Circ Thread

CircThread wants to help appliances become truly sustainable

https://circthread.com/

https://twitter.com/CircThread

https://www.linkedin.com/company/circthread-project/

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N° 958448

CircThread wants to help appliances become truly sustainable

We want to give you the information you need for appliances to stay in the economic loop longer.We also need to stop throwing away appliances that can be fixed.

To achieve this, we want to swiftly increase appliance lifespan, repairability and reuse. And we want products to be properly recycled when they are no longer repairable.

OBJECTIVES

The project will:

1. Advance the boundaries of secure product tracing across the life cycle with physical-digital product linkages

2. Improve our ability to exchange product information to all life cycle actors and 3rd parties using a product catalogue as a governing tool for the CircThread product data marketplace

3. Advance Circular Economy evaluations including end of use recommendations, repair information, design scenarios and information needed for recyclers

4. Integrated Life Cycle Sustainability & Circularity assessment to provide holistic economic, environmental, social and circularity decision information

The overarching aim is to deliver a 'broker' for product information. Adata marketplace software platform, where individual products will become traceable across their extended life cycle. And receive a digital identity with links to information in a public accessible "catalogue". Information that can be easily requested and exchanged, covering all resources, circularity, economic, environmental and social aspects of the extended product life cycle. The CircThread platform is intended for anyone who 'touches' a product durings its lifetime, including manufacturers, producer responsibility organisations, repair companies, and recyclers.

IMPACTS

1. Development of new businesses related to the transition to a circular economy, and related value-adding consulting services

2. Facilitating the market for secondary raw materials, closing material cycles, and reducing waste generation, environmental pollution and greenhouse emissions

3. Effective use of both primary and secondary resources in Europe, strengthening geopolitical resource independency. Supported by feeding secondary raw materials knowledge into the EU Raw Materials Information System (RMIS)

4. Better insights into the material composition of products and the amount of secondary raw materials in circulation, increasing circularity of relevant material streams

5. Strengthening the use of the Product Environmental Footprint as the standard means for the assessment of the materials efficiency and overall environmental performance of products

6 Improving our ability to critically review green claims by enabling consumers to take environmentally informed purchasing decision

7 Allowing product designers and developers to take environmentally informed decisions at an early stage

8 Better insights on how to transfer successful product information management approaches to other businesses and sectors

USE CASES

CircThread includes 7 Use cases that will be tested in Spanish, Slovenian and Italian pilots focusing on home appliances and home energy sectors.

7 Use cases

1 Creating a digital identity of your appliances and linking all parties across the life cycle

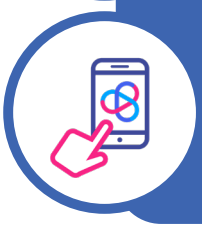
2 Making it possible to link information from the manufacturer to the 'Appliance Digital Identity'

3 Allowing repair companies to recover as many parts as possible from used appliances

4 Empowering collectors to decide what is best for used appliances: reuse, remanufacturing or recycling loops

5 Making a continuous improvement planning process for appliance lifespan extension

6 Making it easier to know what chemicals and critical raw materials are in appliances for recycling purposes



7 Empowering citizens to make better purchasing and use decisions for repair and lifespan

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