

Increasing young people's motivation to choose STEM careers through an Innovative Cross-disciplinary STE(A)M approach to education

PROJECT OVERVIEW

The EU co-funded project, CHOICE, was launched in January 2020. The team, composed of 9 organisations from 5 EU countries, aims to promote and improve STEM education at schools by designing Open Educational Resources that will enhance teachers' competences by equipping them with a STE(A)M approach of teaching, which allows connecting teaching and learning STEM (Science, Technology, Engineering and Mathematics) with social studies, language learning, artistic, creative and sports activities.

Are you interested in STE(A)M?

Follow us:



Innovative Open Educational Resources on STE(A)M approaches

At this stage partners in Italy, Cyprus, Spain and Greece are planning a series of Design & Development workshops, where teachers will join forces with their students to co-create original educational resources (OERs) on STE(A)M subjects. Professionals from STEM-related academic and business fields will ensure that the resources connect with real-world problems and applications. These OERs will address 5 macro-areas:

1. Connecting STEM and Arts
2. Experiential projects
3. Using foreign languages in STEM lessons
4. Using technology in social sciences
5. Turning sports and physical activity into a STEM learning experience



What happened in the last year?

During the first year of the project's lifespan, partners conducted research to identify existing initiatives and best practices in STEM and STE(A)M education. They also conducted a survey in Italy, Cyprus, Greece and Spain to gather and analyse students' attitudes towards STEM learning and STEM careers, as well as teachers' current approaches in STEM teaching. Furthermore, partners organised reflective group discussions with representatives from businesses, Higher Education Institutions and local authorities in each partner country. The groups discussed case-studies in the field of STEM education, as well as existing measures,

best practices and needs from the academic and business world, as well as on policy level, aiming to increase young people's interest in STEM subjects. The case studies that were discussed in all countries during the reflective groups are collected in the published [Reflective Practice Case-Study Compendium](#).



State of the art analysis of existing initiatives, best practices and attitudes towards STE(A)M in educational contexts

D2.3 State of the Art Study

CHOICE

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The main research results are described in the published:

- [National reports](#)
- [State of the Art Study](#)

Based on these research findings, partners formulated a [Framework for reforming curricula](#) that indicates the areas in need of improvement within the current state of STEM curricula and educational approaches.

All of our published reports are freely accessible here:

<https://www.euchoice.eu/resources>

Coordination meetings

The kick-off meeting of CHOICE was hosted by CESIE, project coordinator, on the 20th and 21st of February 2020 in Palermo, Italy. Partners introduced and got to know each other and then discussed the first activities to be carried out. On the 19th of September 2020, the CHOICE team met virtually to discuss the research results at national level and the state-of-the-art analysis. On the 13th of January 2021, they met again to start planning the implementation of a series of Design & Development workshops, during which teachers and students will cocreate original educational resources.



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