



metaFacturing

Data and metadata for advanced digitalization of manufacturing industrial lines.



NEWSLETTER #2



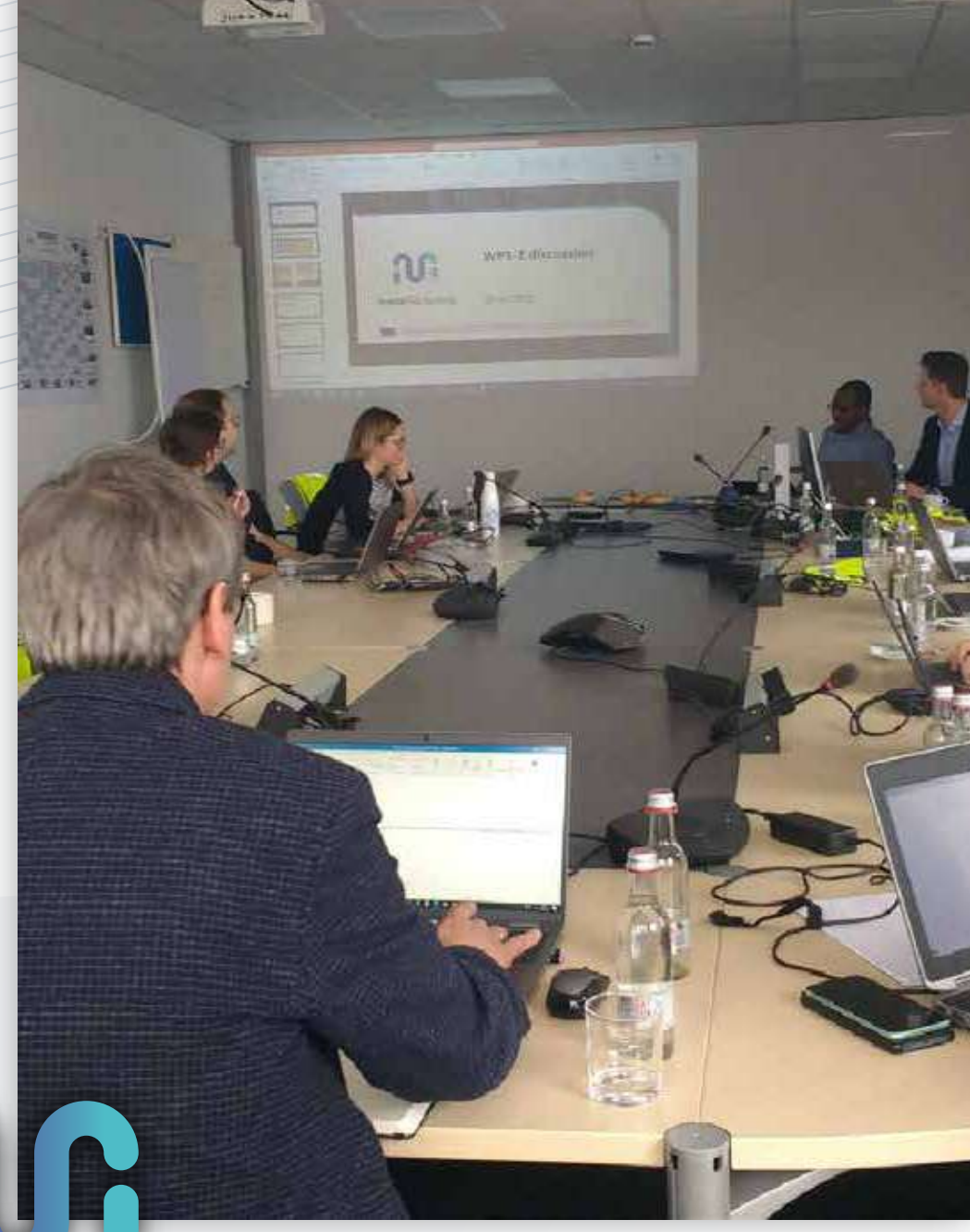
FEBRUARY 2025

PROJECT OVERVIEW

### Message from the coordinator of metaFacturing Project

metaFacturing project has reached the end of project year 2, and 2025 will be the final year, where the developed technologies will be showcased at industrial scale, focusing on the welding use case (hosted by Benteler) and on the casting use case (hosted by LTH Castings).

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OVERALL GOAL

### Data environment in the welding use case

The metaFacturing project has the overall goal of establishing a more resilient production process by researching the development of an AI-based digital twin for metal part production, thereby reducing costly rework and scrap.

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2ND EXPERIMENTAL CAMPAIGN

### Lab Test & Simulation of metaFacturing Project

Two weeks before Christmas, we conducted the second experimental campaign for the welding Use Case in our lab. This marked an exciting milestone after weeks of detailed discussions within the consortium and meticulous preparations.

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LCA UPDATE

### Life Cycle Assessment of metaFacturing Project

The Life Cycle Assessment (LCA) is a standardized and widely applied methodology to account for the environmental impacts of products and services along their entire life cycle. This approach divided into four main steps that are interconnected with each other.

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DIGITAL TWINS

### Digital Twins for real-time Quality Assessment

Manufacturing efficiency hinges on the quality of produced parts. Traditionally, quality control relies on operator experience and random sampling. However, the industry is increasingly embracing digital twins (DTs) for real-time quality assessment.

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NEW EVENT IN 2025

### Join metaFacturing at SCHWEISSEN & SCHNEIDEN

We are excited to announce that the metaFacturing Project will be showcased at the world-renowned SCHWEISSEN & SCHNEIDEN 2025 trade fair, taking place from September 15–19, 2025, in Essen, Germany. This premier event is a global hub for innovations in joining, cutting, and surfacing technologies.

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meta Facturing

## Save the Date

15.09. - 19.09.2025

Join metaFacturing at **Schweissen & Schneiden 2025**  
International Trade Fair  
Joining | Cutting | Surfacing




Co-funded by the European Union

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