



September 2024

Newsletter



ECOLUTION

AIMS

Pioneering the Future of Smart Sustainability

The Masters course on smart sustainability solutions (ECOLUTION) project aims to develop advanced interactive certified MSc course related to applications that will train individuals with the necessary skills & knowledge to work in the rising “Smart Environmental Sustainability” industry.



Co-funded by
the European Union

Erasmus+ Programme:

Alliances for Education and Enterprises **ECOLUTION** – mastErs COurse on smart sustainability soLUTIONS
Project Number: **101140050 — ECOLUTION — ERASMUS-EDU-2023-PI-ALL-INNO**

Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Education and Culture Executive Agency (EACEA). Neither the European Union nor EACEA can be held responsible for them.



Overview

The **ECOLUTION (mastErs COurse on smart sustainability soLUTIONs)** project aims at developing a Master course focused on educating participants with the necessary skills & knowledge to work in the “Smart Environmental Sustainability” sector. During their course, the students will develop monitoring tool prototypes (IoT monitoring system, Drones etc.).

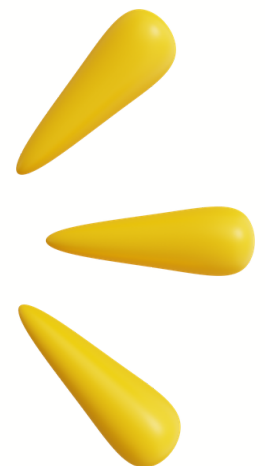
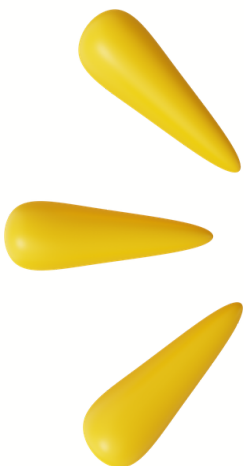
The proposal for this project was submitted in May 2023, to the Erasmus+ Key Action 2 (Alliances for innovation) call, from a consortium of companies, research centers and universities across Europe (Austria, Bulgaria, Czech Republic, Denmark, Greece, Netherlands, Portugal, and Spain). This project was selected among hundreds of projects that were submitted in the same call. The work of this consortium started in February 2024 and will last for a period of 3 years.

First Kick Off Meeting

The project’s first coordination meeting took place successfully at the University of Coimbra, bringing together 8 partners in person and 18 online.

Over two productive days (13–14 March 2024), participants discussed key actions for developing an innovative postgraduate program in Environmental Sustainability and IoT Engineering, designed to equip students with skills for the emerging smart sustainability sector.

The program will also foster entrepreneurial competences and align with ECTS standards for EU-wide academic recognition.





Learning Path Courses

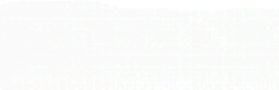
- ➔ **Circular Economy Management**
Responds to the EU's 2.1 billion tonnes of annual waste and the unsustainable "take-make-dispose" model. Promotes reuse, recycling, and regenerative bio-based value chains to cut global emissions by up to 39%. Teaches how to design circular business models, reuse resources, and measure circularity using real-world industries.
- ➔ **National Instruments (NI) LabVIEW**
Addresses the need for hands-on control of complex environmental data systems. Trains students in visual programming for monitoring, automation, and environmental data management. Builds practical skills to link sensors, data, and real-time decision-making.
- ➔ **Natural Resource Management**
Responds to Europe's biodiversity loss and ecosystem degradation. Focuses on conservation laws, monitoring biodiversity, and EU frameworks like Natura 2000 and CITES. Develops professionals able to restore ecosystems and manage nature-positive projects.
- ➔ **Remote Sensing & Wireless Sensor Networks**
Combines satellite imagery and ground-level data to track environmental change. Equips students to integrate remote sensing with IoT sensors for precision monitoring. Supports real-world applications in agriculture, disaster management, and environmental protection.
- ➔ **Sustainable Land Management**
Tackles the challenge of producing more food with fewer resources. Introduces digital farming tools for efficient water and nutrient use. Encourages smart, data-driven land management that preserves soil and ecosystem health.

[🔗 Learn more:](#)





CONSORTIUM



PROJECT COORDINATOR

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<http://www.fzp.czu.cz/HCV> | <http://www.fzp.czu.cz/KVHEM>



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