



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:



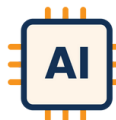
Methods for
building and
updating these
digital passports



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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