

Building the Digital Thread for Circular Economy Product, Resource and Service Management



Framework



Coordinator

2021 - 2025



Duration

Objective

To unlock access to product data and enhancing it as a decision-making tool that can accelerate circularity and carbon emissions reductions for all actors within and outside the product life cycle.

Innovative Aspects & Technologies

The CircThread will deliver a Circular Digital Thread methodology, a framework for facilitating information flow exchanges across the extended life cycle chain of Products, Components, their Materials and Chemicals data, and related Circularity, Environmental, Social and Economic Information. The project will be tested on 7 business models built on circularity:

- Product tracking and monitoring
- Product manufacturing
- Spare parts recovery
- After end-use status
- Extending the Lifespan
- Critical raw materials and chemicals
- Consumer behaviour



Impacts

The expected impact for the work programme is to enable improved decision-taking accelerating Circularity and Carbon emissions reductions, including:

- Enhanced life extensions of products by better understanding of in-use failures and maintenance needs
- Improved understanding of the quality of end-of-life products for spare parts buy-backs to support right to repair
- Improved assessment of circularity routes by waste management and recycling companies by delivering enhanced product composition data
- Improved materials and chemicals tracing of products and components for safer products and identifying Critical Raw Materials cycles
- Empowering decisions by citizens and citizen organisations by providing direct access to product performance information



Ekodenge's Role

Technical Coordinator

As the technical project manager of the project, EKODENGE will create an information-sharing platform infrastructure developed in line with the circular economy and carbon emissions targets.

Partners



 ekodenge

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