

Partnerships

6 partners from 5 European countries are involved in the project:

Universitat de Girona (Spain)

EHU/UPV (Spain)

Università Federico II (Italy)

Katholieke Universiteit Leuven (Belgium)

Dublin City University (Ireland)

Pixel (Italy)

FOR INFORMATION PLEASE CONTACT:

Jaume Ametller Leal

Universitat de Girona (Spain)

e-mail: jaume.ametller@udg.edu



Lorenzo Martellini

Pixel

Firenze (Italy)

e-mail: lorenzo@pixel-online.net



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● Context

- Digital transformation initiatives often fail due to a lack of attention to **teacher professional development** and research-based design.
- This results in ineffective programs that are hard for educators to integrate.
- To improve their impact and address the gender gap in STEM, it's crucial to implement pedagogically effective and inclusive teaching practices that encourage female participation from an early age.

● Aims

- To develop a **functional STEAM approach** for pre-service teacher training with a gender perspective and to foster competence in teaching computational thinking.
- To support the **digital transition** by integrating computational thinking into STEM teaching.

● Target Groups

The project is addressed to:

- **Pre-service secondary school teachers** receive a new syllabus as part of their initial teacher training, which will equip them with a functional STEAM approach and a gender perspective.
- **University Teachers:** they are provided with new guidelines and resources to effectively train the next generation of secondary school teachers in computational thinking and a gender inclusive STEAM approach.
- **Secondary School Teachers:** science, maths, and technology teachers receive online materials, including crucial assessment tools, to help them incorporate Computational Thinking (CT) into their STEM subjects.

● Expected Results

- **Three microcredentials** to certify teacher competencies in Computational Thinking (CT) within STEM, based on a new competence framework.
- A **teacher education program** for pre-service secondary school teachers, featuring three short modules (1 ECTS each) that can be integrated into existing curricula.
- A **toolkit** for teacher trainers and in-service teachers, containing teaching sequences, student assessment tools, and professional development materials.

