STREAMING GIRLS AND WOMEN INTO STEAM EDUCATION, INNOVATION AND RESEARCH

STREAM IT

D2.2 Best practices collection on STEAM approaches and tools

31.05.2024.





Project full title

STREAMING GIRLS AND WOMEN INTO STEAM EDUCATION, INNOVATION AND RESEARCH

Project acronym

STREAM IT

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Deliverable title

D2.2 Best practices collection on STEAM approaches and tools

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LIST OF ABBREVIATIONS

ABW Serbia	Association of Bussiness Women of Serbia		
AFIST	Association of Women in Engineering, Science and Technology		
CEISE	CESIE, Non-profit organisation		
EISMEA	European Innovation Council and SMEs Executive Agency		
EIT	European Institute of Innovation & Technology		
FECYT	Spanish Foundation for Science and Technology, Ministry of Science, Innovation and Universities		
HETFA	HETFA Research Institute		
IFIC	Institute of Corpuscular Physics		
IMP	Institute Mihajlo Pupin		
ITU	International Telecommunication Union		
RAPIV	Regional Agency for Entrepreneurship and Innovations		
STEAM	Science, Technology, Engineering, Arts and Mathematics		
STEM	Science, Technology, Engineering and Mathematics		
SVSTP	Sunrise Valley Science and Technology Park (Sauletekio Slenio Mokslo Ir Technologiju Parkas)		
UBB	Babes Bolyai University		
UBU	Universidad de Burgos		

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EXECUTIVE SUMMARY

This deliverable comprises a selection of pre-existing or past projects/initiatives implemented at the partner countries' city/province, national, regional, or European levels, exemplifying best practices in empowering girls and women to pursue opportunities in STEAM fields. Institute Mihajlo Pupin (IMP) evaluated potential transferable good practices of the previous or existing initiatives in a fact sheet format. These fact sheets will be publicly accessible and ready for use both in ST(R)E(A)M IT and beyond. The lead partner of this activity is IMP while involved participating partners are: HETFA (Research Institute), RAPIV (Regional Agency for Entrepreneurship and Innovations), CEISE (Non-profit organisation), UBB (Babes Bolyai University), UBU (Universidad de Burgos), IMP (Institute Mihajlo Pupin), SV STP (Sunrise Valley Science and Technology Park (Sauletekio Slenio Mokslo Ir Technologiju Parkas)

IMP developed a methodology for selecting good practices based on the previously adopted methodology for Task 2.1. and created Excel Factsheets on the existing and past projects/initiatives in the empowerment of women and girls to pursue opportunities in STEAM. In the selection of best practices, we proceeded from the fact that Task 1 consists of three subtasks: Subtask 1. Mapping of the relevant projects and initiatives in this area Subtask 2. Interview with the experts. Subtask 3. Evaluation of the best practices.

To ensure coherence and streamline of all three subtasks within Task 2.1, the methodology for T2.1 was structured so that the execution of Subtask 1 facilitates the implementation of Subtask 2 and simplifies the identification of best practices in Subtask 3. For instance, by mapping pivotal projects in STEAM for girls and women in related country, partners could identify the primary "owner" of that project, who would be the most pertinent individual to interview for Subtask 2. The pivotal projects mapped in the factsheet were further evaluated according to the pre-defined criteria for selecting best practices, which included:

- 1. that the target group consists predominantly or exclusively of female students and/or women, and
- 2. that the focus is on applied arts, soft skills development, and empowering women to pursue STEAM fields.

partners asked the relevant In short, were to map most city/province/national/regional/EU/global initiatives and projects and eventually to mark those that would be potentially considered as good practice. In some instances, partners inadvertently or intentionally conducted expert interviews with the owners of initiatives/projects that were marked as best practices, either by the partners themselves in the last column of the Factsheets or by the IMP's evaluation. In this way, all sub-tasks within Task 2.1 were interconnected, ensuring the coherence of the entire Task 2.1.

A total of 21 best practices were identified, of which three at the city/province level, seven are at the national level, two at the regional level, eight at the European level and one at the global (worldwide) level.



CODE FIRST GIRLS

OWNER

Code First Girls

THEMATIC FOCUS

STEM

TERRITORIAL SCOPE

Region

DESCRIPTION

Code First Girls is a non-profit organisation dedicated to developing the programming skills of women. The organisation offers a variety of courses and workshops to increase the participation of women in technology fields. Programs are usually sponsored by universities, companies and other organisations. Their goal is to create opportunities for women to be experts in the technology industry and promote diversity in this field. Code First Girls believes that women should have the same opportunities in technology as men.

Total budget: N/A

Funding institution: Code First Girls

<u>Target group:</u> Women <u>Time frame:</u> N/A

LINK TO SOURCE

https://codefirstgirls.com/courses/moocs/



DIGIGIRLZ

OWNER

Microsoft company - Microsoft Education

THEMATIC FOCUS

STEM

TERRITORIAL SCOPE

Worldwide

DESCRIPTION

DigiGirlz provides girls and young women with opportunities to explore careers in technology and develop their skills in this field. As part of the Microsoft YouthSpark program, it encourages youth to pursue Microsoft-related jobs. Organised by Microsoft Education, DigiGirlz offers two main programs:

- DigiGirlz Day is a one-day event held at Microsoft offices worldwide. Attendees can interact with Microsoft employees, gain insights into daily work life at Microsoft, and explore career opportunities in technology. Workshops and activities throughout the day support girls with career planning, understanding tech roles, and fostering in-depth discussions about the field. DigiGirlz Day is free for high schools and individual girls to attend. The calendar of upcoming events and registration contact information can be found on the website.
- High Tech Camp is a multi-day event, ranging from 2 days to a week, designed to enhance girls' technological skills and exposure to cutting-edge technology. Held at diverse locations worldwide, the camp is free of charge and open to individual girls and high schools, irrespective of their level of technological knowledge. Featuring workshops, Microsoft product demonstrations, technology tours, and networking opportunities, the camp provides a comprehensive experience for participants. The website showcases a calendar of upcoming events along with the organiser's contact information for registration purposes.

Total budget: N/A

Funding institution: Microsoft company / Microsoft Education

Target group: High school girls and Young Women

<u>Time frame</u>: on a regular basis

LINK TO SOURCE

http://www.stemalliance.eu/stem-initiatives/detail?articleId=1942672



E-STEAM – EQUALITY IN SCIENCE, TECHNOLOGY, ENGINEERING, ART AND MATHEMATICS01

OWNER

Lead Partner: Silves Schools Group (AES), Portugal,

Partners: First Private School Leonardo da Vinci Ltd, Bulgaria, Institute of Entrepreneurship Development (IED), Greece, Foundation Universitat Jaume I Empresa (FUE-UJI), Spain, Dimitrie Cantemir University, Romania, FUNDATIA PROFESSIONAL (ProF), Romania

THEMATIC FOCUS

STEAM

TERRITORIAL SCOPE

EU

DESCRIPTION

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) and to 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. Results:

- O1 State of the Art of gender stereotypes and unconscious biases in education using collaborative methods;
- O2 STEAM Mentoring Scheme;
- O3 Design of the STEAM Training Programme;
- O4 E-STEAM Trainer Platform;
- O5 Piloting and assessment report and recommendations (Training Programme);
- O6 Business Model Canvas exploitation guidelines

Total budget: N/A

<u>Funding institution:</u> Erasmus+ Programme <u>Target group:</u> Teachers, students and girls

Time frame: 2018 - 2020

LINK TO SOURCE

http://e-steamerasmusproject.com/



FUTURE WOMEN

OWNER

Coordinator - University of Chemical Technology and Metallurgy - BULGARIA

Partners: Mindshift Talent Advisory Ida – PORTUGAL, Business Foundation for Education – BULGARIA, Foundation Maker's Place Private Company – GREEC, Bahcesehir Universitesi Foundation – TURKEY, Danmar Computers SP zo.o – POLAND, Oulun University of Applied Sciences – FINLAND, Viva Femina – POLAND

THEMATIC FOCUS

STEM

TERRITORIAL SCOPE

EU

DESCRIPTION

In FUTURE WOMEN we intend to promote digital and entrepreneurial competencies of women relevant to STEM jobs through the innovative use of digital teaching and learning materials and tools. With our products, we want to address digital transformation through the development of digital readiness, resilience, and capacity. Results:

- FUTURE WOMEN e-profile & MOOC that includes the benchmarking of career trends and identification of women role models in digital careers.
- FUTURE WOMEN CPD program for career counsellors, equipping them with new methods and techniques to better support female students.
- FUTURE WOMEN learning lab and an online forum to encourage the training of career counsellors and exchange of good practices in new and innovative methods and tools on digital economy and STEM demand trends.

Total budget: 250.000 €

Funding institution: Erasmus+ Programme

<u>Target group:</u> Women and girls <u>Time frame:</u> 2023 - 2025

LINK TO SOURCE

https://future-women.eu/bg/



GE-STEAM: GENDER EQUALITY IN SCIENCE, TECHNOLOGY, ENGINEERING, ART AND MATHEMATICS

OWNER

Lead partner: Casa Corpului Didactic Mures, Romania

Partners: Academia Postal 3 Vigo S.L. (ES), FUNDATIA PROFESSIONAL (RO), FUTURE IN PERSPECTIVE LIMITED (IE), First Private School Leonardo da Vinci Ltd (BG)

THEMATIC FOCUS

STEAM

TERRITORIAL SCOPE

EU

DESCRIPTION

The project was concerned with gender equality in preschool, primary and lower secondary education and aimed at contributing to increased capabilities to reduce stereotypes by developing a series of innovative and interactive materials, tested through a behavioural science lens for their potential to increase equality by amendment of practical everyday skills and social norms regarding attitudes and stereotypes in teaching STEAM. Results:

- Introducing ART in STEM Guidelines for Teachers and Kit-hands-on self-teach
 activities for children; The concrete results were drawings, posters, pictures,
 registrations, other Art objects, etc representing both Art and Science (and
 technology) in gender-fair teaching. Each partner developed 5 materials
 adjusted to the previously allocated level and to the lessons included in Modules
 1-3.
- Peer Mentoring and Business Mentoring Schemes. Internal mentoring: classroom STEAM peer-mentors observed their peers in the same school/institution/organisation with observation sheets and external mentoring: 1 teacher with 5 pupils was present at the company where Business Mentors work, to get in contact with what it means to be a business woman.
- The final result although not financed of the project is an E-book, uploaded on an USB which contains all the intellectual outputs. This E-book was given to all participants at the beginning of the Multiplier event, by all four partners."

Total budget: 149,073.99 €

<u>Funding institution:</u> Erasmus + Programme <u>Target group:</u> Adult educators and girls <u>Time frame:</u> 01.09.2020 - 31.08.2022

LINK TO SOURCE

https://gesteamproject.eu/



HYPATIA

OWNER

Sixagon Nonprofit Kft. Egyenlítő Alapítvány

THEMATIC FOCUS

STEAM

TERRITORIAL SCOPE

EU

DESCRIPTION

The aim of the project is to contribute to strengthening the attitude and sense of competence of 8-10-year-old girls towards mathematics by developing a drama pedagogy program. During the development period, a script for a workshop series consisting of six sessions will be prepared, which will be implemented in classroom conditions. Be a number queen too! provides a drama-pedagogical response to the social challenge that, from the age of 12 onwards, the turning away of girls from the field of mathematics can be continuously felt, which significantly hinders the so-called their application in STEM (scientific and technological disciplines) careers.

Total budget: N/A

Funding institution: Sixagon Nonprofit Kft.Egyenlítő Alapítvány

<u>Target group:</u> Schoolgirls <u>Time frame:</u> ongoing

LINK TO SOURCE

https://www.sixagon.hu/hirek/tamogatast-kapott-a-legyel-te-is-szamkiralyno



INSPIRING GIRLS* EXPEDITION

OWNER

Inspiring Girls* Expedition

THEMATIC FOCUS

STEAM

TERRITORIAL SCOPE

Region

DESCRIPTION

Each summer, they lead tuition-free, multi-day expeditions for high school girls that combine science, art, and a return trip. Their expeditions are led by professional female scientists, artists and wildlife guides. During each expedition, the team conducts scientific and artistic research on the environment around them. In small groups, participants design and implement science projects that are presented to the public on the last full day of their expeditions.

Total budget: N/A

Funding institution: Inspiring Girls* Expedition

Target group: Girls and Women

Time frame: Since 1999

LINK TO SOURCE

https://www.inspiringgirls.org



LEGYÉL TE IS SZÁMKIRÁLYNŐ!

OWNER

Sixagon Nonprofit Kft. Egyenlítő Alapítvány

THEMATIC FOCUS

STEAM

TERRITORIAL SCOPE

Country/National

DESCRIPTION

The aim of the project is to contribute to strengthening the attitude and sense of competence of 8-10-year-old girls towards mathematics by developing a drama pedagogy program. During the development period, a script for a workshop series consisting of six sessions will be prepared, which will be implemented in classroom conditions. Be a number queen too! provides a drama-pedagogical response to the social challenge that, from the age of 12 onwards, the turning away of girls from the field of mathematics can be continuously felt, which significantly hinders the so-called their application in STEM (scientific and technological disciplines) careers.

Total budget: N/A

Funding institution: Sixagon Nonprofit Kft.Egyenlítő Alapítvány

<u>Target group:</u> Schoolgirls <u>Time frame:</u> ongoing

LINK TO SOURCE

https://www.sixagon.hu/hirek/tamogatast-kapott-a-legyel-te-is-szamkiralyno



L'ORÉAL-UNESCO FOR WOMEN IN SCIENCE

OWNER

L'Oreal Romania & the National Commission of Romania for UNESCO & The Executive Agency for Higher Education, Research, Development and Innovation Funding (UEFISCDI)

THEMATIC FOCUS

STEM

TERRITORIAL SCOPE

Country / National

DESCRIPTION

Research competition designed to support women (PhD candidates or post-docs) in STEM.

Total budget: 50,000 EUR for 2024 (2 grants for life sciences, 2 grants for physical

sciences, 1 grant for computer science) **Funding institution:** L'Oréal and UNESCO

Target group: Women researchers

Time frame: 2020 - ongoing

LINK TO SOURCE

https://www.forwomeninscience.com/challenge/show/103



MAKER GIRLS

OWNER

La Estación de la Ciencia y la Tecnología Universidad de Burgos

THEMATIC FOCUS

STEAM

TERRITORIAL SCOPE

City/Province

DESCRIPTION

The Maker Girls program aims to foster interest in scientific-technological vocations among girls, in addition to promoting self-confidence and teamwork through female solidarity. The program seeks to foster girls' interest and confidence in the technological field, providing them with the necessary tools to explore their creativity and develop technical skills.

Total budget: 15.000 €

Funding institution: FECYT (Spanish Foundation for Science and Technology). Ministry of

Science, Innovation and Universities City Hall of Burgos **Target group:** Girls from 2nd-4th year of primary school

Time frame: 2019-2024

LINK TO SOURCE

https://laestacioncyt.es/formacion/cursos/maker-girls-2023-24/



MEITNER PROJECT. REMEMBERING LISE MEITNER

OWNER

Institute of Corpuscular Physics (IFIC) University of Valencia

THEMATIC FOCUS

STEM

TERRITORIAL SCOPE

City/Province

DESCRIPTION

A stage play, a workshop on science and gender, a science and arts contest, videos on social networks and a great deal of didactic material to emphasize the role of women in science, bringing past and present female scientists in Nuclear and Particle Physics close to the general public. The aim is to promote social equality and scientific culture, fostering scientific vocations and highlighting the legal, cultural, historical and social barriers that women scientists have faced throughout history.

Total budget: N/A

Funding institution: FECYT (Spanish Foundation for Science and Technology). Ministry of

Science, Innovation and Universities

Target group: General public, High School Students

Time frame: 2002-2024

LINK TO SOURCE

https://recordandoalise.es/en/



OTTER

OWNER

Geonardo Környezetvédelmi Térinformatikai És Regionális Projektfejlesztő Kft., Hungary

THEMATIC FOCUS

STEAM

TERRITORIAL SCOPE

EU

DESCRIPTION

OTTER aims to make Education Outside the Classroom more popular. With passionate educators, students can improve their scientific knowledge, get closer to STEAM subjects and become better citizens. The benefits of the Education Outside the Classroom methodology are tangible. They can be achieved by mixing up a variety of activities such as field trips, community and botanical gardens, museums, zoos, scientific centres, community settings, the internet, enhanced digital learning and media.

<u>Total budget:</u> N/A <u>Funding institution:</u> EU

Target group: Teachers and Students

Time frame: Since 2021

LINK TO SOURCE

https://otter-project.eu/about



SHE CHOOSES STEM FOR THE FUTUREFIRST GIRLS

OWNER

Lead Partner: Municipality of Narni, UMBRIA, Italy,

Bulgarian Partner: The foreign language school "Simeon Radev", Pernik

THEMATIC FOCUS

STEM

TERRITORIAL SCOPE

EU

DESCRIPTION

The purpose is to encourage young women to choose studies in science, technology, engineering and mathematics to reduce the gender gap in tomorrow's world. Results:

- Guidelines are a practical handbook for teachers, educators and parents on how to encourage girls to choose STEM subjects and break down gender barriers;
- Digital toolkits include interactive and engaging resources to educate and inspire female students about opportunities in STEM;
- Video storytelling tells how the partners have worked and continue to work to inspire the next generation;
- Four National Workshops in Schools will be held during 2024 and the closing event in Brussels in September.

Total budget: N/A

Funding institution: Erasmus+ Programme

<u>Target group:</u> Students and girls <u>Time frame:</u> 01.11.2022 – 31.10.2024

LINK TO SOURCE

https://www.stemforthefuture.eu/project-result/



STEM4GIRLS UC3M

OWNER

Universidad Carlos III. Madrid

THEMATIC FOCUS

STEAM

TERRITORIAL SCOPE

City/Province

DESCRIPTION

One of the main objectives of STEM for Girls uc3m is to create role models for high school students to draw inspiration from when making decisions, without gender bias. The program allows girls and young people to learn about the excellent work currently being carried out by the University's researchers and makes visible the decisive contribution to science of women scientists throughout History.

Total budget: N/A

Funding institution: Women's Institute. Ministry of Equality FECYT (Spanish Foundation for

Science and Technology). Ministry of Science, Innovation and Universities

Target group: Girls from high school

Time frame: 2019-2024

LINK TO SOURCE

https://www.uc3m.es/secundaria/en/stem-girls-uc3m



THE ASSOCIATION OF WOMEN IN ENGINEERINGS, SCIENCE, AND TECHNOLOGY (AFIST)

OWNER

Nicoleta Safca, engineer

THEMATIC FOCUS

STEM

TERRITORIAL SCOPE

Country/National

DESCRIPTION

NGO created to promote and support women in technical areas through mentoring, educational, and cultural activities.

Total budget: N/A

Funding institution: N/A

Target group: Women in technical areas

Time frame: ongoing since 2023

LINK TO SOURCE

https://afist.ro/en/despre-noi/



THE INTERNATIONAL GIRL'S DAY IN ICT

OWNER

Association of Business Women of Serbia

THEMATIC FOCUS

STEM

TERRITORIAL SCOPE

Country/National

DESCRIPTION

The Association of Business Women of Serbia (ABW Serbia) has been celebrating International Girl's Day in ICT for fourteen consecutive years, aiming to empower girls in choosing future professions, not succumbing to stereotypes, but rather being guided by their personal interests and talents. Over 10.000 final year elementary school girls have been involved in various activities organised by ABW Serbia over the past years, such as visits to ICT companies and companies owned by women, as well as a competition "Catch the Idea" for the best video work.

Total budget: N/A

Funding institution: In addition to the Government of the Republic of Serbia, institutional support in previous years has been provided by the National Assembly of the Republic of Serbia, the Ministry of Economy, the Ministry of Information and Telecommunications, the Ministry of Science, Technological Development and Innovation, the Ministry of Tourism and Youth, the City of Belgrade, the Commissioner for the Protection of Equality, UN Women, UNICEF, the International Telecommunication Union (ITU), and the EU portal SME Week.

Target group: Girls

<u>Time frame:</u> Ongoing since 2010.

LINK TO SOURCE

https://poslovnezene.org.rs/en/2022/12/05/international-girls-in-ICT-DAY/



WOMEN IN SCIENCE

OWNER

Universidad de Navarra

THEMATIC FOCUS

STEM

TERRITORIAL SCOPE

Country/National

DESCRIPTION

One of the limitations to more girls wanting to pursue a scientific career is the lack of female role models in these fields. With the aim of ending this handicap, the University of Navarra Science Museum presents the project "Women in Science": an animation series that narrates, through short videos and in an informative tone, the biographies of relevant female scientists. in their field but which are unknown to the general public. In addition, the material is presented in the form of a book as an informative tool for schools and in which you can find various activities in each chapter.

Total budget: N/A

Funding institution: FECYT (Spanish Foundation for Science and Technology). Ministry of

Science, Innovation and Universities Women for Science

Target group: Girls from primary and secondary schools and general public

Time frame: 2023

LINK TO SOURCE

https://museodeciencias.unav.edu/actividades/la-mujer-en-la-ciencia



WOMEN IN SCIENCE: PRESENT, PAST AND FUTURE

OWNER

Universidad de Sevilla

THEMATIC FOCUS

STEM

TERRITORIAL SCOPE

Country/National

DESCRIPTION

It is a scientific theatre activity in which five researchers from the University of Seville bring to life five researchers from the past, and then talk to them about their lives as scientists and invite them to be part of the exciting world of science. This work aims to highlight the importance of science, encourage scientific vocations and visualise the role of women in science. In particular, we want to bring girls closer to this world, offering them references in which they can feel reflected.

Total budget: N/A

Funding institution: FECYT (Spanish Foundation for Science and Technology). Ministry of

Science, Innovation and Universities

Target group: Students from 8 to 14 years old

Time frame: 2006 - 2024

LINK TO SOURCE

https://institucional.us.es/cientificas/



WOMEN IN STEM

OWNER

STEMbg

THEMATIC FOCUS

STEM

TERRITORIAL SCOPE

Country/National

DESCRIPTION

STEMbg is promoting the achievements of Bulgarian women with careers in the fields of science, technology, engineering and mathematics (STEM). If you are a woman with an interesting, adventurous and challenging profession and would like to share your experience, please take a moment to fill out our questionnaire. Thus, you can become an inspiration for more young girls in their choice of profession.

Total budget: N/A

Funding institution: Bulgarian Fund for Women

Target group: women in STEAM

Time frame: ongoing

LINK TO SOURCE

https://stembg.org/



WOMEN TECHEU

OWNER

European Innovation Council and SMEs Executive Agency (EISMEA)

THEMATIC FOCUS

STEM

TERRITORIAL SCOPE

EU

DESCRIPTION

The Women TechEU pilot scheme launched on 13th July 2021 as a new EU scheme supporting deep-tech start-ups led by women and helping them grow into tomorrow's deep tech champions. Under the Women TechEU pilot call, 50 promising deep-tech start-ups from the EU Member States and Associated Countries are receiving targeted funding and first-class coaching and mentoring. After its successful pilot, in 2022, the Commission has launched a second WomenTechEU call, with an increased budget of 10 million euro. Another 134 deep-tech companies, founded by women, will be getting financial support and mentoring services as a result.

Target group: Women

<u>Time frame:</u> Ongoing since 2021 <u>Total budget:</u> 10.000.000 € <u>Funding institution:</u> EU

LINK TO SOURCE

 $\underline{\text{https://eismea.ec.europa.eu/programmes/european-innovation-ecosystems/women-teche}}\\ \underline{\text{u_en}}$



WOMEN2INVEST PROGRAMME

OWNER

European Institute of Innovation & Technology (EIT)

THEMATIC FOCUS

STEAM

TERRITORIAL SCOPE

EU

DESCRIPTION

Woment2Invest programme seeks to help women with backgrounds in science, technology, engineering, arts and mathematics (STEAM) to start careers in venture investment."

Total budget: N/A

Funding institution: EIT

Target group: women with backgrounds in science, technology, engineering, arts and

mathematics (STEAM)

<u>Time frame:</u> ongoing since 2022

LINK TO SOURCE

https://eit.europa.eu/our-activities/opportunities/2023-call-women2invest-now-open



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