

26-27 MARCH 2025

Prosperity through Diversity

CAPITALISATION WORKSHOP

Boosting Knowledge
and Competitiveness
in the Danube Region

Circular DigiBuild

„Boosting the uptake of emerging technologies in circular economy implementation in construction and buildings industry in Danube region to sustainably harness the twin transition for greener future.“

Katarína Gavalcová
Slovak Business Agency

Interreg
Danube Region



Co-funded by
the European Union


Circular DigiBuild

Projekt Circular DigiBuild

ID: DRP0200309 – Circular DigiBuild

Interreg Danube Region

Name of the project: *Boosting the uptake of emerging technologies in circular economy implementation in construction and buildings industry in Danube region to sustainably harness the tween transition for greener future*

Programme priority 1. - A more competitive and smarter Danube Region

Specific objective: 1.1 - Enhancing innovation and technology transfer in Danube region

Duration: 30 months (01.01.2024 - 30.06.2026)

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Project Partners

- Business Agency Association – BAA (BG) – vedúci partner
- ReCheck (BG)
- Austria Wirtschaftsservice – AWS (AT)
- Active Hof University of applied sciences Deutschland – HSH (DE)
- Institute of Circular Economy Česko – INCIEN (CZ)
- Slovak Business Agency – SBA (SK)
- University of Ljubljana – UL (SI)
- Chamber of Commerce and Industry of Pécs-Baranya – PBKIK (HU)
- INSTITUTE FOR RESEARCH IN CIRCULAR ECONOMY AND ENVIRONMENT „ERNEST LUPAN” – IRCEM (RO)
- REGIONAL DEVELOPMENT AGENCY FOR WEST REGION – ADRVEST (RO)
- Sarajevo Economic Region Development Agency – SERDA (BA)
- Science and Technology Park Novi Sad – STP NS (SR)
- Zero Waste Montenegro – ZWMNE (ME)
- TERA TEHNOPOLIS, ltd for promoting new technologies, innovations and entrepreneurship – TERA (HR)
- Innovation Centre Nikola Tesla – ICENT (HR)
- Business Advisory Center NGO – BAC (MD)
- European digital innovation hub in construction sector – EDIHCS (BG)
- Vangavis – VNG (BG)



Strategic Associate Partners

- Ministry of regional development and public works (BG)
- Ministry of economy and industry (BG)
- Bulgarian industrial association (BG)
- Ministry for Climate Action, Environment, Energy, Mobility, Innovation and Technology (AT)
- Chamber of Industry and Commerce for Upper Franconia Bayreuth (DE)
- Bayern Innovativ – Bayerische Gesellschaft für Innovation und Wissenstransfer mbH (DE)
- Administrative District Hof (DE)
- Ministry of Industry and Trade, Department of Construction and Building Materials (CZ)
- Czech Green Building Council (CZGBC) (CZ)
- Czech Technical University in Prague – University Centre for Energy Efficient Buildings (CZ)
- Circular Slovakia (SK)
- Ministry of digital transformation (SI)
- Cluster of Applied Earth Sciences (HU)
- Alba Iulia City Hall (RO)
- Authority for Digitalization of Romania (RO)
- Ministry of economy of Canton Sarajevo (BA)
- Provincial Secretariat for Regional Development, Interregional Cooperation and Local Self-Government (RS)
- Environment protection Agency of Montenegro (ME)
- Public Institution Development Agency of Osijek- Baranja County (HR)
- Ministry of Regional Development and EU Funds (HR)



Slovakia



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MINISTRY
OF ENVIRONMENT
OF THE SLOVAK REPUBLIC



**Circular
Slovakia**

Platforma pre obehové
hospodárstvo

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Objectives of the project

- Strengthening **COOPERATION** in the Danube region to promote a circular economy in the construction sector and to improve related policy and legislative measures.
- Assessing current **KNOWLEDGE** and innovation in new technologies for the construction sector based on circular economy principles.
- **CHANGE** framework conditions for the introduction of circular measures in the construction sector and related innovations in waste management and support the introduction of advanced technologies throughout the Danube region.

The aim of the project is to support the implementation of innovative and sustainable practices in the construction industry through digital innovation and the concept of circular economy. We want to develop new strategies, action plans and strengthen the legislative framework in the Danube region.

Available outputs



Boosting Regional Innovation Ecosystems Cooperation in Danube area - Construction, Circular Economy and Digitalisation – territorial analysis

There is a huge disparity in the level of preparedness and implementation both of digitalisation and CE solutions implemented in construction and building industries across DANUBE countries.

An effective opportunity is to harness the inventive power of the Danube pioneer countries to commonly design and produce solutions (and stimulate innovative start-ups and spin-offs) to problems both in leading and in lagging countries to ensure consistent improvement on transnational level. Digital-led innovations in CE in construction are likely to boost regional growth by diversifying local economies and creating new "clean-construction" employment opportunities diminishing the...

13/11/2024

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Common assessment study for the preparedness and needs for innovations in construction industry in Danube area

A common assessment study was carried out to evaluate the preparedness and needs for innovations in the construction industry in the Danube area. All partners have identified important stakeholders from the quadruple-helices in their countries and communicated with them to assess the preparedness of the building industry in 13 countries for more circularity and needs for digitalisation-led CE innovations. It was crucial to evaluate what can be achieved at interregional level for a measurable and substantial impact to minimise disparities and to support closing the gaps between countries....

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Disruptive technologies, circular economy and the building industry in the Danube area

This report contains a collection of possible applicable solutions of digital technologies with emphasized circular economy principles in the buildings and construction sectors, that are being developed or practiced in Danube region countries. All countries from the region except Ukraine are covered. The solutions are categorized in specific categories of digital technologies to represent a catalogue that sparks new application ideas and motivates further collaboration and research in application of digital technologies in buildings and construction sectors in the Danube region, to make these sectors more efficient and sustainable.

13/02/2025

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Analysis "Cross-sectoral opportunities for CE solutions and innovations in construction and building"

Despite its critical economic contribution, the construction sector in the Danube region remains one of the largest consumers of natural resources and a significant producer of waste and greenhouse gas emissions. The industry's fragmented nature and slow adoption of digital innovations pose additional challenges in transitioning toward circular construction practices, such as the reuse and recycling of materials. However, digital technologies such as big data analytics, artificial intelligence (AI), blockchain, building information modeling (BIM), digital passports, and the Internet of Things (IoT) hold immense potential to overcome these barriers. Combined with innovative business models, these...

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Main project results

- **New Cluster** for increasing regional capacities, exchanging cross-sectoral experiences between innovation actors from Danube countries.
- **Analyses** - Barriers to digitalization led CE transition will be identified and related policy recommendations formulated.
- **Best practice catalogue** - Important and applicable innovations for achieving the digitalisation enabled CE will be sought.
- **Three pilots** will be implemented to showcase how disruptive innovations for circular economy interventions can harness the 'clean construction' practices in Danube region.
- **New Danube region strategy** for improving circularity in the construction and building business will be deployed, agreed and popularised, with 13 national action plans and 1 Plan for up-scaling the Pilots.

Existing Cooperations/Synergies



Possibilities for Future Cooperation

- ✓ Join the stakeholders group!
- ✓ Participate in the co-creation of the Circular DigiBuild Platform! (invitation for the webinars on the next slide)
- ✓ Be part of the Circular DigiBuild international Cluster!
- ✓ Let's exchange the knowledge and expertise!

Possibilities for Future Cooperation : Co-creation of the Circular DigiBuild Platform

Workshop 1: Key Needs and Challenges in the Digitalization of Circular Economy in Construction.

Date: 07th April 2025, 14:00 CET ([Registration link](#))

Workshop 2: Digital Technologies for Tracking and Managing Circular Materials in Construction

Date: 08th April 2025, 11:00 CET ([Registration link](#))

Workshop 3: Business Models and Incentives for Platform Engagement

Date: 08th April 2025, 13:00 CET ([Registration link](#))

Workshop 4: Platform Design and Functionalities for Maximum Impact

Date: 10th April 2025, 11:00 CET ([Registration link](#))

CONTACT DETAILS



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