

Project Summary

Please provide a short summary of your project. Please be aware that this section (or parts of it) may be used by the European Commission, Executive Agency or National Agencies in their publications. It will also feed the Erasmus+ Project Results Platform.

Be concise and clear and mention at least the following elements: context/background of project; objectives of your project; number and profile of participants; description of activities; methodology to be used in carrying out the project; a short description of the results and impact envisaged and finally the potential longer-term benefits. The summary will be publicly available in case your project is awarded.

In view of further publication on the Erasmus+ Project Results Platform, please also be aware that a comprehensive public summary of project results will be requested at report stage(s). Final payment provisions in the contract will be linked to the availability of such summary.

Objectives: What do you want to achieve by implementing the project?

In a tense environmental and geopolitical context, shortages of strategic materials and electronic chips are a growing threat. Electronic waste continues to accumulate and collection and recycling efforts are still inadequate. We want to raise awareness of these realities, to teach life cycle assessment applied to electronics, and to promote best practices in sustainability, eco-design, reuse, upgradeability, and reconfigurability in digital electronics. We will prepare the student's future.

Implementation: What activities are you going to implement?

We will organize initial training (E1) for teachers on methodology (life-cycle analysis, eco-design, recycling, urban mining, etc.) applied in the field of eco-transition in digital electronics education (WP2). We will then work on the development of modular electronics educational solutions (WP3) introducing sustainability, eco-design in electronics and use cases. We will also work on retrofitable electronics (WP4) and organize two summer schools (E2, E3) and an impactful final workshop (E4).

Results: What project results and other outcomes do you expect your project to have?

These activities and events will allow us to make the transition in teaching digital electronics rethought for sustainability and circularity into an inter-university collaboration. During the project, developments, methodologies and tools used will be shared and published. Online courses and a common program will be developed to integrate the curricula of each university. Online communication, the DEEPCEL website, conferences and open documents will help to disseminate our pedagogical material.