



REGIONALNA ENERGETSKA AGENCIJA
NORTH-WEST CROATIA
SJEVEROZAPADNE HRVATSKE
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BUILD2LC
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European Union
European Regional
Development Fund

CROSKILLS – Lifelong training plan for building workers

Velimir Šegon

North-West Croatia Regional Energy Agency

vsegon@regea.org

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Jobs and skills for the energy transition

CROSKILLS
ENERGETSKA UČINKOVITOST



Sveučilište u Zagrebu
Građevinski fakultet



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Co-funded by the Intelligent Energy Europe
Programme of the European Union



BUILD UP Skills CROSKILLS II

Build Up Skills CROatia: Strengthening energy efficiency SKILLS and certification schemes for building workers

IEE/13/BWI/722/SI2.680179

Project duration: 36 months

Starting date: 1st September 2014

Total budget: 602.501 EUR



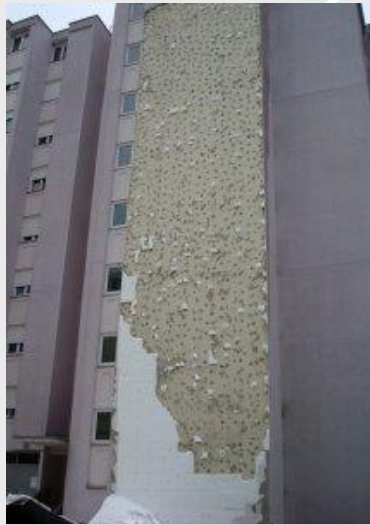
Partners

University of Zagreb, Faculty of Civil Engineering (Fra Andrije Kačića Miošića 26, HR-10000 Zagreb) – <u>PROJECT COORDINATOR</u>	
School of Building and Crafts (Športska 1, HR-40000 Čakovec)	
Croatian Association of Thermal Facade Producers (Vučak 34, HR-10090 Zagreb)	
Regional Environmental Center (Ferde Livadića 35, HR-10000 Zagreb)	
Croatian Chamber of Civil Engineers (Ulica grada Vukovara 271, HR-10000 Zagreb)	
Croatian Employment Service (Zvonimirova 15, HR-10000 Zagreb)	





Project motivation:



Vukovar, 2010, Source: Jutarnji list



Rijeka, February 2015.

- ❑ Lack of qualified building sector workers in energy efficient retrofitting and construction
- ❑ Lack of institutional specialized education schemes
- ❑ Weak market demand for low-energy buildings
- ❑ Lack of national discussion among the relevant stakeholders on the needs and possibilities about building sector workers



Project objectives:



- ❑ **Development and testing of comprehensive training materials and training curricula for 6 priority building professions:**



- *bricklayers,*
- *plasterers,*
- *roofers,*
- *carpenters,*
- *house-painters and*
- *prefabricated construction fitters*



- ❑ **Establishment of 6 training schemes and accreditation of training providers** - systematic approach to life-long learning of the Croatian building workers, regardless of their previous education and skill levels.

- ❑ **Establishment of a national certification scheme for 6 priority professions** - proper market evaluation of the qualified workforce and help to increase demand for skilled workers.



Project results

Selected Training centres and number of trainers in each center

Number	Name of institution / City	Number of trainers
1	Building School Čakovec / Čakovec	5
2	Zagreb college / Zagreb	12
3	Industrial Craft School Karlovac / Karlovac	6
4	Vocational School Sisak / Sisak	5
5	Building Geodesy School Osijek / Osijek	9
6	College Cibalae Vinkovci / Vinkovci	32
7	Open Community College Libar Slavonski Brod / Slavonski Brod	3
8	Open Community College OMEGA Virovitica / Virovitica	6
9	Open Community College Marinković Garešnica / Garešnica	7
10	Industry Craft School Pula / Pula	6
11	High School Bedekovčina / Bedekovčina	11
12	Crafts School Požega / Požega	11

330 workers trained, 53 training courses implemented

High market demand for trained professionals

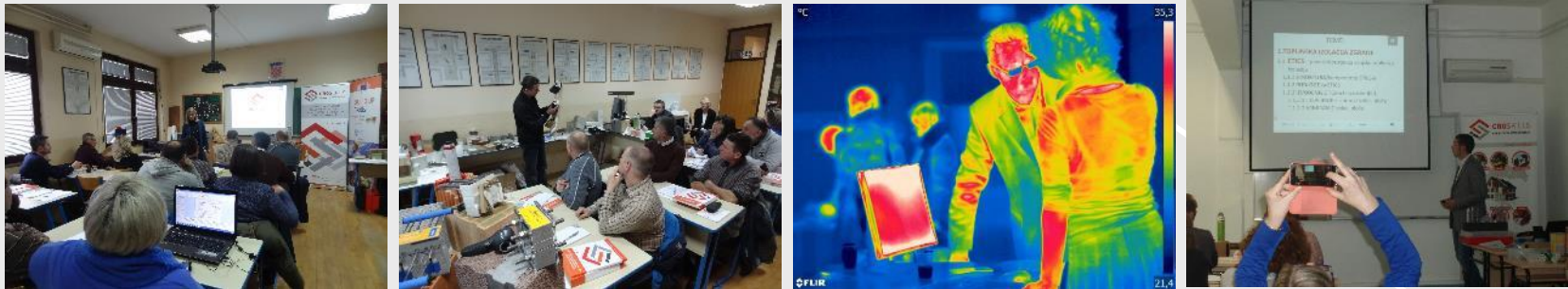
Estimated costs to qualify trainee: 217 eur/trainee

Free for participants within CROSKILLS II project



Project results (2)

Training of trainers has been conducted for all 12 training centers



Conclusions and Recommendations



- ❑ Certification and education system, developed under CROSKILLS project can be further used after the end of the project in other countries
- ❑ Allow the use of certificated workers as a mandatory condition in public calls (for energy efficiency of buildings), specially for calls cofounded by the European Structural Fund
- ❑ Further marketing campaign needs to be done for promoting builders' profession and life-long education & training of workers
- ❑ LLL education of professions like architects, engineers, supervising engineers of construction sites on practical part of construction in the frame of energy efficiency is needed



BIMzeED

education
for zero energy buildings
USING BUILDING INFORMATION MODELLING

BIMzeED is a three-year project funded by the European Union within the Erasmus+ framework. The initiative tries to overcome the challenges faced by the construction sector to achieve energy efficient and nearly zero energy buildings (nZEB), while integrating BIM (Building Information Modelling). The project develops training for HEI and VET.



@bimzeed_eu



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Budget: 955,633.00 €

Start of Project: November 2018

End of Project: October 2021

Call: EAC/A05/2017

Erasmus+, Cooperation and Innovation for Good Practices (KA2) Knowledge Alliances for higher education

BIMzeED project intends to:

- Identify the knowledge and skills gap in digitalization (BIMz) and NZEB within the High Education Institutions and construction sector for each partner country (Ireland, Spain, Hungary and Croatia).
- Improve the human-capital basis of the construction sector acting on HEIs and VET systems in Europe.



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BIMzeED

education for zero energy buildings USING BUILDING INFORMATION MODELLING

- Support the construction industry, through education and training to upskill on technical, innovation and digitalization.

- Transfer knowledge of BIM and NZEB to and from other countries.

- Develop 12-16 Learning Units with the aim of increasing the understanding of BIM/NZEB within the construction training curricula.

- Train and upskill 120 educators at European HEIs and VETs by piloting the new learning resources and training materials, which will be made available as transferrable Learning Units.

- Transfer knowledge to 400-500 construction and architecture students, site managers, craftworkers and other experienced operatives to improve their employability.

- Strengthen links between lecturers, industry and SMEs with innovative technologies and installations creating connected learning communities (viewing case studies, on-site site visits, industry demonstrations).

- Strengthen employability in teaching and SMEs, known as business development cooperation.

The challenge of the BIMzeED project is to overcome skills mismatching and improve employability in the current European construction market by improving and extending the existing skills of educators, SMEs, architects, site managers, craftworkers and other experienced operatives.