r3-mydas.eu

R3-MYDAS

Remanufacturing, **R**epurposing and **R**ecycling Energy Goods through advanced Mechatronic and Digital technologies

SHAPING **SUSTAINABLE FUTURES** THROUGH **INNOVATIVE REMANUFACTURING** FOR **ENERGY GOODS**

The **R3-MYDAS** objective is to establish sustainable circular value chains for remanufacturing energy goods by creating a multi-actor framework that combines digital technologies, mechatronics, and insights from social sciences and humanities.

KEY DEVELOPMENTS

- Marketplace for remanufactured products
- Digital Product Passport
- Application of machine learning for process and quality control
- Digital twins
- Additive manufacturing, laser-cladding and automated disassembly/reassembly of pieces
- Integration of social sciences and humanities

STUDY CASES

- Oil & Gas components
- E-vehicle batteries
- Wind turbine gears

IMPACT

- 20% Carbon footprint reductions
- 25% Environmental impact reduction
- 10% Cost reduction

Partners

netcompany intrasoft · EWF · aimen · AVL · csem · deepblue · eit Manufacturing · FLENDER · HAROKOPIO UNIVERSITY OF ATHENS · ikerlan · itml innovation applied · LUT University · SPIN Robotics future of assembly · TMCOMAS · ziknes

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