

CATALONIA (TOGETHER WITH EXCEED)

Bio

About EXCEED:

Erasmus+ CoVE are international partnerships between VET institutions, professional education centers, and private or public organizations. They collaborate to equip talent with skills for future challenges.



The EXCEED project builds an European network of six vocational excellence centers across five countries to drive innovation and sustainability in Advanced Manufacturing.

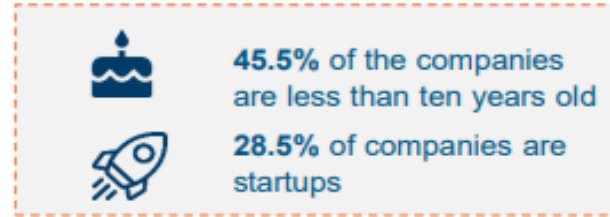
Website with Collaborative AI:

<https://exceed-cove.eu/>

Vocational education plays a crucial role in preparing the workforce of the future and shaping skills profiles.

CATALONIA (TOGETHER WITH EXCEED)

A brief introduction of the AM Industries' skills within Catalonia



The technology with most companies detected is **cybersecurity**, but the companies with the highest turnover are those focused on **artificial intelligence** and the **Internet of Things (IoT)**

Source: ACCIÓ
Latest available data on turnover and workers, mainly from 2019

CATALONIA (TOGETHER WITH EXCEED)

A brief introduction of the AM Industries' skills within Catalonia



Cybersecurity

Number of companies offering technology-related products/services

361



IoT

251



Big Data

220



AI

179



Cloud

165



Robotics

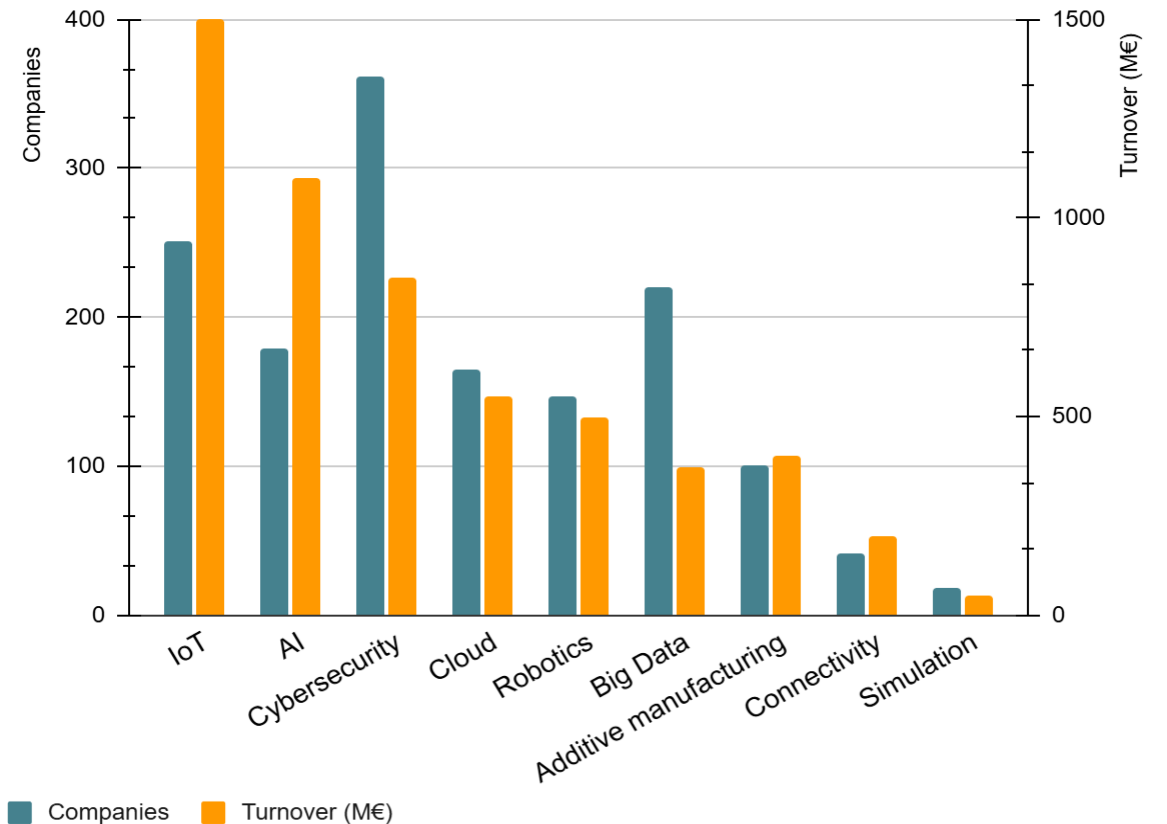
147



Additive Manufacturing

100

Number of companies and turnover by technology



CATALONIA (TOGETHER WITH EXCEED)

Challenges and opportunities, including some facts and figures

EXCEED - EXCELLENCE IN GREEN AND DIGITAL MANUFACTURING AFFRONTING THE DIGITAL AND GREEN TRANSITION CHALLENGE:

As one of the pillars of the European economy, AM has been strongly **impacted by the twin transition**, generating disruptive changes, beside the urgency to foster industry **decarbonization**.

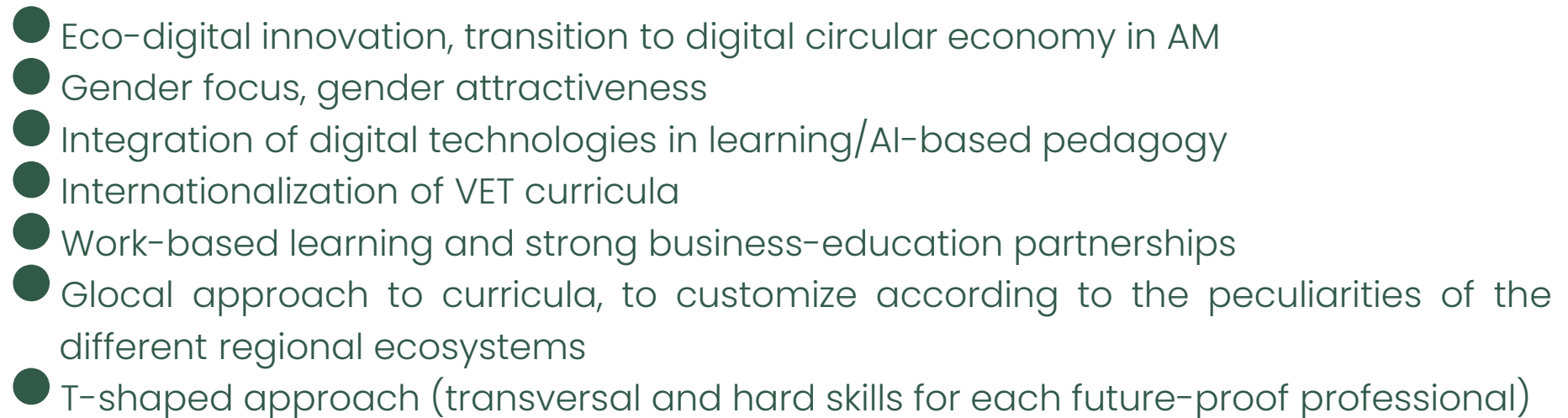
- To face those and new challenges, citizens, present and future workforce **needs new competencies**, for life and work.

VET providers can play a crucial role preparing the workforce and the society of the future, no one left behind, increasing their responsiveness, operating in strong connection with policy levels

CATALONIA (TOGETHER WITH EXCEED)

Challenges and opportunities, including some facts and figures

EXCEED PRINCIPLES we are following in our activities connected to curricula innovation and development:

- 
- Eco-digital innovation, transition to digital circular economy in AM
 - Gender focus, gender attractiveness
 - Integration of digital technologies in learning/AI-based pedagogy
 - Internationalization of VET curricula
 - Work-based learning and strong business-education partnerships
 - Glocal approach to curricula, to customize according to the peculiarities of the different regional ecosystems
 - T-shaped approach (transversal and hard skills for each future-proof professional)

CATALONIA (TOGETHER WITH EXCEED)

Challenges and opportunities, including some facts and figures

Partners:

18 full and 21 associates in 5 countries:

- Italy, (general coordinator)
- Spain,
- Finland,
- Czech Republic,
- and Greece

Four main outputs →

Website with Collaborative AI:

<https://exceed-cove.eu/>



CATALONIA (TOGETHER WITH EXCEED)

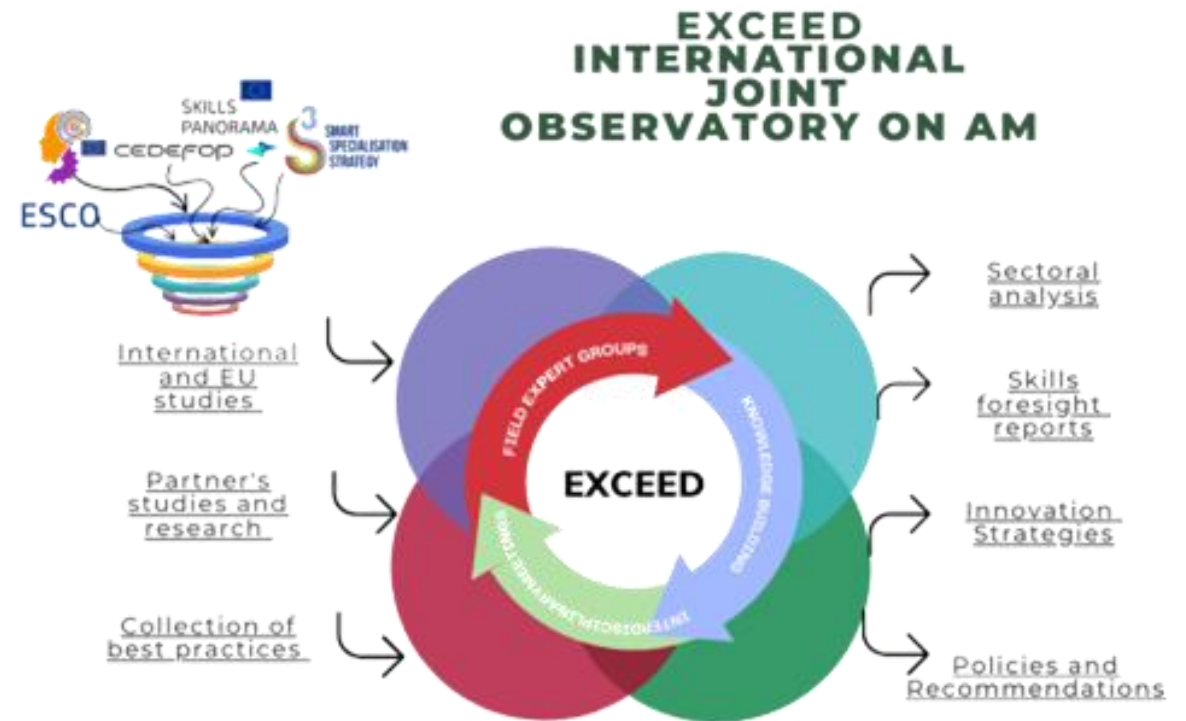
Challenges and opportunities, including some facts and figures

Output 1 INTERNATIONAL JOINT OBSERVATORY

Based on a strong **business-education partnership approach**, involving universities, research centres and companies.

Adopting of a systematic approach to skills foresight with the aim of providing crucial **findings for designing Innovative VET curricula** and for policies.

Supporting **co-designed cross regional development strategies for a joint "COVES skills ecosystem** for innovation, regional development and social cohesion" governance model.



CATALONIA (TOGETHER WITH EXCEED)

Challenges and opportunities, including some facts and figures

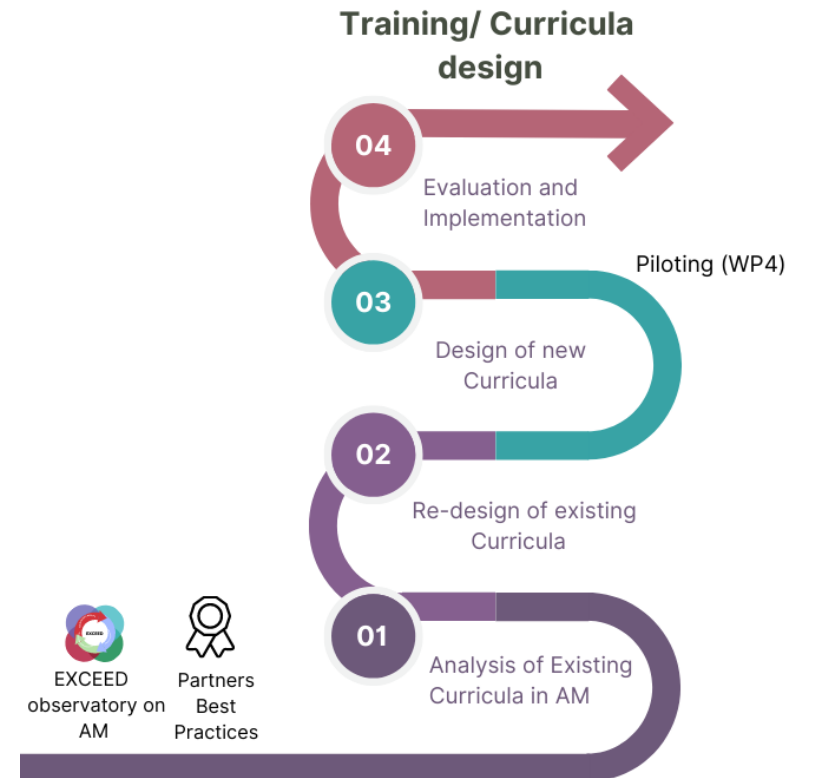
Output 2 CURRICULA INNOVATION AND DEVELOPMENT

Vet Curricula

Design and development and testing of a set of n. 16 curricula , **12 existing ones updated**, n. **4 brand new curricula** designed. Focus on HIGHER VET curricula, EQF 4 and 5.

Long Life Learning

Design and testing of a LLL **upskilling** and **reskilling** offer for adults/low-skilled workers.

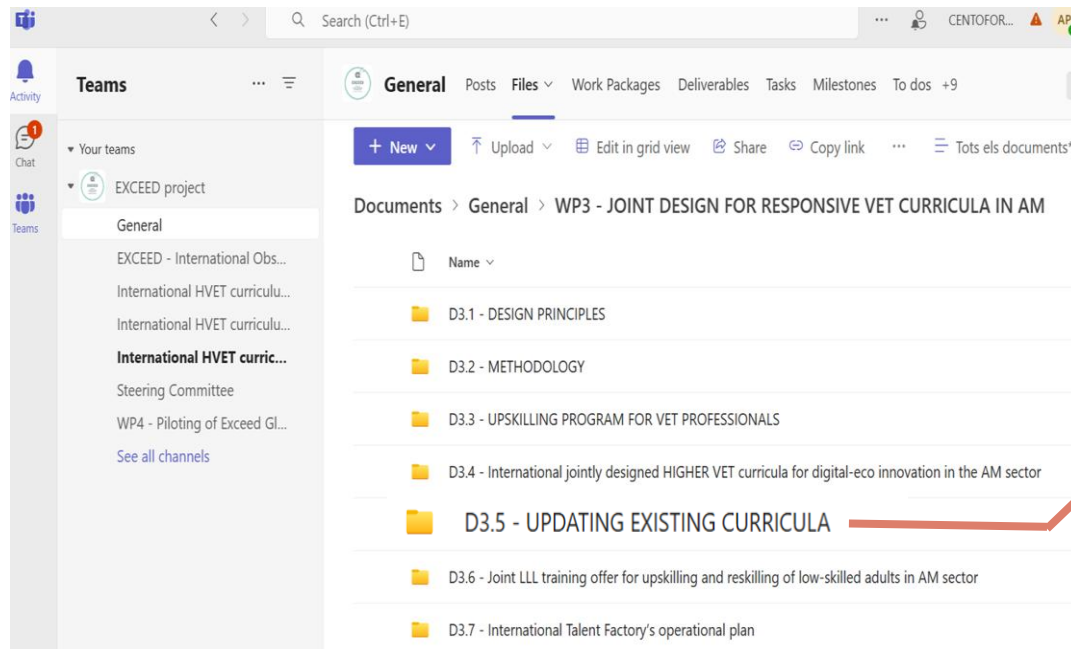


CATALONIA (TOGETHER WITH EXCEED)

Challenges and opportunities, including some facts and figures

Output 2 CURRICULA INNOVATION AND DEVELOPMENT

Curricula Comparison



Develop synergies with other partners

PARTNER	TRAINING COURSE	EQF LEVEL	DURATION	PARTNERS INTERESTED IN REPLICATING	PARTNERS INTERESTED IN JOINT IMPLEMENTATION
CENTOFORM	Technician for mechanical industrial design and drawing- Tecnico per il disegno meccanico e la progettazione industriale IFTS	EQF4	800 hours		
CENTOFORM	Technician for the sustainability and the circular economy of industrial processes	EQF4	800 hours		EdT
EdT	Industrial Mechatronics	EQF5	2000 hours		CIS, INPRO
EdT	Production scheduling in mechanical manufacturing	EQF5	2000 hours		Centofrom
CIS	Installation and Maintenance Technician for Industry 4.0 Systems	EQF4	800 hours		
CIS	Higher Technician in Digital Marketing of Food Products	EQF5	2000 hours		
CIS	Higher Technician for Digital Automation	EQF5	2000 hours		EdT
OSAO	Using a robot in the production process	EQF4	180 hours	Centofrom	
OSAO	Installation of machine automation systems	EQF4	180 hours		EdT
OSAO	Electronics installations	EQF4	540 hours	Centofrom	CIS, INPRO, Centofrom



Nexts steps

Our future goal is to create new projects and new spaces (physical or virtual), where teacher and students, from different countries and disciplines can share their learning experiences.

CATALONIA (TOGETHER WITH EXCEED)

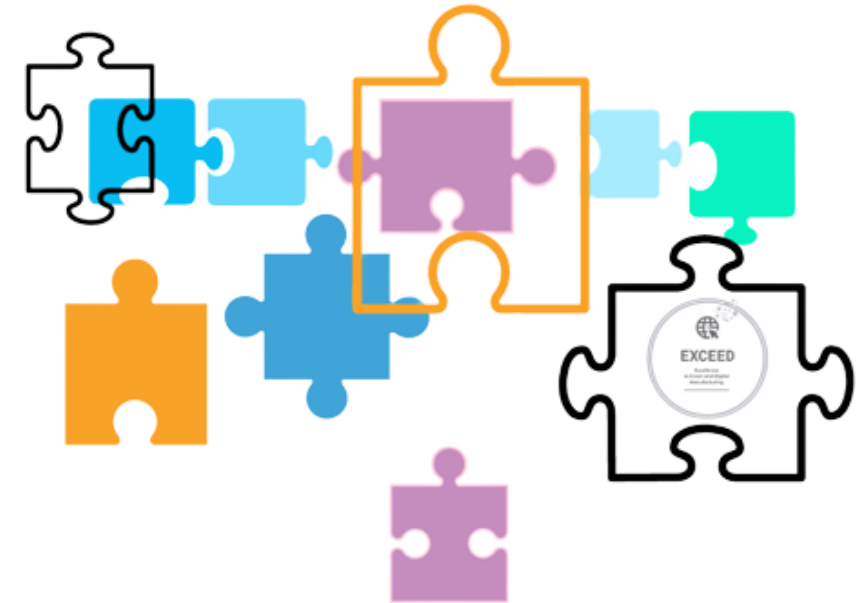
Challenges and opportunities, including some facts and figures

Output 3 CONSTRUCTION OF A TALENT FACTORY

Design, development and implementation of **joint talent management strategies** for talent attraction and retention in all partner countries and in the EU.

Establishment and piloting of **an International Talent factory supporting the eco-digital transition of AM.**

INTERNATIONAL TALENT FACTORY



CATALONIA (TOGETHER WITH EXCEED)

Challenges and opportunities, including some facts and figures

Output 4 SUSTAIN OF INTERNATIONAL MOBILITY

Low-skilled adults

Each COVE will recruit 20-30 **low-skilled adults** for lifelong learning (LLL) pilot actions, ensuring at least one **short-term (7-day) physical mobility** scheme for 20 participants.

- During mobility, they will gain work experience with AM companies in partner COVEs, supported by tutors.
- Mobility experiences will be tracked using the ECVET mobility toolkit.

For Higher VET

For **Higher VET**, at least one redesigned EQF4 dual training path (**800 hours, 40% on-the-job training**) and one new EQF5 curriculum (2 years, 2000 hours, 40% on-the-job training) will be tested.

- Each COVE will engage 20 students, **with 10 participating in long-term (60-day) mobility internships**, benefiting a total of 60 students

VET Professionals

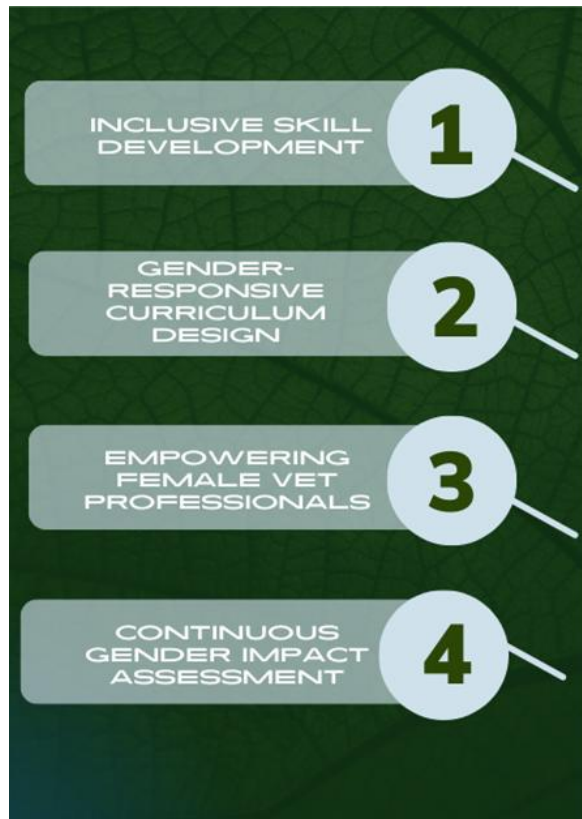
For Higher VET will undergo blended training, including online learning and **2+2 day study visits** to international institutions.

- Mobility support includes linguistic and intercultural training, career guidance, and tutor assistance. Virtual preparatory meetings will ensure smoother learning experiences abroad.

CATALONIA (TOGETHER WITH EXCEED)

A practical example

EXCEED focus on gender



At EXCEED, we're committed to **promoting gender equality as an integral part of our project's mission.** Drawing inspiration from our project's core objectives and methodologies, we've developed a comprehensive **Gender Equality Plan for VET providers**, that embodies our dedication to inclusivity and diversity. Here's how we're actively working towards ensuring gender equality within our project.

CATALONIA (TOGETHER WITH EXCEED)

A practical example

EXCEED focus on gender



EdT Women Days

ATTRACTING WOMEN TO WORK IN THE INDUSTRIAL SECTOR



INSTITUT
ESCOLA DEL TREBALL
DE BARCELONA

CATALONIA (TOGETHER WITH EXCEED)

A practical example

EXCEED focus on gender

Talks in primary and secondary schools with gender perspective in Industry 4.0



The flyer is for 'EdTWomenDays Real Experience'. It features the EdTWomenDays logo at the top left, the 'Logo Partner' logo at the top right, and the 'AGENCIJA DEL TREBALL DE BARCELONA' logo. The title 'Real Experience' is in large pink letters. Below it, the text reads 'Sessió pels Centres de Primària i 1r i 2n curs d'ESO'. A central image shows a group of people in a meeting. Below the image, it says '60 min'. The main content is a numbered list: 1. Presentació (Introduction), 2. L'experiència (The experience), and 3. El resultat (The outcome). A 'Recursos' (Resources) section lists materials like the EdTWomenDays manual, a computer, and handouts. At the bottom, there are logos for 'CaixaBank', 'dualitza', 'EPEMPRESA', and 'antaviana'.

Session for Primary Schools and 1st and 2nd Year of Secondary Education

EdTWomenDays

PartnerLogo

60 min

1. Introduction

The facilitators of the session will introduce themselves by name and explain their roles within the school. Then, they will briefly present the **EdTWomenDays** project using images from a video.

2. The Experience

The experience is divided into two parts:

- We will start by watching a short animated video where the protagonist, **Laia**, is a girl thinking about what she wants to be when she grows up.
- Next, we will engage in a group activity about different professions.

3. The Outcome

We will conclude the session and showcasing the **Real Experience** practices through



and showcasing the **Real Experience** practices through the school.

CATALONIA (TOGETHER WITH EXCEED)

