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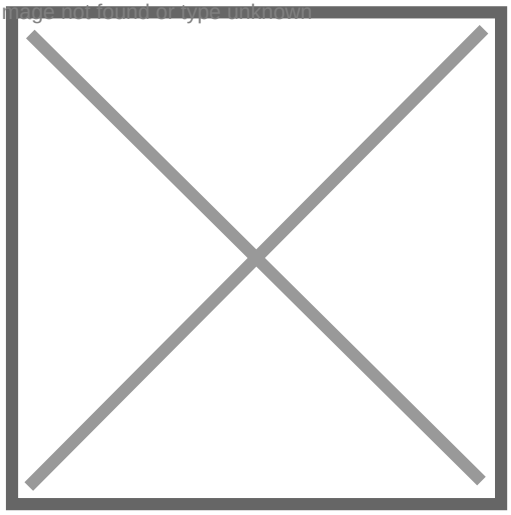

HORIZON-CL4-2022-RESILIENCE-01-01

CE-RISE

Full Title: Circular Economy Resource Information System

Aim:

CE-RISE aims to optimize reuse of critical raw materials, thus minimizing waste and stimulating circular business models. It also includes an ethical factor, making it easier for end consumers to make more sustainable choices. The project will develop an information system that increases traceability and transparency of resources in value chains to make it easy for industries to trace raw materials all the way from production through use, to how and where they are treated as waste.

Concept:
CE-RISE will develop and pilot an integrated framework and an ensuing resource information system to identify optimal solutions for the effective reuse, recovery, and/or recycling of materials by - defining a set of criteria to evaluate the extent to which products and embedded components can be reused, repaired, refurbished and/or recycled – so called RE criteria - incorporating information on RE criteria and material composition of products into a Digital product passport (DPP) to enable traceability of materials in the supply chain - integrating DPP with information on the product environmental footprint (PEF), and socio-economic and environmental (SEE) impacts of RE processes - enabling confidential and anonymized information sharing among actors throughout value chains - providing open access software application to disseminate information on the assessment of RE criteria, PEF and SEE impacts of products to all stakeholders including consumers and policymakers. The solutions are demonstrated 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: in 4 countries, while composite wood case combines both the 2 main sectors.

Start date:
01/01/2023

End date:
31/12/2026