

ENG: Equity in STEAM: How can we make all students feel that they can do STEAM?

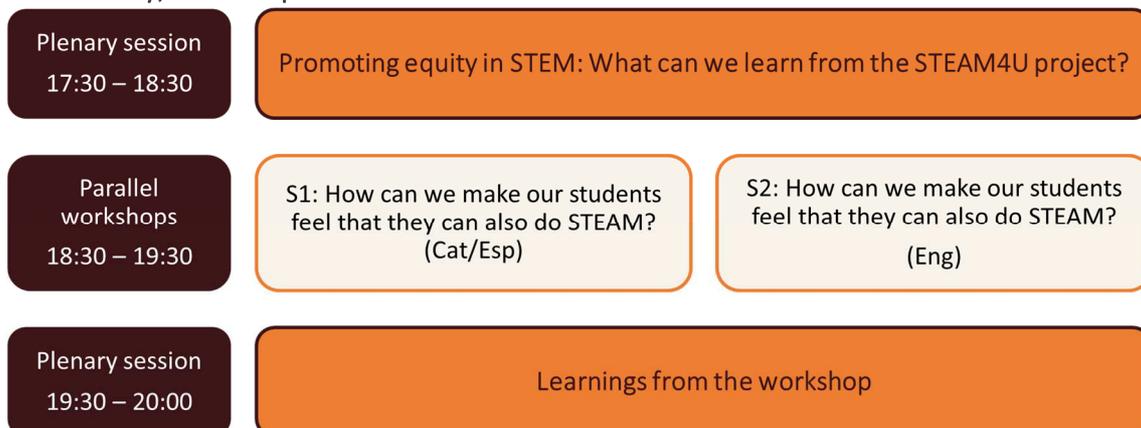
Detailed program

When changing from elementary to high school, a large number of adolescents cease to identify themselves as "STEM people" ("I am not worthy of the sciences", "mathematics is for much brighter minds", "technology is for geeks"). ...), manifesting a growing disinterest in all those formal and non-formal activities in the scientific-technological field. This situation has serious consequences in the scientific-technological literacy of this group and its development as citizens, as well as in the election of post-compulsory studies.

Several European institutions, which have asked previously themselves this same question, will share their journey and their learnings within their work in the STEAM4U project. The workshop aims at providing a space for reflection and analysis of various educational strategies to promote girls and young people from disadvantaged backgrounds feel that they have the skills to carry out STEAM activities in formal and non-formal educational contexts. The final goal of the workshop is to co-construct educational strategies with the workshop's participants that make sense in their own educational realities.

Structure of the afternoon

Wednesday, 18th of April



The afternoon is structured around two plenary sessions, initial and final, and two parallel workshops (S1, S2). The detail of the meeting is described below:

Plenary session (17:30 – 18.30). Promoting equity in STEM: What can we learn from the STEAM4U project?

- Speaker: [Digna Couso](#)
- Length: 1h
- Language: Catalan with simultaneous translation to English

Parallel workshops (18:30 – 19:30)

- Moderate Digna Couso and Carme Grimalt
- Length: 1h
- Languages: Catalan/Spanish (S1) and English (S2)

Both workshops are aimed at:



Presenting various initiatives already being carried out at European level, as well as presenting and discussing their strategies to promote the self-efficacy in young people in STEM.



Present and discuss the impact of these strategies on the self-efficacy in young people from the evidences collected in the use of various data collection instruments. It is also intended that these instruments can be used by other organizations participating in the workshop.



Co-design of strategies to promote equity in STEM from the perspective of promoting the self-efficacy of young people in the educational initiatives of the attendees.

Learnings from the workshops (19:30 – 20:00)

- Moderate: Digna Couso
- Length: 30 minutos
- Participants: representatives of European initiatives
- Language: Catalan/English with simultaneous translation to English

In this closing session, a compilation of the learning generated in each parallel session will be shared. Participation of the attendees will be promoted both directly and through social networks.

Presentation of the speakers

Digna Couso, graduated in Physics and PhD in Science Education, is a professor in the Department of Science Didactics of the Autonomous University of Barcelona (UAB) and the director of the Research Center for Scientific and Mathematical Education (CRECIM). At the University, Digna participates in the training of future primary and secondary teachers, as well as in the training of in-service teachers. She has been the general director of the master's degree in Secondary Teacher Training at the same university. As a researcher, she has worked on various projects to improve science education in relation to the promotion of educational equity in STEM at a national and European level. Recently, she has actively participated in the definition of the STEMCat plan of the Generalitat of Catalonia and is currently the coordinator of the training of STEM trainers of the same plan. He has given numerous lectures on gender and STEM education in congresses and dissemination events, as well as has directed several theses in this same field. She has published several high-impact articles and is a reviewer of international journals.

Twitter: @DignaCouso

Carme Grimalt, graduate in Chemistry and PhD in Science Education, is a researcher at the Research Center for Scientific and Mathematical Education (CRECIM), where she participates in different research, reach out and teaching innovation projects. Her work focuses on two main axes: teaching and learning science with digital tools and the promotion of educational equity in STEAM. She is also a professor at the Department of Didactics of the Sciences of the Autonomous University of Barcelona (UAB), where she participates in the training of future teachers of primary, secondary and in-service teachers.

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