



NEWSLETTER No. 7

September 2026,

GENERAL INFORMATION

Project Name: Circular Economy and Reverse Engineering Education for the Green Transition

Project acronym: CircleREdu

Type of the project: KA220-HED - Cooperation partnerships in higher education

Project number: 2024-1-PL01-KA220-HED-000254978

Number of partners: 4 project partners

Budget: 400 000 EUR

Project duration: 01/12/2024 – 30/11/2027

The CircleREdu partners are developing high-quality educational courses that will be academically valuable, practically oriented, innovative, and accessible to a wide range of learners. The courses will be developed through 4 modules.



MODULE 1

Green Skills for CE will focus on building knowledge of the circular economy and the possibilities of implementing its principles in industry and services. Participants will also develop skills in applying a selected LCA method and the ability to take environmental issues into account in business activities.



MODULE 2

Digital/Technical Skills for RE will address topics related to reverse engineering, geometry digitalisation using laser scanning, RGB-D, and photogrammetry, as well as preparing data for CAD/AM workflows. Participants will also gain knowledge of the basic principles of computer vision and artificial intelligence in part detection and analysis. The module will help learners develop the ability to reconstruct parametric CAD models from images and point clouds, while also raising awareness of the legal, ethical, and intellectual property aspects of reverse engineering and data capture.



MODULE 3

Innovative Change Management in Manufacturing for Green Transition and RE will focus on innovative change management in the context of green transition in manufacturing. Participants will deepen their understanding of the links between green transition, circular economy, reverse engineering, and information technologies across industries. The module will also strengthen practical skills through case studies and the use of digital tools and data to support sustainable practices and innovation in manufacturing.



MODULE 4

Solving Real Industrial Challenges will concentrate on addressing real industrial problems through the integration of green skills, digital and technical competencies, and change management approaches. Participants will develop the ability to apply reverse engineering methodologies to analyse and redesign mechanical components or systems, with a strong emphasis on sustainability, performance improvement, and circular economy principles. The module will also encourage critical reflection on the problem-solving process and support the transfer of competencies to future industrial and green transition contexts.

USP: Where Reverse Engineering meets Circular Economy to solve real manufacturing challenges

Promise: Preparing future professionals for the circular transition in manufacturing

Proof: Green skills + digital/technical RE skills + change management + real industry challenges

CE + Reverse Engineering

Green Skills for CE will focus on building knowledge of the circular economy and the possibilities of implementing its principles in industry and services. Participants will also develop skills in applying a selected LCA method and the ability to take environmental issues into account in business activities.

Green + Digital + Managerial Skills

Students develop not only technical competences, but also green skills and change-management skills

Real Industrial Challenges

The learning process culminates in applying acquired competences to real-world challenges faced by companies

New Professional Profile

The project aims to define a new professional role: Expert for the circular transition in the manufacturing sector

GET INVOLVED!

We invite you to:

- Use our resources in your teaching or training
- Provide feedback or share additional tools
- Join upcoming events and workshops

Together, we can build a future-oriented education system that empowers learners with the green and digital skills they need to shape tomorrow's industries.

Thank you for being part of CircleREdu!

Let's innovate, educate, and collaborate for a circular future.



P.S. Share this newsletter with your colleagues and networks to help us reach even more educators and innovators!

PROJECT PARTNERS

- Bialystok University of Technology (Poland) – Project Coordinator
- Haaga-Helia University of Applied Sciences (Finland)
- Karlsruhe Institute of Technology KIT (Germany)
- Babes Bolyai University (Romania)



PROJECT WEBSITE AND SOCIAL MEDIA ACCOUNTS

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