

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



[r3-mydas.eu](http://r3-mydas.eu)



## STUDY CASES



**Oil & Gas components**



**E-vehicle batteries**



**Wind turbine gears**

## IMPACT



**Carbon footprint reductions**



**Environmental impact reduction**



**Cost reduction**

## Partners

Netcompany



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FLENDER



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Co-funded by the European Union

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