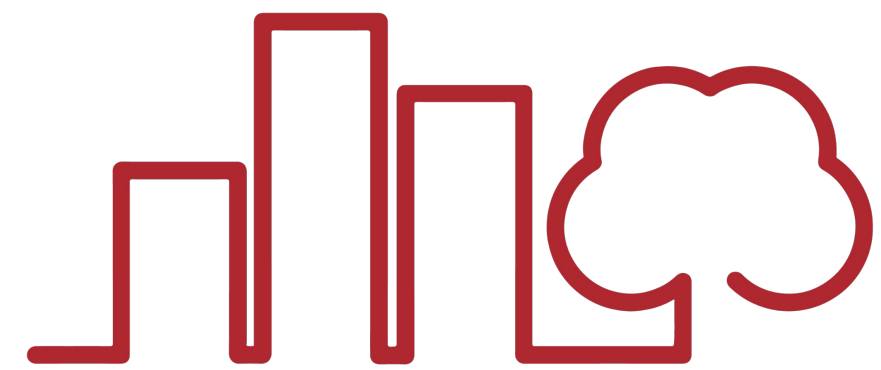




**SUSTAINABLE
PLACES 2025**

8-10 October 2025

Milano



Comune di
Milano



Skills

WORKSHOP

Pushing on skills to address the current and future challenges: Learning solutions and trends across economic sectors

INPERSO project - R. Olivadese - A. Araldi



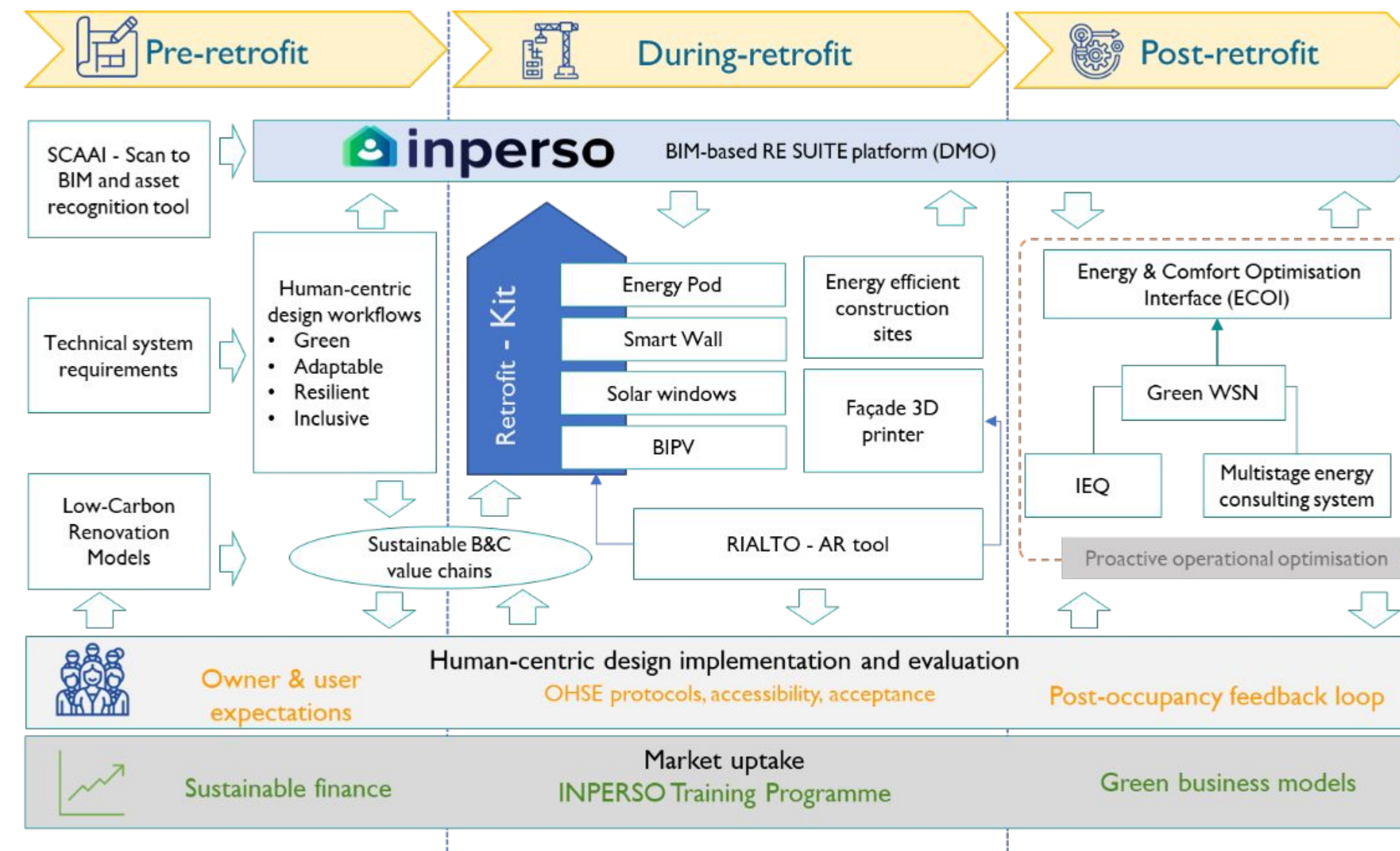
www.sustainableplaces.eu

INPERSO

INdustrialised and PErsonalised Renovation for Sustainable sOcieties

OBJECTIVES

The INPERSO project will deliver inclusive, affordable, efficient, and sustainable renovation which will be adaptable to various climate zones and building typologies but focused on residential and heritage buildings.



PROJECT DURATION

48 months - started in July 2022

INPERSO

INdustrialised and PErsonalised Renovation for Sustainable sOcieties

3 PILOTS

Valencia, Spain

Its goal is to carry out deep renovation of the building, improving building energy performance, focusing on indoor environment and ventilation, promotion of energy communities and adherence to the heritage status.

Trinity Complex



Social Shelter

A number of retrofitting actions will be carried out to this 60-year-old building such as replacement of old windows, installment of HVAC systems and improvement of insulation to maximize indoor comfort and energy performance.

Calle Estella



Velp, Netherlands

It entails three buildings, all of which are culture heritage buildings and protected by law. INPERSO will be an integral part of the design process to achieve a low carbon retrofit in the entire area.



22 PARTNERS



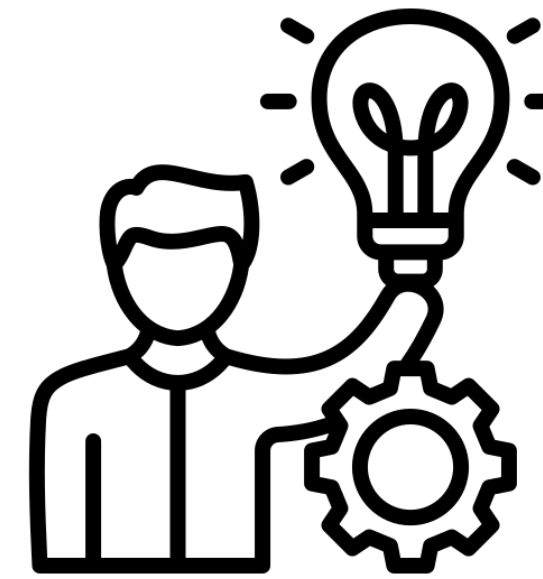
Grant Agreement N°:101069820

Context and approach

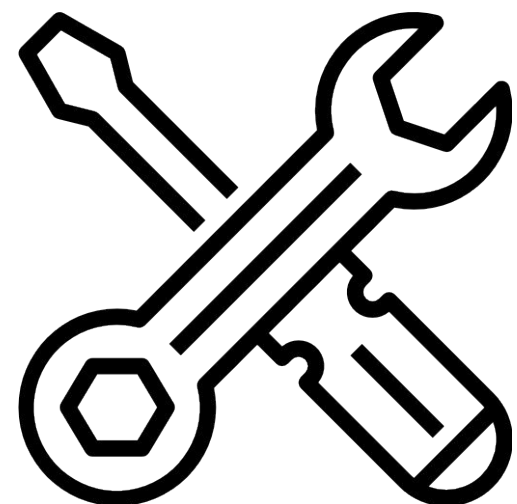
EUROPE AND ITS ROADMAP



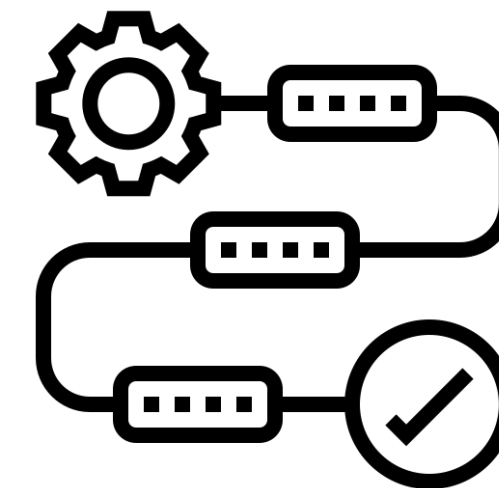
Goal: the BUILDUP portal is an european hub for energy efficiency knowledge sharing.



Initiative: BUILD UP Skills trains qualified construction professionals.



Tools: Projects and EU Exchange Meetings for skill sharing.



Approach: Community engagement and leadership through Ambassadors.

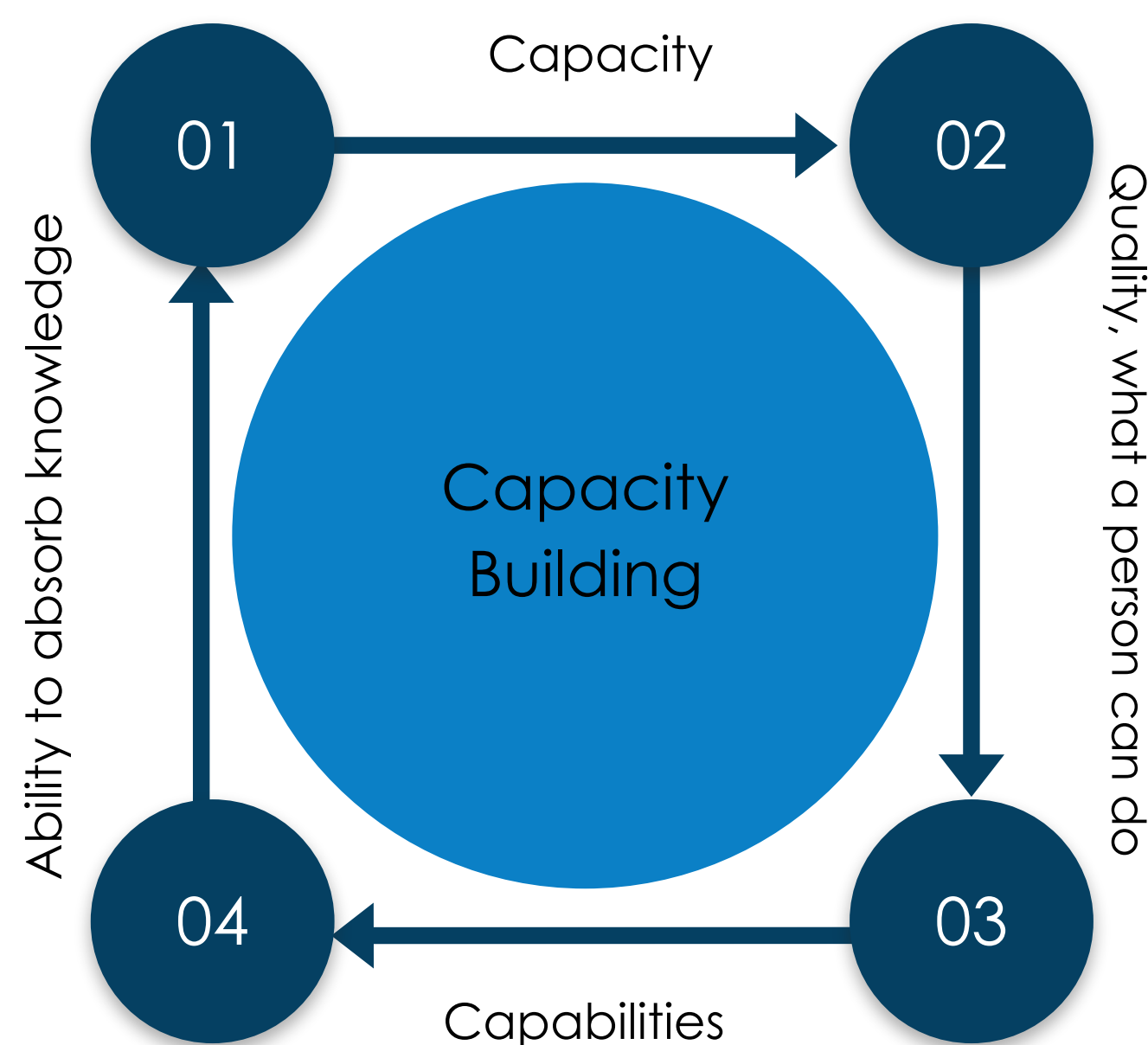
Methodology

Definition and research

“Capacity-building is defined as the **process** of developing and strengthening the skills, instincts, abilities, processes and resources that organizations and communities need to survive, adapt, and thrive in a fast-changing world”¹

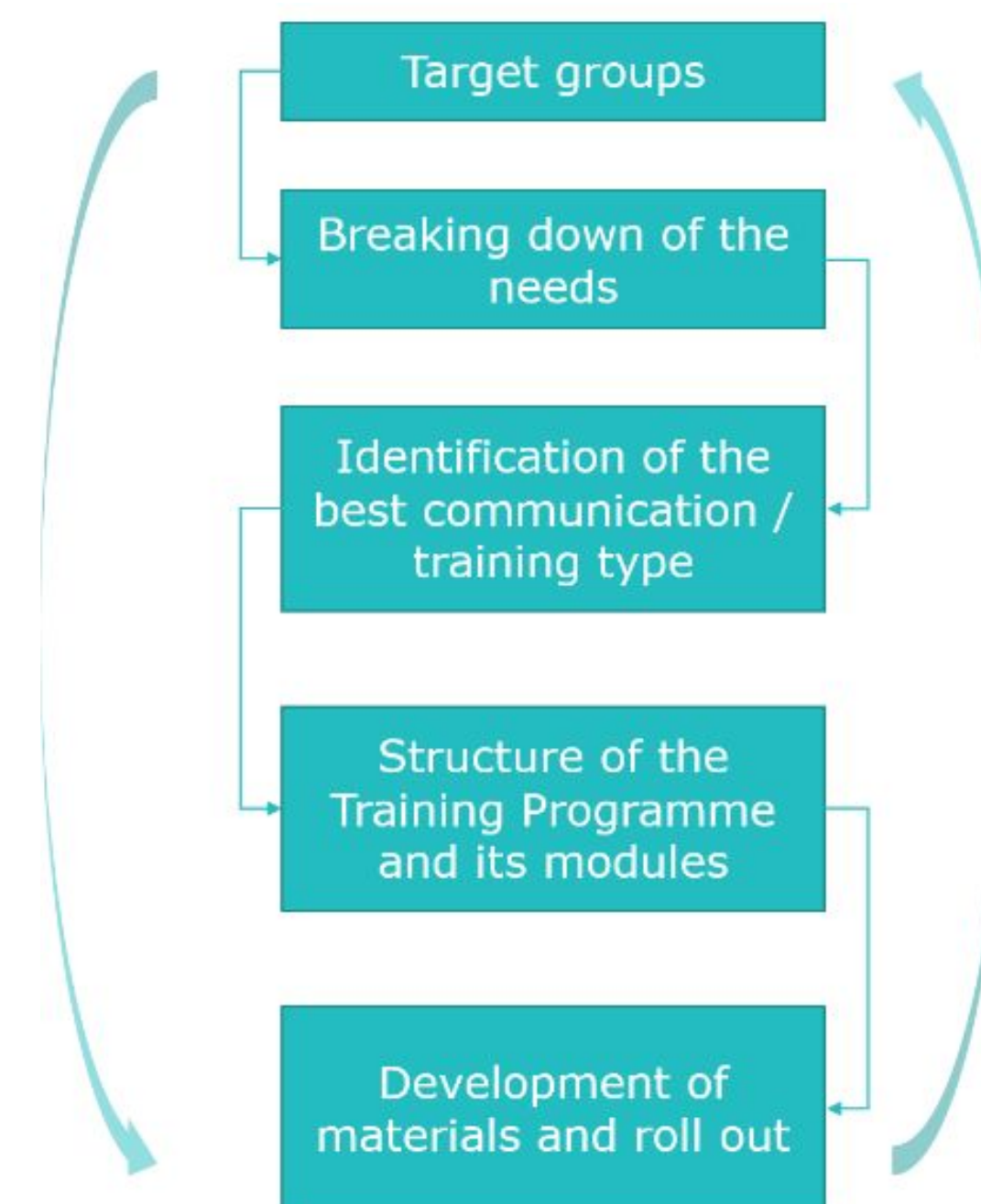
Roll out of Trainings

9 public training activities
14 confidential training activities
12 technical training activities (such as user manuals)
11 interactive training activities (such as workshops, webinars, etc.)



Process at different levels

- Target group and stakeholders
- Needs and aims for the capacity building
- Mapping and definition of the Training Programme



Co-funded by
the European Union

Grant Agreement N°:101069820

Training Programme

					2024												2025											
					Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun						
	TITLE	PARTNER LEADER	TYPE OF TRAINING	TASK	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36						
1	The establishment of sustainable material supply chains	MIRC	Workshop	T2.1																								
2		MIRC	Wokshop	T2.1																								
3	Smart Wall User Manual	AMS	User Manual	T2.2																								
4	HVAC User Manual	VENTI	User Manual	T2.3																								
5	Energy renewable sources and the deployment of EnergyPod in building services	VENTI	Training	T2.3																								
6	BIPV User Manual	METSOLAR	User Manual	T2.4																								
7	Solar Window User Manual	IWIN+SUPSI	User Manual + Training + video	T2.5																								
8		SUPSI + METSOLAR	Training	T2.4 + T2.5																								
9	Application of innovative BIPV in construction	VIAS	Workshop	T2.6																								
10	Application of robotics and 3D printing in construction	VIAS	Training	T2.6																								
11	Improving spatial data collection through Scan2BIM and 3DVM	R2M	Training	T3.1																								
		R2M	Video	T3.1																								
		R2M	Course	T3.1																								
12	Guidelines on the use of 3DVM	R2M/DMO	User Manual	T3.1																								
13	INPERSO Platform	DMO	Training	T3.2																								
		R2M	Training	T3.3																								
14	RIALTO - AR based clash detection tool	R2M	Course	T3.4																								
15	ECO-I interface	CORE	Training or video	T3.5																								
16	Low carbon renovation models and the user interaction with novel digital systems	TAU	Publication	T4.1 + T4.5																								
17		TAU	Workshop or webinar	T4.1 + T4.6																								
18	DC stakeholders and the academic world	IVE	Report	T4.3																								
19	Life Cycle Cost-Benefit Analysis	IVE	Report	T4.4																								
20	Health and Safety for buildings and construction sites	EUROC	Webinar + publication	T6.1																								
21	Ecosystem empowerment	IVE	Workshop + publication	T6.2																								
	Lessons learned and replicability potential of INPERSO DC#1	AUMSA	Workshops	WP5																								
	Lessons learned and replicability potential of INPERSO DC#2	MWNB	Workshops	WP5																								
22	Lessons learned and replicability potential of INPERSO DC#3	VVV	Workshops	WP5																								
23	INPERSO's WP3 technologies overview	DMO	Workshop	WP3																								

Training Roll Out

Installation Guidelines INPERSO Retrofit-KIT

Installation guidelines of the Solar Windows

The following pages present the installation guidelines for the Solar Window, specifically for operable windows equipped with this system. These guidelines focus on the use of a spring conduit, which enables the safe passage of an IGU electrical cable between the window frame and the sash while allowing for various hinge movements. This installation guide is tailored to the spring conduit solution, although alternative methods, such as flex loops or concealed transfers, may also be utilized in operable windows.



1. Determine the location for frame cable transfer hole and drill the frame cable transfer hole to access the cable.



2. Determine the location for sash cable transfer hole and drill the sash cable transfer hole to access the IGU cable.





INPERSO platform workshop #2

12-07-2024



Co-funded by the European Union

Project funded by

Ministry of Education, Youth and Sports (MŠMT)

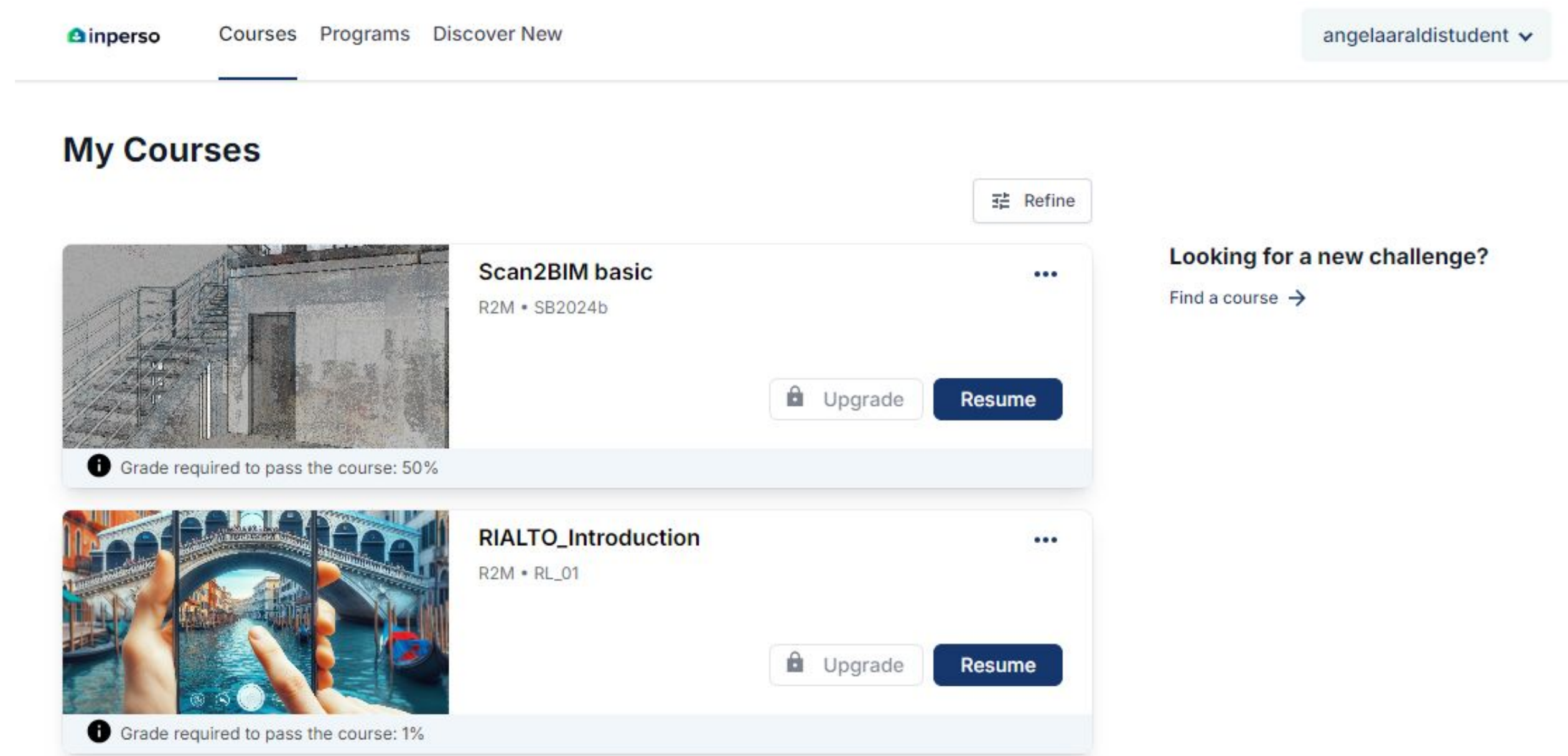
Ministry of Education, Youth and Sports (MŠMT)

Ministry of Education, Youth and Sports (MŠMT)





Implementing strategy



The screenshot shows the inperso user interface. At the top, there's a navigation bar with 'inperso', 'Courses', 'Programs', and 'Discover New'. A user profile 'angelaaraldistudent' is visible in the top right. Below the navigation bar, the 'My Courses' section is displayed. It features two course cards. The first card is for 'Scan2BIM basic' (R2M • SB2024b) with a thumbnail image of a building. It has a 'Resume' button and an 'Upgrade' button. Below the card, it says 'Grade required to pass the course: 50%'. The second card is for 'RIALTO_Introduction' (R2M • RL_01) with a thumbnail image of a hand holding a smartphone showing a Venice canal. It also has 'Resume' and 'Upgrade' buttons, and says 'Grade required to pass the course: 1%'. To the right of the courses, there's a section titled 'Looking for a new challenge?' with a 'Find a course' link and an arrow.

- A new implementation and deployment of a **Learning Management System (LMS)** proof of concept whose aim is to enhance the capacity building process and prove more practical tools.
- **Training pills** are small, visual and interactive courses, focused on a specific topic that seek to make learning more entertaining and accessible.

Challenges

- Planning training on time and constant monitoring
- Collaboration with training's responsible partners and Dissemination and Communication strategies
 - Reach a large amount of stakeholders aiming to train the workforce and target groups
- Find the most suitable training type to address the project's aim
 - Beware of training languages, focuses and topics, confidentiality and training structure

Thank you

www.r2msolution.com

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Via F.lli Cuzio 42, 27100 Pavia, Italia



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INSIEME
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ENTE UNICO FORMAZIONE E SICUREZZA

ET4Digital

Setting innovative demonstrator for digital ecosystem

Sustainable Places 2025
Milano, 2025-10-09



Co-funded by
the European Union

Erasmus+
Agreement number: 2024-1-IT01-KA220-VET-000249119

ET4D

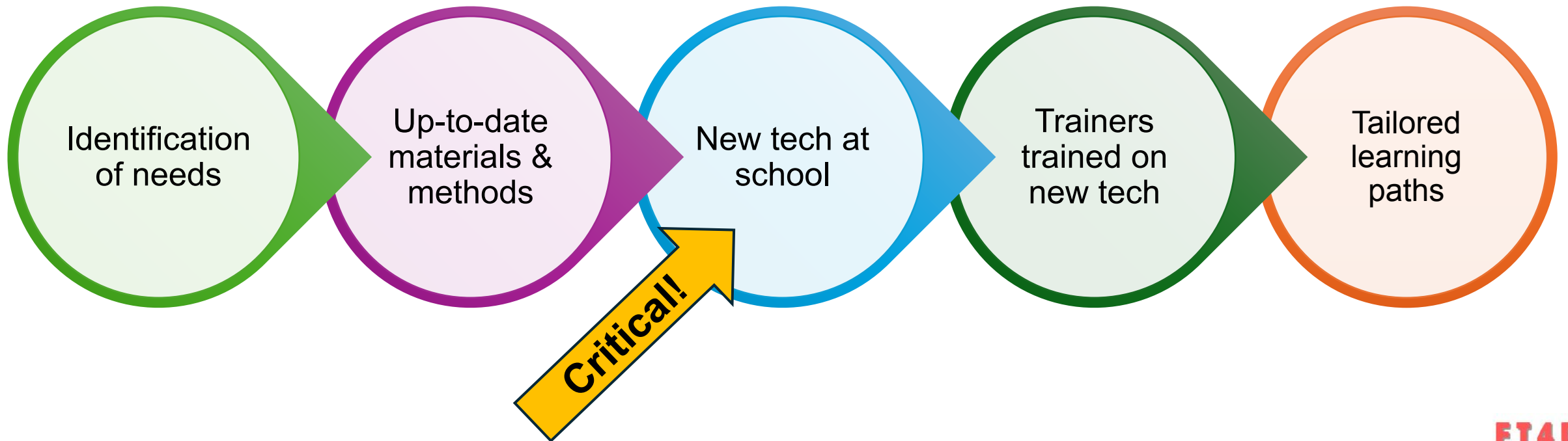


The challenge: a widening digital skills gap

- Construction sector rapidly **digitizing**
- New technologies like BIM, IoT, and DT...
- ...workforce **struggling** to keep the pace
- Under-digitalized sector, especially SMEs
- **Skills gap** limits **innovation** and efficiency
- The solution: **training.**



An effective «new tech training » requires...



Acquire vs Require: the *VET paradox*

- Vocational Education & Training (VET) crucial to filling the gap
- Limited access to latest **digital tools** and **training for trainers**
- Consequence: **Acquire** vs **Require** potential mismatch between
 - what a learner studies and **acquires** (**skills at school**)...
 - ...and what a modern digital construction site **requires** (**skills at work**)
- **Training limited to spot experiences, intense but rapidly fading**



ET4DIGITAL: a different perspective

Mission: empower VET trainers with skills and tools to lead digital transition in constructions

Method: circular process from market needs to real-world training impact measurement

Focus: bridge between EU research and Market

Goal: strengthen links between industry needs and vocational training



Step 1: identify the real-world needs



Build curricula but first map sector's digital landscape



Method: analysis of digital ecosystem with surveys, literature reviews, focus groups, and an International Stakeholder Panel



Results:

Assessment of technologies in use
Identification of adoption barriers
Suggestions for a new training framework

Step 2: measure before training (*ex-ante*)

- **A personalized training is an effective training**
- Assessing digital skills with **R2M Avanti** ecosystem:
 - Document-based skill assessment and AI-powered virtual interviews
 - Skill gap detection to identify strengths and areas of improvement
 - Tailored learning pathways, for maximum efficiency and engagement



ET4D



Step 3: hands-on, experiential training

- Core training
 - 2nd generation **Digital Twin** demonstrator
 - Based on a **real construction site**
 - **Integration** of laser scanning and IoT sensors
- Trainers can interact with a **live digital model**
 - A customized educational **experience**
 - An interactive **laboratory**
 - A **live scenario** where trainers annotate phases, challenges, solutions



Step 4: measure the impact (*ex-post*)



Close the loop testing training effectiveness



Avanti Virtual Interviewer measures training impact



Results:

Data-driven evaluation for refining the model
Set of insights and lessons learnt
Guidelines for replicability in other VET systems

Building the future of construction training



A dual value:

- **Accelerate digital transformation** of a key sector
- **Train professionals** who lead that change

A dual goal:

- Create a **sustainable digital training** ecosystem
- **Strengthens synergies** between research, market, training

ET4D



Questions?

ET4D



Erasmus+
Agreement number: 2024-1-IT01-KA220-VET-000249119



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TEXIVOS:

Skills about Virtual Reality for Learners and Trainers of Vocational Schools for the Construction sector

Sara Momi, R2M Solution Srl, Italy

09/10/2025, Monte Rosa 91, Milan, Italy



TEXIVOS: Testing XR4ED in VOcational Schools

TEXIVOS is one of the 10 projects selected by the **Call for Pilots of XR4ED Project**, Horizon Europe programme

It addressed the challenge **Content creation and exploitation** of: Extended Reality (XR) tools, which covers **VR = Virtual Reality**

The XR4ED Project made available a:

- Platform
- World Builder visual editor

To test their potentialities in **real-world scenarios**.

Consortium:

a consultancy (R2M, Italy), a school (IIPLE – Scuola Edile di Bologna, Italy)

Duration: 14/10/2024 - 14/10/2026 (1 year)



TEXIVOS Objectives

Contributing to innovate the Vocational training offer for the construction sector by introducing EdTech like Virtual Reality modules in daily learning programmes.

Specific Objectives:

- **Teachers and trainers of VET schools get supported** on how to design new modules or empower existing courses thanks to VR and XR tools
- **Introduction of VR and XR tools** contributing to mitigate **school dropout rate** (by increasing the level of engagement of teenagers)
- Contributing to innovate current the construction sector in Europe by **embracing innovation and digitalization at all levels**, by professionals as well as **workers** and their opportunities for accessing to long-life learning that include digital skills
- Fostering existing/available solutions in the **EdTech sector for their wide deployment**

TEXIVOS: focus on the EdTech

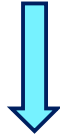
EdTech = Education Technology sector covers:

- **Hardware:** Tablets, interactive screens, and other devices used in the classroom.
- **Software:** Online learning platforms, Learning Management Systems (LMS), educational apps, and tools for creating digital content.
- **Content:** Digital textbooks, online course materials, interactive games, and **VR experiences**.
- **Infrastructure:** Data management and other technological systems that support digital learning environments.

VR in Construction education is among the most promising technologies **yet quite inaccessible to many schools** due to several burdens (costs, difficulty to develop XR learning materials; fear to access it, etc.)

TEXIVOS demonstration activities: context

An uneven situation between building professionals & workforce: workers operating at the construction site usually work without the support of any, innovative digital tool



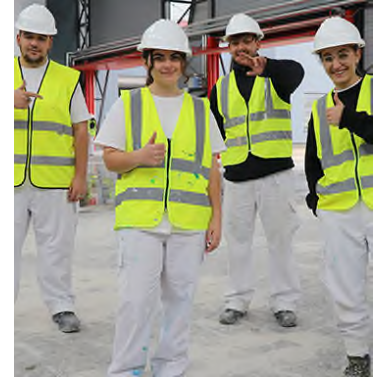
Two target groups:

- **Teachers and trainers** to be empowered by receiving **dedicated training & support at IT level** (*Training the Trainers*)
- **Learners** (young students and senior) to **get access to VR experiences** integrated into existing (= recognized) learning programmes

TEXIVOS: learning modules in VR

Learners: participants of the following courses

1. The ***Education and Vocational Training (IeFP) Course – degree “Building and Structural Operator”*** (young students, 15-18 years old)
2. The ***Higher technical education and training (IFTTS) Program – degree (valid in EU and Italy) Complex Construction Site Management Technicians*** (students that completed upper secondary education, university students & professionals)
3. The ***Bricklayers Training Courses*** (usually adults, including the unemployed and/or in need to acquire new skills or improve existing skills)



TEXIVOS Module 1 – Safety Competence

Understanding of construction site safety protocols and correct management of risky situations

Why is it strategic?

Construction is still a hazardous sector,
with high number of work-related injuries and fatalities

By using VR:

- **Stimulate the risk perception** like risk of falling from scaffolding and ladders; handling of loads; loading and unloading of vehicles on construction sites, etc.
- **Teach the correct sequences** to be put in place

Thanks to the immersive / 3D-perception of the work environment, people can understand the complexity of a building site while getting engaged in learning by gamification (quizzes, etc.)

TEXIVOS Module 2 – Technical Operational training

Get experience about construction techniques at the construction site.

Why is it strategic?

Acquiring operational skills (practical exercises at individual and group level)
without the need to be on the construction operational environment

By using VR:

- Facilitate **daily operations** of workers
- **Overcome the traditional difficulties related to the abstractness of technical data used for construction** like correctly understand drawings in orthogonal projections, get spatial perception of complicated geometrical forms to be constructed OR components to be assembled on site

TEXIVOS: Training the Trainers

10 teachers/trainers of IIPLE received information about:

- Introduction to TEXIVOS project and goals
- Understanding of the activities scheduled for validating the learning/training modules empowered by XR to young and adults/professionals
- Access to a practical experience of the tools

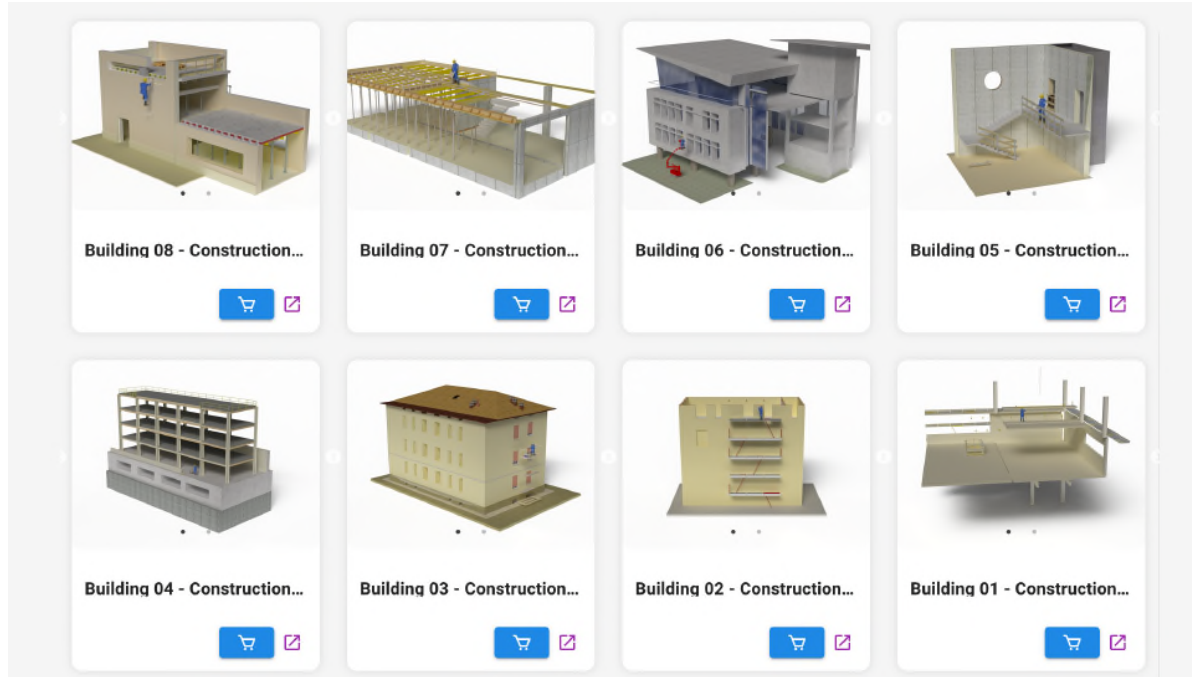
Listening to the teachers/trainers, the **most appreciated aspects** have been:

Technical and practical activities -> “making the experience”

- Opportunity to directly experiment with headsets
- Access to the simulation of realistic virtual environments

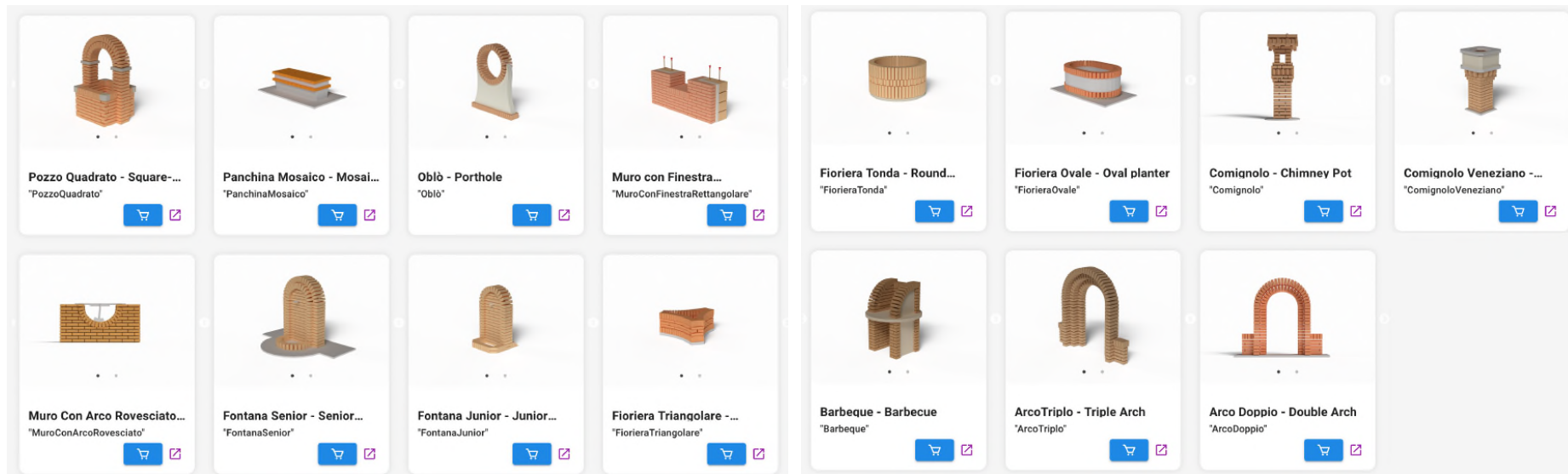
TEXIVOS: VR elements

8 full immersive scenarios developed and made available on the XR4ED environment



TEXIVOS: VR elements

15 models of reference developed and made available on the XR4ED environment



TEXIVOS: video

The creation of this experience involved:

- 3D-asset creation and optimization using software like **Sketchfab** and **Blender**
- interactive logic and content integration within the **XR4ED World Builder**

Demo video to show live

TEXIVOS: data collection – the traditional way

Phase 1: traditional questionnaires

51 learners

7 trainers

TEXIVOS – Training VR/AR in Vocational Schools - No.2360859
T4 Extra Methodology testing and creation of the course

EVALUATION QUESTIONNAIRE
On the EXPERIENCE with the VIRTUAL/AUGMENTED REALITY

Learning Course: _____
Date: _____

SECTION 1 – Knowledge and previous experience

1. Before this lesson, have you heard about virtual/augmented reality (VR/AR) before?

☐ Yes, I was familiar with the topic.
☐ Yes, I had heard of it, but I didn't know the details.
☐ No, I wasn't familiar with the topic at all

SECTION 2 – Lesson evaluation

2. How interesting did you find the lesson on VR/AR applied to construction?

☐ Not at all interesting
☐ Not very interesting
☐ Somewhat interesting
☐ Very interesting

3. Did the lesson help you better understand what VR/AR is and how it can be used in the construction industry?

☐ Yes, clearly
☐ Partly
☐ No

TEXIVOS – Training VR/AR in Vocational Schools - No.2360859
T4 Extra Methodology testing and creation of the course

4. Did this experience inspire and motivate you to explore the use of VR/AR in your future work?

☐ Yes
☐ No
☐ Don't know

SECTION 3 – Applications and contents

5. What part of the lesson did you like the most?

6. What would you have liked to learn more about?

7. Do you think this new knowledge will be useful to you in your work?

☐ Yes
☐ No
☐ Maybe

SECTION 4 – Ideas for the future

8. Would you like to conduct further hands-on activities or workshops on the use of VR/AR in construction?

☐ Yes
☐ No
☐ Maybe

9. Do you have any suggestions or proposals for improving the next lesson?

TEXIVOS – Training VR/AR in Vocational Schools - No.2360859
T4 Extra Methodology testing and creation of the course

QUESTIONNAIRE TRAINING for TRAINERS

SECTION 1 – Previous knowledge and experience

1. Have you ever used VR/AR technologies (including in other contexts, such as video games, museums, apps, etc.)?

☐ Yes, frequently
☐ Yes, sometimes
☐ No, never

2. Have you had previous training for trainers on VR/AR?

☐ Yes
☐ No

3. How prepared did you feel to teach VR/AR to your students and construction workers before the training session?

Scale your from 1 (Not at all prepared) to 5 (Very prepared)

SECTION 2 – Evaluation of the Training for Trainers

4. How would you rate the training experience you just completed?

Scale your from 1 (Not at all satisfactory) to 5 (Very satisfactory)

5. What aspects of the training session did you find most interesting?

6. What actions should be taken to help you improve your digital skills?

- Increased continuing education opportunities
- Creation of a network of trainers to share experiences and best practices
- Increased access to digital training tools
- Other: _____

TEXIVOS – Training VR/AR in Vocational Schools - No.2360859
T4 Extra Methodology testing and creation of the course

7. What practical tools or methodologies would you need to feel more confident teaching digital technologies?

SECTION 3 – Applications and Contents

8. Which teaching method do you think is most effective for teaching digital technologies in the construction sector?

- Theoretical approach with lectures
- Practical approach with demonstrators and real-world simulations
- Experiential learning with case studies and real-world projects

9. Do you think the use of demonstrators, real-world simulations, and practical tools is most effective for overcoming barriers to digitalisation in the construction sector?

☐ Yes
☐ No
☐ Don't know

10. What are the most common obstacles you encounter when discussing digitalisation with companies or students?

11. Do you think VR/AR can bring younger generations into the construction industry?

☐ Yes
☐ No
☐ Don't know

TEXIVOS: data collection – the traditional way

Consolidated answers from the questionnaire to learners: exemplary feedback

Questions	Consolidated answers
Prior knowledge of virtual reality / augmented reality (VR/AR)	Most of the participants had already heard of VR/AR , in contexts such as video games, architecture and medicine. Some had also had first-hand experience with augmented reality applications in the construction industry.
Previous training on virtual reality / augmented reality (VR/AR)	Most of the participants did not do any specific training on VR/AR before the course offered by TEXIVOS. Some felt poorly prepared, while others had a basic understanding through personal or professional experience.
Course feedback	The course was generally considered satisfactory . The most interesting aspects were the practical part, the use of digital tools and the opportunity to compare yourself with other trainers. Some participants suggested increasing the duration of the course and including more practical examples.
Tips for increasing digital skills	Participants suggested several strategies to increase digital skills , including: 1. More opportunities for lifelong learning 2. A network of trainers to engage with 3. More digital teaching tools 4. Greater integration of digital technologies into school curricula.
Practical tools and methodologies	The most requested practical tools and methodologies include: 1. Practical lessons with simulations and real cases 2. Experiential learning with case studies and real projects 3. The use of digital platforms for sharing materials and resources.

TEXIVOS: data collection – the traditional way

Consolidated answers from the questionnaire to learners: exemplary feedback

Questions	Consolidated answers
Best methods to teach digital technologies in the construction industry	The methods considered most effective are: 1. Practical lessons with simulations and real cases 2. Experiential learning with case studies and real projects 3. The use of interactive digital tools. Theoretical lectures are considered less effective if not integrated with practical activities.
Role of demonstrators, simulations and practical tools	Most participants believe that demonstrators, simulations and practical tools are key to overcome barriers to digitalisation in the construction sector. These tools help make abstract concepts more tangible and understandable. The consortium derived that they are always welcome no matter the type of learning experience offered (if in presence or remote or hybrid or physical + VR/AR).
Resistance to digitalization	The most common resistances to digitalization include: 1. The lack of basic digital skills 2. The fear of change 3. The lack of economic resources to invest in new technologies 4. The perception that digital technologies are complex and difficult to use.
Virtual reality / Augmented reality (VR/AR) and the younger generations	Most participants believe that VR/AR can bring the younger generation closer to the construction industry, making work more attractive and innovative. VR/AR can also help bridge the gap between education and the needs of the labour market.

TEXIVOS: data collection empowered by AVANTI

AVANTI (R2M proprietary solution)



AVANTI <https://avantisolution.eu/> is an ecosystem of solutions for HR designed to evaluate and develop professional skills, currently under expansion.

The latest addition, currently undergoing validation tests, is the **Avanti Virtual Interviewer (AVI)**:

- **AI-based solution** that conducts interviews, typically on work-related subjects but configurable for other tasks as well.
- After acquiring a list of topics to explore (the CV of the interviewee is optional), **AVI interacts with the candidate either via text (chat mode) or voice**. Questions are continuously adapted based on the answers and the evolution of the interview.
- Designed to be **user-friendly and conduct interviews professionally**, attempting to prevent any discomfort for the candidate. **Capacity of detecting manipulation and cheating attempts** that may compromise the interview.

TEXIVOS: data collection –AVI

Phase 2: via AVI tool – key takeaways

- **Potential:** VR/XR is widely recognized as a **valuable tool** for enhancing teaching and student engagement, particularly in vocational and technical education like IIPLE.
- **Challenges:** initial **confusion or lack of familiarity** can be a barrier, but **structured training** effectively solves these issues and builds confidence.
- **Opportunities:** teachers are **eager to explore further applications** of VR/XR and integrate it into their curricula, but they ask to receive **ongoing support and resources**.
- **Psychological and pedagogical shift:** not surprisingly for a vocational school, participants declared a clear preference for **experiential, hands-on learning** rather than traditional theoretical approaches.
- **Safety and practical aspects:** VR/XR is seen as a **safe and practical** way to train in real-world scenarios, reducing risks associated with hands-on vocational training.

TEXIVOS: what's next?

Future initiatives might consider:

- Position the **Construction domain** (like safety and technical design at a construction site) **to a higher level of digitalization** starting already from learning experiences open to a varied audience (in terms of age, expertise, etc.)
- **Offer to people the chance to change mentality:**
 - **Young students** being involved in more engaging learning experiences
 - **Adult learners** approaching EdTech solutions and accept learning also via VR/XR tools
 - **Trainers & Teachers** learning to deliver nice contents via VR/XR tools as part of their daily activities
 - The **same SMEs** being open to integrate these and other digital tools in their activities
- Keep expanding the **EdTech sector** within the European TVETs ecosystem.

This is fully coherent with the national and EU strategies - [Union of Skills](#), etc.) and ongoing initiatives by leading organizations like [CEDEFOP](#), etc.

Thank you!





Skills for the Energy Transition: Strategies, Professions, and Projects



About



Skills Strategy for the Engineering Profession



Approach to Upskill Heating and Cooling Professionals



Living Example- Boosting Smart Building Competences



REHVA



Federation of
European Heating,
Ventilation and
Air Conditioning
Associations

is a professional
organisation
founded in **1963**
representing
120.000+
building services
engineers
from **24** countries





15 million technical & engineering workers in **today's EU workforce**

8 million job openings expected by 2035



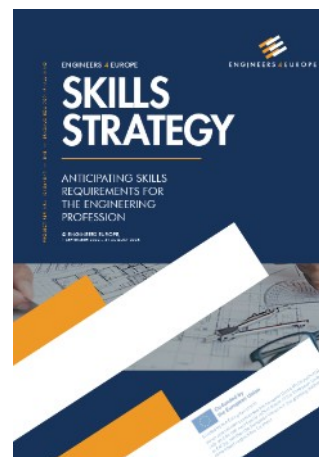
6 million replacements as current employees retire or leave

2 million new jobs driven by economic growth





ENGINEERS 4 EUROPE



Funded by the European Union.

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Demand is surging

Especially for **green-tech specialists** — as sustainability and digital megaprojects scale across Europe

Stronger image

The profession must sharpen its public image to lure wider talent pools

Lifelong learning

Only CPD and LLL keep skills globally competitive and future-proof



Adaptability Required

Roles mutate rapidly, so adaptability is non-negotiable

Curricula shift

Curricula need a hard pivot to competency-based learning and outcome-driven assessment

Interdisciplinary edge

Interdisciplinary collaboration and an entrepreneurial mindset rank alongside math and physics

Who needs to do what by 2030?



Professional Orgs.

Foster entrepreneurial & interdisciplinary mindsets, lifelong learning, cross-border certification, policy advocacy, and EU-wide knowledge-sharing.



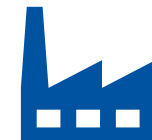
Policy Makers

Reignite youth interest in STEM, fund HEI & VET modernisation, ease mobility with visas/scholarships/talent platforms, and promote green & digital skills nationwide.



HEI and VET providers

Embed SDGs & digital/green competences, expand micro-credentials & apprenticeships, integrate entrepreneurship, and co-create programs with industry.



Industry

Co-design curricula, offer apprenticeships & mentorship, invest in upskilling, retain senior talent, and diversify recruitment to close skills gaps.



3-year Erasmus+ Alliance for Innovation project



www.repowerregions.eu

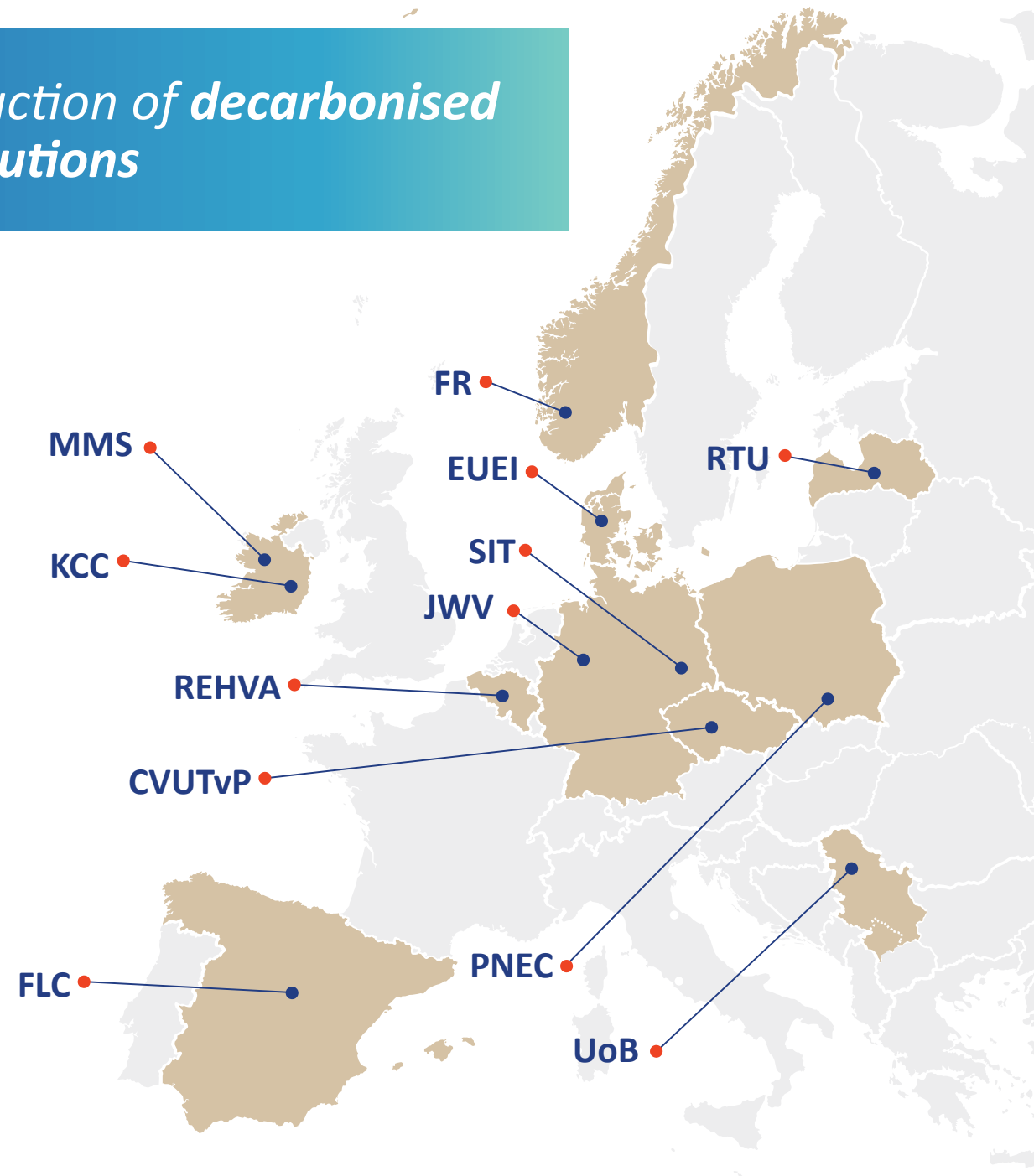


Co-funded by
the European Union



OUR PARTNERSHIP

- Kildare County Council (KCC)
- FUNDACIÓN LABORAL DE LA CONSTRUCCIÓN (FLC)
- RIGAS TEHNISKA UNIVERSITATE (RTU)
- CESKE VYSOKE UCENI TECHNICKE V PRAZE (CVUTvP)
- European E-learning Institute (EUEI)
- Steinbeis School of Sustainable Innovation and Transformation (SIT)
- MOMENTUM MARKETING SERVICES Ltd. (MMS)
- Stowarzyszenie Gmin Polska Sieć „Energie Cités” (PNEC)
- Jaske & Wolf Verfahrenstechnik (JWV)
- Fagskolen Rogaland (FR)
- University of Belgrade – Faculty of Mechanical Engineering (UoB)
- REHVA – Federation of European Heating, Ventilation & Air Conditioning Associations (REHVA)



01

INTRODUCTION



Key Objectives



1

Deliver innovative and up-to-date curricular & training methods.

2

Improve access to high-quality training in sustainable heating and cooling systems.

3

Create Regional Alliances for skills development in the energy transition.



02

PHASES





Phase 1 - Knowledge Sharing

2025

Build the foundation with shared insight



- Experts and educators **exchange real-world knowledge.**
- Case studies inform **local needs.**
- **Output:** a Landscape Analysis tailored to each region.

Phase 2 - Skills Development

2026

Train today's workforce for tomorrow's jobs



- **Create** flexible, EU-standard green **training** programs.
- **Micro-credentials** for workers; **toolkits** for trainers.
- **Output:** Free course + curriculum for universities & VET providers.





Phase 3 – Regional Collaboration

2027

Turn partnerships into long-term impact

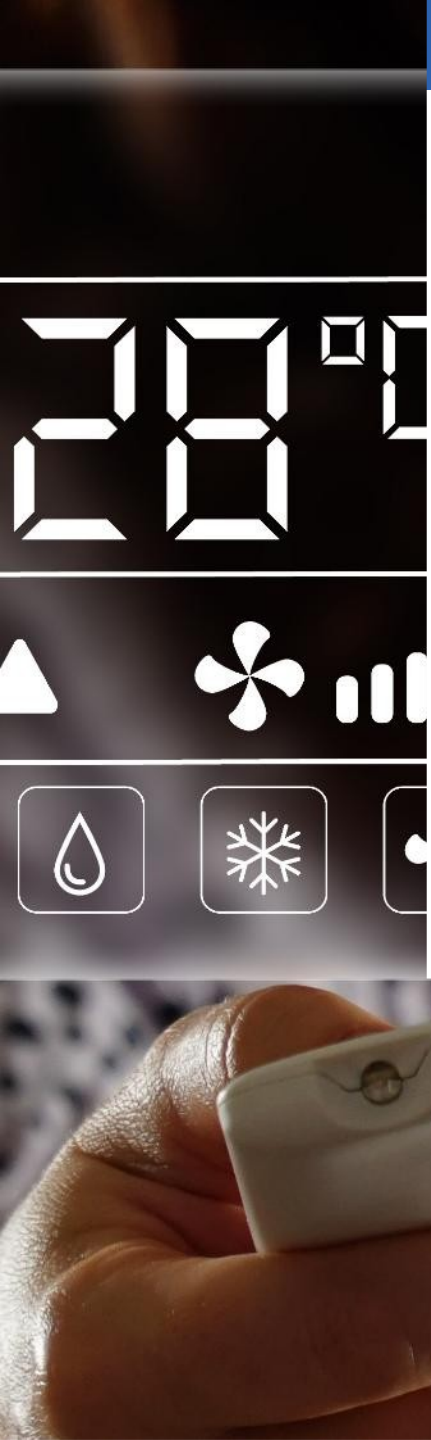


- **Create Repower Alliances** that last beyond the project.
- **Link industry, educators, and municipalities.**
- **Output:** Ongoing funding strategies and green innovation.

03

THE RESULTS





Key Results

- 01 Repower Regions Landscape Analysis Report
- 02 Repower Regions CVET curriculum
- 03 Repower Regions Online course
- 04 Repower Curriculum & Resources
- 05 Teachers' Guides & Toolkit
- 06 Regional Alliance Guidebook
- 07 8 Repower Regional Alliances
- 08 8 Repower Regional Funding Strategies
- 09 8 National Outreach Events



Follow our journey



www.repowerregions.eu



Co-funded by
the European Union

SMART

READINESS

VIRTUAL TRAINING CENTRE



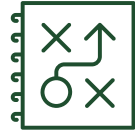
Future-proof your expertise!

Stay ahead of the curve and gain a competitive edge in the evolving landscape of **smart building practices.**

MAIN FEATURES



Self-paced



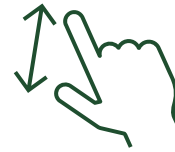
Practice-based



Accredited



Modular



Interactive



Responsive
Moodle App





Effective learning strategies

8-hour, structured, progress-saving
content Unlimited-attempt **quizzes**
Realistic problem-based **exercises**

COURSE BLUEPRINT

MODULE

S

Smart Readiness Functions

1

Assess the readiness of the building at different levels within each technical domain's smart-ready services.

Smart Readiness Assessment

2

Conduct the smart readiness assessments, through a systematic audit of a building.

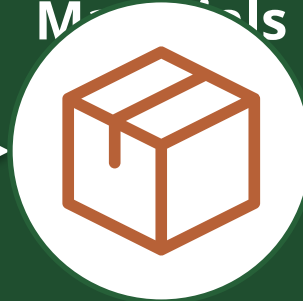
Accreditation

3

Verify the building's performance against the abilities learned through the course in a real-life scenario.

Smart Readiness Functions

Theoretic
al
Models



Quiz



Badge



Smart
Readiness
Explorer

Assess
functioning levels
within each technical
domain's smart-ready
services.

Smart Readiness Assessment

2

assessments, through a
systematic audit of a
building.

Theoretic
al
Models



Quiz



Practic
e
Exercises



Badge



Smart
Readiness
Assessor

Accreditation



...the
abilities learned
through the course in a
real-life scenario.

Applicati
on
Exercise



Diplom



Credentia





Engagement & Collaboration

Dissemination of policy **updates** and **news**
Participatory community **forum**
Continuous re-evaluation and **feedback**



VARIOUS —RESOURCES—

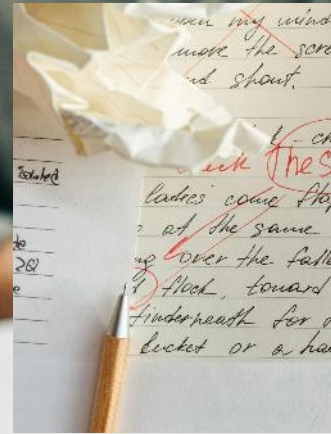
NEWS & UPDATES

- Centralised hub for important **announcements, course updates**, and **news** from the world of smart-ready buildings.
- Managed by the **course instructors**.



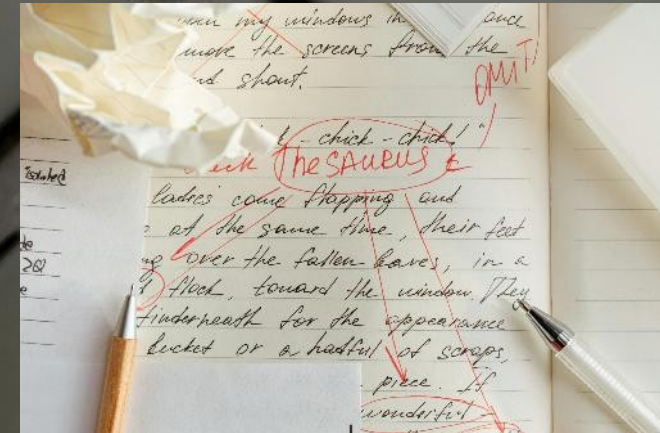
COMMUNITY FORUM

- Go-to space for **collaboration**, **knowledge-sharing**, and **networking** with fellow learners and experts in smart-ready buildings.



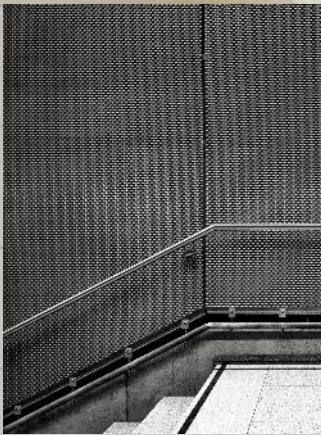
GLOSSARY

- List of **acronyms**, **abbreviations** and **definitions** used in the modules composing the syllabus of the course.



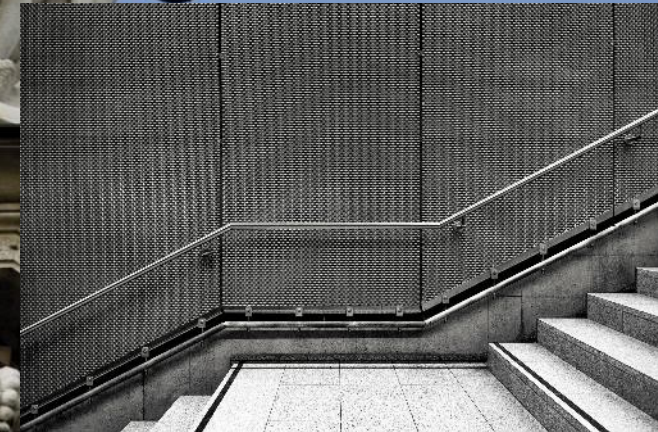
SPOT & REPORT

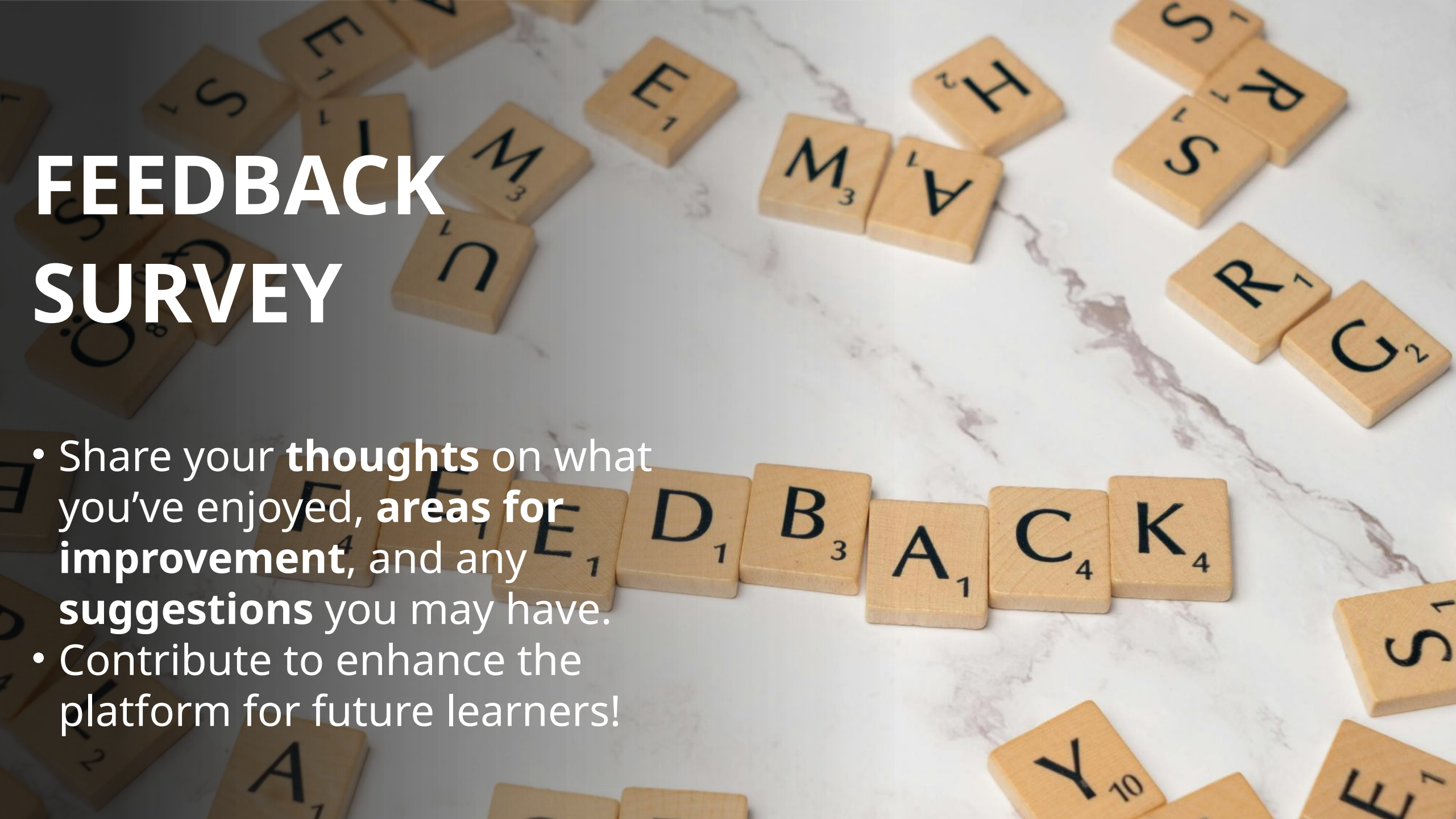
- Contribute to maintain the highest quality of learning materials by reporting any errors you encounter, such as **typos, inaccuracies, or outdated information.**



REGULATORY FRAMEWORK

- Familiarise yourself with the regulatory framework for smart-ready buildings.
- Learn about the key provisions as established by **the Energy Performance of Buildings Directive**.



The background of the slide is a close-up photograph of various wooden Scrabble tiles scattered on a white marble surface with grey veining. Some tiles are arranged in a horizontal line in the lower center, spelling out 'F E E D B A C K'. Other tiles are scattered around, showing letters like S, R, G, H, M, A, U, Y, and E. The lighting is soft, creating gentle shadows.

FEEDBACK SURVEY

- Share your **thoughts** on what you've enjoyed, **areas for improvement**, and any **suggestions** you may have.
- Contribute to enhance the platform for future learners!

Make the smart move **Start today!**



"Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or European Climate, Infrastructure and Environment Executive Agency (CINEA). Neither the European Union nor the granting authority can be held responsible for them"

<https://smartreadiness-training.eu/>



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Are you new?

For full access to this site, you first need to create an account.

Create new account



SCAN ME

SMART²

Welcome!

Login with your username and password, or other services

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pcm@rehva.eu

Password

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Log in

English (en) ▾

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[New course](#)[Manage courses](#)

Course overview

All ▾

Sort by course name ▾

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Smart Readiness of Buildings

Take the lead and future-proof your expertise – enroll today!

Cursos

16%



Smart Readiness degli Edifici

Prendi l'iniziativa e rendi le tue competenze a prova di futuro – iscriviti oggi stesso!

Hidden from students

Cursos

0%



Εξυπνη ετοιμότητα των κτιρίων

Αναλάβετε τα ηνία και εξασφαλίστε το μέλλον της ειδικότητάς σας – εγγραφείτε σήμερα!

Hidden from students

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0%

Coming soon in other languages!



SCAN ME

Thank you!



Pablo Carnero - pcm@rehva.eu
Technical EU Project Officer







EU wide network of Testing facilities & Innovation services for new
building envelope technologies & products

Pushing on Skills: Training Innovation Assistants for the Green Transition in Construction

The STAR*track & Metabuilding Labs Approach

Germain ADELL – Metabuilding ASBL General Director

08/10/2025



METABUILDING LABS Project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement No. 953193. The sole responsibility for the content of this document lies entirely with the author's view. The European Commission is not responsible for any use that may be made of the information it contains.

Our OITB ecosystem



RISE
Bor s
SWEDEN



BAM
Berlin
GERMANY



ITB
Warsaw
POLAND



EMI
Szentendre
HUNGARY



BUILDWISE
Limette
BELGIUM



LIST / NEOBUILD
Bettermbourg
LUXEMBOURG



U. of GALWAY
Galway
IRELAND



NOBATEK / INEF4
Anglet
FRANCE



IDONIAL
Gij n
SPAIN



CARTIF
Boecillo
SPAIN



AIT
Vienna
AUSTRIA



TEKNIKER
Eibar
SPAIN



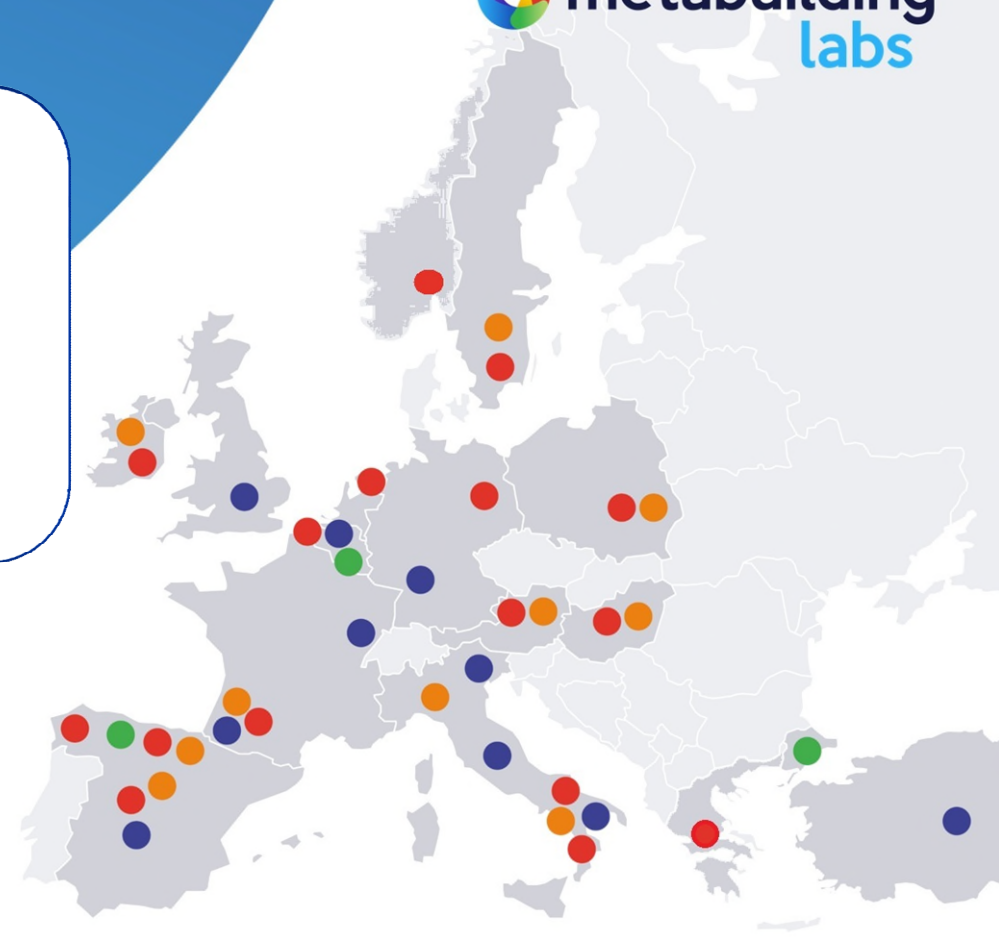
UNIRC
Reggio Calabria
ITALY



STRESS
Benevento
ITALY



UPV / EHU
Vitoria
SPAIN



- Orange dot: O3BET replication
- Green dot: Living Labs
- Blue dot: Clusters & dissemination point
- Red dot: Testing Infrastructure

Metabuilding Labs 5 highlights in Autumn 2025



1. **Our ecosystem grows:** 40+ project partners; 20+ Metabuilding association members (3 external to project) ; Built4People Innovation Clusters network is over 35 clusters
2. **Our Digital Open Innovation Platform**
metabuilding.com now handles a pilot buildings module and Digital Product Passports...
3. **Our management entity** *Metabuilding ASBL* in Brussels has a new Board of Administrators with 12 members
4. **Our new Affiliate Membership tier** will launch soon, every stakeholder in the value chain will be able to join the association!
5. **Our 7 O3BET innovative testbenches** are being built, some are already finished

Our extended ecosystem



New ASBL members:



B4PIC network: state of play

The current B4PIC Network geographical coverage

Emerging B4PICs

- Innovation 4 Society (Brussels)
- Green NET Finland (Helsinki)
- Archenerg International (Szeged)
- BUILT CoLAB (Porto)
- Novabuild (Nantes)
- Odéys (Bordeaux)
- NEB Forum BiH (Sarajevo)
- E-CODOMH (Schimattari)

- BUILD:INN (Bilbao)
- iCONS (Pamplona)
- Galicia Construction Cluster (Santiago de Compostela)
- Galician Wood and Design Cluster (Santiago de Compostela)
- AEICE Cluster Habitat Eficiente (Valladolid)
- Association of Balkan Eco-Innovation (Novi Sad)
- Clust-ER BUILD (Bologna)
- Habitech (Rovereto)
- STRESS (Naples)
- Venetian Green Building Cluster (Venice)

Prospective B4PICs

- We Build Denmark (Albertslund)
- Slovenian Innovation Construction Cluster (Ljubljana)

+ 15 new clusters!



Also, already
+ 400 registered
organisations &
+ 1300 users in
metabuilding.com
+ 200 SMEs!



The B4PIC Charter contents



1. Whole Built Environment ecosystem:

- Clusters must involve various stakeholders across the entire built environment value chain, from materials and construction to building use and renovation.

2. Multi-objectives:

- Clusters need to address diverse goals, including scientific (holistic innovation), economic (decarbonisation), and societal (behavioural change) objectives.

3. Cross-sectoral:

- Collaboration extends beyond traditional sectors to include a wide range of disciplines, fostering interdisciplinary approaches to innovation.

4. Locally anchored with national and European outreach:

- Clusters have a local foundation and focus but also connect to national and European networks and policies to broaden their impact.

5. Cross-border:

- Collaboration and exchange of good practices occur across different countries, facilitating the adoption of innovative solutions in diverse contexts.

6. Access to testbeds and demonstration spaces:

- Clusters must have the ability to test and showcase new solutions and approaches, enabling demonstration of their effectiveness and feasibility.

A Human-Centric, Two-Tiered Support System



We have designed a support ecosystem that combines powerful infrastructure with skilled human guidance. It relies on two key roles:

- **The Innovation Assistant:** Based at a local innovation cluster, they are the first point of contact. Their function is needs assessment, system navigation, and brokerage.
- **The Innovation Coach:** An expert engineer within a Research & Technology Organisation (RTO), they provide in-depth technical execution, testing, and validation.

This model ensures efficiency, reserving deep technical expertise for targeted, expert direct demands or qualified, high-potential innovations.

A Local Navigator for European Resources

- **Mandate:** To act as a proactive "on-ramping agent" and trusted guide for SMEs within their regional ecosystem.
- **Core Functions:** A clear workflow of Triage -> Needs Assessment -> Navigation -> Brokerage.
- **Profile:** They are not scientists, but skilled "technical translators" with strong communication, project management, and digital platform proficiency. They bridge the gap between the SME and the expert.

The 5 days "Star*Track Certified Innovation Assistant" Training programme



Core Curriculum: Mastering the Three Pillars of Support

The training is structured to mirror the Assistant's real-world workflow:

- 1. Understanding the Ecosystem (Day 1):** Grasping the strategic context of the Built4People Partnership, the Metabuilding Labs OITB, and the complete SME innovation journey.
- 2. Mastering the Tools (Days 2-4):** Gaining proficiency in the core digital and analytical instruments for assessment and matchmaking.
- 3. Mastering the Process (Day 5):** Practicing the client-facing skills for effective SME engagement, from the first interview to a successful hand-off to an Innovation Coach.

Key Tool 1: The Construction-Specific TRL Scale



- The training provides mastery of the Technology Readiness Level (TRL) scale adapted by Metabuilding Labs specifically for the construction sector.
- This tool moves beyond a simple technology assessment to include criteria across eight categories, including **manufacturing, market, environmental, and regulatory readiness.**
- It enables the Assistant to conduct a standardized, holistic needs assessment, accurately pinpointing an SME's innovation maturity and identifying the next steps needed to advance.

Our Construction sector adapted TRL scale (proposal version)

	1	2	3	4	5	6	7	8	9
Common definition	Fundamental research	Technological research			Product demonstration				Manufacturing
	Basic principles observed	Technology concept formulated	Experimental proof of concept	Technology validated in lab	Technology validated in relevant environment	Technology demonstrated in relevant environment	System prototype demonstration in operational environment	System complete and qualified	Actual system proven in operational environment
metabuilding labs	- Check current building envelope solutions & technical literature - Building & cross sectorial technology watch - Building sector experience & expertise. - Scientific knowledge	- First ideas and concepts formulated - Commercial targets defined and interest from actors - Regulation issues, opportunities & limits - Global technical specifications defined - First basic CAD models - Materials / products bases - First approach of environmental issues - Patent strategy, patent search on the concept	- Detailed description of the concept / solution - Basic CAD technical models - First mock-ups, "ugly" prototypes - Detailed patent filed - Market & regulation specs - Technical validation with builders, engineers & users/installers - First simulations, basic screen tests - Global certification, marking strategy - First partners search - First LCA approach	- Detailed description of solution at component level. - Integral & lab scale mock-ups - Tested/validated in LABS (focus on regulatory characteristics) - Screen lab tests, standardized or not. - Detailed simulations & validation of performances - LCA with measured performances - Supply chain & integrated components foreseen	- Detailed CAD models of components & assemblies - First detailed BIM models - Real scale prototype built in WORKSHOP and validated by installers & architects. - Feedback from end-users - Industrial fabrication process approached - LCA completed with fabrication process vision	- Real scale prototype performances validated in TEST BENCHES. - First regulatory tests compliance performed on completed prototypes - BIM model with integration on a built environment	- Finalized design performed with end-users, validated at operational scale in a PILOT BUILDING - BIM model in building's BIM - System integrated in technical building environment - Considered by all the design value chain - Implementation phases validated - Performances on site validated with significant measure period. - Relevant approvals	- System engineered to a industrialised solution for the building envelope market. - All partners defined. - All technologies, integrated components defined. - IPR, business model/plan validated	- Industrial scale-up, routine production lines & supply chains contracts. - Commercial targeting, product line-up and marketing positioning. - Commercial deals. - CE Mark (when needed)
						O3BET testing	Pilot buildings & Living Labs		9 + In market System broadly implemented, routine production - Industrial process optimized - Detailed LCA and official FDES - Environmental Technology Verification (ETV) - Relevant approvals and certifications

Our Construction sector adapted TRL scale (project version)

	1	2	3	4	5	6	7	8	9
Common definition	Fundamental research and Invention		Concept validation		Prototyping and incubation		Pilot demonstration and initial market introduction		Market expansion
	Basic principles observed and reported	Technology concept formulated	Experimental and analytical proof of concept	Components and/or system validated in lab environment	Similar system validated in relevant environment	Similar system demonstrated in relevant environment	Real scale prototype demonstrated in operational environment	System completed and qualified through test and demonstration	System proven over the full range of expected operational environment
	- Current building & cross sectoral solutions benchmarked including literature and patent review - Perceived need and main functional requirements qualitatively understood - Current scientific knowledge, building sector experience and relevant expertise identified	- Concept formulated with functional expectations - System concept illustrated with sketches and diagrams - Existing demand clarified and commercial targets defined - Cost of competitive solutions collected - Translation of market needs into functionalities - Environmental issues and goals - Regulatory issues, opportunities and limitations - Manufacturing process drafted - Patent and IPR strategies launched - Small research team and acquisition of new expertise	- Technology concept described listing its key components and potential scope of application - Technology and key components illustrated with a simplified level of detail (e.g. basic CAD models, mock-up) - Market feasibility of the concept - Listing of the key performance indicators essential to justify the value of the technology - Life Cycle Cost (LCC) approach initiated with Life cycle inventory (LCI) at components and materials level - Prediction validated with first analytical, experimental or numerical studies - Life Cycle Analysis (LCA) approach initiated with LCI at components and materials level - Listing of mandatory requirements to market the technology (e.g. identification of applicable harmonized European standards hEN) - Manufacturing feasibility of each key component validated - Research team expanded and search for partners and collaborative projects activated	- Detailed description of solution at component level - Key components including technical details are modelled through CAD models - All materials and technology components built separately - Expected functionalities are quantified through targeted values and a cost-performance model is established to support the value proposition - LCC assessment using simplified frameworks and assumptions - All materials and components are tested in lab environment - Numerical validation of the performances at system and component level - LCI is completed and LCA is initiated to identify the main contributors (hotspots) - Essential characteristics to be certificated and other requirements are identified - Testing and assessment development roadmap validated with relevant experts - Preliminary industrialization plan and supply chain developed - Experts and certification bodies consulted to validate and apply the development roadmap	- Full technology description integrating the components and their assemblies - Detailed CAD models of components, assemblies and system (BIM models) - Small parts and similar system built including some components assembling (fablab conditions) - Feedback from end-users collected - Sales and marketing plan developed - LCC assessment is completed and alternatives are proposed - All components and assemblies essential characteristics are collected or tested - Numerical simulated performances validated with experimental results on small parts and similar system in user environment - LCA assessment is completed and alternatives are proposed (ecodesign) - Testing and assessment development roadmap validated with relevant experts - Preliminary industrialization plan and supply chain developed - Experts and certification bodies consulted to validate and apply the development roadmap	- Technology description fully detailed including the interface with building - Detailed CAD model of the technology integrated on built environment - Engineering-scale models or prototypes - Performance guarantee strategy (based on models and experimental results) - Financial and Business Models Validated - Application of the LCC assessment to the prototype - Full system performances demonstrated in part of the intended scope through a real scale prototype in TEST BENCH or numerical simulations - Application of the LCA to the prototype - First regulatory tests compliance performed on completed prototypes - Product Technical file drafted - Development roadmap checklist updated including voluntary frameworks - Capability to produce a prototype system or subsystem in a production relevant environment - Consultation of the accredited or approved inspection or certification body required to obtain relevant approvals for real application	- Detailed description of the technology in its final version within a real environment - Detailed CAD model of the technology integrated on a pilot site (BIM model integrated) - Full-scale prototype integrated in a PILOT BUILDING - LCC Assessment applied to a PILOT BUILDING with measured performances - Validation of the acceptability and feasibility of the solution in a PILOT BUILDING - Performances validated for a PILOT BUILDING with significant measure period and performance guarantee strategy tested - LCA Assessment applied to a PILOT BUILDING with measured performances - Relevant approvals for application to an experimental PILOT BUILDING - Manufacturing of the product is now fully operational at low rate - Consultation of the accredited or approved inspection or certification bodies	- Technology description for commercial purpose - Generic BIM model of the system that can be embedded in building's BIM - Final form of the system fully implemented in PILOT BUILDINGS under expected conditions - Commissioning process - LCC completed with fabrication process vision - Market Introduction and commercial deals - System technical and non-technical key performances validated in at least three PILOT BUILDINGS - Environmental product declaration drafted (EPD - EN 15804) - Pilot line capability demonstrated with - Marketing actions to commercialise the technology	- Technical notice and success stories widely disseminated - Continuous quality process with performances and satisfaction monitoring - Market reached and refined commercial targeting, product range and marketing positioning - CE mark affixed and Declaration of Performance (DoP) - Revision and verification of the EPD by an independent recognized LCA expert - Relevant certifications and approvals obtained under the full scope of application - Full production launched and sustained

Key Tool 2: The OITB Service Catalogue & metabuilding.com Platform



- Assistants are trained on the back-end functionalities of the metabuilding.com platform, the Single-Entry Point to the entire Open Innovation Test Bed (OITB).
- They learn to navigate the **OITB's extensive catalogue** of (currently) over **749 testing services** across 13 countries to find the perfect technical solution for an SME's needs.
- This includes **searching for specific tests, checking facility availability, and analyzing expert profiles to match the SME with the testing services they need or the most appropriate Innovation Coach.**

From Training to Impact: Building a Community of Practice



The program's impact extends beyond the initial training week.

- **Accreditation:** Creates a recognized quality standard and a public registry of certified professionals, building trust in the network.
- **Community of Practice:** We will be establishing a permanent online forum for all certified Assistants to share best practices, ask for advice on complex cases, and provide direct feedback for system improvement.

This transforms a one-off training into a living, continuously learning network that amplifies the success of the entire ecosystem.

Conclusion: Building the Human Infrastructure for Innovation



The green transition in construction requires more than just new technologies; *it requires a skilled human network to connect innovators with the right resources.*

→ The STAR*track training program for the **Metabuilding Labs OITB** creates this vital network of local navigators, empowering regional SMEs to access world-class, pan-European expertise.

→ By "pushing on skills," we are building the human-centric support system around the **Built4People Innovation Clusters** across Europe that is needed to accelerate the next generation of sustainable solutions for the built environment.

Our New Affiliate Membership tier coming soon!

Your Gateway to Europe's Premier Built Environment Ecosystem



Is This Membership For You?

This tier is for forward-thinking organisations of all sizes within the European construction value chain, including:

- Ambitious SMEs & Contractors
- Innovative Architectural & Engineering Firms
- Cutting-edge Materials Suppliers
- Technology Startups poised for growth

Your Benefits: A Catalyst for Growth

- **Amplify Your Visibility:** Gain credibility with the "Metabuilding Affiliate Member" logo and a listing in our public Member Directory.
- **Gain Exclusive Intelligence:** Access a members-only hub with curated industry reports, market analysis, and strategic briefings.
- **Engage with Leaders:** Receive significant discounts on all Metabuilding conferences, workshops, and webinars to network with key decision-makers.
- **Unlock Opportunities:** Leverage our matchmaking platform to find project partners and be discovered by major industry players.
- **Accelerate Your R&D:** Get streamlined access to Metabuilding Labs services—including innovation coaching, testing, and certification—plus support for securing EU funding and joining R&D proposals.

A Simple Path to Partnership

An annual investment provides year-round access to all affiliate benefits.

- Affiliate - SME: €250 / year (For SMEs and SME-sized Associations)
- Affiliate - Corporate: €1,000 / year (For Medium and Large Companies)

This is a non-voting membership, allowing you to focus 100% on leveraging the ecosystem for your business growth.

Be the First in Line.

The official launch of the Metabuilding Affiliate Membership is just few weeks away.

By registering your interest today, you will be placed on our priority list. You will be the very first to receive the official invitation to join, securing your place in the ecosystem before the public announcement.

Don't miss this ground-floor opportunity to connect your business to the future of construction



Join the Metabuilding Association as Affiliate Member



Register in our innovation platform for free

Contact us: contact@metabuilding.com

Visit us at metabuilding.com



An Exclusive Preview for Sustainable Places 2025.



Connect. Innovate. Build.



Metabuilding Labs project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement No 953193.



As a leader shaping the future of the built environment, you understand that collaboration is the key to progress.

Metabuilding, Europe's premier innovation ecosystem for the construction sector, is excited to offer you, the insiders and innovators at Sustainable Places 2025, an exclusive preview of our next major evolution: the **Metabuilding Affiliate Membership** tier.

This is a new tier designed for the dynamic companies that drive our industry forward. At present, our association is made exclusively of testing facility operators and governance organisations. However, requests from industry have led us to understand that companies and associations want access to the brand and body of knowledge being constructed every day – so we are adapting.

The official launch is just weeks away, but we are giving you the first opportunity to be part of it.

Your Exclusive Advantage: A Glimpse of What Awaits

Becoming a **Metabuilding Affiliate Member** places your organization at the heart of European construction innovation. This new, accessible tier is designed to deliver tangible value and a direct catalyst for growth.

As a future member, you will be able to:

- **Elevate Your Profile:** Gain instant credibility with the official Metabuilding affiliation and increase your visibility through our exclusive European member directory.
- **Access Insider Intelligence:** Tap into a members-only hub of market analysis, strategic reports, and curated insights that will keep you ahead of the curve.
- **Connect with the Community:** Enjoy privileged access and discounts for our high-level conferences, workshops, and networking events, putting you in the room with key decision-makers.
- **Forge Strategic Partnerships:** Leverage our powerful digital platform, metabuilding.com, to find project collaborators, discover new clients, and be found by major industry players seeking your expertise.
- **Supercharge Your Innovation:** Get streamlined access to the **Metabuilding Labs** Technical Services Network. Benefit from innovation coaching, world-class testing and certification services, and receive expert support to secure EU funding and join collaborative R&D proposals.



Thank you for your kind attention

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