



r3-mydas.eu



R3-MYDAS

Remanufacturing, Repurposing and Recycling 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



Carbon footprint reductions



Environmental impact reduction



Cost reduction

Partners



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