The BUILD UP Skills initiative and its links with the energy efficiency policy

EPBD Concerted Action public stakeholder workshop
24 October 2017, Bucharest, Romania

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EASME's role within the European Commission

- Manage EU programmes
- Feed project outcomes into EU policymaking
Construction Skills – the challenges

Climate change
- Reduced energy consumption
- Renewables

Higher standards
- Energy efficiency
- Air tightness

Technological change
- BIM, IoT and connected grids
- Prefabrication, 3D printing

Fragmented industry
- SME's
- Separated disciplines
Starting point

- National Status Quo Analysis 2011-2013:
  - Slight shortage of building workers by 2020 in most European countries
  - The need for training of the current workforce is much stronger than the estimated need for additional workers
  - More than 3 million workers would require up-skilling on energy efficiency or renewable energy sources by 2020
  - Importance of transferable and cross-trade knowledge and skills
2011-2014
Start of BUILD UP Skills (Intelligent Energy Europe)
Focus on blue collar workers

Horizon 2020 Call 2014
Scope widened to white collar professionals

Horizon 2020 Calls 2016, 2017
Supporting the digitalization of the construction sector

Work Programme 2018-2020
Increasing the demand for sustainable energy skills
National Qualification Platforms
- Status Quo Analysis
- 30 national Roadmaps

National Qualification & Training programmes in 22 Member States

Large-scale qualification and training programmes covering one or several Member States

"Blue collar" professions

"White collar" professions

European exchange activities (EASME)
IEE call for proposals 2011, 2012
30 finalised national projects
EU contribution: 10M€

IEE call for proposals 2012, 2013, 2014
22 finalised national projects
EU contribution: 11,5 M€

Horizon 2020 call for proposals 2014, 2016
10 on-going national or multi-country projects
EU contribution: 12,3M€

Monitoring & evaluation (EASME)
BUILD UP Skills EU exchange meetings

• **10 meetings** since 2011

• Gathering partners of BUILD UP Skills projects

• Exchanging on common **challenges**

• Sharing **best practices**

• **4 Working Groups**
  - Finance
  - Mutual recognition
  - Innovative training
  - Market acceptance

Results available on **BUILD UP**
Highlights from BUILD UP Skills projects

- Innovation in training
- Adressing the time and availability constraint
- Training of trainers
- Fostering cross-craft understanding
- Increasing skills recognition and market acceptance
- Adressing technology challenges (e.g. NZEB, BIM)
Innovation in training
### BEEP (Finland)
*October 2013 – March 2016*

- **Instruction cards** for self-learning
- **Training Ambassador**

### Construye2020 (Spain)
*October 2013 – October 2016*

- **App for mobile devices** showing good practices
Addressing the time and availability constraints
E-learning platform: six interactive modules that can be completed within 4 hours
Training of trainers
EnerPro (BG)  
*September 2014 – March 2017*

- Online train--the--trainer **platform** developed by Passive House Institute
- 5--day training in Ireland for BG trainers  → **116 trainers trained**
Fostering cross-craft understanding
CrossCraft (AT)
November 2013 – July 2016

Basic CrossCraft module, on-site (3-4h):
Frequently made mistakes, blower door test

Increasing skills recognition & market acceptance
QUALIBUILD (Ireland)
November 2011– August 2016

- The Irish Construction Worker Skills Register

TRAINBUD (Hungary)
September 2014 – August 2017

- Quality Label, certification, workers database
Adressing technology challenges (e.g. NZEB, BIM)
MEnS (IT, UK, EL, CY, RO, IE, DK, BE, FYROM, DE, ES)

*Ongoing under Horizon 2020*

- New education and training program for NZEB professionals in 11 countries at EQF level 7
- Focus on **women/unemployed**
BIM-enhanced qualification scheme

- Large scale training for blue/white collars, with focus on ventilation systems and airtightness

- Pilots in 50 buildings

BIM Qualification Models integrated with energy competences

- Public Administrations, Professionals, Technicians and Tenants

Standardization through CEN / ISO

BIM & energy efficiency skills matrix compatible with EQF standard

Training platform

Accreditation scheme

Net-UBIEP (IT, ES, NL, EE, HR, SK, LT) – H2020

BIMEET (LU, UK, EL, FI, FR) – H2020

BIMplement (FR, NL, LT, ES, PL) – H2020
Work Programme 2018-2020

- 09/10/2017: Pre-publication on the Participant Portal
- 27/10/2017: Publication on the Participant Portal
- **Topic**: LC-SC3-EE-3-2019-2020: Stimulating demand for sustainable energy skills in the construction sector
- **Challenge**: act at market level and support legislative changes that will stimulate the demand for energy skills
- **Scope**:
  - Tools facilitating the mutual recognition of energy skills and qualifications
  - Initiatives raising awareness of home and building owners/tenants
  - Support to public authorities for the development of new legislative frameworks
  - Partnerships with producers and retailers
  - Initiatives reinforcing the link between skills/education and energy performance/quality of construction
- **EU contribution**: between EUR 0.5 and 1 million
- **Opening**: 24/1/2019  **Closing**: 3/9/2019
Links with on-going policy initiatives

• 2016 World Economic Forum report “Shaping the Future of Construction: A Breakthrough in Mindset and Technology” identifies BUILD UP Skills as a best practice.

• The EU Strategy on Heating & Cooling (February 2016) recommends to extend the work of BUILD UP Skills to other construction professionals.

• The Clean Energy for All Europeans Package stresses the need to upskill the building workforce (COM(2016)860 Accelerating clean energy in buildings).

• European Construction Observatory Analytical Report - Improving the human capital basis (June 2017):

"Energy efficiency initiatives are greatly supported by the EU co-funded BUILD UP Skills programme, which is present in all EU Member States, and is often the only action taken by Member States, particularly in Central and Eastern Europe as well as in Southern Europe"
Upcoming events

- **23, 24, 25 October, Brussels:** H2020 Energy Info Days
  [https://h2020-energy-info-days.b2match.io/](https://h2020-energy-info-days.b2match.io/)

- **23 November, Brussels:** European Vocational Skills Week → BUILD UP Skills stakeholder event

- **Q1 2018:** outcome of evaluation of BUILD UP Skills 'pillar II'' projects

- **2018-2020:** further *exchange meetings on energy efficiency skills*
BUILD UP – the EU portal for energy efficiency in buildings - www.buildup.eu
The EASME Energy Efficiency Data Hub

THANK YOU FOR YOUR ATTENTION

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