

Presentation of the results of the BUILDING MATTERS project

BUILDING MATTERS: Reducing the risks of the construction sector in the transition to climate change by building capacity in sustainable building materials.

Grant Agreement No: 2022-1-RO01-KA220-VET-000087398

Ljubljana, Chamber of Commerce and Industry, 11 September 2024

1



Gospodarska
zbornica
Slovenije
Zbornica gradbeništva in
industrije gradbenega materiala



BZB
Bildungszentren des
Baugewerbes e.V.



**BUILDING
MATTERS**
sustainability in the construction sector



Sofinancira
Evropska unija

Partners

- PP - Federația Generală a Sindicatelor (General Federation of Trade Unions) FAMILIA , Romania
- P1 - Pedmede Somateio, Greece
- P2 - Slovenian Chamber of Commerce and Industry - ZGIGM, Slovenia
- P3 - K&S Knowledge and Skills Management Centre Skopje, Macedonia
- P4 - Bildungszentren des Baugewerbes, Germany
- P5 - Istituto per l'istruzione professionale dei lavoratori edili della provincia di Bologna, Italy
- P6 - Pedmede Eco, Greece

THE PROJECT AT A GLANCE

- **Sector:** Vocational and educational training
- **Area:** KA220-VET, Partnership for cooperation in vocational education and training
- **Top priority:** Environment and combating climate change
- **Additional priorities:**
 - Making VET more attractive
 - Adapting vocational education and training to labour market needs
- **Implementation period:** 01.10.2022-30.09.2024
- **Website:** www.buildingmatters.eu

Aim

- Support awareness-raising among key stakeholders on sustainable pathways to mitigate risks for the climate change transition in the construction sector. The project foresees the development of green sector skills and competences in sustainable building materials through the introduction of forward-looking and innovative curricula and learning practices tailored to the needs of the learners, which will enable sustainable changes in their behaviour in line with the New European Bauhaus initiative.
- Raising awareness and addressing the need for green skills and competences related to the use of materials in construction and better preparing VET providers to adapt their training offer to changing skills needs, green and digital transitions and economic cycles.

Objectives

5

- ▶ Ecosystem stakeholders should reorient their mindsets, operations, business models and capacities towards environmentally friendly trends.
- ▶ Create regional, local, national and transnational alliances for sustainable building materials by facilitating knowledge transfer, closer cooperation and joint actions between all key stakeholders.
- ▶ To explore sustainable solutions for building materials in response to the emerging materials and price crises facing the sector.
- ▶ Promoting the adoption of sustainable mindsets, behaviours and approaches to reduce the risks of climate change transition in the construction sector.
- ▶ Develop training activities to strengthen green competences in sustainable decision-making in construction projects and to implement strategies for materials that reduce life-cycle carbon emissions, which together will reduce energy demand and emissions.
- ▶ help modernise the VET sector to adapt to trends and green labour market needs for sectoral competences.
- ▶ Create a new business model in the construction ecosystem by promoting sustainability thinking and enabling the effective adoption of sustainability tools, approaches and practices.

The main results of our content activities

➤ **WORK PACKAGE 2:**

- Methodology of work
- A documentary study on European sustainable approaches to buildings and building materials
- A document with recommendations to strengthen the link between vocational education and training, academia and the construction industry to identify the best opportunities for sustainable building materials.
- Transnational report with key findings
- Transnational Training Package Toolkit

➤ **WORK PACKAGE 3:**

- Methodology of work
- Vocational education and training curricula
- Training Toolkit (manual)
- Platform for e-learning
- SWOT analysis

➤ **WORK PACKAGE 4:**

- Methodology of work
- Work plan for presentation sessions/lists on sustainable building materials
- Profile of participants in VET webinars and profile of target groups reached by the campaigns
- SWOT analysis

Benefits

- ▶ Creating transnational alliances for sustainable building materials by facilitating transnational knowledge transfer, stronger cooperation and joint actions between all key stakeholders and the VET sector.
- ▶ Increasing the efficiency of transnational work and work across sectors and industries.
- ▶ It offers experience for sharing good practices used in EU Member States.

Target groups

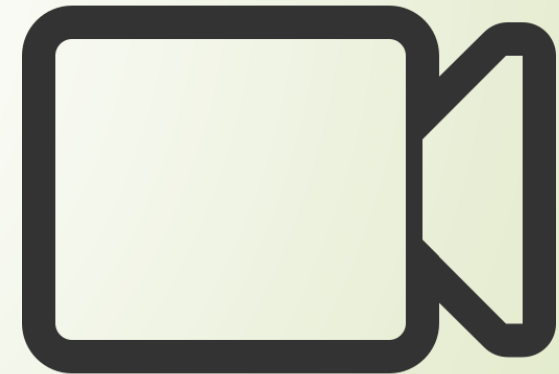
- ▶ Direct beneficiaries/end-users of training programmes:
 - Construction project team members, building/construction contractors, construction professionals,
 - building designers and planners,
 - Construction entrepreneurs, young and female construction entrepreneurs, individual contractors,
 - construction professionals,
 - procurement experts and public procurement specialists.

Expected impact at local/regional/national and EU level

- ▶ Contributing to the implementation of the new European Green Deal and the EU Bauhaus initiative.
- ▶ Raising awareness of sustainable decision-making in construction projects among a growing number of key stakeholders in the construction sector, familiarising them with life cycle assessment (LCA) and life cycle costing (LCC) approaches, and with key EU tools promoting the sustainable use of construction materials.
- ▶ Raising awareness of the carbon, energy and ecological footprint of building materials and the environmental aspects of building materials, to encourage the construction industry towards sustainable solutions.
- ▶ To develop the sustainability competences of VET students and to support the planned approaches of the participating organisations in the field of environmental sustainability, in line with the New European Bauhaus initiative.

RESULTS

- **Establishing a transnational LMS:**
LEARNING PLATFORM: www.buildingmatterslearning.org
- Video 1: Environmental aspect of building materials - [SI](#)
- Video 2: Life cycle assessment of building materials - [SI](#)
- Video 3: EU standards and labelling of construction materials - [SI](#)
- Video 4: Awareness of new sustainable building materials - [SI](#)



More about the platform



2. Gradbeni sektor je eden glavnih virov emisij toplogrednih plinov, ki prispevajo k podnebnim spremembam. V tem sektorju se v veliki meri uporabljajo surovine, kemični postopki, energija in oprema, kar prispeva k ___ emisijam toplogrednih plinov. * 0 točk

- a. 40%
- b. 45%
- c. 75%
- d. 50%

3. Kateri od naslednjih sektorjev ima največji delež pri nastajanju odpadkov v gradbeništvu? * 0 točk

- a. Odlagališče odpadkov
- b. Jeklo
- c. Mavčne plošče
- d. Steklo

4. Akademski krogi, industrija in organizacije nenehno raziskujejo, da bi vzpostavili okvir za stavbe v celotni življenjski dobi. * 0 točk

- a. Odtis izdelka
- b. Ogljčni odtis
- c. Delni ogljik
- d. Smernice o ogljikovem dioksidu

5. Koncept ničelnega neto ogljika se lahko uporablja v naslednjih sektorjih in vrstah stavb: * 0 točk

- a. Stanovanjski in nestanovanjski
- b. Novi ali obstoječi
- c. Stavbe v gostih mestnih okoljih z omejeno zmogljivostjo obnovljivih virov energije na kraju samem.
- d. Vse našteto

Funded by the European Union

BUILDING MATTERS

POMEMBNOST GRADNJE:
Ublažitev tveganja prehoda zaradi podnebnih sprememb v gradbenem sektorju skozi krepitev zmogljivosti na področju trajnostnih gradbenih materialov

Sporazum o nepovratnih sredstvih: 2022-1-RO01-KA220-VET-000087398

DELOVNI PAKET 3. Uporaba svežnja znanja o trajnostnih gradbenih materialih

A. 3. 1. Razvoj učnih načrtov za trajnostne gradbene materiale

PRIPOMOČEK

Izdaja 11.2023

IZJAVA O ODGOVORNOSTI
"Podpora Evropske komisije za pripravo te publikacije ne pomeni, da je vsebina potrjena, saj odraža le stališča avtorjev, nacionalna agencija in Komisija pa nista odgovorni za kakršno koli uporabo informacij iz te publikacije."

Module 1

Environmental aspects of building materials



Module 1 "Environmental aspects of building materials" consists of the following topics:

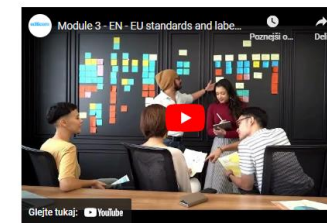
- Topic 1 - The impact of construction industries: Environmental impact of construction activities;
- Topic 2 - Carbon production in building materials manufacturing: Carbon footprint of building materials and databases;
- Topic 3 - Embodied energy of building materials: Parameters and analysis of Embodied energy. Databases of Embodied energy of building materials;

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SELF-ASSESSMENT FORM

Module 3

EU standards and labelling of building materials



Module 3 "EU standards and labelling of building materials" consists of the following topics:

- Topic 1 - The role of green building materials in green procurement processes;
- Topic 2 - ECO Labelling concept and types of ecolabels;
- Topic 3 - EU standards for ECO Labelling and legal framework and EU Ecolabel;

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Module 2

Life Cycle Assessment of building materials



Module 2 "Life Cycle Assessment of building materials" consists of the following topics:

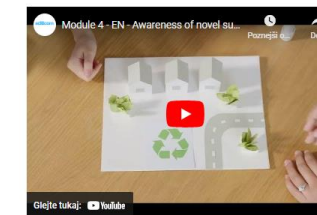
- Topic 1 - Life Cycle Thinking for building materials;
- Topic 2 - Life Cycle Costing approaches;
- Topic 3 - Building design and material selection;

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Module 4

Awareness of novel sustainable building material



Module 4 "Awareness of novel sustainable building materials" consists of the following topics:

- Topic 1 - Material Selection criteria
- Topic 2 - Novel sustainable building materials
- Topic 3 - Environmental management and strategies for building material reuse and recycle

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SELF-ASSESSMENT FORM

www.buildingmatterslearning.org

10/8/2024

Social media

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[BUILDING MATTERS LINKEDIN](#)

THANK YOU FOR YOUR ATTENTION!

QUESTIONS, COMMENTS OR FUTURE ACTIVITIES?

Send us your suggestions to our e-mail address: zgigm@gzs.si

THE IMPORTANCE OF CONSTRUCTION. ERASMUS+ grant agreement: 2022-1-RO01-KA220-VET-000087398



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