



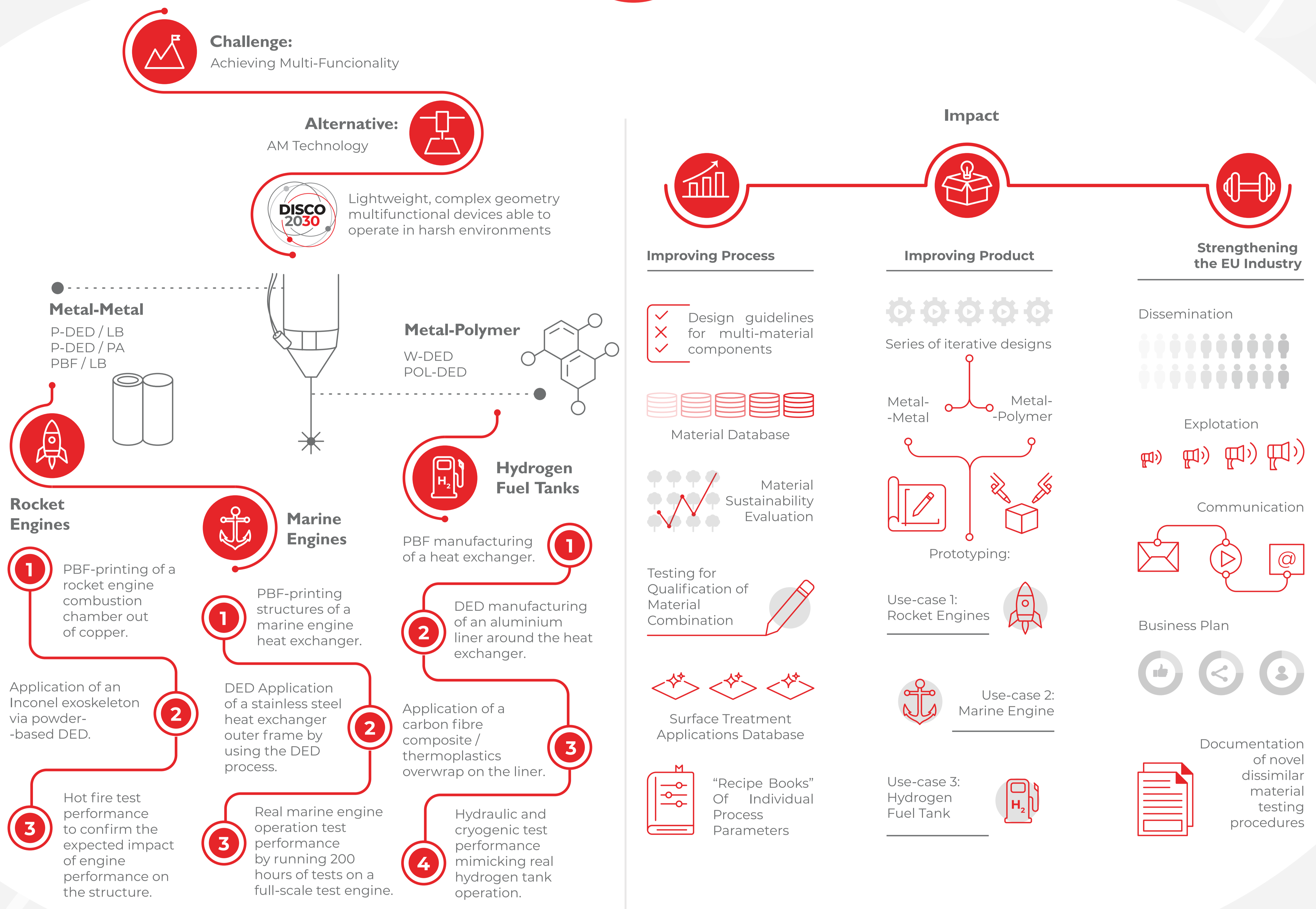
HYBRID MANUFACTURING

Multi-material | Lightweight | Complex Geometry

The DISCO2030 project aims to develop two innovative hybrid manufacturing methods for joining dissimilar metal-metal and metal-polymer materials. Both proposed methods are underpinned by Additive Manufacturing (AM) technologies from the emerging technology families of Powder Bed Fusion (PBF) and Directed Energy Deposition (DED).

← ABOUT

DISCO2030 combines the advantages of PBF and DED to enable the manufacturing of multi-material lightweight, complex geometry components/structures that can operate in harsh environments.



OBJECTIVES →

O1 | Re-confirm the use-case KPIs to be achieved during the demonstration phase, qualify the candidate materials, and develop novel dissimilar material testing protocols.

O2 | Develop a first-of-a-kind hybrid manufacturing method for joining dissimilar metal-metal and metal-polymer materials.

O3 | Upscale and demonstrate the two novel hybrid manufacturing technologies in relevant environment as part of three use-cases.

O4 | Disseminate, exploit and communicate the project results, paving the way for technology commercialisation post-project.

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