



INVITATION

Thematic Open Webinar: "New Circular & Digital Solutions for Clean Construction"

We are pleased to invite stakeholders, industry professionals, and regional authorities to our upcoming open webinar organized under the Circular DigiBuild project. This session is designed to showcase innovative digital tools and circular methodologies developed through our pilot projects in Croatia, Austria, and Bulgaria.

The objective of this webinar is to:

- Inform stakeholders about the latest digital and circular solutions in the construction sector.
- Collect opinions and feedback regarding the tools presented.
- Identify interests for the replication of these solutions in other regions across the Danube area.

EVENT DETAILS

- Date: 29.04.2026
- Time: 13:00 - 15:00 CET
- Format: Online / Open Webinar
- Virtual Participation Link:
<https://us04web.zoom.us/j/73013258266?pwd=F15aaX30a2aVXayBe9uV4tEFTxE59V.1>

AGENDA

- 13:00 – 13:10: Welcome & Introduction
 - Overview of the Circular DigiBuild project objectives and achievements.
 - Introduction to the pilot framework and the importance of clean construction.

- 13:10 – 13:40: **Pilot 1 - Digital Optimization of Smart Buildings (Croatia).**
Presentation: Using grey-box modeling and machine learning to reduce the need for extensive sensor networks. Q&A: 5 minutes.

- 13:40 - 14:10: **Pilot 2 - Material Resource & Embodied Carbon Estimator (Austria).**
Presentation: Scaling a digital tool from residential complexes to entire building districts. Q&A: 5 minutes.

- 14:10 - 14:40: Pilot 3: **Digital Lifecycle Management for Municipal Infrastructure (Bulgaria).**
Presentation: Improving the management of infrastructure materials through traceability and data-based decision-making. Q&A: 5 minutes.

- 14:40 - 15:00: Stakeholder Feedback & Closing
 - Interactive session: Collecting opinions on replication potential.
 - Concluding remarks and future outlook for the digital tools and solutions developed under Circular DigiBuild project.

PILOT PROJECT HIGHLIGHTS

Croatia: Smart Building Efficiency

This pilot aims to make smart buildings cheaper to operate by reducing sensor dependency. Using data from a building with 248 controllable zones and five years of operational history, the team combined grey-box modelling with machine learning. This supports predictive control, lower energy costs, and reduces electronic waste.

Austria: Material Intensity & Circularity Tool

Focusing on Innsbruck and surrounding districts, this tool uses refined geospatial data and a database of 150+ building archetypes. In the pilot district, it accurately estimated a material mass of 55,060 tonnes and 8,610 t CO₂ equivalent, providing a validated basis for circular mass balance assessments.

Bulgaria: Traceability in Varna

In collaboration with the Municipality of Varna, this pilot digitized the lifecycle of infrastructure materials like pipes, flanges, and concrete rings. By moving from paper records to a digital environment, the project provides clearer audit trails and better operational coordination for the reuse of municipal resources.

Why Participate?

This webinar offers a unique opportunity to witness live presentation of digital tools that are ready for implementation. Your feedback will directly influence how these solutions are scaled and adapted for wider regional use in the Danube area.