THE BUILDING KNOWLEDGE HUBS

The Building Knowledge Hubs: Stimulating demand for skilled workers in the building sector

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1) **The Build Up Skills Legacy**

2) **The NZEB Roadshow: Demo Units, Gamification and Roadshows**

3) **Communication Channels**
The BUILD UP Skills initiative

1. The BUILD UP Skills legacy
2. The NZEB Roadshow
3. Communication channels

- Pillar I started in 2011 under Intelligent Energy Europe Programme
- Similar projects in 30 EU + associated countries
- Resulting in National roadmaps for improving the skills in the construction sector
- Pillar II started in 2013-2014 focusing on training programmes on EE & RES in buildings
- Last projects being finalized now
- Continued in H2020 Construction Skills
The BUILD UP Skills legacy

Train-to-nZEB: the Building Knowledge Hubs

- Improving the training facilities: new BKHs in Bulgaria, Romania, Czech Republic, Turkey and Ukraine
- ToRs for equipment and services,
- Business plans
- Innovative training programmes
- Qualified and attractive trainers
- Trainings for 2400 construction workers, 480 designers and 720 non-specialists
The BUILD UP Skills legacy

Fit-to-nZEB: Retrofitting to NZEB-levels

- Review of existing training programmes and gaps in national VET systems
- Set of learning outcomes on 17 topics
- Model training programmes on deep energy retrofit for all qualification levels (under EQF)
- Training materials on all topics
- New training facilities in Italy, Greece and Croatia
- Pilot training courses

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The BUILD UP Skills legacy

Major achievements

- Master’s programme “Energy Efficiency in Construction” in the University of Architecture, Civil Engineering and Geodesy (UACEG)
- Discipline “Project management of energy efficient building renovation” in the program of the Civil Engineering Faculty at UACEG
- Change of State Educational Standards for professions in “Construction” and “Electrical Engineering and Energy Sector” professional directions
The BUILD UP Skills legacy

New training programmes and materials

- Two dedicated training aids, developed in cooperation with the Pazardzhik Professional High Schools under the auspices of the Ministry of Education and Science:
  - Ecological and energy efficient construction
  - Airtightness and mechanical ventilation with heat recovery in the buildings
The BUILD UP Skills legacy

Training courses for specialists, trainers and students

- Training course on high-quality windows installation with the participation of engaged market actors
- Training course for teachers in professional high schools of architecture and civil engineering from the whole countries
- Pilot courses planned in the high schools or via the CraftEdu database
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**NZEB ROADSHOW**

Key concept: nZEB days

- Streamlined marketing and stakeholder engagement strategies
- Rigorous application of a monitoring and evaluation scheme
- Document and develop case studies of the national cases
- Deliver a monitoring report with recommendations for replication of the campaigns
NZEB ROADSHOW

Toolbox: mobile demo units

- Design and build mobile housing units aiming at training visitors about: energy efficiency, materials and comfort;
- Offer visitors the possibility to directly experience the high internal comfort;
- Demonstrate real-time energy efficiency performances.
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NZEB ROADSHOW

Toolbox: gamification (1)
NZEB ROADSHOW

Toolbox: gamification (2)

- Final stop – Grand Finale

Mockups based on safe materials to give the opportunity to children to play with. Creation of the 2/3 of a small mockup, giving the children the chance to finish it by using the materials properly
NZEB ROADSHOW

Main results: MUZA project, Croatia

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NZEBS ROADSHOW

Main results: nZEB days in Greece

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Main results: nZEB days in Greece

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Main results: nZEB days in Croatia

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Main results: nZEB days in Croatia
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Main results: nZEB days in Romania

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Main results: nZEB days in Romania

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Main results: nZEB days in Italy

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Main results: nZEB days in Bulgaria

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Main results: nZEB days in Bulgaria

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Main results: nZEB days in Bulgaria

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Main results: nZEB days in Bulgaria
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Main results: personal engagement

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Communication and dissemination

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