





Integrated Strategies for the Energy Renovation of Public Buildings in the Mediterranean

SHERPA Final event

Raising capacities of public employees in local and regional administrations

Different training approaches to promote and improve energy renovation processes

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The need of customised training programmes

- ☐ Construction industry: complex sector
- ☐ Many players at various stages
- ☐ Different roles/tasks during the building value chain
- ☐ Specific needs regarding training programmes

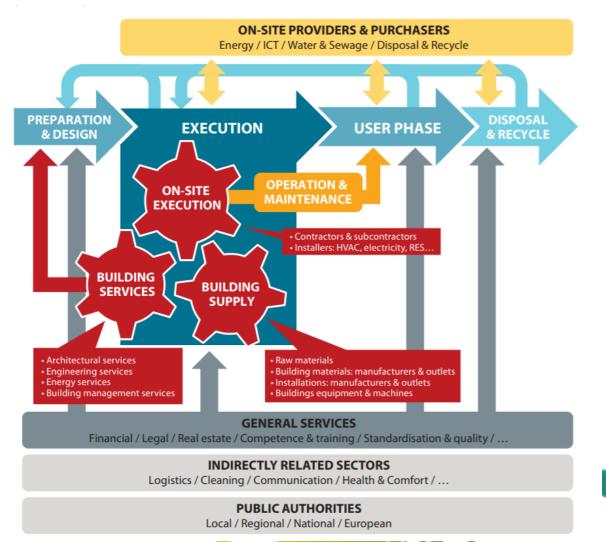




Figure: The building value chain: interactions between actors in the process of value supply. Source: Driving Transformational Change in the Construction Value Chain (BPIE)







Specific training initiatives

- ☐ SHERPA (Interreg MED): targetting public authorities
- □ PROF / TRAC (Horizon 2020): targetting white collars, especially building designers
- ☐ BIMplement (Horizon 2020): targetting white collars (building designers, construction companies) + blue collars (construction phase)











SHERPA Methodology – How? Where?

Phase I

Theoretical training with experts on each topic





Phase II

Thematic training for each typology





Phase III

Learning by doing



Face-to-face & regional training

Distance & transnational training













SHERPA Methodology - Training

Methodology and content

Phase I & II

Distance & transnational training

- PARTICIPANTS selection in each region.
- Specific training needs analysis for each region (competence map: knowledge + skills).
- Training content preparation (according to thematic and typology).
- Trainers' selection.
- Courses development.



Phase III

Face-to-face & regional training

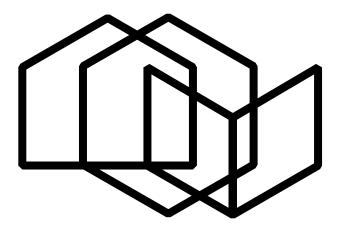
- Training based on specific projects (Learning by doing)
- Different and adapted training to each region:
 - Methodology
 - Amount of sessions
 - Structure and formative resources
 - Organization (typologies vs departments)
 - Amount of attendees











PROF / TRAC













Why PROF / TRAC? barriers to NZEB construction and retrofitting

- Mismatch between the available and needed skills as well as managerial capacity of professionals due to a lack in specific training and education
- Many professionals in the buildings sector have only limited training and skills in energy efficient building design and nZEB principles.
- Collaboration between the different disciplines and building professionals is still not very common.
- The involved building professionals are lacking the right information on available qualifications and training materials.

- There are no mappings and qualifications available of the needed skills for the specific target groups. Most of the trainings available focus on one specific target group and on one technique or concept.
- Training materials for education and postinitial education are now created on an adhoc basis without consensus on an underlying qualification framework.
- Training materials for education and postinitial education are available but should be maintained and updated in order to make the training sustainable and suitable for a life- long- learning process









What is our overall goal?

Overall goal of PROF/TRAC is to offer a solution for these barriers by developing and maintaining an Open Education Platform for Continuing Professional Development for professionals in the building sector.

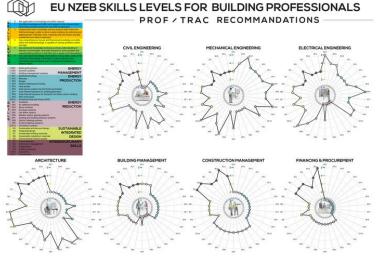
This platform addresses technical experts, architects and engineers.

The developed European qualification scheme will be part of a life- long-life learning process for continuing development and up-skilling of professionals.



EUROPEAN TRAINING AND QUALIFICATION PLATFORM

PROF/TRAC NZEB SKILLS AND QUALIFICATION SCHEME





ONLINE TRAIN-THE-TRAINERS COURSE

N.	Session title	Speaker
1	INTRODUCTION INCL. INTRODUCTION TO IDES-EDU	Peter Op't Veld (HIA, The Netherlands)
2	MAPPING THE SITUATION	Jan Cromwijk (ISSO, The Netherlands)
3	ENERGY SYSTEMS FOR NZEB, COMPUTATIONAL TOOLS FOR THE EVALUATION OF ENERGY PERFORMANCE OF BUILDINGS, BIM	Karel Kabele (CVUT, Czech Republic)
4	MODERN TEACHING METHODS	Jan Cromwijk (ISSO, The Netherlands)
5	OVERVIEW OF TEACHING MATERIALS	Olena K. Larsen (AAU, Denmark)
6	NZEB DESIGN	Per Heiselberg (AAU, Denmark)
7	KEY FACTORS FOR NZEB AND BASIS FOR NATIONAL TRAINING PROGRAMS. ASSIGNMENT	Laura Soto, Cristina Jareño (IVE Spain)
8	FOSTERING A MARKET MOVE TOWARD NZEB ENERGY RETROFIT AND DRIVING A COST DECREASE	Sébastien Delpont (GreenFlex, France

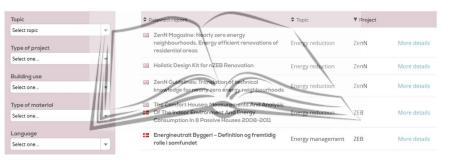
BUILD UP SKILLS ADVISOR APP







TRAINING MATERIAL REPOSITORY



CERTIFIED TRAINER











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



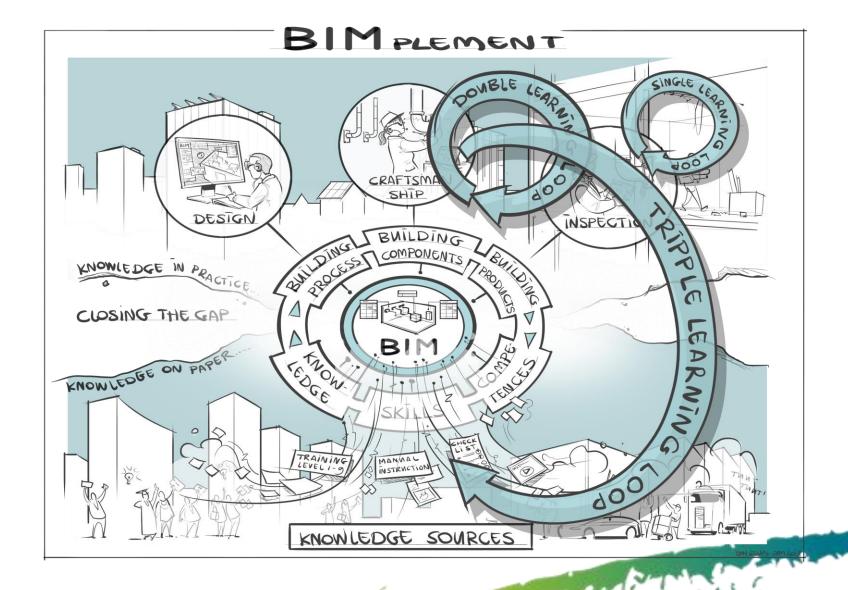






WHY?

BIMplement aims to achieve an improved quality for nZEB construction and renovation











HOW?

By creating a fully qualified and equipped workforce

BIMplement will set up large scale **training**, Continuous Professional Development and BIM-enhanced **qualification schemes**, strengthened with hands-on and BIM-enhanced workplace learning tools







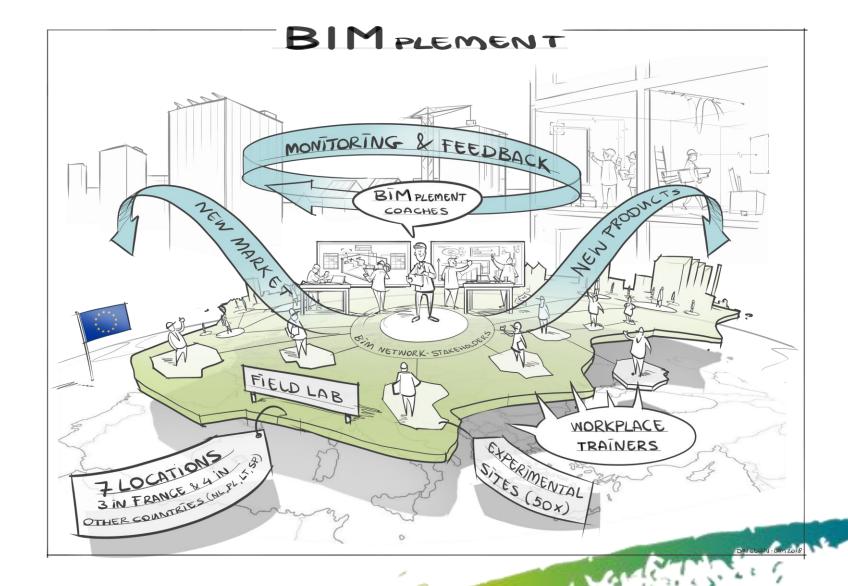








WHERE? Pilot field labs and experimental sites











WHERE?: Spanish Pilot Field Labs

LABORA: training center in the municipality of Catarroja







IVE premises: 2 training rooms, 1 assembly hall, 1 exhibition room









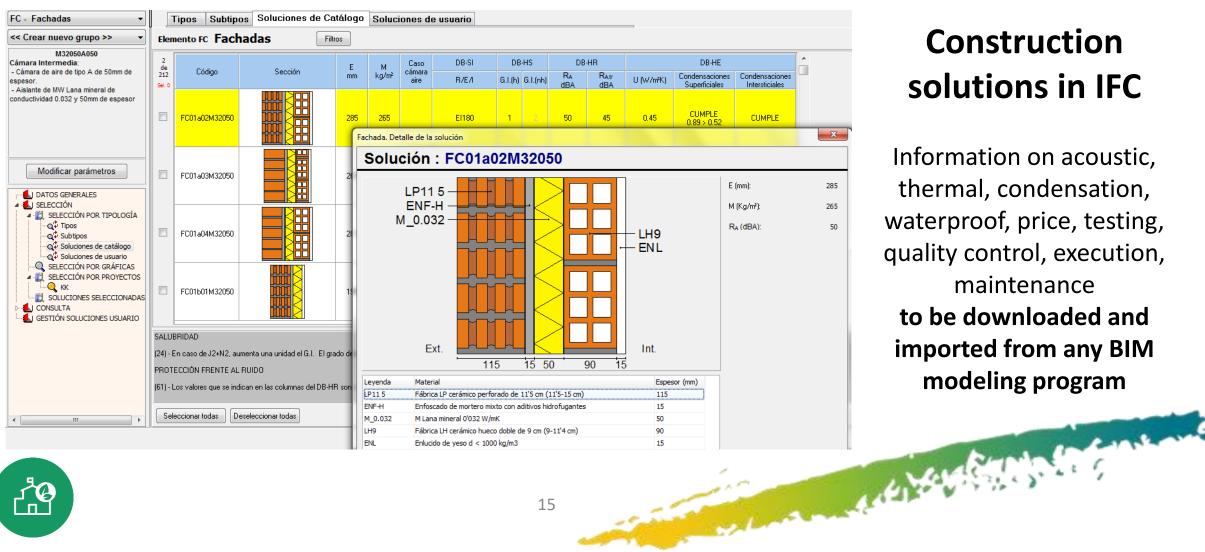






WHERE?: Spanish Pilot Field Labs

CATALOGUE: research project



Construction solutions in IFC

Information on acoustic, thermal, condensation, waterproof, price, testing, quality control, execution, maintenance to be downloaded and imported from any BIM modeling program









WHERE? Spanish Experimental Sites

CDT: Tourism development and acceleration cente of Valencia



Project presentation

- Experimental site
- Valencia (SPAIN)
- Office building
- Size (m2): 2761
- Construction phase
- New construction

Trainings

- 2, 14, 15 October 2019 + online
- 16 hours
- Obremo + AECO estudio
- 10 trainees



Builders



Designers



Owners









WHERE? Spanish Experimental Sites

Employment, training and entrepreneurship office



Project presentation

- Experimental site
- Valencia (SPAIN)
- Office building
- Size (m2): 714,66 m2
- Construction phase
- New construction



Builders



Owners



Trainings

- 17, 24, 31 October 2019 + online
- 16 hours
- BECSA + Ajuntament de València
- 24 trainees









WHERE? Spanish Experimental Sites

HEVIA: residential building



Project presentation

- Experimental site
- Valencia (SPAIN)
- Multiple-dwelling units
- Size (m2): 57664
- Construction phase
- New construction



Builders



Designers



Trainings

- 28, 29 Nov., 2 Dec. + online
- 16 hours
- CLÁSICA URBANA
- 6 trainees

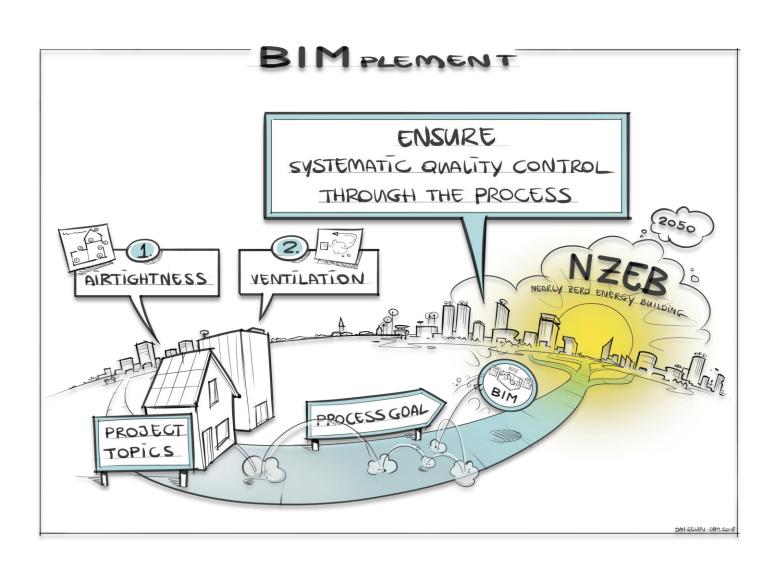


Owners









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