PSS Pass

Shaping a Sustainable Future with Digital Product-Service Ecosystems

The project enhances **manufacturing sustainability** by integrating products and services into a unified **Product Service System (PSS)**. Using digital tools, it tracks and shares lifecycle data, including origins, components, and environmental impact.

The project's central idea is that the **DPSSP will provide crucial new insights into the sustainability potential** of both products and services. For example, the overarching hypothesis is that using **Life Cycle Assessment (LCA)**, supported by **Machine Learning (ML)** methods and fed with real-time data, will lead to more accurate LCA results and better life cycle decision-making.

PSS-Pass will develop tools and frameworks for creating and using DPSSPs, including:

Methods for building and updating these digital passports

A digital environment that supports data sharing and interoperability

Simulations to analyze the product lifecycle using Digital Twins

AI tools to predict the environmental impact of PSS

The PSS-Pass solutions will be tested and assessed in three different areas:

Pilot 1

Sector - Home appliances

Pilot 2

Sector - Complex equipment

Pilot 3

Sector - Textile

Our Team

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