

CIRCULAR STEM

BOOSTING CIRCULAR ECONOMY COMPETENCES FOR STEM TEACHERS



Circular Economy

CIRCULAR ECONOMY is based on three principles: eliminate waste, reintroduction of products and materials in the production loop so that nature can regenerate. As the CIRCULAR ECONOMY is also a transversal subject dealing with a lot of topics included in the school curriculum, STEM plays an important role in supporting the transition to CIRCULAR ECONOMY. The EU has adopted a Circular Economy Action Plan to help achieve this transition and achieve the Green Deal objectives.

These above-mentioned elements constitute the project's backbone idea that was launched in September 2022.



The Project

This Erasmus+ KA2 Strategic The methodology will partnership project entitled transversally cover digital and “Circular STEM” aims to provide entrepreneurial skills, with a STEM teachers’ with special attention to raise girls’ competences to introduce interest in STEM, because of the education about circular existing gender gap in the economy at school by sector. Furthermore, the integrating it with STEM project has an underlying subjects, developing an approach focusing on interdisciplinary methodology empowering girls in using that makes clear links between digital tools and raising their circular economy concepts and interest in STEM subjects. school subjects.

The project consortium consists of the following organisations:

- Agrupamento de Escolas de Frazão, Paços de Ferreira from Portugal
- EUROPEAN DIGITAL LEARNING NETWORK ETS from Italy
- Institut za moderno obrazovanje from Serbia
- POLITEKNIKA IKASTEGIA TXORIERRI S.COOP from Spain
- EKONOMIKAS UN KULTURAS AUGSTSKOLA from Latvia
- EIT RawMaterials GmbH from Germany

During its lifetime (24 months in total), the partners will be involved in the development of the following results:

- Training methodology to develop lesson plans on STEM subjects introducing circular economy, digital and entrepreneurial competences based on a learner-centred approach to stimulate them to actively participate in the classroom activities, also making use of digital tools.
- Training Contents developed based on real-world challenges, consolidated through the piloting activities organised by the partner schools.
- CIRCULAR STEM Academy, a E-learning platform hosting all project results.
- Toolbox made of additional online and offline resources to support the methodology and the training contents.



The project and its activities are mainly addressed to:

- Secondary school STEM teachers – the project will have an impact of the Continuous Professional Development of teachers and enable them to take a more active role in promoting education about the circular economy, adopting innovative digital tools for their lessons and promoting the entrepreneurial spirit of students.
- School Principals – School principals must be involved and informed about available tools to integrate circular economy into the school curriculum, enabling secondary school students to adopt forward-looking skills that can contribute to the transition to a low-carbon economy.
- Secondary school students aged 13 to 18 (indirect target group) – the global youth movements rising in the past few years have shown how young people are concerned about environmental issues and are willing to take action to make a difference; the results produced by the projects will be used for this target group.
- Students' parents and families – by having an impact on students, the project will also reach their families.