

Project

Net-UBIEP

Network for Using BIM to Increase the Energy Performance

➤ **Programme: HORIZON 2020**

- Pillar III : Societal Challenges

- Topic : Secure, Clean and Efficient Energy

➤ **Energy Efficiency Call 2016-2017**

- Chapter 3: Building

- Call: EE – 14 – 2016 – 2017 Construction Skills

- Type of Action: *CSA Coordination and Support Action*

- Deadline: 15 September 2016

- *Contribution from UE: between 500.000 € and 1.000.000,00 €. (The overall budget allocated in the call to this specific topic EE – 14 amount to an average of 4 Millions)*



Call EE-14-1016-2017 Construction Skills

- Specific Challenge

Need to improve skills of middle and senior level professionals and blue collar workers in the area of sustainable energy efficient construction to reach the EU's energy and climate targets;

- Scope

- > Upgrading or setting up large-scale qualification and training schemes;*
- > Increase the number of skilled building professionals and/or blue collar workers;*
- > Improve multidisciplinary approach and understanding across different trades (example, using BIM / Open BIM);*
- > Improve the appreciation of end user's needs including the quality of indoor environment;*
- > Include a strategy to ensure that qualification and training schemes are sustained after the end of the project;*
- > Take note of BUILD UP Skills Initiative - National Qualification Roadmaps) / EQF/ Erasmus + Sector Skills Alliance;*

- Expected Impacts

- ◆ Set up & implementation of sustainable qualification & training schemes*
- ◆ Plans for sustainability and replication;*
- ◆ Increase in the number of skilled building professionals and/or blue collar workers;*
- ◆ Improved collaboration & understanding across trades & professional groups;*
- ◆ Reduction in the gap between designed and actual energy performance through improved quality of construction;*
- ◆ Measurable energy savings and RES production;*
- ◆ Improved market recognition of skills in the building sector.*

Net-Ubiep Project – Network for Using BIM to Increase the Energy Performance”

The building sector is the largest consumer of energy in Europe, accounting for nearly 40% of the total consumption (EPBD 2010/31/EU). Furthermore the 2030 European Energy Strategy [COM(2014)16Final] and Energy Roadmap 2050 [COM(2011) 885 final] sets the focus on the energy efficiency on housing sector where an acceleration in efforts is still strongly required.

For that reason **Net-UBIEP- “Network for using BIM to increase energy performance”** - wants to explore the value of BIM applied in the management of energy performance of buildings. The project is aimed at proposing a BIM Qualification Model to widespread the use of BIM to all actors involved in the building workflow: Public Administrations, Professionals, Technicians and Tenants. The definition of the model will pass through the identification of specific BIM competences required in building sector from actors involved and the elaboration of a three dimensional matrix to identify roles and competences for each target group when implementing BIM. BIM Qualification Model will be validated through stakeholders with training activities and a BIM Qualification and Certification Scheme will be standardized to find a broader acceptance at European level, and among standard organizations (CEN / ISO).



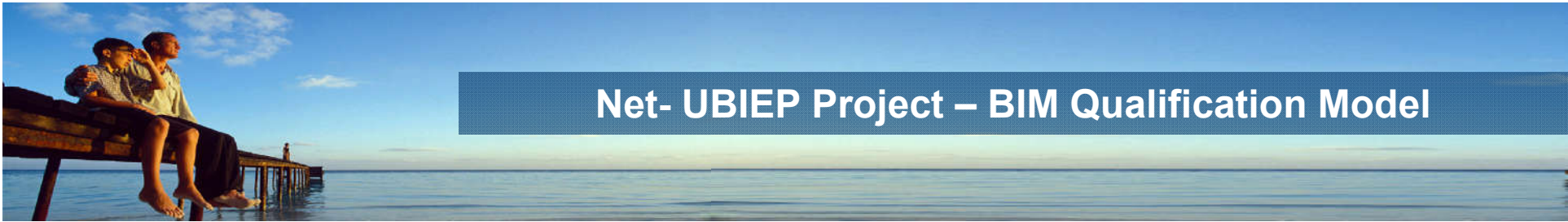
NET – UBIEP Objectives

➤ General Objective

Net-Ubiep Project aims at developing an innovative integrated work method in the building sector to widespread and strengthen BIM processes finalized at increasing to the energy performance.

➤ Specific Objectives

- Identify professional profiles involved in NZEB building sector and define specific BIM related competences for each of those in order to get a repertoire of BIM Managers.
- Elaborate a three dimensional matrix for the identification of competences required to each target group while working in buildings to ensure the highest energy performance.
- Develop a BIM Qualification Models to promote a BIM based work model;
- Standardize at European level the schemes for BIM Qualification Models through the presentation to regulatory body (CEN) of a position paper for the recognition of the BIM professional profiles



Net- UBIEP Project – BIM Qualification Model

Public administration	Engineers & architects	Technicians installers & maintainers	Tenants & building administrator
BIM QUALIFICATION MODELS On Energy performance			
SEMINARS on BIM Implementation strategies	Pilot courses on energy performance implementation in BIM	E-learning courses on the use of BIM in the life time of a building	Seminars on improved energy performance and plant management using BIM
Professional figures involved			
BIM evaluator BIM facility manager	BIM manager BIM coordinator BIM expert	BIM users expert	BIM evaluator BIM facility managers

➤ Work Packages

WP 1: Project Management and Coordination;

WP 2: Identification of requirements;

WP 3: Development of BIM Qualification Models;

WP 4: Validation of BIM Qualification Models;

WP 5: Standardization of BIM Training & BIM Qualification and Certification Schemes ;

WP 6: BIM Qualification Model Dissemination, Exploitation and Capitalization;

WP 7: Communication Activities;



NET – UBIEP Expected Results

➤ Expected Results:

- Widespread of BIM Qualification Model within and outside the partnership;
- Setting up of good practices to improve capacities and skills on energy performance of European actors on the building sector;
- Creation of a certification and qualification scheme for BIM actors to be presented to CEN/ISO: this will represent the starting point for a successive institutionalisation of professional profiles at european level;
- Getting SME sector more informed about refurbishment energy savings processes and new construction methods (BIM approach);



NET – UBIEP Expected Impacts

- **Expected Impacts**

- Reduction of barriers for the use of new technologies (BIM) for the refurbishment of the existing buildings;
- Increased collaboration across different trades and professional groups in the existing building sector through the spread of BIM;
- Widespread of BIM software and consequent reduction of refurbishment related costs and environmental impacts;
- Public Administration able to match 2030 Energy Strategy objectives;

➤ Target Groups

- Public Administrations (NUTS 2, NUTS 3, Cities);
- Associations of Engineers and Architects;
- Associations of Installers and Maintainers;
- Owners, Tenants and Building Administrators;

Project Partners

01. ENEA - Coordinator (Italy)
02. CS Group (Italy)
03. Via Europa Competence Centre (Slovakia)
04. UVS Institute for Adult Education and Services (Slovakia)
05. Fundacion Laboral de la Construcción (Spain)
06. Spanish National Research Council (Spain)
07. Vsj "Skaitmeninė statyba" (Lithuania)
08. Vilnius Gediminas Technical University (Lithuania)
09. University of Zagreb – Faculty of Civil Engineering (Croatia)
10. Elips Jadra (Croatia)
11. ISSO Dutch Knowledge Institute for the buildings and building sector (Netherlands)
12. Balance and Result (Netherlands)
13. Tallin University of Technology (Estonia)
14. Estonian Group for Lean Construction (Estonia)



NET – UPIEB Project

Thank you so much for your support!

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