

OUTPUT FACTSHEET

Project index number	CE0100390	Acronym	ReBuilt			
Output type (<i>"x" to be included</i>)	Strategy/ action plan		Pilot action		Solution	x
Output number (O.xx)	1.3	Output title	Jointly developed cross-national training programme (Fit for Circular and Digital Construction) to boost circular economy transition in central European construction sector			
If the output target is > 1 in the AF, please specify the output(s) described in the factsheet	1					
Output delivery date	31.3.2026					
Project website	https://www.interreg-central.eu/projects/rebuilt/					
Summary description of the output <i>Please present the output by addressing the following topics.</i>						
<i>Territorial challenges and needs in the regions specifically addressed by the output</i> <i>(max. 700 characters)</i>						
Central Europe lacks a structured, cross-national and practice-relevant training offer that connects circular construction with digital workflows. Education is fragmented across countries and professions, with limited lifelong learning opportunities, insufficient training on digital tools (e.g., BIM/3D printing workflows), and uneven understanding of circular economy principles. Differences in language and legislation further hinder knowledge transfer and uptake across the programme area.						
<i>Main aim(s) of the output and how it contributes to tackle the identified challenge(s)</i> <i>(max. 500 characters)</i>						
To deliver a jointly developed, cross-national blended training programme combining partner-led lectures/workshops with a scalable MOOC. The programme closes identified educational gaps, strengthens practical competencies in circular and digital construction, and enables transnational knowledge transfer through a modular structure, clear learning outcomes, and multilingual accessibility.						
<i>Technical description of the output (e.g. scope, main features, innovative elements etc.)</i> <i>(max. 1500 characters)</i>						

Output 1.3 consists of a cross-national training programme “Fit for Circular and Digital Construction” delivered as a synergy of hybrid trainings and a self-paced MOOC. The programme was built on Activities 1.2 and 1.3 and transformed tested lecture/workshop content into a structured digital format. A core academic component was the university lecture series “Circularity in Construction: CO₂-Reduced Concretes for Structural Elements and 3D Printing”, organised into five modules (Regulatory Framework; Novel Research Approaches; Low-Carbon Technologies; Geopolymers & Secondary Raw Materials; Applications & Case Studies). Each lecture attracted approx. 26-50 participants and generated quality-controlled feedback (very high satisfaction scores). The lecture series is now embedded in the curriculum of HM Munich with an international expert team. The final MOOC provides 4 e-learning courses hosted on Moodle, structured into learning tracks for public sector, students, industry/SMEs (plus a wide public course on illegal dumping). Video-based learning is supported by quizzes, curated resources, and multi-layer feedback (Moodle + external survey). Videos are hosted on YouTube (unlisted) and embedded into Moodle. Subtitles are produced using AI-supported translation and human verification.
<i>Involvement of target groups during output development and/or implementation</i> (max. 700 characters)
Target groups involved: public authorities; university/VET; industry (SMEs, architects, investors); and the wide public (illegal CDW dumping). They were engaged via pilot trainings (Activities 1.2-1.3), Train-the-Trainer review and MOOC testing. The lecture series attracted 26-50 participants per lecture. The MOOC pilot engaged 81 participants from 13 countries and generated 141 enrolments. Organisation types were self-declared (108 selections): architects 43, other 23, construction companies/developers 9 each, manufacturers 8, investors 6, professional organisations/financial institutions 5 each.
<i>Cooperation dimension of the output, i.e. joint development within the partnership and, if applicable, joint implementation (see output indicator definitions in chapter I.3.3 and Annex 2 of the programme manual)</i> (max. 700 characters)
The programme was jointly developed by project and associated partners, with shared ownership across target-group tracks and delivery formats. TUW and HM led university/vocational education content; POR led government/public sector; ŠGZ led the merged industry/SMEs + architects/investors track; ZAG led the wide public course and provided technical leadership for Moodle hosting/administration. CZGBC coordinated MOOC implementation, supported video preparation and branding compliance, coordinated subtitle workflows and localisation, supported bug resolution, and enabled partner quality checks through shared course manager roles.
<i>Results - expected change and lasting effects in the territories generated specifically by the output, its uptake by relevant organisations and benefits for target groups</i> (max. 1000 characters)
The training programme provides a modular learning pathway that strengthens skills in circular economy principles, low-carbon materials, and digital construction practices. It improves accessibility through multilingual subtitles and open online delivery, supports transnational knowledge transfer, and creates a basis for long-term upskilling/reskilling across the programme area. The largest uptake is expected from SMEs and related industry actors, where pilot demand was strongest, while expert feedback recommends prioritising public administration, where skills gaps are often greatest and impact can be amplified through procurement and regulation.
<i>Ownership and durability of the output after the project end, considering financial and institutional support including, if applicable, maintenance</i> (max. 700 characters)

Ownership of individual lecture content remains with the respective authors/rights holders; external (non-consortium) creators are included with acknowledgements. The MOOCs are currently offered free of charge to maximise uptake. After project end, ZAG will operate the MOOCs (hosting and basic administration) via the Regional Circular and Digital Construction Hubs (WP3), ensuring long-term availability and updates where needed (especially for regulatory and fast-evolving topics).

Transferability of the output to other territories, sectors or target groups and planned measures for supporting such transfer

(max. 700 characters)

Transferability is high thanks to the modular design and AI-assisted, partner-reviewed subtitles. A key constraint is that Moodle treats each language as a separate course, making multilingual maintenance time-intensive; future scale-up would benefit from more web-like tools (e.g., Articulate Rise). Country-specific legal differences affect relevance, so regulatory content should be modularised with country notes/add-ons while keeping a shared core; technology-focused modules are easier to transfer and adapt across territories and

Related final deliverable(s) (Number(s) and title(s) to be included)	D.1.4.1 Developed concept of Fit for Circular and Digital MOOC. D.1.4.2 Train-the-trainers on-line course D.1.4.3 Testing of the Fit for Circular and Digital Construction MOOC with tutorials D.1.4.4 "Summary report on final solution of jointly developed cross national training programme." D.1.3.1 "Internal trainings to pretest the Fit for circular and digital construction" D.1.3.2 Report on educational and training events - university programme D.1.3.3 Report on educational and training events - lifelong training programme D.1.3.4 Report on educational and training events - public servants training programme D.1.3.5 Report on educational and training events - architects and investors training programme D.1.3.6 Summary report on all pilot activities for different stakeholders groups
Output web link (if applicable)	https://circularconstruction.zag.si/classroom/
GPS coordinates (if applicable)	