

## Partnerships

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

**Universitat de Girona** (Catalonia)  
**EHU/UPV** (Basque Country)  
**Università Federico II** (Italy)  
**Katholieke Universiteit Leuven** (Belgium)  
**Dublin City University** (Ireland)  
**Pixel** (Italy)

FOR INFORMATION PLEASE CONTACT:

**Paul van Kampen**  
Dublin City University (Ireland)  
Paul.van.Kampen@dcu.ie



**Jaume Ametller Leal**  
Universitat de Girona (Catalonia)  
e-mail: jaume.ametller@udg.edu



The project Co-Think is co-funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the Servicio Español para la Internacionalización de la Educación (SEPIE). Neither the European Union nor the National Agency SEPIE can be held responsible for them.

Project Portal: <https://cothink.pixel-online.org>  
Project Number: 2025-1-ES01-KA220-HED-000358437





## ● 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

Co-Think has two main 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.

