



This project is co-financed by the European Union
and the Republic of Türkiye



ICTürkiye2025
10 April, İstanbul

PRESENTER FULL NAME: Bárbara Gomes Patrício

ORGANIZATION: Data CoLAB - Collaborative Laboratory for Data-Driven Innovation Solutions

WORKSHOP NAME: Workshop #2 – Twin Green and Digital Transition of Industry

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Description of the Organisation



Portuguese non-profit private association aiming to accelerate digital transformation.

Dedicated to bridging the gap between emerging knowledge and market needs by developing and implementing innovative data-oriented solutions across the entire data value chain.

Sectors of activity:

- Industry and maintenance
- Agriculture, forestry, and biodiversity
- Health and pharma
- Energy, oceans, and communities

Data CoLAB's Expertise



Data acquisition (IoT/ETL)

Data analytics (AI/ML)

Data traceability (Digital
Product Passport)



Decision support systems

Interoperability

Capacitation and training

Research Fields

Traceability and Sustainable Innovation

- Digital Product Passport
- Traceability



NatureTech

- Environmental, social, and governance (ESG)
- Natural Value Performance



Federated Data Spaces

- Data sharing
- Interoperability



Data intelligence

- Open data
- Data observatories



On-going Projects



Digital platform for data-driven and physics-based product development enabling a circular economy

European Union's Horizon research and innovation programme grant agreement No 101177586
Start: 11/2024

Contributions:

- Data acquisition
- Digital Product Passport



Deploying and operating a European framework for the secure and trusted data space for agriculture

European Union's Horizon research and innovation programme (Grant agreement in the final stages)
Start: 04/2025

Contributions:

- Dataspace ecosystem development
- Data governance



Artificial Intelligence Applied to Strategic Decision-Making for the Common Land of Peneda-Gerês National Park

Funded by FCT: Foundation for Science and Technology

Start: 03/2025

Contributions:

- AI/Digital twin
- Nature valorisation

Project Idea

Call Topic: HORIZON-CL4-INDUSTRY-2025-01-TWIN-TRANSITION-01 – Integrated approaches for remanufacturing (Made in Europe Partnership) (IA)

Deadline Dates: 24/09/2025

☐ Objectives:

- Increase the capability in Europe to implement remanufacturing technologies for retaining, reusing, upgrading or adapting the function of products and components;
- Stimulate new synergies for circularity in manufacturing industries.

☐ Expected Results:

- Digital Product Passport: information about products along their overall lifecycle needs to be collected along the remanufacturing operations;
- Stringent data sourcing, interoperability, processing, and robust AI technologies (FAIR data principles);
- Support skills and education capabilities for remanufacturing.

Project Idea

Call Topic: HORIZON-CL4-2025-03-DATA-13: Fostering Innovative and Compliant Data Ecosystems (IA) (AI, Data and Robotics Partnership)

Deadline Dates: 02/10/2025

☐ **Objectives:**

- Easing the compliance process of businesses and professionals with the relevant EU legislation, in particular reporting obligations, and alleviating administrative burdens for businesses and professionals.

☐ **Expected Results:**

- Development and integration of advanced technology for data collection, data sharing and data analytics for simplifying and automating compliance;
- Generating, managing, and leveraging synthetic data to improve fitness for purpose.

- Projects are expected to develop synergies with Digital Europe programme topics implementing Common European Data Spaces



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