DiMAT

Holistic digital transformation
of the SMEs manufacturing industry

DiMAT's Next Chapter: Paving the Market Adoption Journey

F6S Innovation
Ellie Shtereva, 11st December 2025

The EU-funded DiMAT project is set to revolutionize the materials manufacturing sector. Moving beyond a successful pilot phase, the project is embarking on an ambitious journey toward market adoption with its three suites of nine innovative digital tools, all accessible through a single, intuitive platform. DiMAT is not just developing technology; it's building the future of sustainable and efficient materials manufacturing.

Digital Power for Sustainable Production

DiMAT, which stands for Digital Modelling and Simulation for Design, Processing and Manufacturing of Advanced Materials, offers a set of advanced solutions including AI-driven modeling, design, simulation, and optimization tools. These powerful toolkits enable manufacturers to accelerate design cycles, optimize complex processes, accurately predict material behavior, and enhance sustainability. They directly address critical industry challenges such as the efficient use of both conventional and advanced materials, and ensuring precise control over manufacturing lines.

What makes DiMAT compelling is its commitment to accessibility. The solutions are designed to be available via a flexible Software-as-a-Service (SaaS) model through the central DiMAT platform. This approach specifically targets SMEs, allowing them to access advanced digital capabilities without the need for extensive local infrastructure and costly digital products.

Market Readiness: Focused Development and Real-World Value

Following a rigorous development phase and extensive testing across four pilots (polymer, composite, glass, and graphite), DiMAT is now strategically focused on finalizing its commercial readiness.

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"We've seen excellent results in our pilot environments," states Ellie Shtereva, Exploitation Manager for the DiMAT project. "Companies are recognizing the profound impact DiMAT can have on their operations, from centralizing scattered data to accurately simulating new material blends. Our next step is to translate these successes into robust, fully market-ready products."

Early Adopters: Co-Creating the Solutions

A cornerstone of DiMAT's market strategy is its successful Early Adopters Programme, which engaged external manufacturing companies as active co-creators. Participants unanimously validated the high relevance and significant added value of the solutions, formally committing to future use by signing **Letters of Intent (LOIs).**

This programme provided invaluable, focused feedback:

- Elvez highlighted the critical need for a centralized Cloud Material Database (CMDB) and predictive simulation for regrind materials.
- Lam'On emphasized the strategic value of process optimization using the Knowledge Acquisition Framework (KAF) and the Digital Twin for Process Control (DTPC).
- Organic Steel expressed keen interest in leveraging the Material Modeler (MM) for sustainable material substitution.

This direct industry input is actively shaping the final development roadmaps, ensuring the solutions precisely meet evolving market demands.

The Path Forward: Access the Solutions Today

The DiMAT platform is already available to the public. Users and companies can explore the solutions and directly contact the providers to receive tailored offers based on their specific needs.

Access the DiMAT Platform and Solutions Now: **https://lp.stg.dimat-tools.eu/**

DiMAT's journey is a compelling example of how collaborative European research can drive genuine innovation. The next chapter is not just about bringing tools to market; it's about empowering an entire industry to thrive through intelligent, data-driven solutions.

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