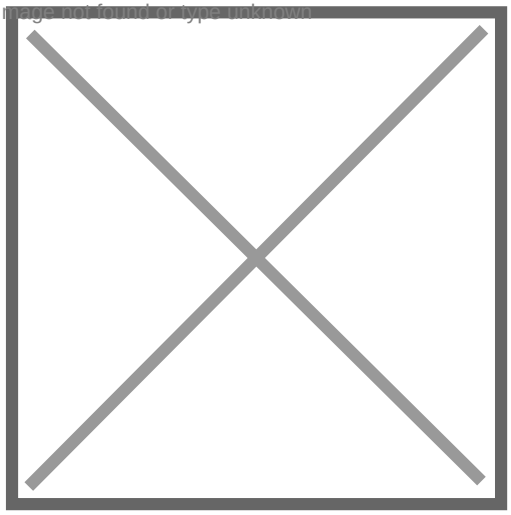
Image not found or type unknown



HORIZON-CL4-2022-RESILIENCE-01-01

DigInTraCE

Full Title: A Digital value chain Integration Traceability framework for process industries for Circularity and low Emissions by waste reduction and use of secondary raw materials

Aim:

DigInTraCE aims to provide a cross sectoral, from sensing to sorting, from materials to products, digitalisation solution and propose a dynamic digital product passport scheme as landmark and in parallel develop and combine these digital with process and material innovations, to increase waste reduction, improve use of secondary raw materials, and thus lead to circular and low emission value chains.

Concept:
DigInTraCE aims at the development of: - a transparent and interoperable Decentralised Traceability platform using novel tracking, sensing and sorting techniques - dynamically updated Digital Product Passport (DPP) schemes supporting certification and quality validation - AI based and decision making mechanisms for process and lifecycle optimisation - up-cycling, reuse and upgrade technologies for improved secondary raw materials use - standardized, open and easy accessible data - business models creating new economic opportunities and learning resources for employees, promoting new digital skills and meeting regional social needs. The solutions are demonstrated in 4 countries in the sectors of a) Pulp & Paper focused in 2 cases: composite wood and furniture; and wood and Pulp & Paper and b) Chemicals focused in 2 cases: plastic parts from ICT equipment and automotive market; and polymers and textiles.

Start date:
01/01/2023

End date:
31/12/2026