Cocreating active urban ecosystems for circular economy in Europe.

YouRban

Introduction to YouRban Project

SUSTAINABLE PLACES 2024

Davide Delfrate
Politecnico di Milano

Cities 2
MILAN
BALCELONA

Countries 4
ITALY
SPAIN
LITHUANIA
AUSTRIA

Partners 8
POLITECNICO DI MILANO
AIVOX
MILANO MEDITERRANEA
FIBEREUSE TECH
ORIGONI E STEINER ARCHITETTI
LABAULA ARQUITECTES
SYXIS
DESIGNAUSTRIA

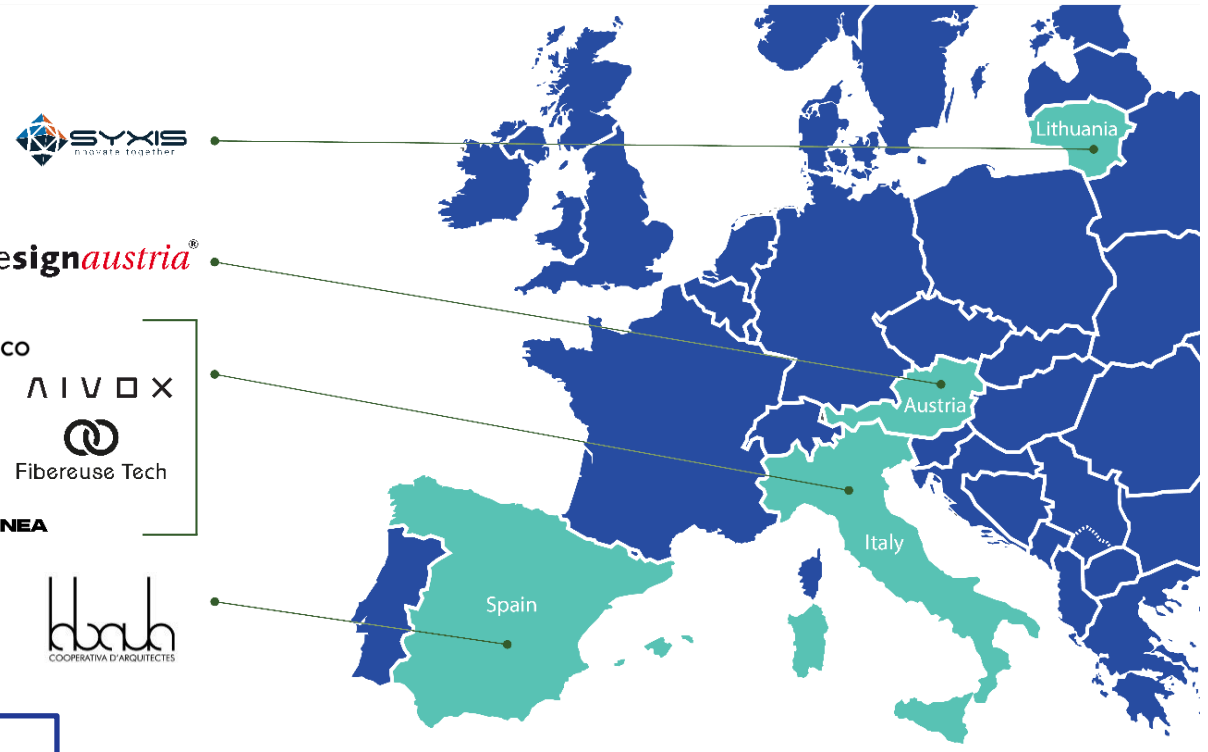
Co-funded by the European Union

New European Bauhaus
beautiful | sustainable | together

This project has received funding from the European Union's Horizon Europe Framework Programme HORIZON-CL4-2023-HUMAN-01-53, Project Number: 101135997

Project Overview

Urban cocreative, sustainable and inclusive ecosystem, for the recycling of reinforced polymers on-the-truck



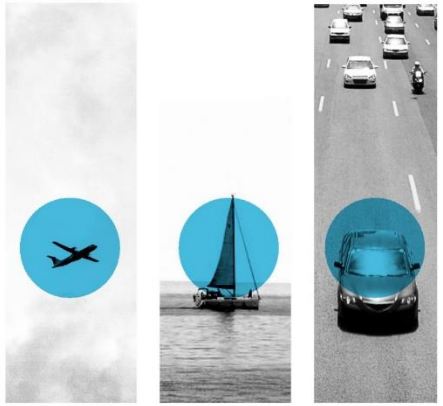
Horizon Europe No:101135997
Grant: **€ 2.5 Million**
Duration: **30 months** 2023-2026
Consortium: **8 partners**, from **4 EU countries**.
Coordinator: **Politecnico di Milano**
Aim: **cocreating an active urban ecosystem for the recycling and upcycling of objects and materials, in relation to reinforced polymers coming from local environment.**

Two 10-days events in Milan and Barcelona on composite recycling and circular economy

Project Motivation

- **Fiber-Reinforced Plastics (FRP) are widely adopted in several massively used products due to their better mechanical properties – weight ratio and external environment resistance compared to metals**

HOUSING CONSTRUCTION, FU RNITURE, CREATIVE

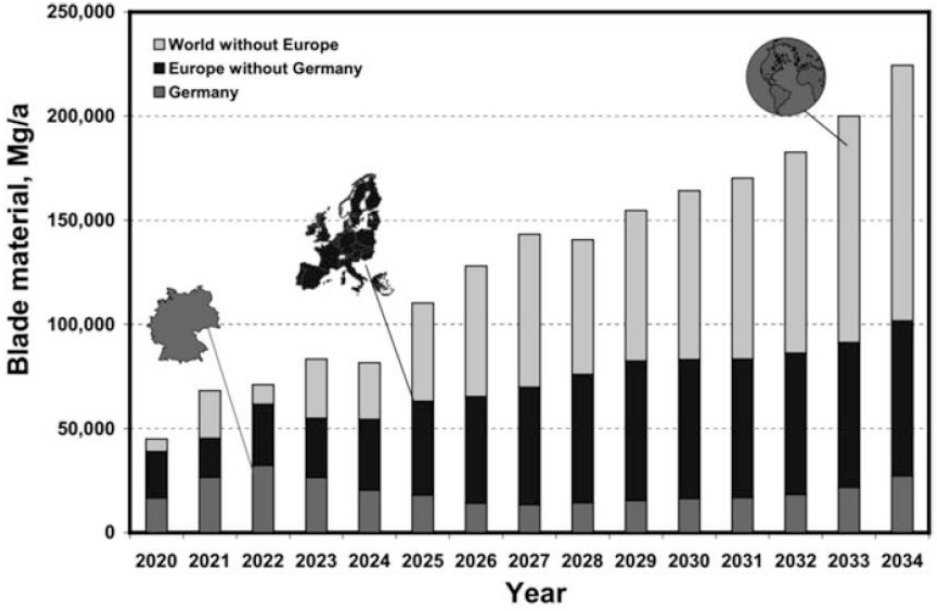


TRANSPORT AEROSPACE, NAUTICAL, AUTO

ENERGY

SPORTS

Example: Expected amount of EoL blades

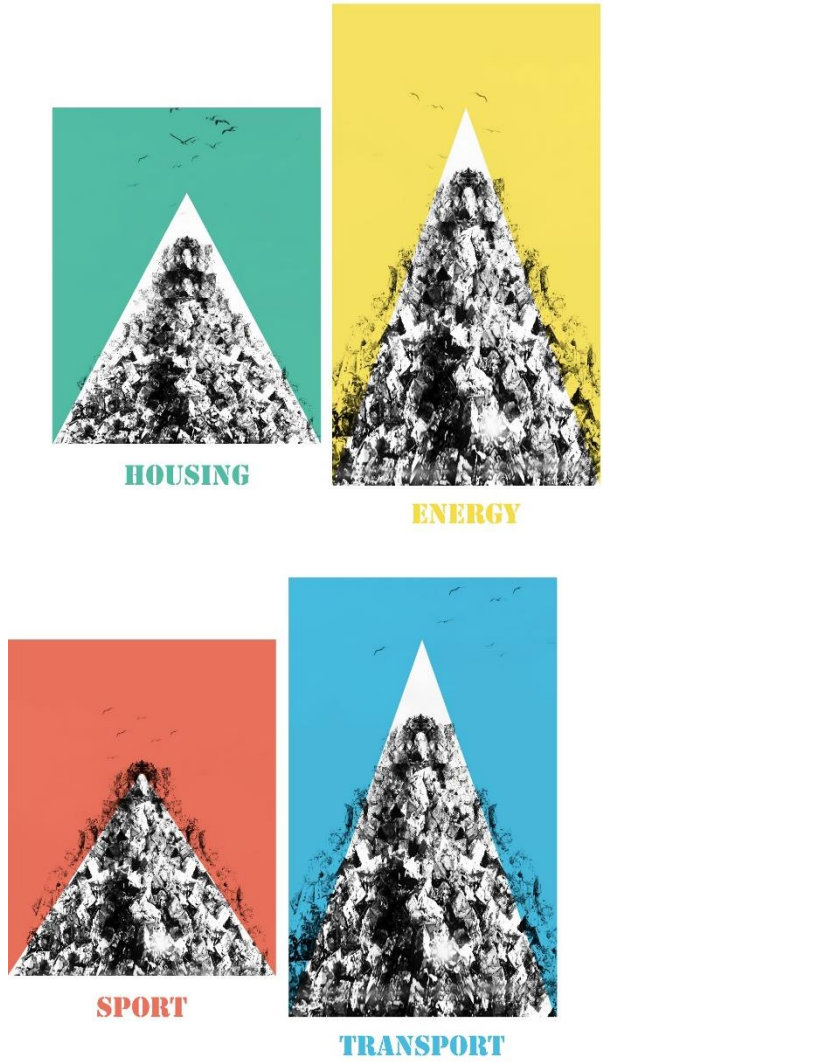


- **In Europe, in 2025 almost 700,000 tons of FRP waste are expected, with a growing trend for the future**

Project Motivation

- **Recycling of FRP at industrial scale (especially thermosets) is challenging due to:**
  - Lack of mature demanufacturing and reprocessing technologies
  - High costs related to waste sorting and preparation
  - High costs related to logistics
  - Highly variable conditions and properties of the waste, leading to variable characteristics of recycled material
  - Unstable and unpredictable waste supply of post-use products
  - Poor consumer acceptance of products embedding recycled materials

- **Nowadays, landfilling and energy recovery are still the typical solutions for FRP disposal**



YouRban Solution

- **Mobile flexible recycling and reprocessing unit on board of a truck**
- **Operating in the urban environment**
- **Citizens, artists, urban factories and MSMEs engagement, thanks to:**
  - Cascade funding
  - Workshops and events
  - Digital Co-Creation tool
  - Digital Learning tool
- **Regenerative and added-value manufacturing**
- **Attractive user experience**
- **Inspired by New European Bauhaus**

YouRban Objectives

A new approach to local recycling

- Efficient, safe, economically viable
- Flexible and resilient
- Avoid the economical and environmental impact of waste transportation
- Very short value chain

New value chains based on local urban economy approach

- High value-added and tailor-made production
- Co-Creation tool for problem-solution matching
- Interdisciplinary approach
- New opportunities for local artisans and MSMEs

Inclusive and human-centered environment

- Social, environmental and economical sustainability
- Regenerative design
- Co-Creation approach
- IPR protection methodology for Co-Creation

Social and professional inclusion of different actors

- Knowledge sharing
- Neighborhood Participatory Approach
- Artistic residences
- Raising recycling as an attractive career option

Create awareness

- Tools, shows, workshops on circular economy and composite recycling
- Two ten-days events with de-remanufacturing demonstrations

Related Projects

Definition and optimization of FRP de-remanufacturing processes

Creation of new cross-sectorial value and production chain, both at physical and digital level

Demonstration of the feasibility of producing materials, components and products embedding recycled FRP

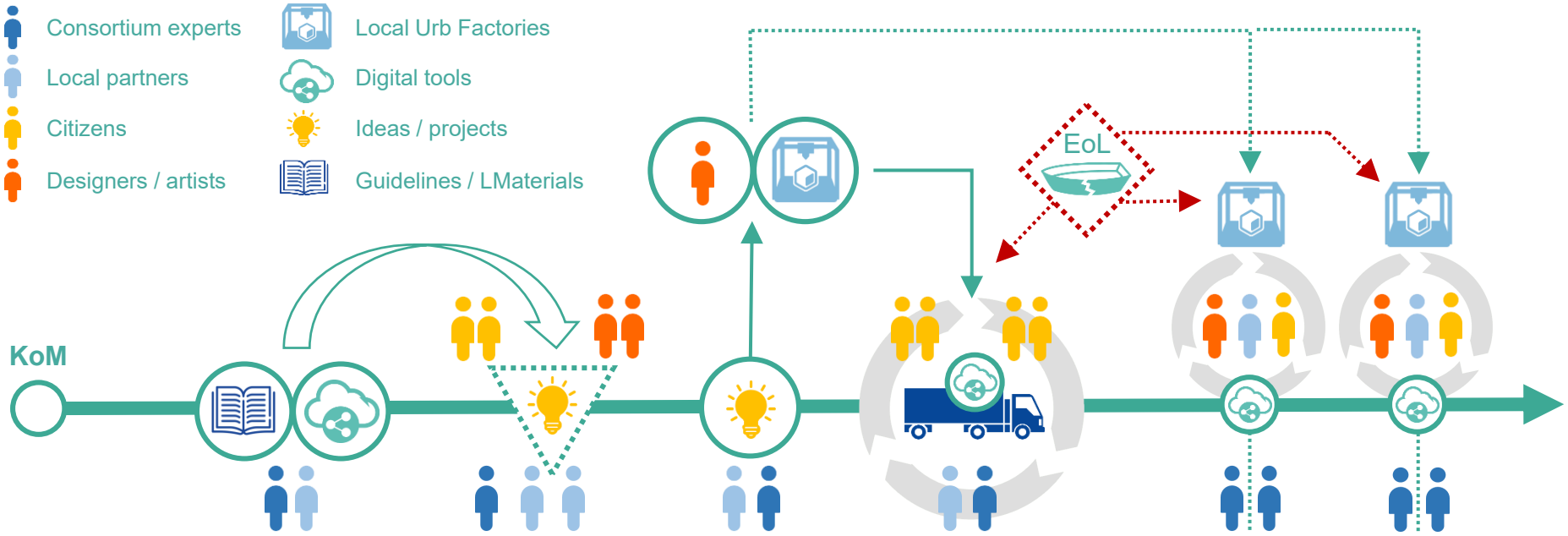
Demonstration of the feasibility of industrial use-cases for large scale recycling

Demonstration of the feasibility of local and urban approach for small scale recycling

DigiPrime

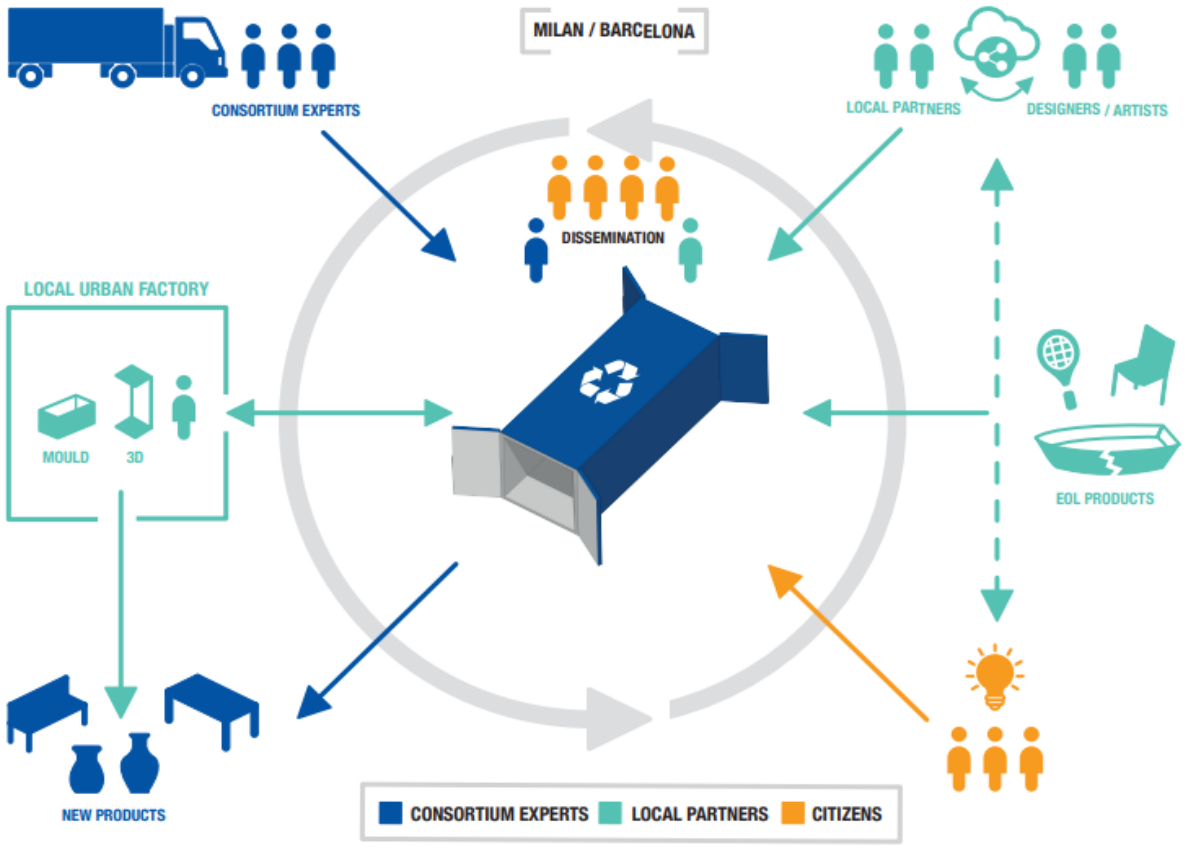
FiberEUse

Key Activities

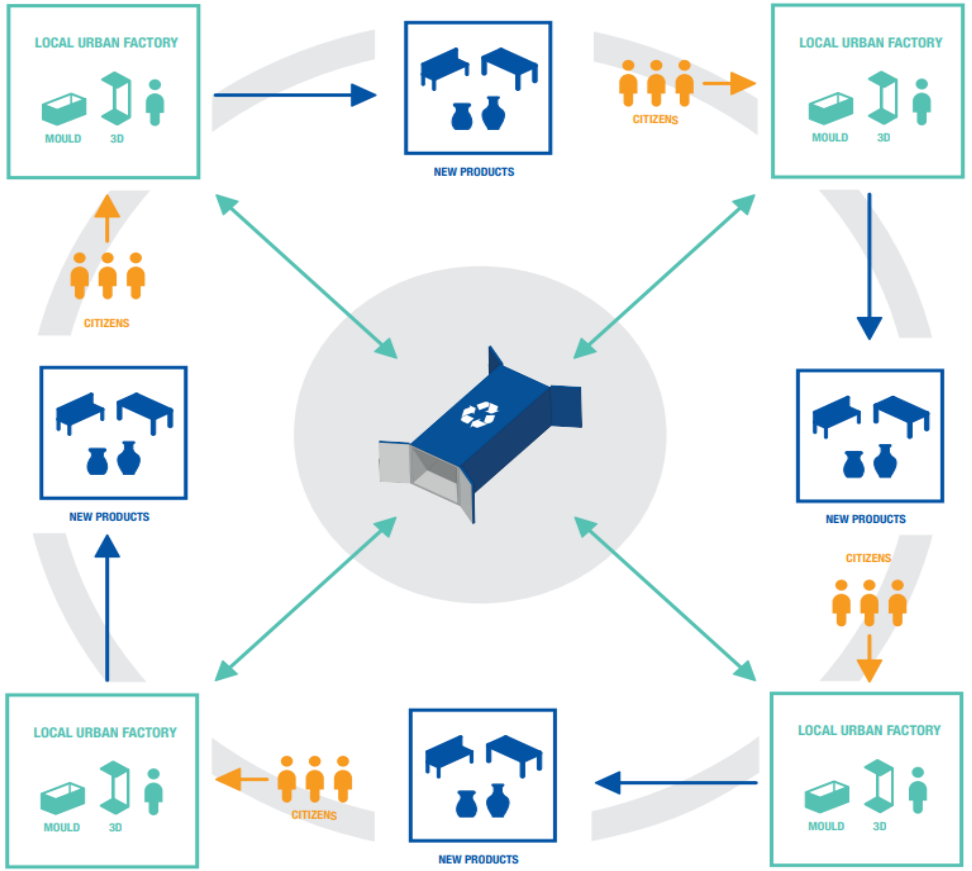


Key Activities

Step 1: 10 days demonstration events in Milan and Barcelona to test the methodology

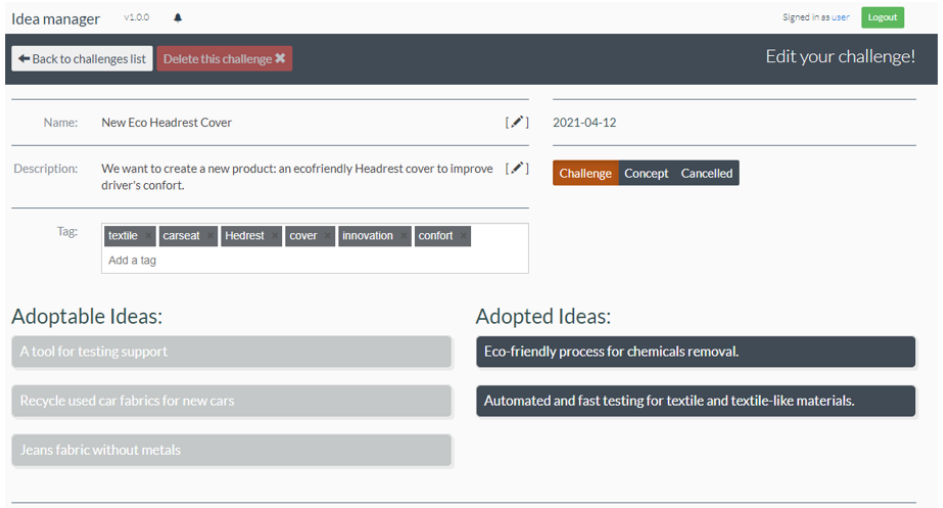


Step 2: Urban Innovation Diffusion mechanism, Open Calls to involve MSMEs, laboratories, associations



YouRban Collaborative Methodology

- YouRban Co-Creation methodology
- YouRban Neighborhood Participatory Approach
- Innovative learning and teaching
- Artists and Urban Factories engagement methodology



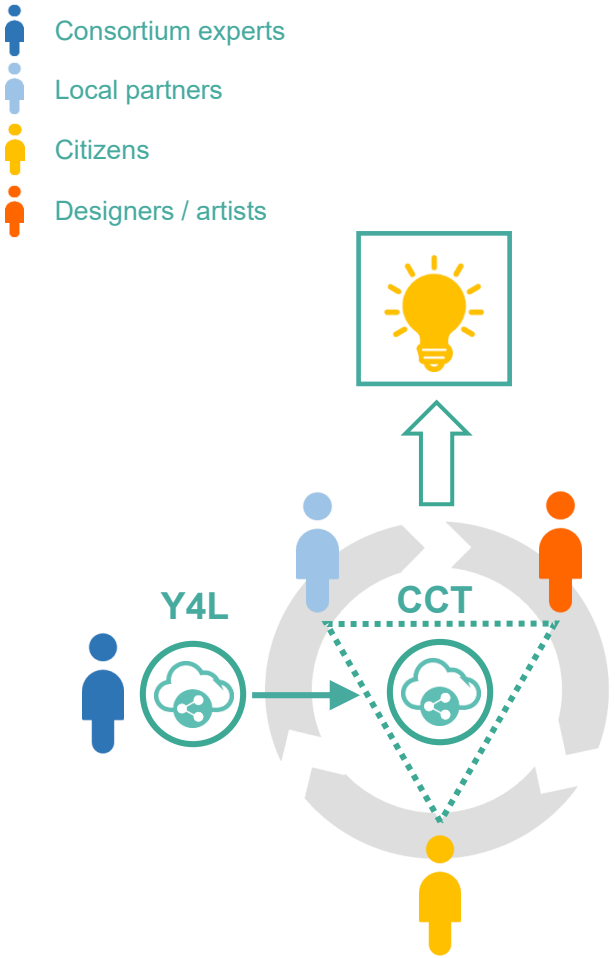
Co-Creation tool developed during DigiPrime project

ConservaMi experience in Giambellino neighborhood, Milan

YouRban Toolkit

YouRban4Learn tool

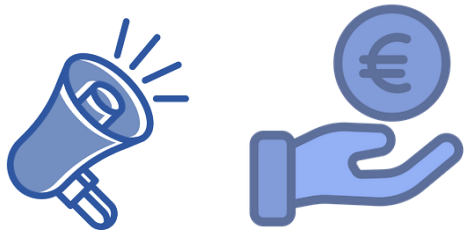
- Virtual E-Learning Community Hub
- Sharing technical knowledge among stakeholders
- Dissemination and communication material



YouRban Co-Creation tool

- Online Co-Creation tool tailored to the urban environment
- Share ideas, solutions, resources, knowledge and skills
- Generate new business, new opportunities and a new market
- Open Calls management

Engagement methodology for manufacturers, artists and urban factories

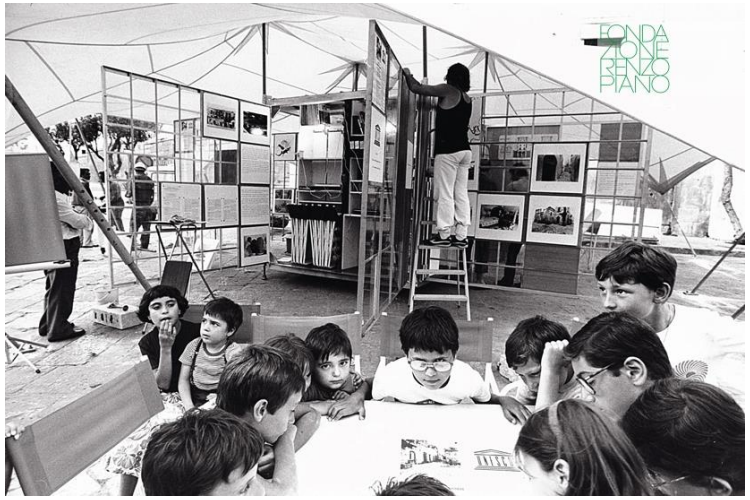


- Cascade funding mechanism through Open Calls to award the best projects
- About 25% of the total project budget
- Devoted to startups, MSMEs, laboratories, associations, and other urban organizations

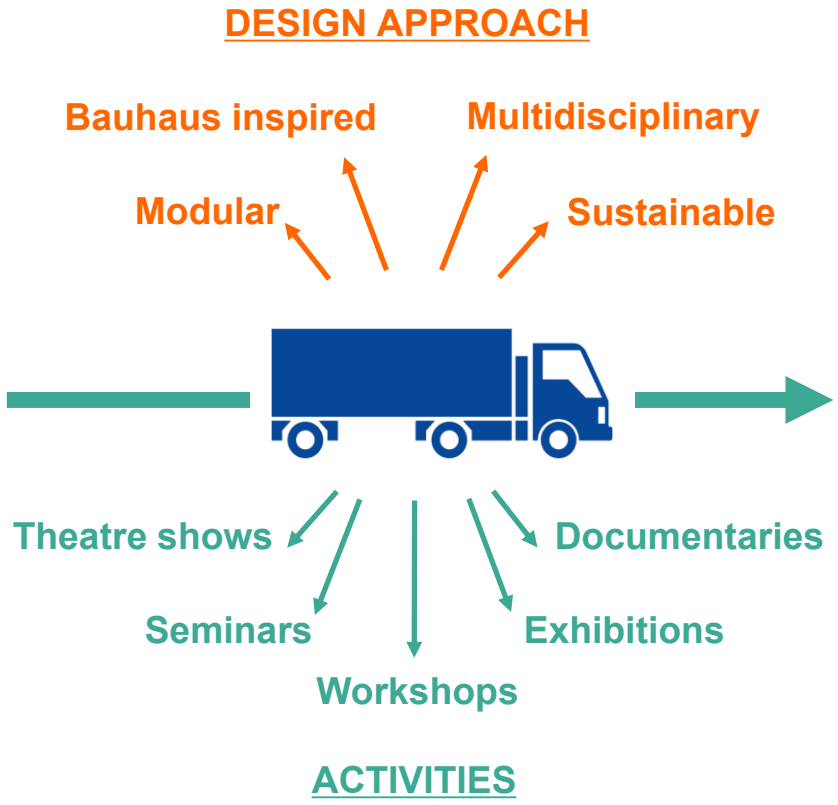
- Generate awareness and concrete experience around the potential of recycled FRPs and YouRban recycling technologies
- Promote concrete long-term cooperation among citizens, artists, designers and urban factories
- Create a significant portfolio of artistic and functional handcrafts
- Develop new business and sustainability models around the proposed technologies

YouRban Truck

- Create knowledge and awareness, through examples and experiments
- Host exhibitions, artistic events and participated activities linked to the circular economy
- Guide the Co-Creation of new objects, from end-of-life products or waste, responding citizen's needs



An inspiring experience: the "UNESCO Laboratorio di quartiere", Otranto 1979



YouRban x NEB targets

Beautiful

Ambition III: to integrate

Local approach

Regenerative design

Hosting exhibitions, events and participatory activities to raise awareness

Sustainable

Ambition II: to close the loop

Saving 14,25k Tons/year of glass-FRP going to landfill

Saving 0,95 TWh/year of glass-FRP manufacturing related energy

Saving 638 kTons/year of CO_2 emissions

Together

New European Bauhaus
beautiful | sustainable | together

Ambition III: to transform

Cascade funding for urban factories, involving designers and artist

YouRban Neighborhood Participatory Approach

New job opportunities

Participatory process

Ambition III: to self-govern

YouRban Co-Creation tool

Training workshops and design briefs

Cooperation among citizens, artists and urban factories

Multi-level engagement

Ambition III: to work globally

Create networks among citizens, artists and urban factories

Replication

Promote change in composite recycling regulation

Transdisciplinary approach

Ambition III: to be beyond-disciplinary

Interdisciplinary approach

YouRban Co-Creation tool

YouRban4Learn tool

Cocreating active urban ecosystems for circular economy in Europe.

YouRban

SUSTAINABLE PLACES 2024

Thank you!

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domina NEXT

Cocreating tomorrow: participative value chains for a sustainable future.

Caterina Calefato

UX Architect

SUSTAINABLE PLACES 2024

COREu

https://www.dominanext.eu/

Caterina Calefato, PhD

Digital Innovation Manager for Domina
EU Project Division Lead for Domina Next

EU Projects
Writing & implementation
Communication & Dissemination
Branding, Design, Materials, Video
Social Media

Expertise
Digital Development
UX/UI Design
Social Science and Humanities (SSH)

IT Provider
Backend and Frontend Development, Integration, and DevOps
Integration with Manufacturing Software (e.g., MES, ERP)

Tools
Dnext Learn: LMS for training, upskilling, knowledge transfer
SMARTRACK: digital certifications and autocertifications
Dnext Web: CMS to create EU Funded Project websites

COREU - CO2 routes across Europe

Coordinated by SINTEF, **COREu** brings together over 40 partners, including emitters, technology providers, gas transmission system operators, transportation companies, research institutes, and universities.

The project connects CO2 sources with potential storage sites, accelerating the deployment of CCS across Europe

COREU - CO2 routes across Europe

Carbon Capture, Transport and Storage

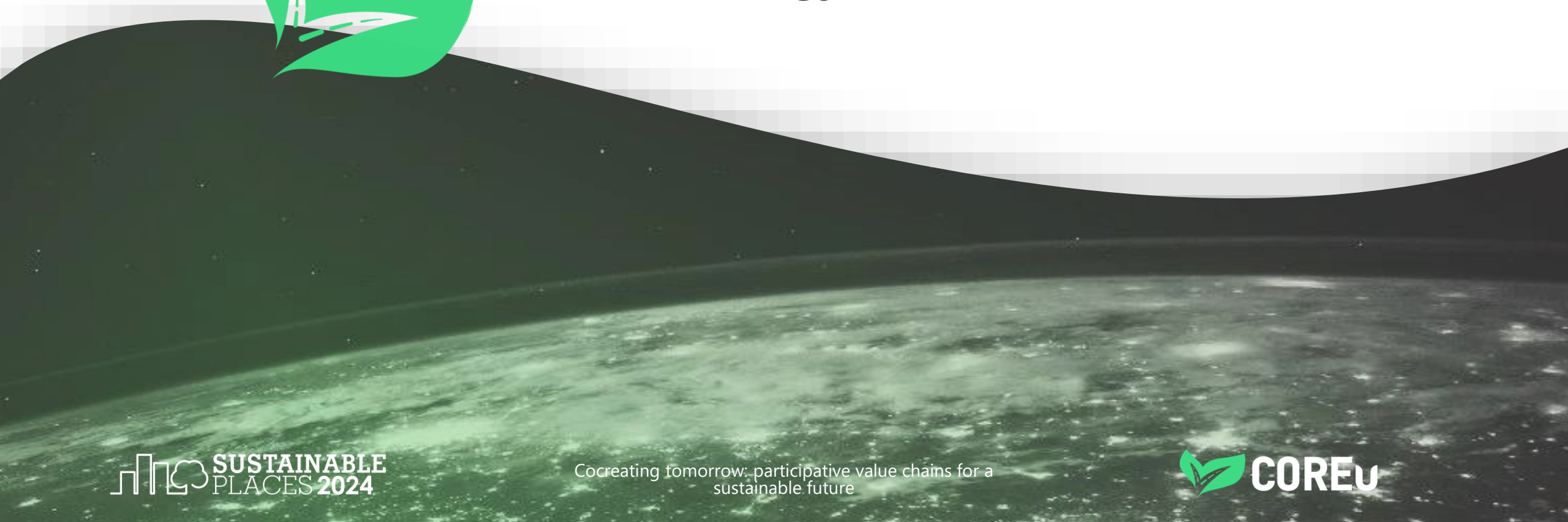
COREU considers **CO2 routes** in South and Central East European regions

Beside the technology COREU must build:

- A policy framework
- Social acceptance
- Environmental risk and LCA assessment
- Local/regional media campaign for each route
- Awareness in citizenships, targeting also children and young people

COREU – Enabling knowledge transfer

How can COREU transfer knowledge and share technology to enable CCS?



COREU – Different audience

EU policy makers, EU funded project professionals

Chemicals, Physicists, Geologists

Engineers: environmental, civil, maritime and transport

Local media, Citizens, Children and young people

COREU and CCS – The challenge of catering to diverse audiences

COREU is an HE IA, started on 01/01/2024, 48 months, funding > **35M€**

Consortium of 43 partners

- emitters, technology providers, gas transmission system operators, oil and gas companies, academia from Norway, Greece, Italy, the Czech Republic, Poland, Ukraine, Cyprus, Slovenia, the UK and Germany

Two pilots

- In Greece CO2 will be delivered to the offshore storage site of Prinos by truck and an offshore pipeline to the injection well to test a leak monitoring system
- In Norway, MacGregor will conduct an onshore test of an innovative offloading solution that enables CO2 transfer and direct injection from a vessel.

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Consortium of 4

- emitter … operators, oil and … Italy, the Czech R… UK and Germar…

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Who can understand this?

COREU and CCS – The challenge of catering to diverse audiences

EU's population of approximately 447 million people

Maybe **less than 0.1%** of the EU population works as EC officer, project manager, and researcher within the Horizon Europe.

COREU and CCS – The challenge of catering to diverse audiences

COREU goal is a reduction of 6.8 Mt/year of CO2 by 2035 and 36 Mt/year by 2050

GVP Carbon Fibre Cylinders

These cylinders transport captured and compressed CO2 by truck to storage sites. They are designed to accommodate small to medium-scale emitters, eliminating the need for liquefaction at the capture site.

Seanapsys

This is an induced seismicity monitoring system consisting of wireless, battery-powered sensors that can remain on the seabed for up to six months without needing a recharge. It is used for offshore monitoring.

CO2-sniffing AUV

This autonomous underwater vehicle is equipped with CO2 sniffers to detect potential CO2 leaks along micro-annuli on injection wells and pipelines. It represents the first demonstration of this technology.

COREU and CCS – The challenge of catering to diverse audiences

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COREU and CCS – The challenge of catering to diverse audiences

EU's population of approximately 447 million people

Indicatively **about than 0.3%** of the EU population is a chemist / physicists / geologist

COREU and CCS – The challenge of catering to diverse audiences

Compressed CO2: Transported by truck and container from the capture site, then collected and transported to offshore storage via pipeline.

Leakage Monitoring: Continuous monitoring of transported vessels and subsea pipelines to detect potential leakages, ensuring a maximum of 1% leakage from transport to storage.

Seismic Monitoring: Continuous monitoring of induced micro-seismicity on the seabed near the injection site.

Onshore Demonstration: High-pressure CO2 injection and low to medium pressure CO2 transfer systems demonstrated onshore.

COREU and CCS – The challenge of catering to diverse audiences

Compressed CO2: Transported by truck and container from the capture site, then collected and transported to offshore storage via pipeline.

Leakage Monit…ssels and subsea pipeline…um of 1% leakage from tra…

Seismic Monito…seismicity on the seabed n…

Onshore Demonstration: High-pressure CO2 injection and low to medium pressure CO2 transfer systems demonstrated onshore.

Who can understand this?

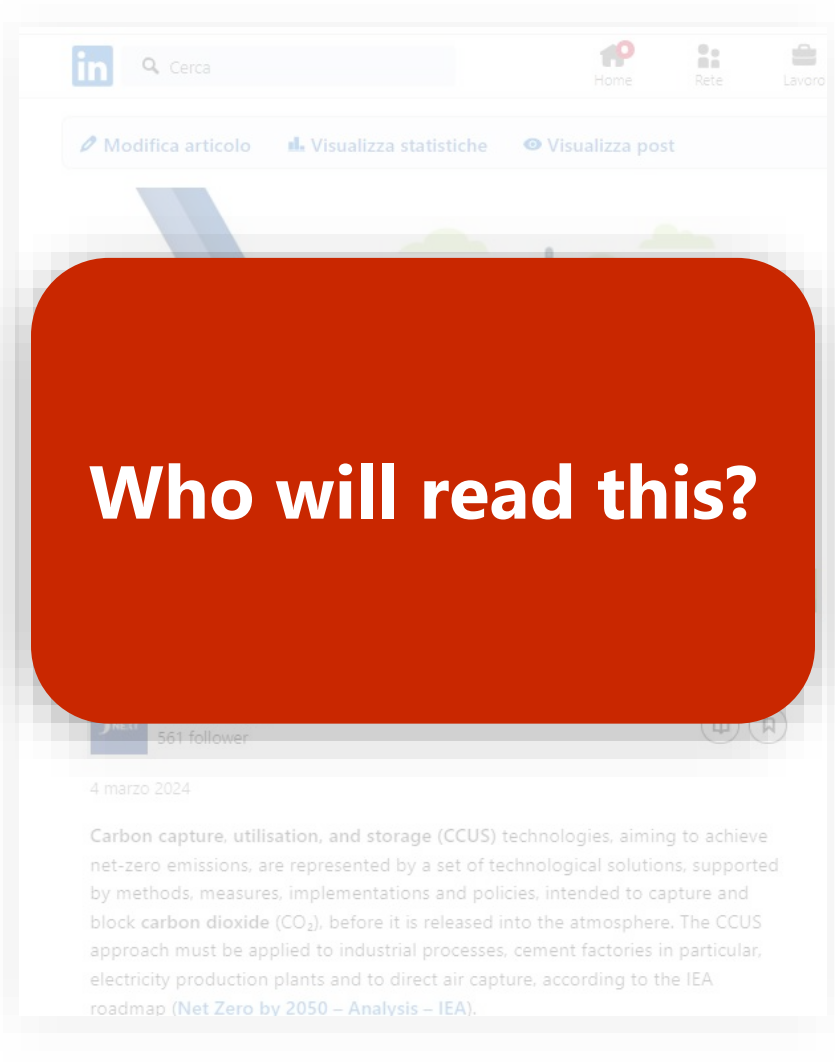
COREU and CCS – The challenge of catering to diverse audiences

EU's population of approximately 447 million people

Indicatively **about 3,7%** of the EU population works as Engineers.

COREU and CCS – The challenge of catering to diverse audiences

COREU and CCS – The challenge of catering to diverse audiences



COREU and CCS – The challenge of catering to diverse audiences

EU’s population of approximately 447 million people

About 35.8% of the EU population uses LinkedIn.

COREU and CCS – Engaging and motivating

Knowledge transfer about CCS technologies is **not only informative**

It helps users to understand and emotionally **connect with the technology**

COREU and CCS – Addressing European citizens

EU's population of approximately
447 million people

77%
Adults
(aged 18 and over)

7%
Children
(aged 6-12)

6%
Teens
(aged 15-18)

"If you can't explain it simply, you don't understand it well enough."
Albert Einstein

COREU and CCS – Tailored Training for professionals

CCS - The process of capturing waste carbon dioxide directly from the atmosphere or from energy production and industrial plants, and subsequently transporting it to sites for reuse or storage in geological formations.

CCS is an innovation

Cocreating tomorrow: participative value chains for a sustainable future

COREU and CCS – Tailored Training for citizens

CCS - The process of capturing waste carbon dioxide directly from the atmosphere or from energy production and industrial plants, and subsequently transporting it to sites for reuse or storage in geological formations.

CCS is a CO2 journey

Cocreating tomorrow: participative value chains for a sustainable future

COREU and CCS – Tailored Training for kids

CCS - The process of capturing waste carbon dioxide directly from the atmosphere or from energy production and industrial plants, and subsequently transporting it to sites for reuse or storage in geological formations.

CCS is the tale of trapping CO2 and sending it to a long sleep in a fortress of rock

COREU and CCS – Dnext Learn application case

Designed for companies, research organizations, and European funded projects.

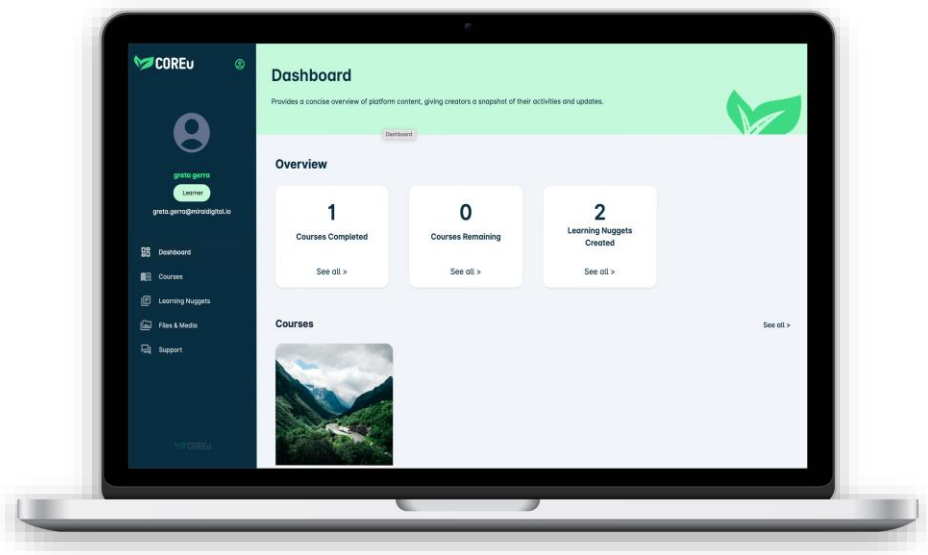
Promotes a sustainable co-learning educational model for knowledge transfer and sharing among professionals with diverse skills and expertise.

Equipped with a customized frontend tailored to user needs and expectations, adapting to their identity.

Organized as a structured library with “Learning Nuggets”

Manages training content that serves as valuable dissemination, communication, and exploitation materials.

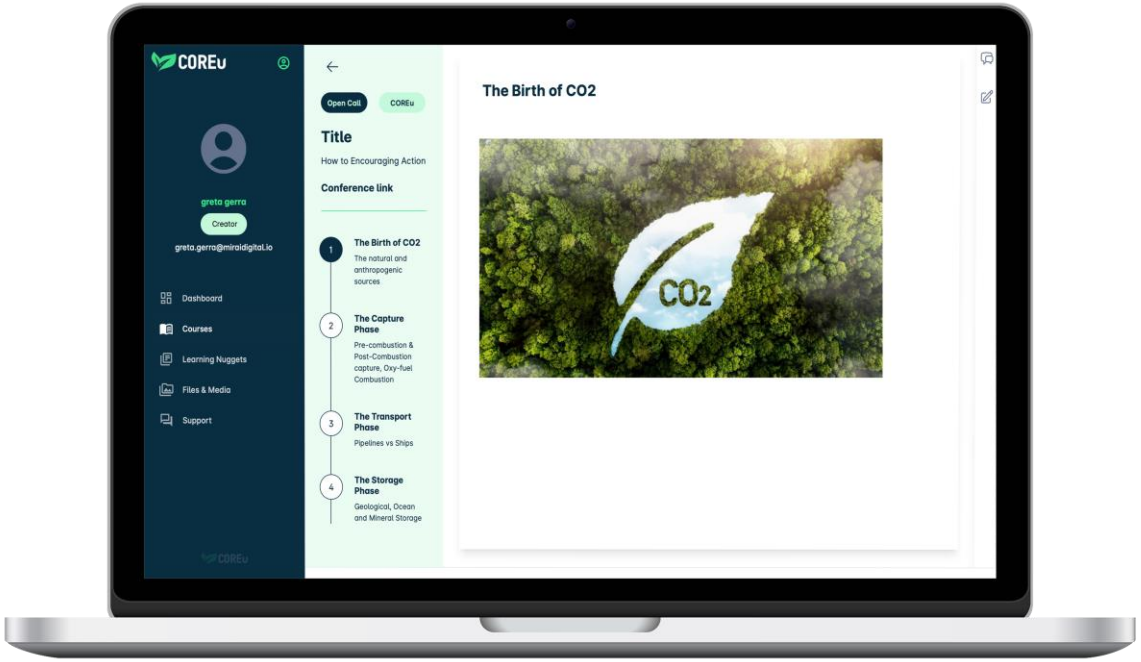
Encourages reflective learning through the generated training content.



Empowering Professionals: Coreu4Learn Facilitates Knowledge Transfer for Investing in CCS

How to Encouraging Action

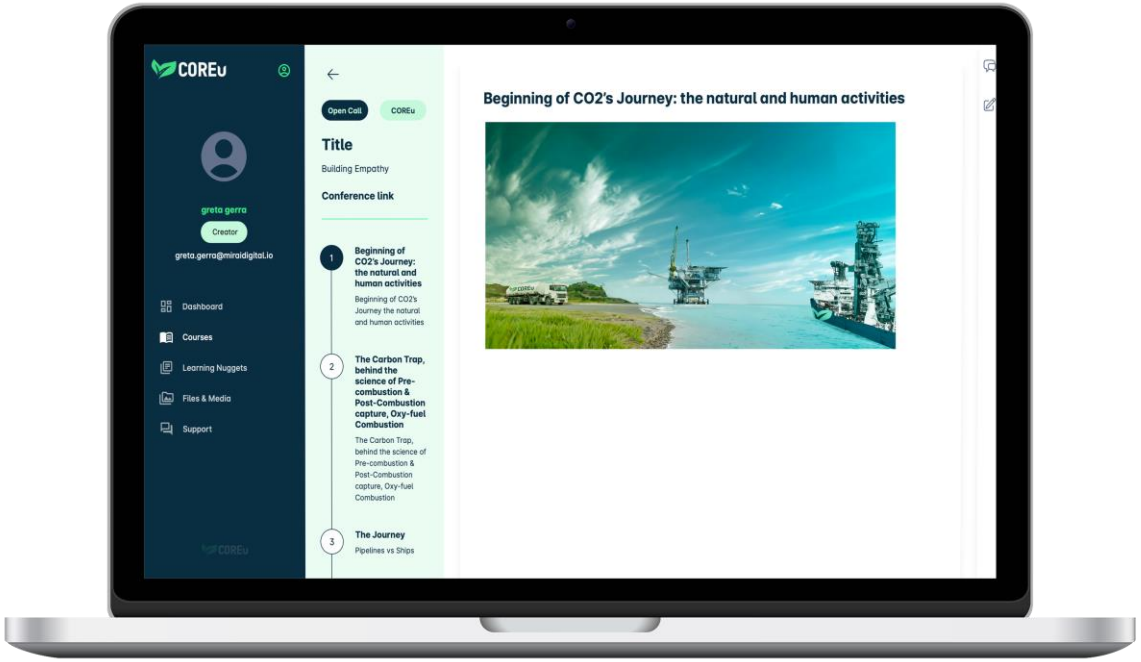
Motivating individuals and policymakers to support and invest in CCS initiatives.



Empowering Citizenship: Coreu4Learn Boosts Public Awareness and Acceptance of CCS

Building Empathy

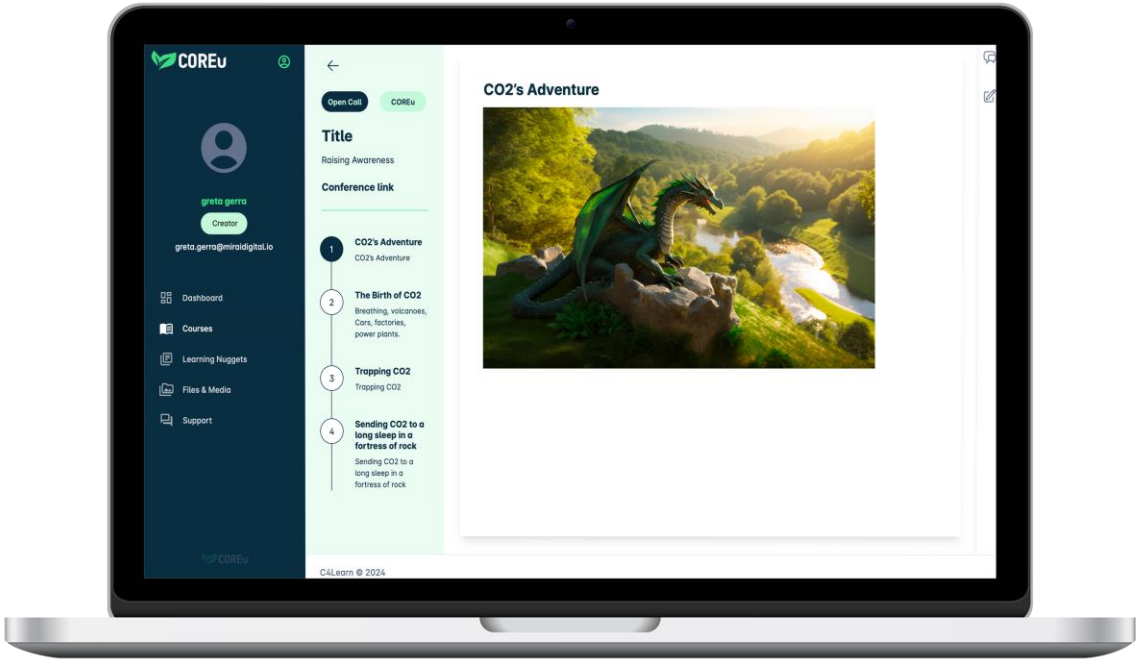
Helping people understand the challenges and efforts involved in capturing and storing CO_2.



Empowering Youth: Coreu4Learn Raises Awareness of CCS Technologies for Climate Change Mitigation

Raising Awareness

Highlighting the importance of CCS technologies in mitigating climate change.



Bite-Sized Learning to reduce Cognitive Load

Short on resources?

Don’t leave a message in a bottle…create a Learning Nugget!

Bite-Sized Learning to reduce Cognitive Load

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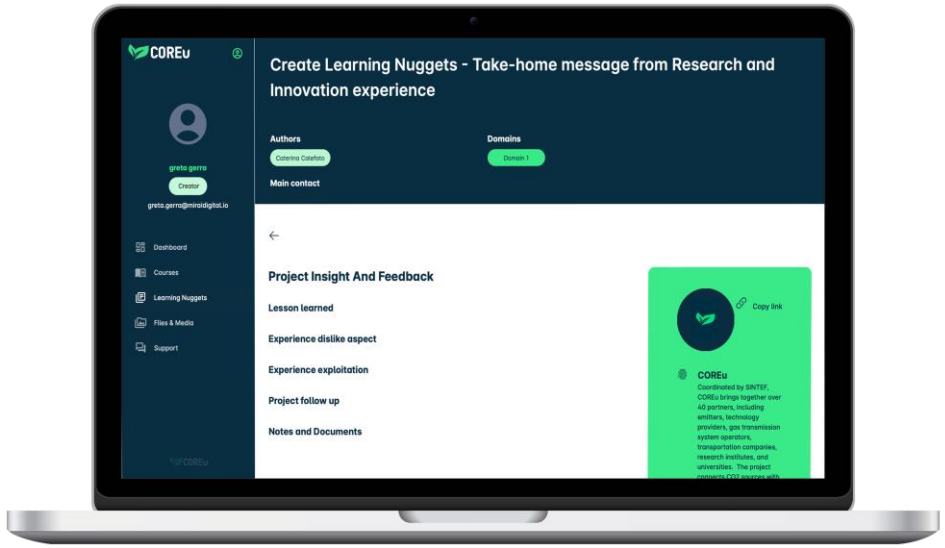
Don’t leave a message in a bottle…create a Learning Nugget!



The **microlearning** approach allows you to deliver concise, focused content that can be easily absorbed and applied, ensuring effective knowledge transfer even with limited resources.

THANKS FOR ATTENTION!

Caterina Calefato, PhD

Digital Innovation Manager for Domina
EU Project Division Lead for Domina Next

DOMINA NEXT
https://www.dominanext.eu/

EU project partner Digital Designers SSH experts
IT providers of Dnext Learn, Smartrack and Dnext Web

De & Remanufacturing for Circular Economy Investments in the Composite Industry

Cocreating tomorrow: participative value chains for a sustainable future - DeremCo Project

- **Presenter**: Silvia Ghidini

Sustainable Places

Luxembourg,
25 September 2024

Co-funded by the European Union

SUSTAINABLE PLACES 2024

Project coordinator: Marcello Colledani
Contact: marcello.colledani@polimi.it

Silvia Ghidini

Jr. Sustainability Project Manager at Holonix

EU Projects
Deliverable writing
Tasks management
Workshop & conferences

Expertise
Environmental Engineering
Information Technology
Circularity and Sustainability

Holonix

- Holonix was founded in 2010 by the Department of Management, Economics and Industrial Engineering of the Politecnico di Milano. We create **software products with IoT** and **Augmented Intelligence technologies**, offering operational support to small and medium-sized Italian industrial excellences in the manufacturing sector, which want to grow in efficiency, competence and competitiveness.

- Our **products** and our **Know-How** are the result of continuous training and contact with the most innovative ideas, minds and solutions in Europe, thanks to the collaboration with international research institutes, big names in ICT and leaders of sector in applied **research projects**.

HOLONIX BRING THINGS TO LIFE

SUSTAINABLE PLACES 2024

Co-funded by the European Union

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- The Project
- Composite Materials
- The Platform

HOLONIX BRING THINGS TO LIFE

SUSTAINABLE PLACES 2024

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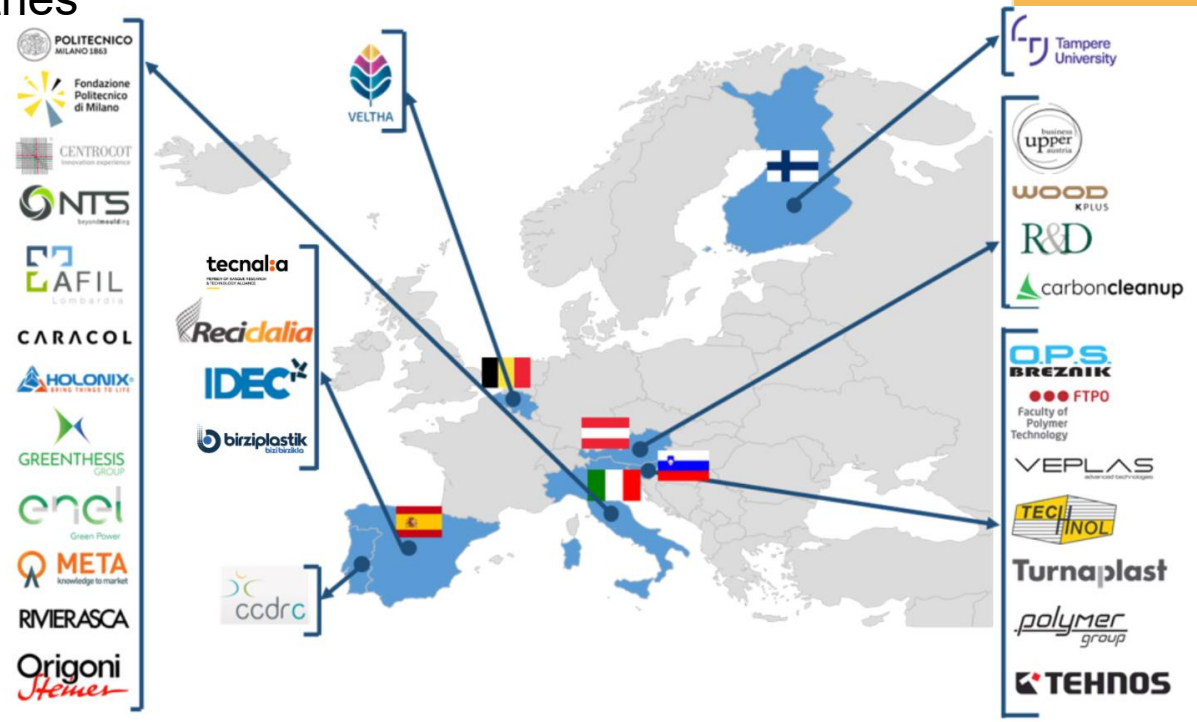
The Project

The DeremCo project will integrate in a systemic approach **different innovation actions** aimed at enhancing the profitability of reinforced plastics recycling and reuse in value-added products.

- 3 years: 2022 – 2025
- 30 Partners in 7 EU Countries
- EU Contributions:

8.822.751,58 €



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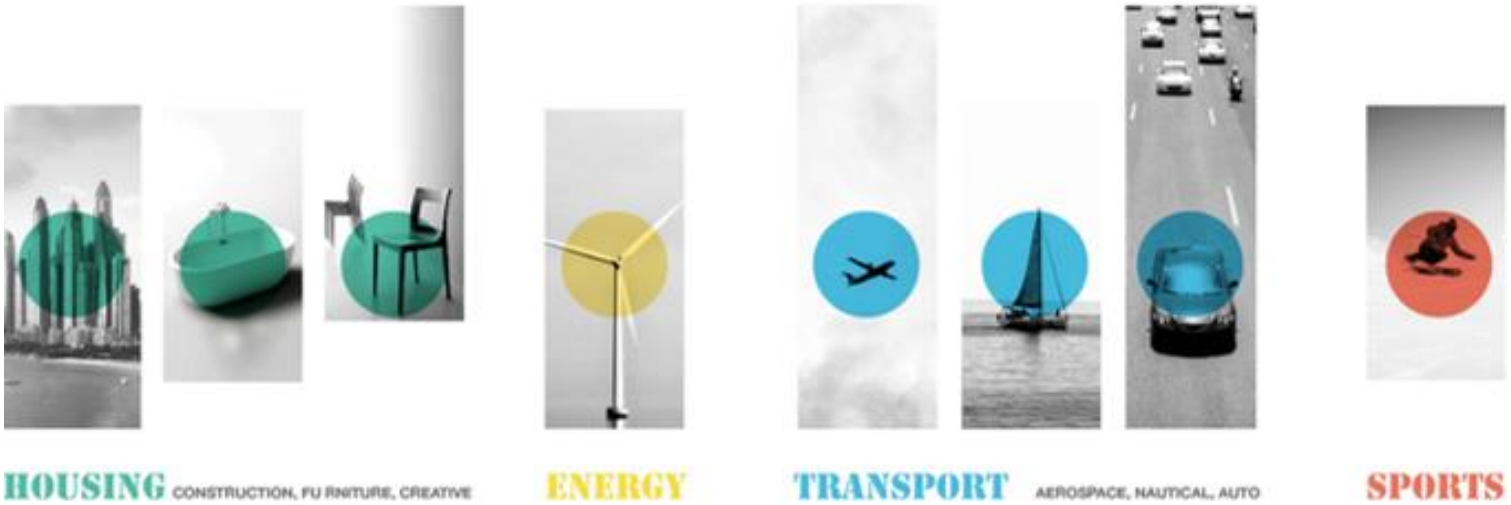
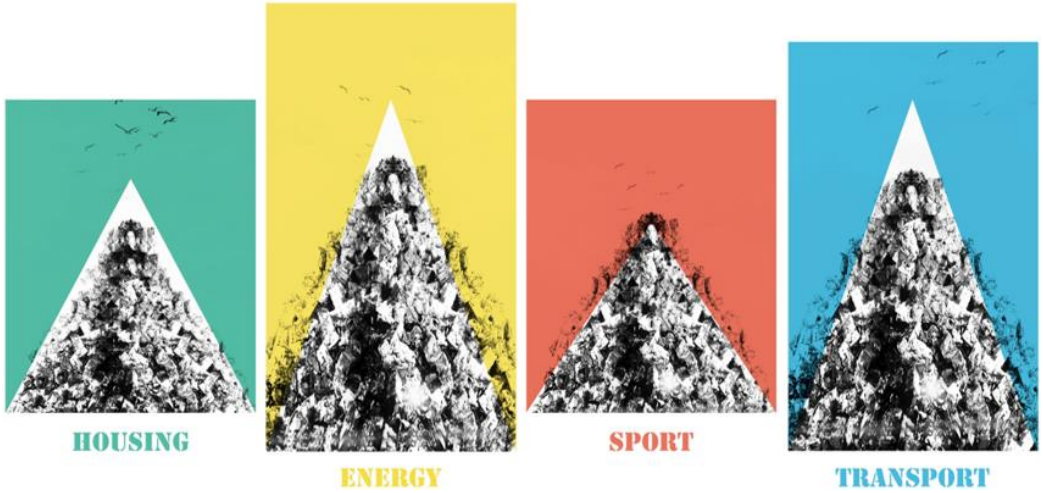
Composite Materials

Fiber-Reinforced Plastics (FRPs) are widely adopted in several sectors due to their lightweight and corrosion-resistance characteristics.



Composite Materials

The lack of a European sustainable circular value-chain for the recovery and re-use of plastics materials into high value-added applications would lead to both untapped business opportunities and economic losses and to a serious environmental burden.



The **DeremCo project** aims to develop innovative systemic solutions for unlocking the great potential of EoL composite materials as new manufacturing sources.

Co-funded by the European Union

DeremCo Deman-Driven Circular Solution

DeremCo will exploit the **interregional Partnership** to achieve a large-scale demonstration of circular economy solutions for **demand-driven Fiber-Reinforced Plastics reprocessing and re-use into added value products**

HOLONIX BRING THINGS TO LIFE

SUSTAINABLE PLACES 2024

Co-funded by the European Union

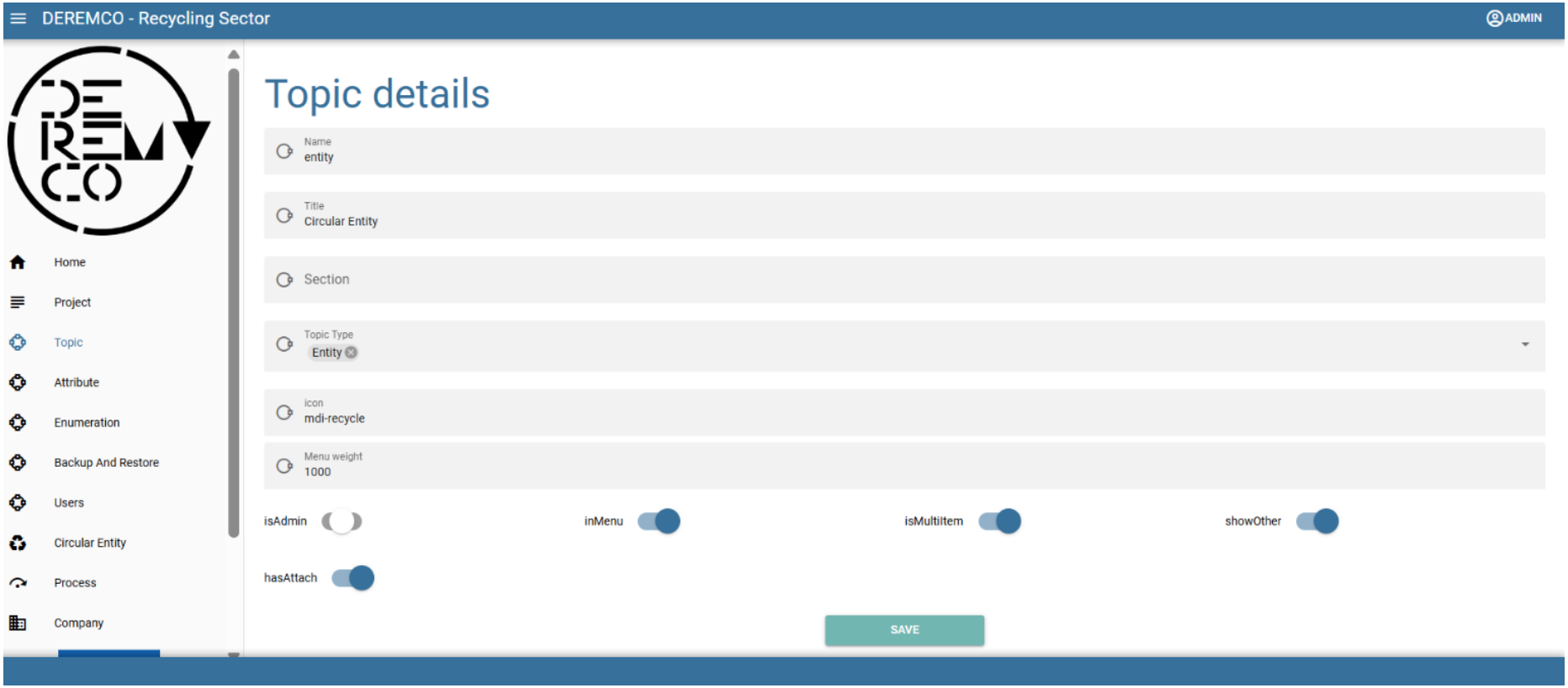
The Platform

The DeremCo Platform is a tool that aims to facilitate the pathway of all the actors of the circular value chain of Fiber Reinforced Polymers (FRP) from recycled material towards a fair transition to circular business models.

The DeremCo Platform was designed to make accessible and easy-to-find information about available materials and new processing technologies and to create an inter-sectorial community made by companies, research centers, and service providers, providing a user-friendly interface.

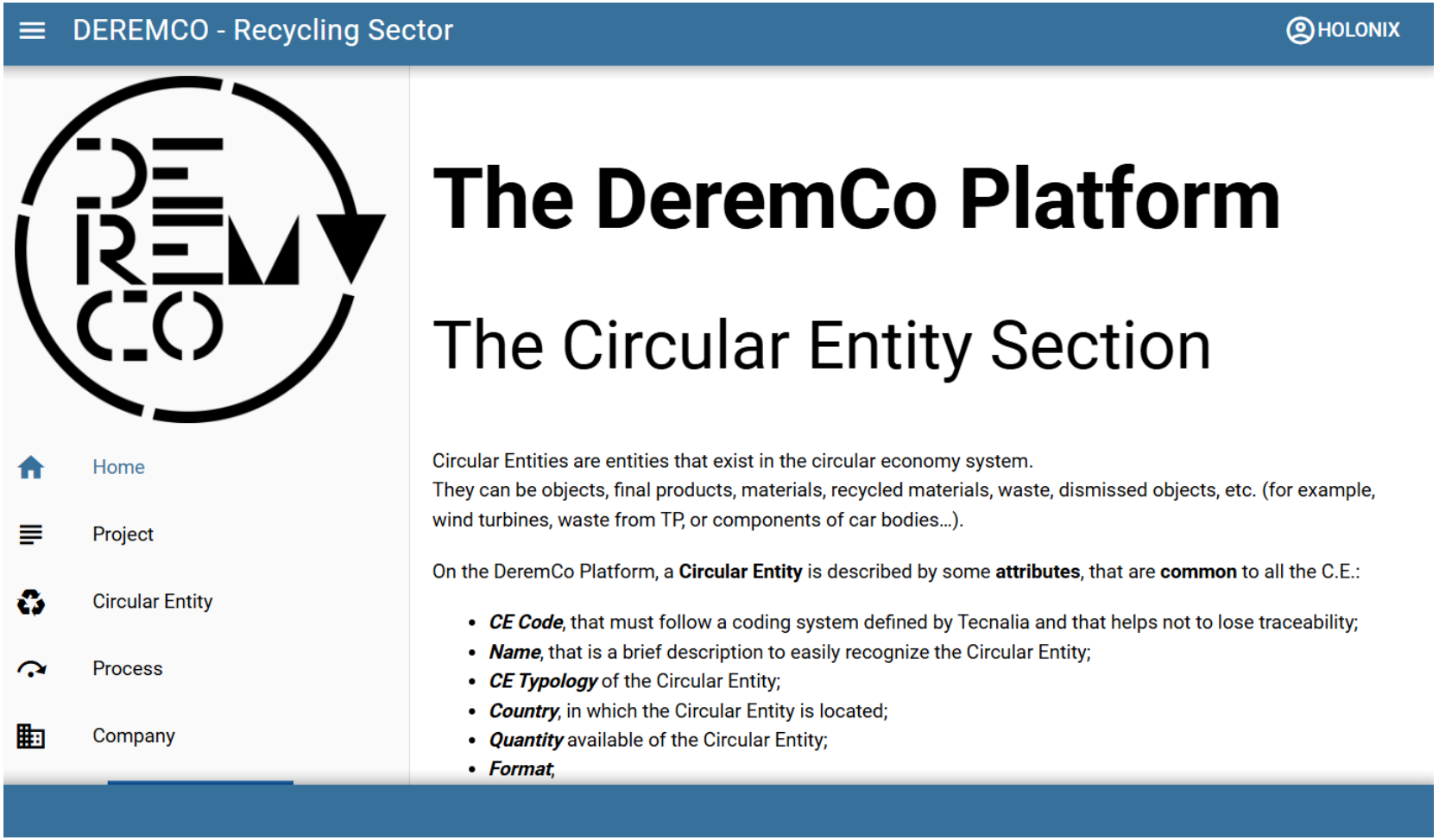
HOLONIX BRING THINGS TO LIFE
SUSTAINABLE PLACES 2024
Co-funded by the European Union

The Admin profile



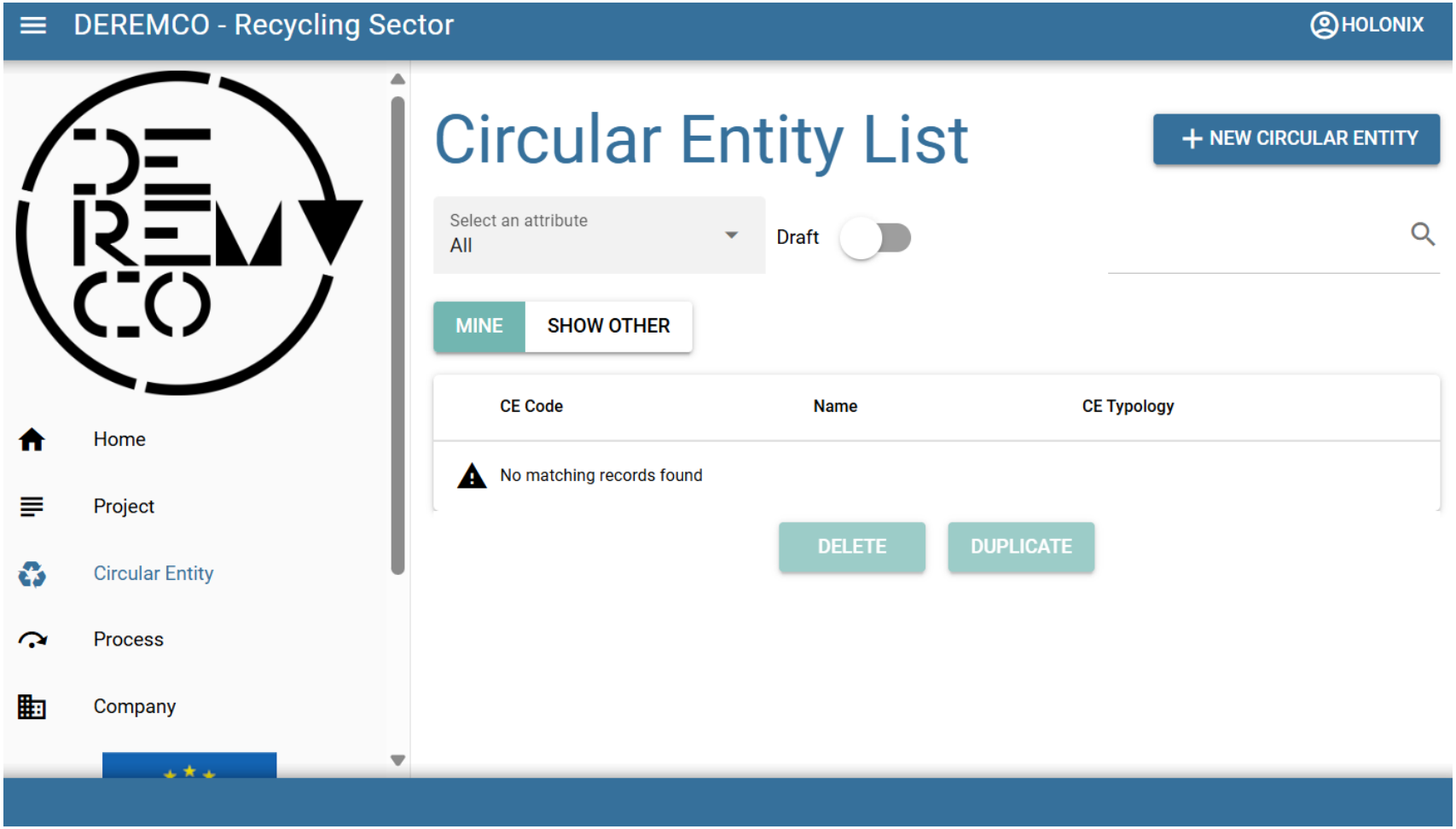
Co-funded by the European Union

The Platform : Home & Project

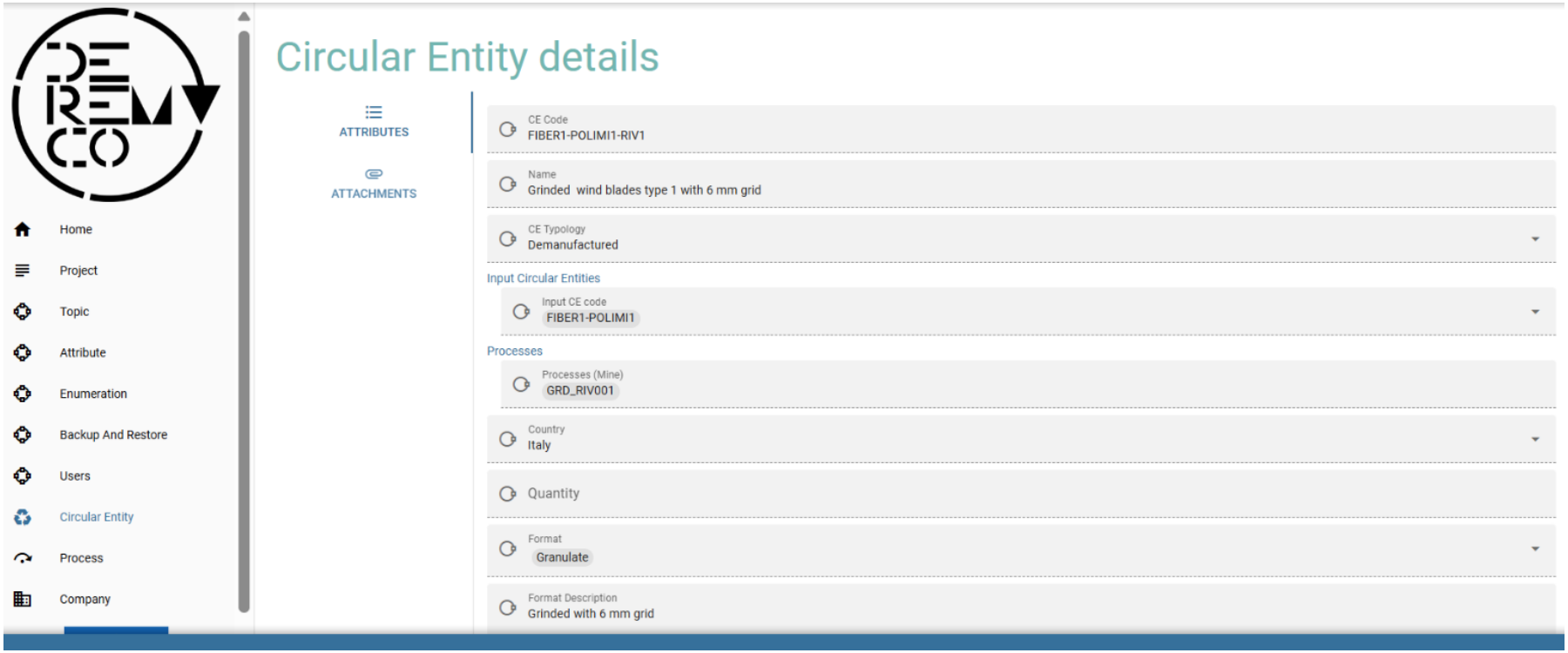


Co-funded by the European Union

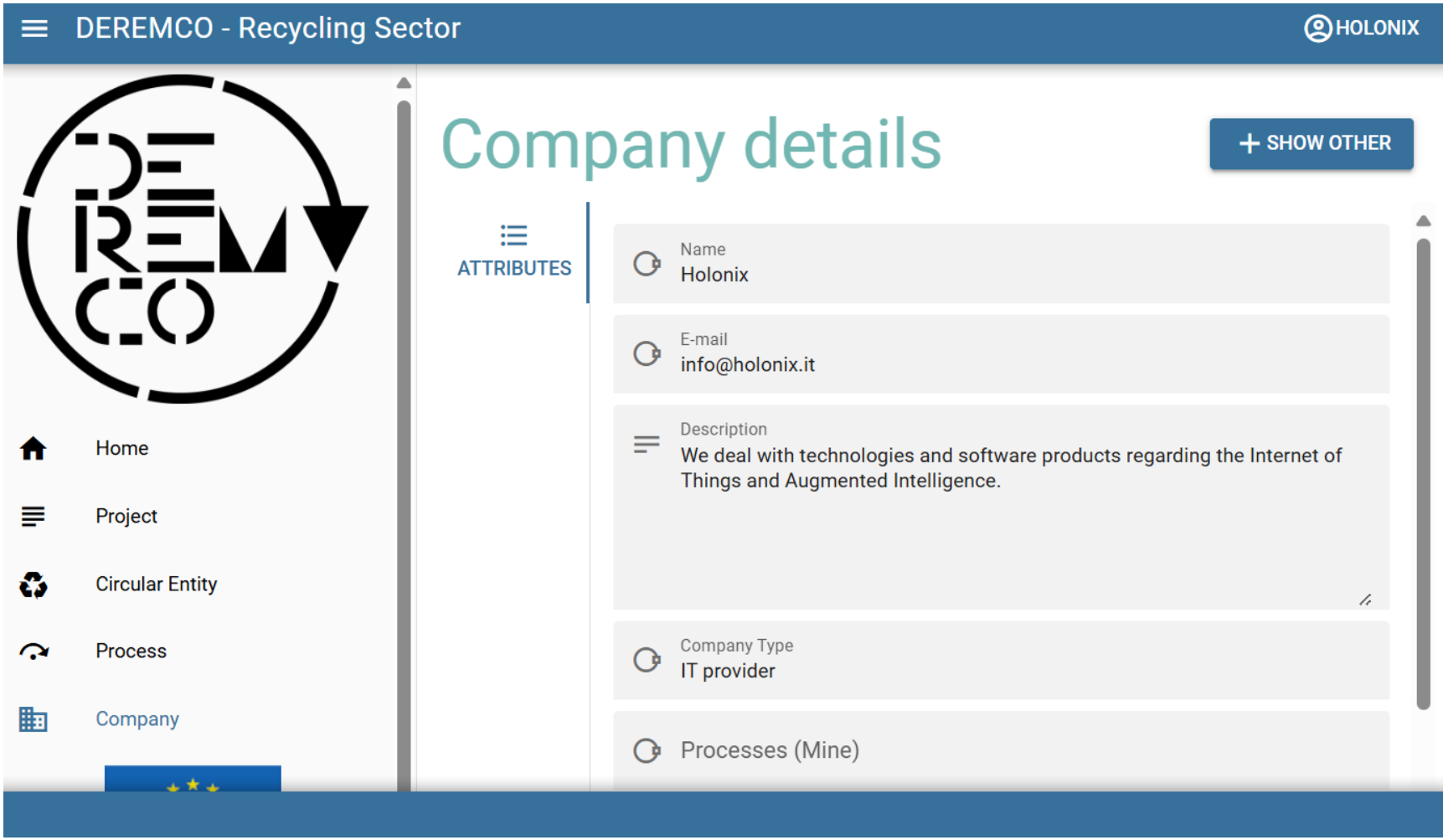
The Platform : Circular Entity Section



The Platform : Circular Entity



The Platform : Company



THANKS

DOES ANYONE HAVE ANY QUESTIONS?

@DeremCo

@DeremCo_project

SUSTAINABLE PLACES 2024

Co-funded by the European Union

Dena Arabsolgar
Innovation Project Manager, SYXIS

European Innovation Hub for testing sustainable pathways

Cocreating tomorrow: participative value chains for a sustainable future.

SUSTAINABLE PLACES 2024

We are a Lithuanian company that sees the
sustainable transformation
as the key to a new future.

Our greatest desire is to spread the **culture of "circular"**
and to become a point of reference for **learning to innovate together**.
How? Being a **real community** and leveraging on technological **skills** and **knowledge** of each individual partner

Our task is to support and connect SMEs, organizations and research centers across Europe,
*that operate in the field of funded **research and innovation**,*
helping them in method, operations and technologies,
so that they can welcome and develop a new strategy based on themes such as
digital, circular economy and networking.

NETWORKING

We connect SMEs, find partners and promote collaboration among entities, encouraging the co-creation model as a new business strategy

DIGITAL SOLUTION

We create technological platforms based on the power and importance of data to improve the digital transformation

CIRCULAR ECONOMY ECOSYSTEM

all our activities aim to provide sustainable solutions for the future of the environment, the economy and the people

13 EU active projects

> 80 EU projects in the team expertise

INSET Industrial Symbiosis for Enterprises and Training

trineflex

SMARTChain

»»urban

auto twin

SM4RTENANCE

RARE²

BATTwin

WASABI

rEUman

REboot

MULTI MOLD

METAWAVE

EU Projects

Writing proposals & EU projects implementation
IT solutions for cocreation and collaboration
Diss&Comm, Circular Exploitation, Networking and Clustering

Expertise

Management Engineering
Team and Community management
Social Impact analysis
Circularity and Sustainability

Dena Arabsolgar, Eng.

Innovation project manager

SYXIS

www.syxis.eu

Sustainable Innovation Lover

Focussed on the CoCreation approach @job, @life, @society

SUSTAINABLE PLACES 2024

WASABI

WHITE-LABEL SHOP FOR DIGITAL INTELLIGENT ASSISTANCE AND HUMAN-AI COLLABORATION IN MANUFACTURING

Co-funded by the Horizon Europe programme of the European Union under Grant Agreement № 101092176

Project details and numbers

Total costs: € 8 909 248.94

Partners: 18

Coordinator: CARSA

User cases: 3 use cases, 5 pilots

Open Calls: 2 rounds, A and B

Project objectives:

- digital intelligent assistance solutions, based on **human-AI collaboration** («conversational AI»)
- manage circular economy information through the **valorisation of production waste**
- increase cognitive abilities of workers, accelerates **transfer of knowledge**
- **upskilling** of the existing workforce

SYXIS role:

Diss & com manager, AI4manufacturing.net community

Waste management platform

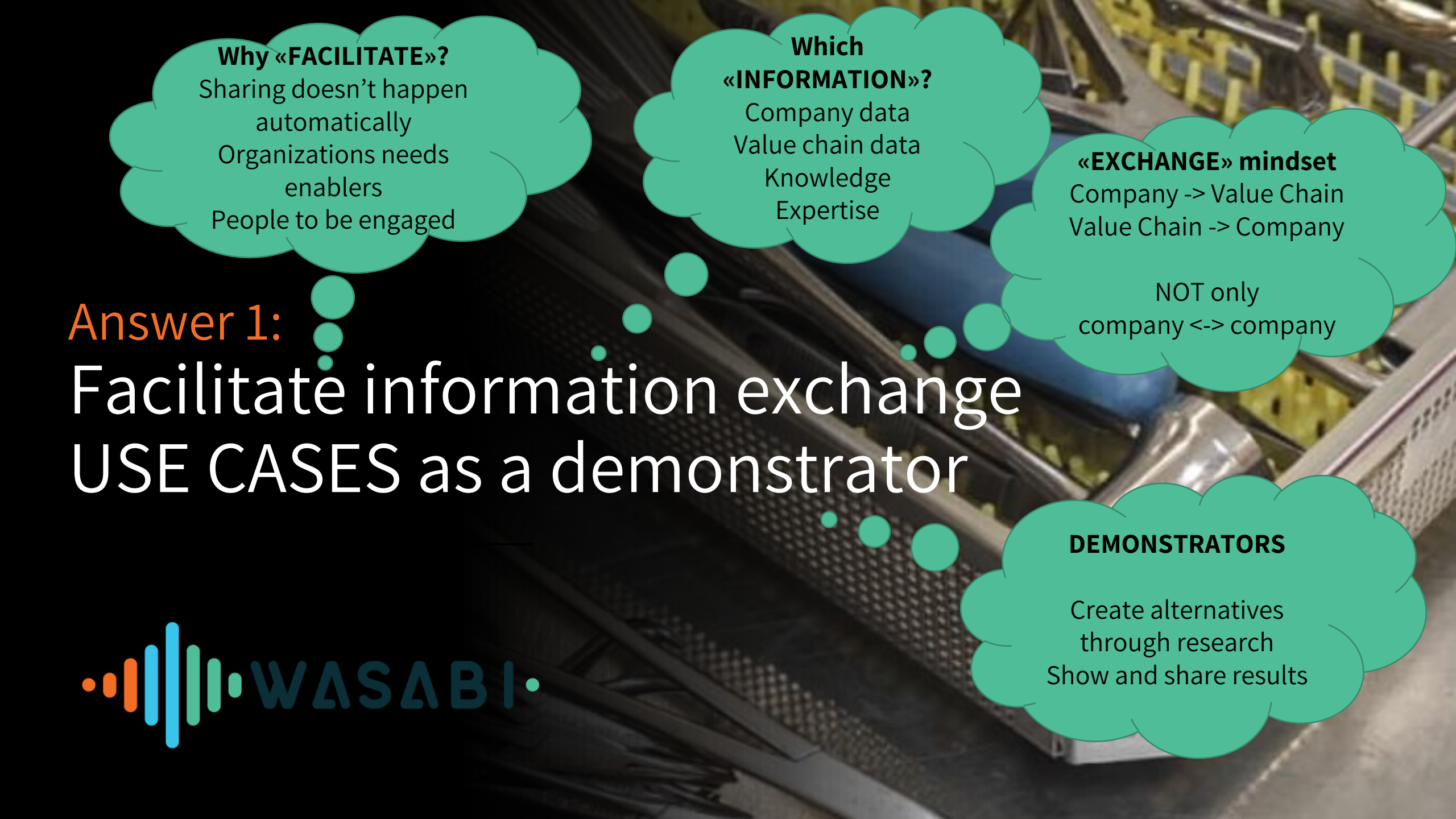
1 - CARSA
2 - BIBA
3 - UNIMORE
4 - SYXIS
5 - SINTEF
6 - TTTech
7 - ATLANTIS ENGINEERING
8 -
9 - mews
10 - reinova
11 - KU LEUVEN CITIP CENTRE FOR IT & IP LAW
12 -
13 - Universität Bremen
14 - TRIMEK METROLOGICAL ENGINEERING
15 - croma GIO.BATT
16 - episcan
17 - KLISBio
18 - inovalia ASSOCIATION

How do WASABI enable participation and collaboration for sustainability?

Answer 1:

Facilitate information exchange USE CASES as a demonstrator

WASABI



Answer 1:

Facilitate information exchange USE CASES as a demonstrator

WASABI

USE CASE #1
Augmented waste management and valorisation

TRIMEK
METROLOGICAL ENGINEERING

TRIMEK, dimensional metrology reuse

Develops a module that measures manufacturing scrap pieces
to see **if other** manufacturing SMEs or midcaps **can reuse** them.

croma GIO.BATTA
Quality in Hospital Services

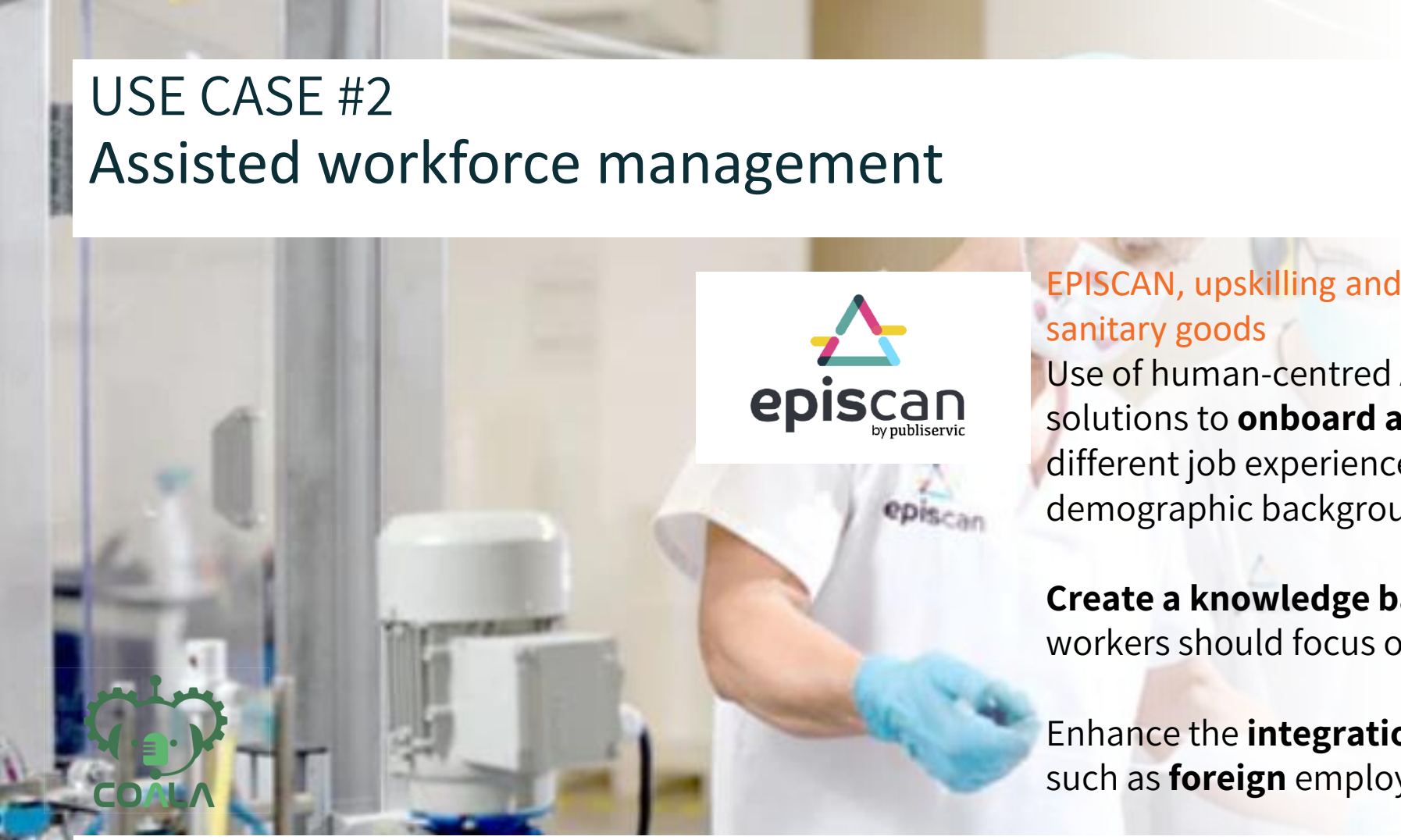
CROMA, recycling and revamping surgical tools

Checks the instruments used after each surgery following SOPs (Standardized Operation Procedures), to sterilize if it fit for use or **publish** on the rEUse platform for it **to be recycled**.

rEUseplatform

**Share Materials and Technologies, exchange, reuse, recycle,
give benefits to others, activate new value chains, circulating objects**

USE CASE #2
Assisted workforce management



EPISCAN, upskilling and integrating workforce, producing sanitary goods

Use of human-centred AI-based digital assistance solutions to **onboard and integrate new workers** facing different job experience, education, ethnic, social and demographic background, and language issues.

Create a knowledge base that contains what new workers should focus on during the onboarding process.

Enhance the **integration and participation** of workers such as **foreign** employees.

Openly share needs, be inclusive, assist humans, enable collaboration with digital solutions, improve knowledge

USE CASE #3
Assisted quality assurance for sustainable products

REINOVA, TRIMEK, EPISCAN, KLISBIO augmenting sustainability

Test the possibilities given by the **use of augmented technologies** in 4 environments to: reduce carbon footprint, up-skill workers cognitive capacities, reduce repetitions, improve quality checks and material tests, etc.

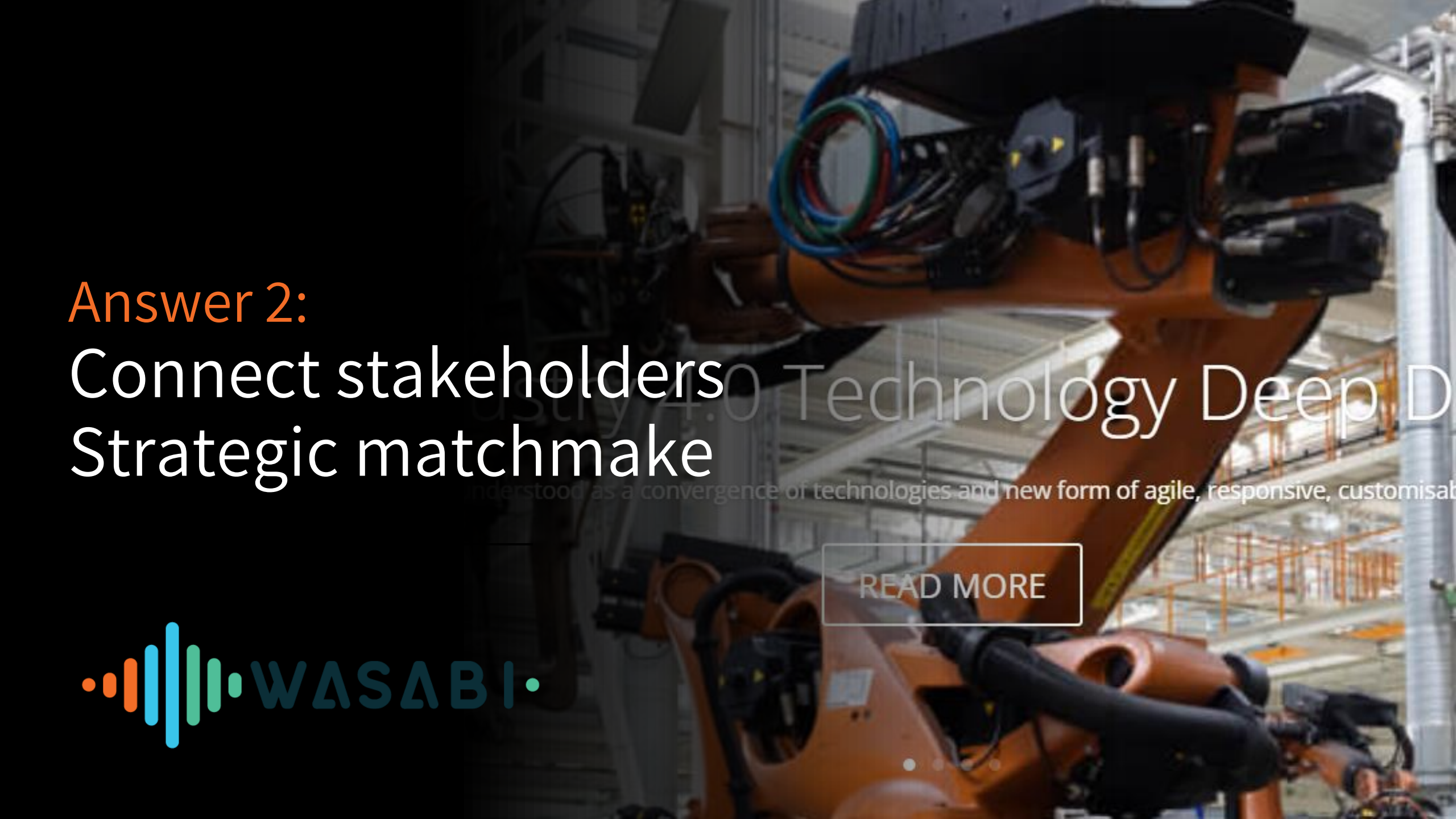
Battery testing, coordinate measuring machine, sanitary quality check, prosthetic quality testing.

?

Try, describe, generate knowledge, innovation, open science

Answer 2:

Connect stakeholders
Strategic matchmake



Answer 2:

Connect stakeholders Strategic matchmake

WASABI

Digitally Enabled Communities

Sharing eol objects, materials, waste, knowledge

Sharing physical things to reuse, recycle, remanufacture

Sharing knowledge, skills, ideas, challenges, problems, solutions

Enabling the creation of communities of stakeholders

Matchmaking, finding suitable partners, closing loops

Create, preserve, empower contacts and networking

MAA - CoCreation – Collaboration – IT enabling interactions - Matchmake

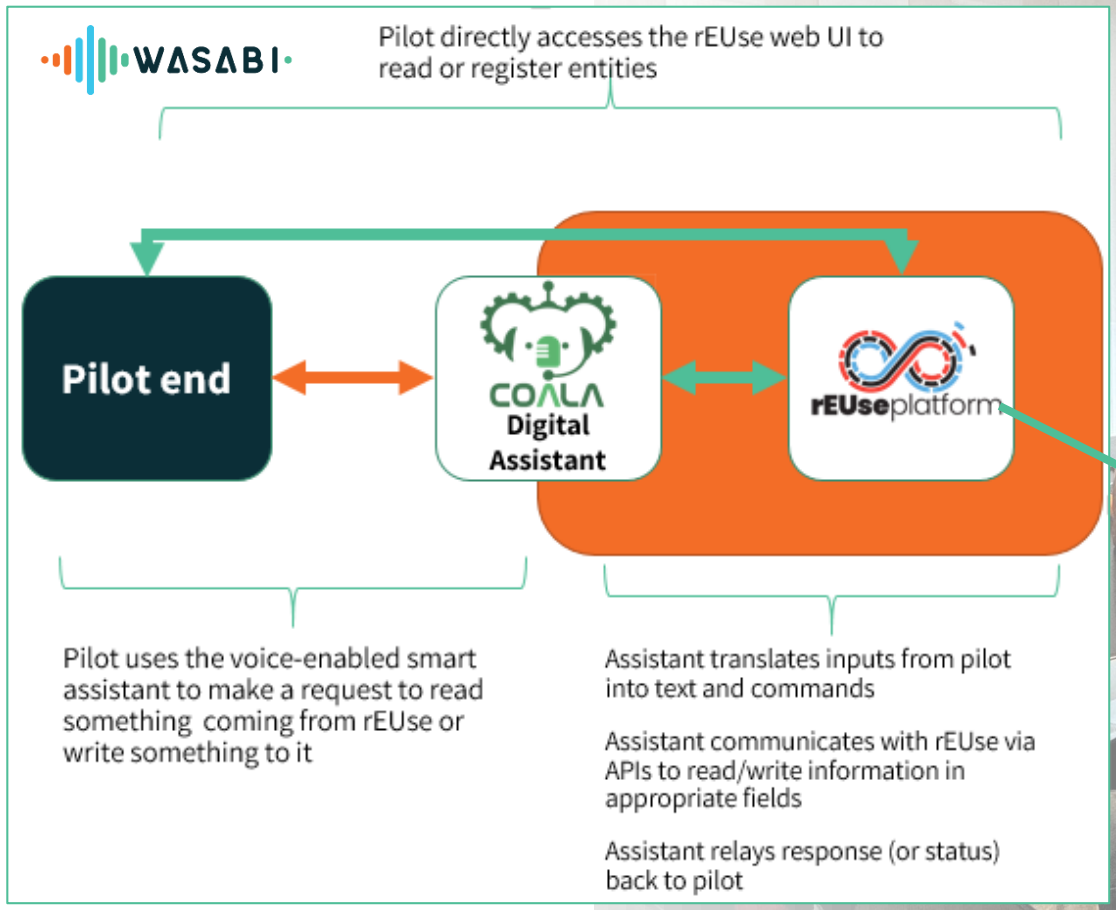
rEUseplatform

kartu
connect together

COALA

WASABI

Digitally Enabled Communities



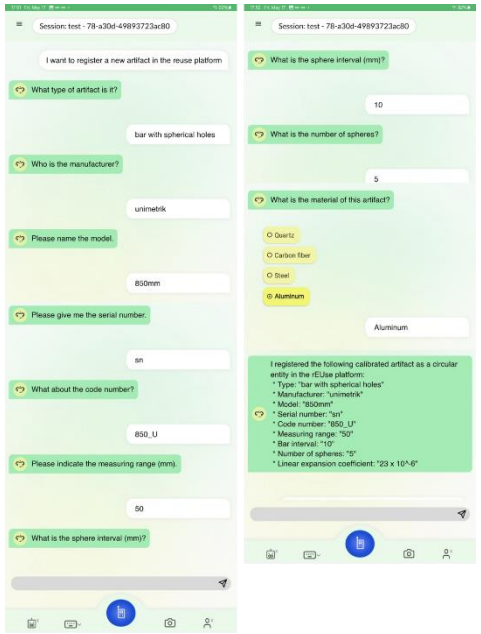
Recycling, reusing, remanufacturing communities.

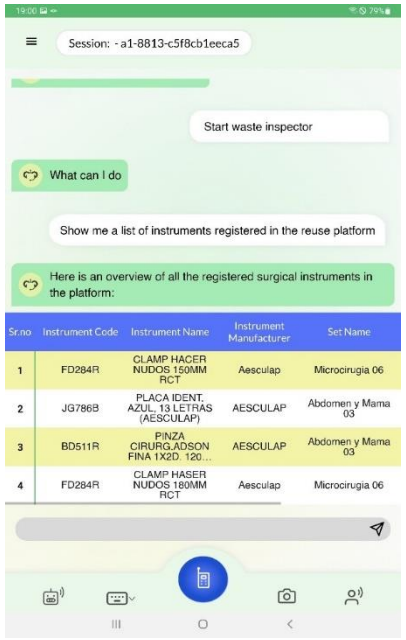
kartu connect together

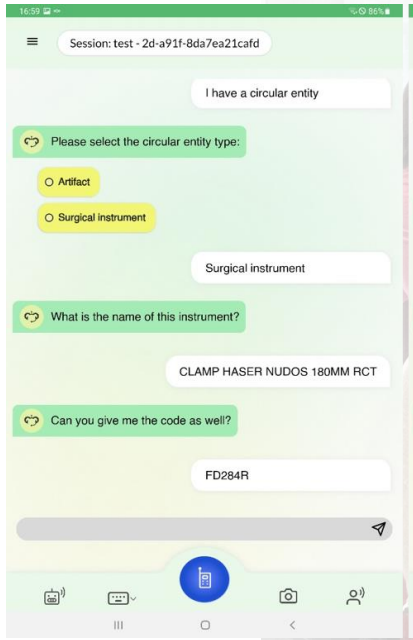
WASABI

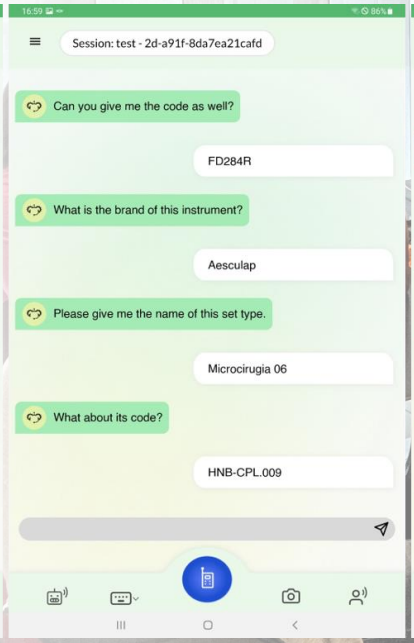
Digitally Enabled Communities

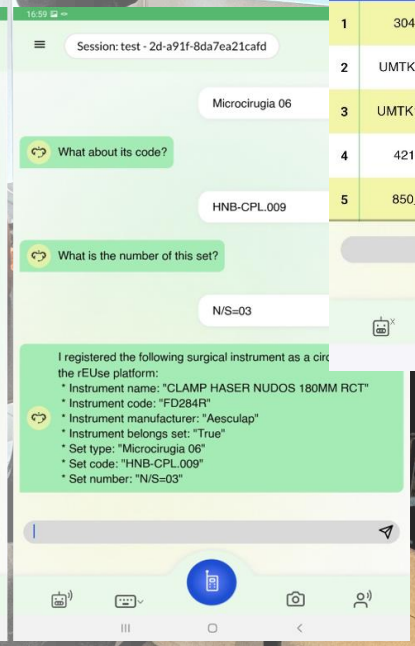
COALA

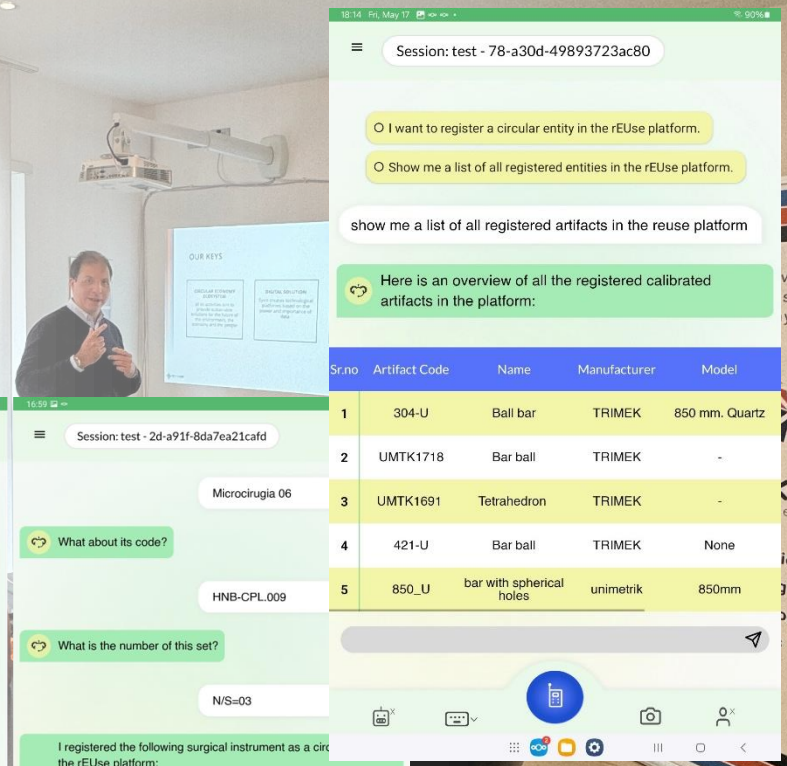






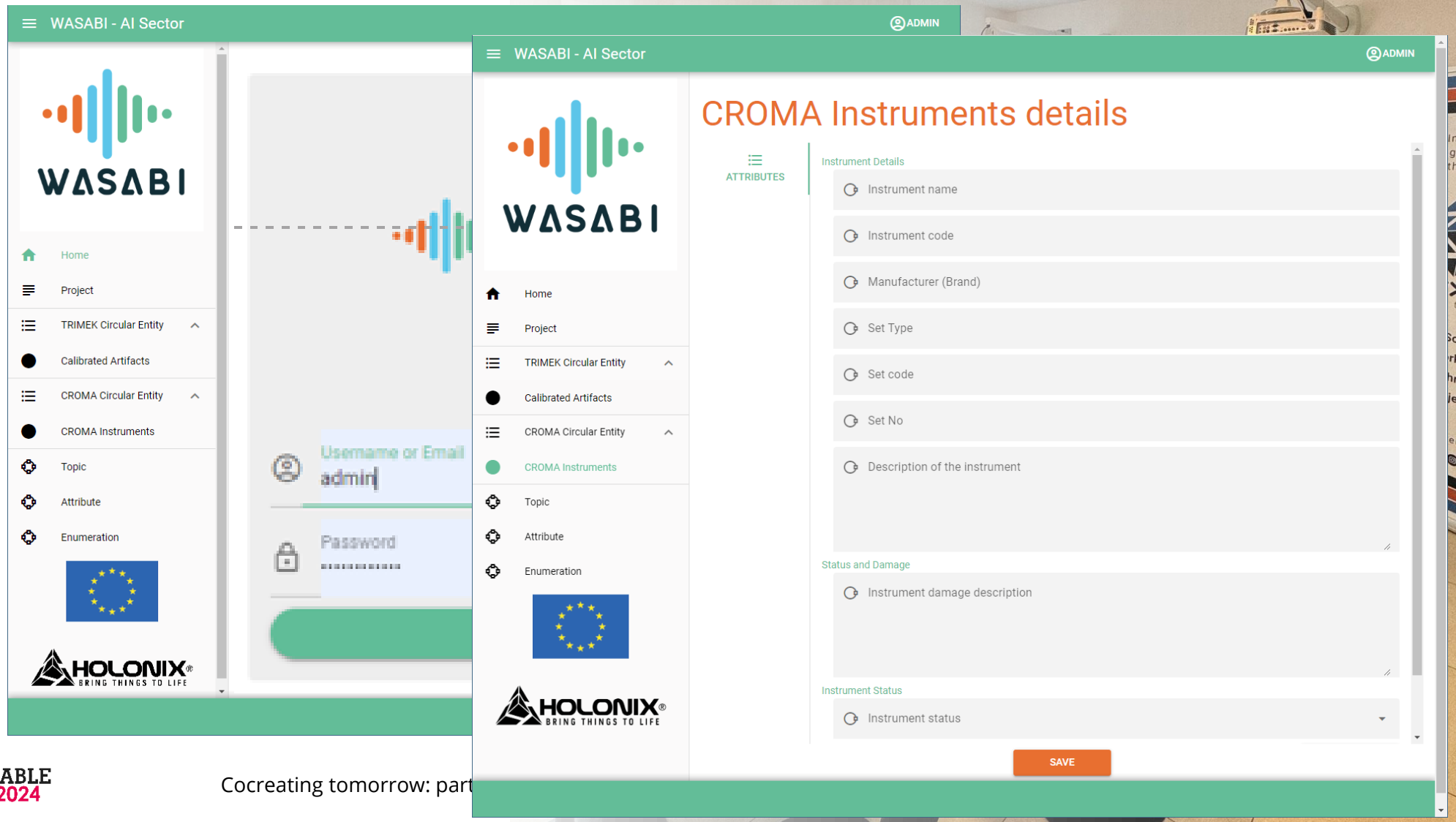






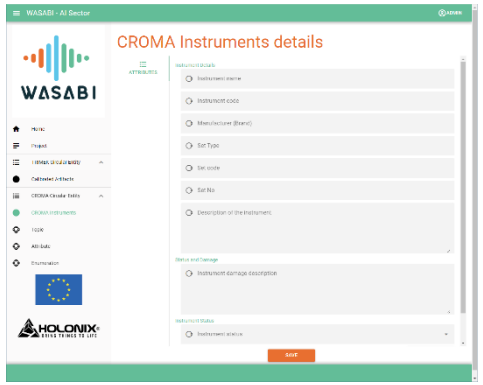
Digitally Enabled Communities

rEUseplatform



Digitally Enabled Comm

rEUseplatform



Manual data insertion
Vocal data insertion

Get info to evaluate next cycle step:
Reuse? Recycle?
Remanufacture?
Sale…?

Share with the Value Chain
Create opportunities
CoCreate tomorrow..

TECH TIPS:
Cloud hosted
Simple UI
APIs for third party connections
Build on open technologies

AI4manufacturing Community

AI TECHNOLOGIES IN THE MANUFACTURING DOMAIN

A community to connect innovators of the manufacturing industry experimenting AI

A place to extend dissemination channels and find connection points

An initiative to share experiences & knowledge

A hub to matchmake, cooperate and co-develop

Dissemination – Communication – Circular exploitation – Clustering

AI4MANUFACTURING

www.ai4manufacturing.net

THANK YOU!

EU Project partner and manager
CoCreation and SSH expert
Digital Solutions developer
Communities and clustering
Circular Economy and Sustainability

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