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REED

REsponsive and REconfigurable
value network for the
manufacture of bulky parts

A HORIZON EUROPE Research and
Innovation Project



A TRANSFORMATIVE
DIGITAL PLATFORM FOR
SMART MANUFACTURING

Follow our journey and be part of the
future of smart manufacturing!

CONCEPT

The **REED** project aims to revolutionize the manufacturing of large and complex components for capital goods sectors, such as **energy generation, construction machinery, and railway infrastructure**.

By developing a Manufacturing as a Service (**MaaS**) **platform**, REED will enhance the flexibility, efficiency, and sustainability of production processes. This innovative platform will integrate advanced digital technologies, automation, and smart manufacturing solutions to optimize supply chains, ensure high-quality standards, and reduce environmental impact.

REED will establish a **more agile** and **connected manufacturing ecosystem**, redefining the production of bulky components while ensuring European industries stay **resilient** and **competitive** in a rapidly evolving market.

OBJECTIVES

- 1** Integration of production-related **digital twins** into MaaS platform for sustainable and efficient production of large-sized parts.
- 2** **Servitisation of assets** for manufacturing of bulky parts within a collaborative manufacturing value network.
- 3** **Development of visual monitoring systems** and scoreboards to present timely information.
- 4** **Apply Digital Product Passport (DPP) and Manufacturing Data Space (MDS) initiatives** in the domain of bulky part manufacturing across different capital goods sectors.
- 5** **Demonstration** of the benefits of using REED platform to manufacture bulky parts.

PILOT CASES

Yellow goods sector **1** **KOMATSU**

Optimising high-variability, large-part production through smart reconfigurable manufacturing systems in the yellow goods sector

2 Metal forming machinery sector **WWR**

Enhancing sustainability in short-batch production using digital twins and environmental impact tools in the machinery equipment sector

Metal cutting machinery sector **3** **GOIMEK**

Minimising reconfiguration and verification time while ensuring process reliability through advanced process surveillance in the metal cutting machinery sector.

