



metaFacturing

Data and metadata for advanced digitalization of manufacturing industrial lines.



NEWSLETTER #1



JANUARY 2024

ABOUT

General Overview of the metaFacturing Project

MetaFacturing focuses on a digitized toolchain for metal part production which will lead to a more resilient production process with respect to the raw materials used (e.g., recycled materials), reduces operator effort and cost, and reduces scrap due to out-of-specification parts.

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OBJECTIVES

Objectives of the metaFacturing Project

With the vision to create a widely-applicable DT based process setup and control framework, MetaFacturing focuses on the creation of a digitized toolchain for metal part production. This will allow to obtain a more resilient production process with respect to the raw materials used (e.g., recycled materials).

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DEMONSTRATORS

The Demonstrators of the metaFacturing Project

Central in the project will be the development of two demonstrators, selected for the wide application of these processes in the manufacturing sector the high potential for replication/adaptation and the potential impact envisaged for their application and scale up at industrial level.

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PARTNERS

The Partners of the metaFacturing Project

MetaFacturing project brings together six market leaders (FRONIUS, NEMAK, FILL, VITRONIC, BENTELER and LTH) that closely cooperate in order to reach a new level of leadership in sustainable manufacturing while maintaining their respective market dominance.

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PROJECTS SYNERGIES

Sister Projects Synergies of the metaFacturing Project

With the objective of achieve a higher level of impact beyond project level, metaFacturing project is collaborating with other R&D PIONEER on digitalisation of Industrial Systems and Lines: PIONEER & DiMAT.

We believe that these joint will boost awareness regarding the outcomes of the projects and promote technology transfer across relevant stakeholders!

Get to know them:

PIONEER: This Horizon Europe project took off last January. PIONEER aims to develop and implement an interoperable Materials-Modelling-Manufacturing Ecosystem, enabling multidirectional dataflow throughout the material value chain by connecting the production's various stages. Combining a design-by-simulation approach with manufacturing and quality data, PIONEER will optimise product development strategies in high-mix/low-volume production schemes.

DiMAT: DiMAT Project will develop Digital Technologies for modelling, simulation and optimisation in each stage of the material value chain (design, processing and manufacturing) with data analysis services and visualisation techniques for improving quality, sustainability, effectiveness, and competitiveness of materials.



OUR NEWS

metaFacturing Newsfeed

Get to know more about the latest developments about the project!



APRIL 03, 2023

Kicking-Off the Activities

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MARCH 27, 2023

M3 Internal Meeting

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FEBRUARY 07, 2023

Kick-Off Meeting

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