





EETHESkills

seetheskills.eu

Sustainable EnErgy Skills in construction: Visible, Validated, Valuable

"Energy Efficiency Competencies and Qualifications: Sharing expertise, lessons learned and developed methodologies"

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Chamber of Construction and Building Materials Industry of Slovenia





From the GRANT AGREEMENT DATA SHEET :

Grant Agreement (GA) No: 101033743

Acronym: SEEtheSkills

Title: Sustainable EnErgy Skills in construction: Visible, Validated, Valuable

Call/Topic: Horizon 2020 project, Stimulating demand for sustainable energy skills in the building sector

Type of action: Coordination and support action

Granted by: European Climate, Infrastructure and Environment Executive Agency - CINEA

Duration (in months): 36 (1 June 2021 - 31 May 2024)

Reimbursement rate: 100% of the action's eligible costs

Maximum grant amount for consortium: 998 612.50 eur (actual, flat rate, unit)

Project countries: 5 (Spain, Slovakia, Slovenia, The Netherlands, The North Macedonia)

Consortium: 10 project partners

Partner organization: 2 chambers of commerce – department for construction sector, 3 universities for civil engineering, 1 chamber of construction engineers, 1 technology institute for construction, 1 knowledge center for building, 1 WITS institute for AECO – BIM ACADEMY, 1 company for project ideas creation and support









SKSI

BIM Academy

КРЕАЦИЛА

STU

ITEC Institut de Tecnología de la Construcció de Catalunya

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SEEtheSkills' - actions toward sustainability of construction

Overall objective— Challenging market acceptance and acting toward stimulation of demand of energy skills in construction through a novel 3V approach, to support need for energy efficient construction (trained and skilled staff especially) of new and renovation of existing building stock.

The action will present a novel 3V approach

VISIBILITY of skills by creation of an on-line database accessible and available on interregional level, between partner countries and beyond;

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of energy skills by making them comparable within SEEtheSkills area for management of knowledge & skills; transferring and replication of training schemes between project countries

VALUE

VALIDATION

of the skills and tackle their market demand, initiated by expressing the benefits of using energy skills in achieving sustainability of construction.



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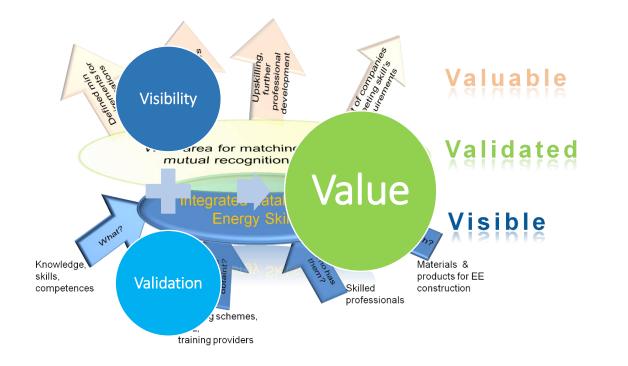








Connecting the three SEEtheSkills objectives The 3V approach

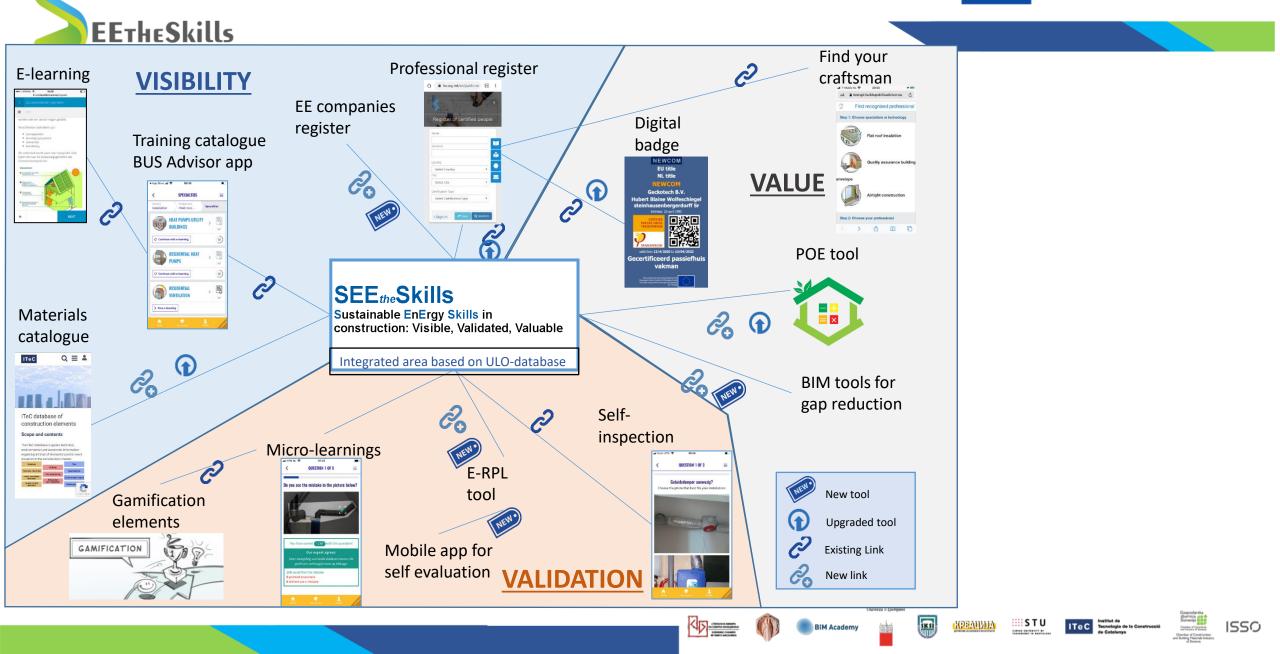


O1 To make skills VISIBLE through whole value chain in building sector by implementing Integrated register of energy skills

O2 To **VALIDATE** skills relevance to standardized EE construction and interventions in renovation, by matching and levelling skills and linking them to national and EU qualification standards, to **enable mutual recognition**

O3 To emphasize skills VALUE in order stimulating market demand for energy skills in design, construction and maintenance of buildings and manufacturing and installation of EE construction materials

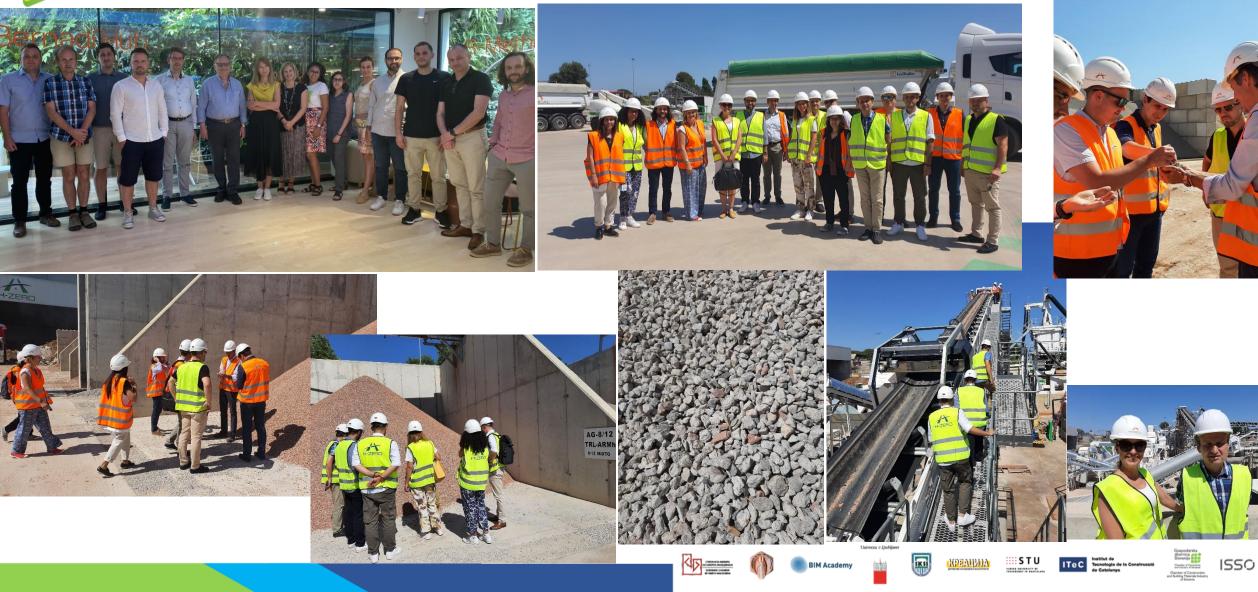




In-person meeting of the team, Barcelona 29-30 June 2022 Visit of a site for preparation of concrete from recycled construction material **EETHESKILLS** HERCAL DIGGERS cement and concrete plant



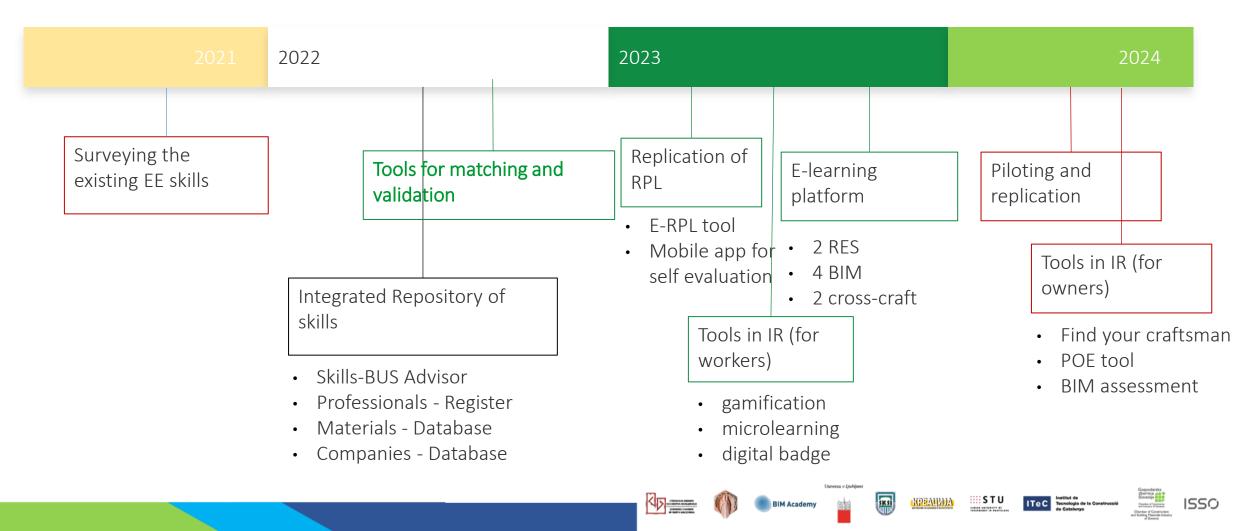
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SEEtheSkills now – the timeline of realization of actions





Lessons learned from surveying EE skills - Methodology for research



The key areas the research were focused on:

- Skills defined in national roadmaps
- Skills developed as part of previous BUS projects
- The developed training schemes
- The number of trained workers and professionals
- Companies who design and produce EE materials

- Status of Recognition of Previous Learning (RPL)
- Status of demand for energy skills
- Level of awareness of energy skills
- Available certifications
- Legal obligations promoting use of energy skills and their timelines
- Predictions for future development of energy skills

ITeC Tecnolo

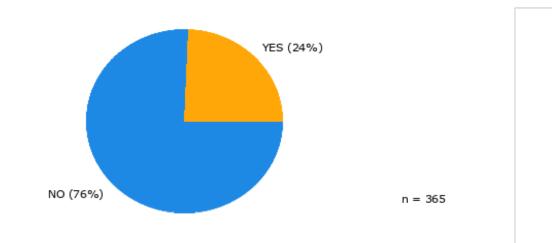


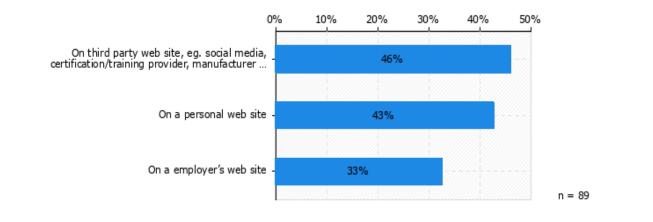




Lessons learned from surveying EE skills

➤ Lack of registers of skilled person – the need for VISIBILITY





Are your skills publically visible?

Where are the skills listed/announced?





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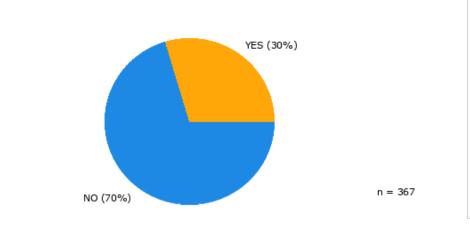


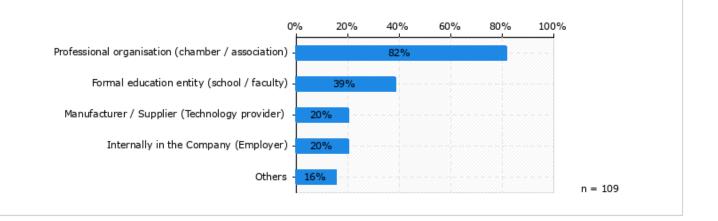




Lessons learned from surveying EE skills

> Lack of formal certification of skills- the need for VALIDATION





Do you have certificate for your skills?

Where do you build your skills?





STU

RPEAU/JJA





Lessons learned from surveying EE skills

Crucial actions are needed to increase the AWARENESS of the VALUE of skills



When lacking EE and digital skills

-Only 33% will reskills existing employed workers -Only 11% will redeploy existing workforce -More than 50 % will hire external experts (skilled professionals)



Supporting the long term vision for supplying skills and skilled professionals





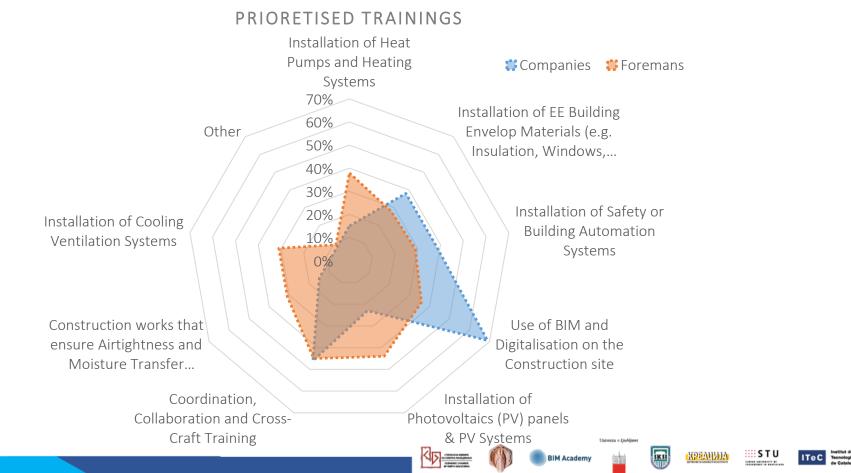




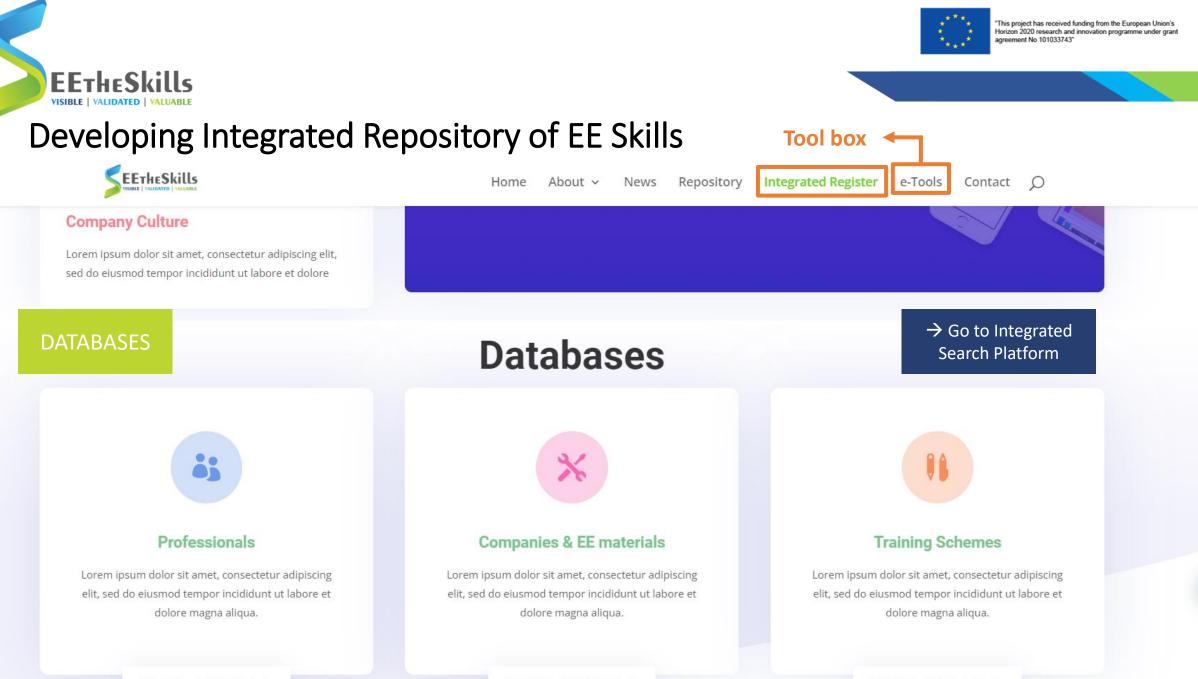


Identified scope of skills' need

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VIEW DETAILS

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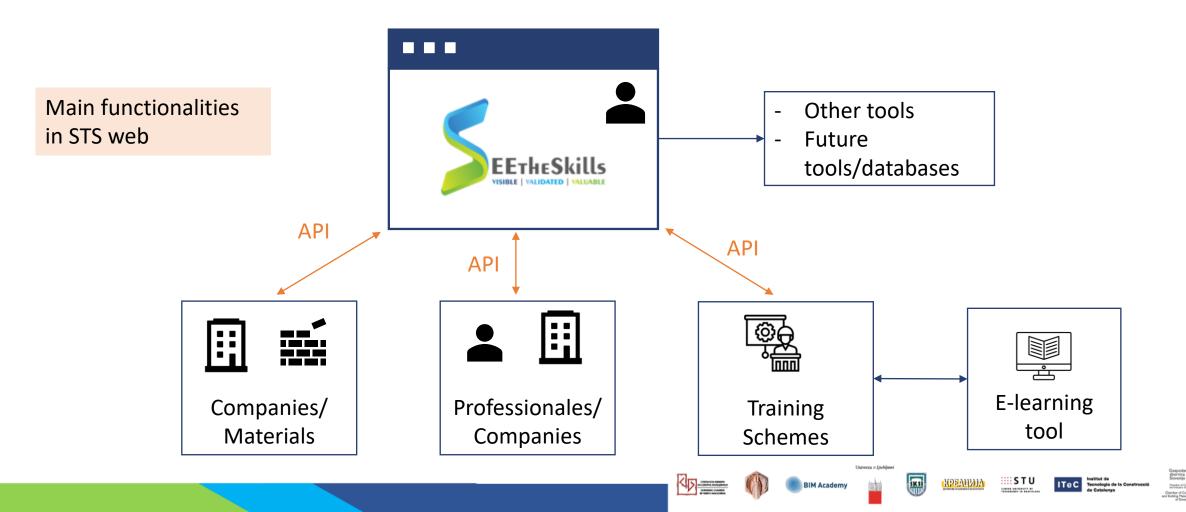




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Developing Integrated Repository of EE Skills





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RPEAUMDA

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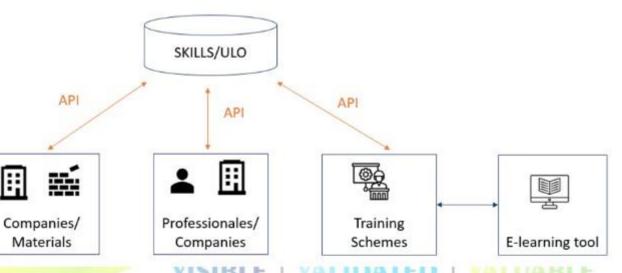
INTEGRATED REGISTERS OF ENERGY SKILLS

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EETHESkills VISIBLE | VALIDATED | VALUABLE

Visibility of energy skills can be increased creating certain on-line repository/databases (Integrated database of energy skills) that can intera each other. This databases will be developed through chain of activities between the partners, such as: exchange experience and training schemes betwee partners, transferring and replication of training schemes as well as enabling elearning on developed/existing training schemes for the purpose of replication. **STS E-learning**

STS Certification STST Different functionalities and tools



VISIBLE | VALIDATED | VALUABLE

Figure 1. Scheme of API system in Cross-functionalities alternative, skills are the binding factor



Figure 2. Several functionalities of the integrated SEEtheSkills register provided by different solutions







Defined approach for matching and leveling of skills



Defined procedure for mutual recognition,

comparison and leveling of EE SKILLS OF PROFESSIONALS,

based on achieved ULOs, by comparing with the standard of minimum requirements



Defined procedure for comparison of **different TRAINING COURSEs** and matching the resulting qualifications,

based on planned ULOs, by proposed methodology for mutual recognition of qualifications





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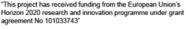




Defined approach for matching and leveling of skills









Two different approaches for skills validation

- e-learning platform, that will include the following e-trainings in form of webinars created by project partners:
 - -2 webinars on RES gualification

ΕΕτΗεδ

- -2 webinars on BIM qualifications for blue collars
- -2 webinars on BIM qualifications for white collars
- -2 webinars on cross-craft skills qualifications

- > Creation of e-RPL tool. The process of recognition of previous learning RPL, based on defined steps of identification, documentation, evaluation and certification adjusted as on-line process, including:
 - communication to identify the necessary skills
 - submitting documentation for evaluation
 - evaluation of submitted documents and
 - issuing certification
- realized through web-based platform for e-learning. Besides the necessary documents to be filled by the applicants, the tool will include guidelines for explaining the process to ensure successful applications.







Further actions: The link between energy skills and the quality of construction

It can be easily presented by conducting case studies for measuring reduction of performance gap



Proper implementation of proposed EE measures with SKILLED workers

proper insulation,

avoiding thermal bridges,

proper installation of dwellings,

integration of RES in buildings

sustainable design



Measurable energy savings



Promotion of the value of energy skills









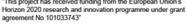


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Further actions: The value of energy skills

The tools used to express these benefits are usually digital tools like BIM

By using BIM modelling, different scenarios for reduction of performance gap while implementing EE measures can be proposed.



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SEEtheSkills outputs with innovation potential

No	Innovative solution
11	Integrated repository of energy skills
	a) Database of training schemes
	b) Database of skilled workers/proffesionals (in companies)
	c) Database of EE materials (and companies)
12	e-RPL tool
l6	POE web tool













INTENSE PROMOTION !!!

INCREASED VISIBILITY !!

EASY UPTAKE OF RESULTS !

VALUABLE IMPACT









Follow out SEETHESKILLS (STS) communucationn channels



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