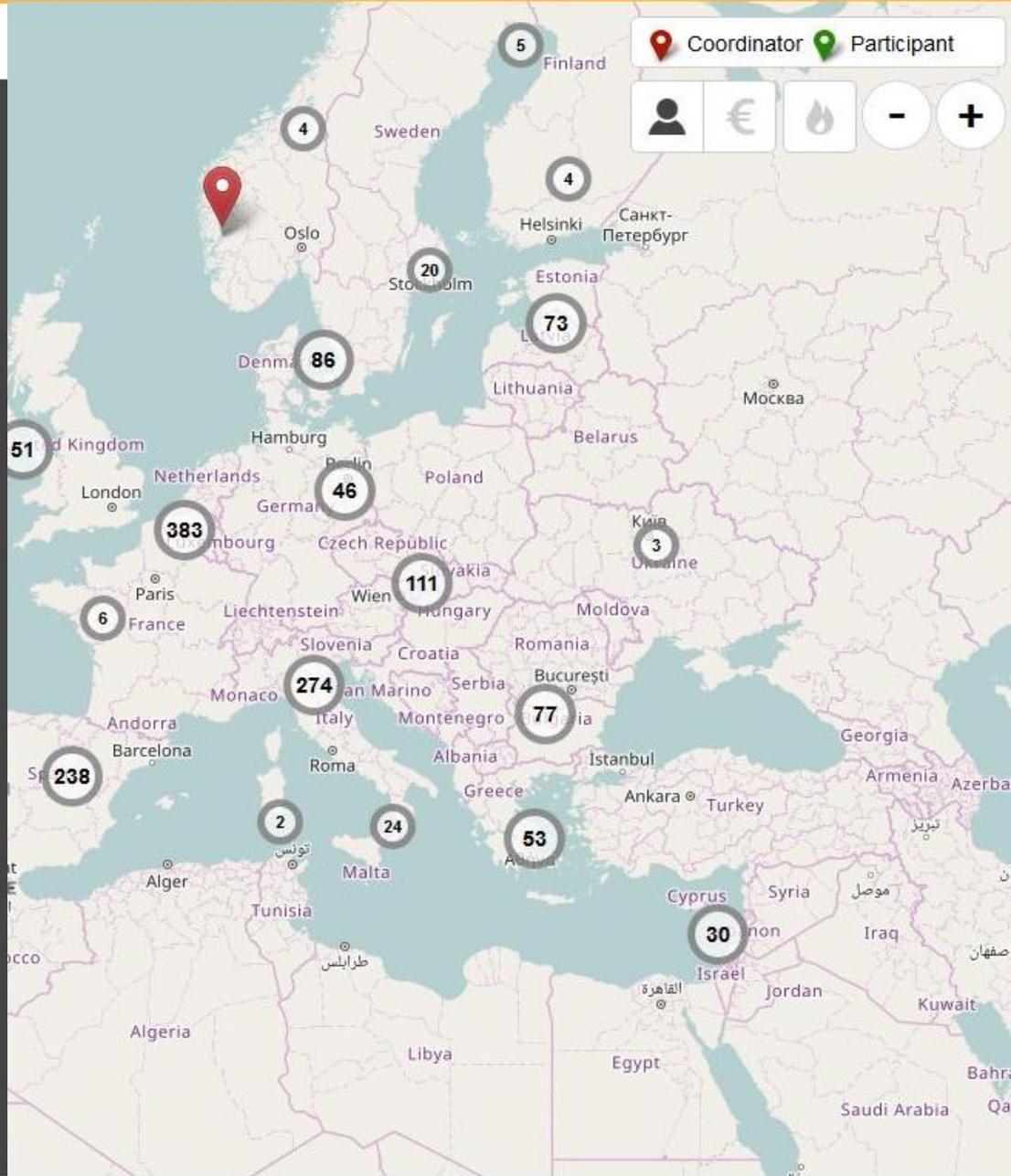
Countries & Regions



Topics

- Buildings
- Consumers
- Heating & Cooling

Search & Filter



Coordinator
 Participant

Search & Filter

4RinEU	Robust and Reliable technology concepts and business models for triggering deep Renovation of Residential buildings in EU	Beneficiaries	Projects	↓
A-ZEB	Affordable zero energy buildings			
ABRACADABRA	Assistant Buildings' addition to Retrofit, Adopt, Cure And Develop the Actual Buildings up to zeRo energy, Activating a market for deep renovation			
BERTIM	Building energy renovation through timber prefabricated modules			
BIMEET	BIM-based EU -wide Standardized Qualification Framework for achieving Energy Efficiency Training			
BIMplement	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			
BRISKEE	Behavioural Response to Investment Risks in Energy Efficiency			
BUStoB	BUILD UP Skills to Business			
CAIV_EPBD	Concerted Action EPBD IV			
CHESS-SETUP	Combined HEat SyStem by using Solar Energy and heaT pUmPs			
COMBI	Calculating and Operationalising the Multiple Benefits of Energy Efficiency Improvements in Europe			
CRAVEzero	Cost Reduction and market Acceleration for Viable nearly zero-Energy buildings			
CoNZEBs	Solution sets for the Cost reduction of new Nearly Zero-Energy Buildings - CoNZEBs			
DR-BOB	Demand Response in Block of Buildings			
ENERFUND	An ENERgy Retrofit FUNDing rating tool			
EUFORIE	European Futures for Energy Efficiency			
Fit-to-nZEB	Innovative training schemes for retrofitting to nZEB-levels			
HERON	Forward-looking socio-economic research on Energy Efficiency in EU countries.			
IMPRESS	New Easy to Install and Manufacture PRE-Fabricated Modules Supported by a BIM based Integrated Design ProceSS			
IN-BEE	Assessing the intangibles: the socioeconomic benefits of improving energy efficiency			
InDeWaG	Industrial Development of Water Flow Glazing Systems			

<https://energy.easme-web.eu/>



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**THANK YOU
FOR YOUR ATTENTION**

Philippe MOSELEY
Unit B.1 Horizon 2020 Energy

<https://ec.europa.eu/easme/en/energy>

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