



38th Science Projects Workshop in the Future Classroom Lab.

1st STE(A)M IT co-creation workshop on integrated STEM education. Online event, 28 February 2020

**Increasing young people's motivation to
choose STEM careers through an Innovative
Cross-disciplinary STE(A)M approach to
education- CHOICE
Project ref. 612849**

Overall objective of the project

CHOICE aims to develop and test an innovative and collaborative approach to STE(A)M education, complementing existing initiatives to support the reform of school curricula. The project shall boost young people's interest towards STEM subjects and careers, contributing to reduce skill mismatches in the labour market

Priority 4 – Promoting innovative and cross-disciplinary approaches to STE(A)M teaching in education

Structure of the project (1)

- 9 organisations across 5 European countries



Structure of the project (2)

- Project start date: 01-2020
- Project end date: 12-2022

3 main phases:

- **State of the Art Analysis** of existing initiatives, best practices, attitudes and approaches towards STE(A)M in educational contexts
- **Development and testing of innovative OERs and MOOC** through collaborative practices of students, teachers as well as business/university representatives for the promotion of a STE(A)M approach to teaching STEM subjects
- **Mainstreaming**

Specific objectives

- **Increasing young people's motivation to choose STE(A)M careers** through a practice-oriented approach, thus contributing to produce a workforce capable of tackling complex societal challenges.
- **Involving teachers and students in a cross-disciplinary bottom-up learning process** promoting the use of **innovative pedagogies** focussed on a constructive interaction between STEM and non-STEM subjects.
- **Promoting coordination and collaboration among education institutions, business, local authorities** as key stakeholders able to support the reform of STEM curricula at school, turning them into multipliers supporting critical career choice of students.
- **Supporting transnational cooperation and mutual learning among and within education institutions** promoting innovative STE(A)M approaches to STEM education entailing a systemic impact on education systems.

Methodology

- Development of professional skills of teachers in **co-creation and co-production of educational resources** (teachers, students and business/university representatives)
- Use of a **STE(A)M approach in STEM education**
- **Flexible modes of teaching and open learning**
- **Multi-actor participatory process** combined with an evaluation of attitudinal change among students.

WORK PACKAGES

- WP1 – Management and coordination of the project
- WP2 – State of the art analysis of existing initiatives, best practices, attitudes and approaches towards STE(A)M in educational contexts
- WP3 – Reforming curricula through innovative co-creation of OERs
- WP4 – Mainstreaming and Dissemination
- WP5 – Evaluation

Main results

- **National and comparative reports** on local and regional initiatives, best practices, students' attitudes and teachers' approaches to STEM education
- **Framework for reforming STEM curricula**
- OERs based on a **STE(A)M approach to STEM education**
- **MOOC on STE(A)M education**
- **Social media awareness campaign**
- **Policy recommendations**
- **Good practice tool CHOICE@SCHOOL**
- **Final international conference**



Thank you for your attention!
Questions?

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