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○ E-STEAM erasmus project

○ newsletter 01

○ 12-2018



**E-STEAM**  
Equality in Science, Technology, Engineering,  
Art and Mathematics

## E-STEAM: Equality in Science, Technology, Engineering, Art and Mathematics

ERASMUS+2018-1-PT01-KA201-047422

# Newsletter 01

## Description of the Project

EIGE's study on the economic benefits of gender equality (2017) shows that reducing gender segregation in STEM education alone could lead to an additional 1.2 million jobs in the EU. These jobs are estimated to occur mostly in the long term, however, as employment is likely to be affected only after new women STEM graduates choose to work in the STEM fields. In parallel, higher productivity associated with these STEM jobs is likely to result in higher wages for newly graduated women – affecting the gender pay gap as well as income and living standards of women, men, children and their extended families (European Parliament, 2015).

### OBJECTIVES

The project aims to:

- ☞ establish synergies among schools and the labour market towards creative and meaningful engagement of girls in STEAM education (through a mentoring programme)
- ☞ develop a virtual platform as a resource hub for practical and innovative learning solutions complementing schools' curricula
- ☞ exploit and disseminate personalised activities by promoting the use of the platform



### WHY STEAM

At the January 2013 World Economic Forum in Davos, Switzerland, RISD President John Maeda participated in Stem + Art = STEAM, a panel session addressing the ways Art + Design can assist Science, Technology, Engineering and Math (STEM) in unleashing entrepreneurial innovation. STEAM+ Art = STEAM addressed creative problem solving, the translation of complex data for broad audiences through visualization, and how to bring ideas to market through design.

### TARGET GROUPS

The project will target 3 groups:

- Teachers in Primary, Junior and Upper secondary (VET & non-VET) education and especially teachers in STE(A)M, career advisors;
- Decision makers, Policy formulators, Head teachers, school directors, teacher' training centres, representatives of regional/national and EU authorities.
- Students/pupils 7+ (to engage more girls in STEAM careers).

# 1<sup>st</sup> transnational E-STEAM meeting: 3 and 4 October Silves - Portugal



**The first transnational meeting of the E-STEAM project was held in Portugal, in the city of Silves, on 3 and 4 October 2018, at the Silves Secondary School.**

The meeting began with the presentation of partner institutions, some of them new. However, there are a few institutions that have collaborated or collaborate on erasmus projects among themselves, which made the environment between partners very friendly and reliable.

The STEAM concept was introduced and even if the NA cut the funding for the IO1 we decided to implement it as it was an important milestone in the development of the project. Fundatia Professional, Romania and the Foundation Universitat Jaume I Empresa, Spain established the most important stages for achieving the project's goals.



Objectives, activities and expected results of the project were listed in detail, as well as the partners' responsibilities were on the Agenda. The task schedule was updated and an important discussion was held regarding the operationalization of some activities.

The first version of the E-STEAM platform was presented by the AES, the Project coordinator who is in charge of the project website.

Participants took a guided tour of some of the Schools of the Agrupamento de Escolas de Silves, and got to know how the Portuguese teaching system is organized and the valences and work of this institution.



The partners were also received by the Silves City Council executive who got to know the project.

The participants were also able to get acquainted with the city's historical heritage and taste traditional food accompanied by good Portuguese wine.

## E-STEAM PARTNERS

*name and cont@ct*

### Agrupamento de Escolas de Silves - PT



[www.aesilves.pt](http://www.aesilves.pt)

### Leonardo da Vinci First Private School - BG



[www.pleonardo.com](http://www.pleonardo.com)

### Institute of Entrepreneurship Development - GR



<https://ied.eu>

### Foundation Universitat Jaume I Empresa - ES



[www.fue.uji.es](http://www.fue.uji.es)

### Dimitrie Cantemir Universitatea - RO



<http://www.en.cantemir.ro>

### Fundatia Professional - RO



[www.professionalcentre.ro](http://www.professionalcentre.ro)

# Work in progress: Identification of Stereotypes in relation to STEAM



In November and December 2018, under the guidance of Foundation Universitat Jaume I Empresa, the partners have been performing an important work in the identification of stereotypes in the theme STEAM.

In October 2018, each partner made a bibliographic search in order to create the database on gender stereotypes in the STEAM areas, to serve as a theoretical basis for the creation of guidelines for semi-structured interviews with teachers. State of the art involved: detection of how gender

stereotypes act and are performed within the educational context; to identify learning needs of teachers; to de-construct these stereotypes; to start a process of change through co-design with their own initiatives, services or product.

In November and December each partner interviewed at least 6 teachers from the STEAM areas and passed a report on the results to the FUE-UJI partner.



During the month of December, each partner is organizing a creative workshop with at least 10 students (covering an age group from 7 to 18 years old and futures teachers 18+) to explore the theme in an innovative way, with collaborative methods (eg brainstorming, world coffee, open forum) . Participants are invited to describe accurately



situations experienced in class associated with the STEAM stereotypes list and to discuss affirmations / situations about the competences of women and men regarding the areas of knowledge and daily tasks.

In January, the "Universitat Jaume I - Empresa (FUE-UJI) Foundation" will conclude Outcome O1: Document with identification of unconscious stereotypes and prejudices, which will locate the learning needs of teachers, learn about approaches, practical solutions.



## Project Website

<http://e-steamerasmusproject.com/>

## Facebook page

<https://www.facebook.com/ESteamErasmusProject/>

## E-STEAM platform

<https://moodle.aesilves.pt/moodle/course/index.php?categoryid=28>

## E-STEAM Project Coordinator

Agrupamento de Escolas de Silves

[www.aesilves.pt](http://www.aesilves.pt)