

## HOLISTIC DIGITAL TRANSFORMATION OF THE SMEs MANUFACTURING INDUSTRY

DiMAT project aims to develop Open Digital Tools with a set of advanced technologies for offering SMEs and Mid-Caps an affordable full modelling, simulation and optimisation system in each stage of the material value chain (design, processing and manufacturing) for improving quality, sustainability, effectiveness, and competitiveness of materials.

DiMAT will deploy 3 integrated Suites: DiMAT Data and Assessment Suite, DiMAT Modelling and Design Suite & DiMAT Simulation and Optimisation Suite. The DiMAT Suites will be demonstrated in 4 Pilots of European designers and producers of different materials: textile, composite, glass and graphite.

### WHAT ARE THE MAIN OBJECTIVES OF THE PROJECT?

- Support the transition towards industrial digitalisation
- Increase speed of innovation by optimising the use of existing research results and facilitating uptake of new projects results
- Design digital tools for industry to enhance efficiency and product quality, as well as to increase the capability for better and faster reaction to market changes
- Contribute to the development of advanced material modelling solutions in particular for manufacturing industry
- Enhance data interoperability and new type of services related to the data analysis, simulations and/or visualisation techniques in each stage of the material value chain using FAIR data principles

Running for 3 years starting from January 2023, the DiMAT project is led by a consortium that is a multidisciplinary team comprised of the following partners: CERTH, F6S, UPV, Fraunhofer, AITEX, NTUA, CETMA, DRAXIS, AMS, DIN, ROPARDO, NATUREPLAST SAS, TECNORED, ACCELIGENCE LTD, Hegla, CETCOMP, SUPSI and IMERYS.

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