

PSS Pass

Shaping a Sustainable Future with Digital Product-Service Ecosystems

About the Project

This 36-month 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.

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

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Digital Product-Service Ecosystems

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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.

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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



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