Newsletter #4 18.06.2025

MAASive

Manufacturing As A Service to Increase resilience in ValuE networks

MAASive 2nd Consortium Meeting Hamburg, March 11–13, 2025

From March 11–13, 2025, Technische Universität Hamburg hosted the MAASive project's second consortium meeting, gathering all partners to strengthen collaboration, share updates, and plan next steps. Over three days, academic and industrial members reviewed progress, focusing on "Alpha" and "Beta" model development, data management, gender and diversity integration, risk and quality assurance, and strategic exploitation planning.

MAASive, Horizon European project, coordinated by Aalborg University, promotes **value network resilience** by enabling manufacturers to quickly respond to disruptions or sudden changes in supply and demand. This is achieved through a **digital toolkit** based on **Manufacturing-as-a-Service (MaaS)**, supported by data-driven models and the servitisation of manufacturing assets across organizations. The development follows three main loops:

- The Alpha Loop **(Model Foundations)** lays the groundwork by developing foundational models and classification schemes that define and structure service offerings. Closely aligned with an iterative human-centred approach - involving professionals from real use cases to define requirements and test early solutions - it establishes the core elements on which the entire toolkit is built.
- The Beta Loop **(Impact Simulation and Scenario)** builds on this foundation to simulate disruptions and assess reorchestration strategies, enabling value networks to respond flexibly and effectively to external changes.
- The Final Loop **(Network Orchestration and Operation)** brings the toolkit to full maturity by delivering tested methods and tools for orchestrating operations and scaling production, ensuring readiness for real-world application.

During the consortium meeting, workshops were held to present the Alpha loop demonstrations, the Beta loop development - emphasizing a unified MaaS interpretation - a dynamic Gender Equality and Diversity session, and the FAIR-guided Data Management. Partners also reviewed exploitation, IPR, and key lessons learned from the Technical Review Meeting held in September 2024, reinforcing the need for clearer communication, synergy description, and open access commitments. The event fostered open dialogue and cross-partner alignment.

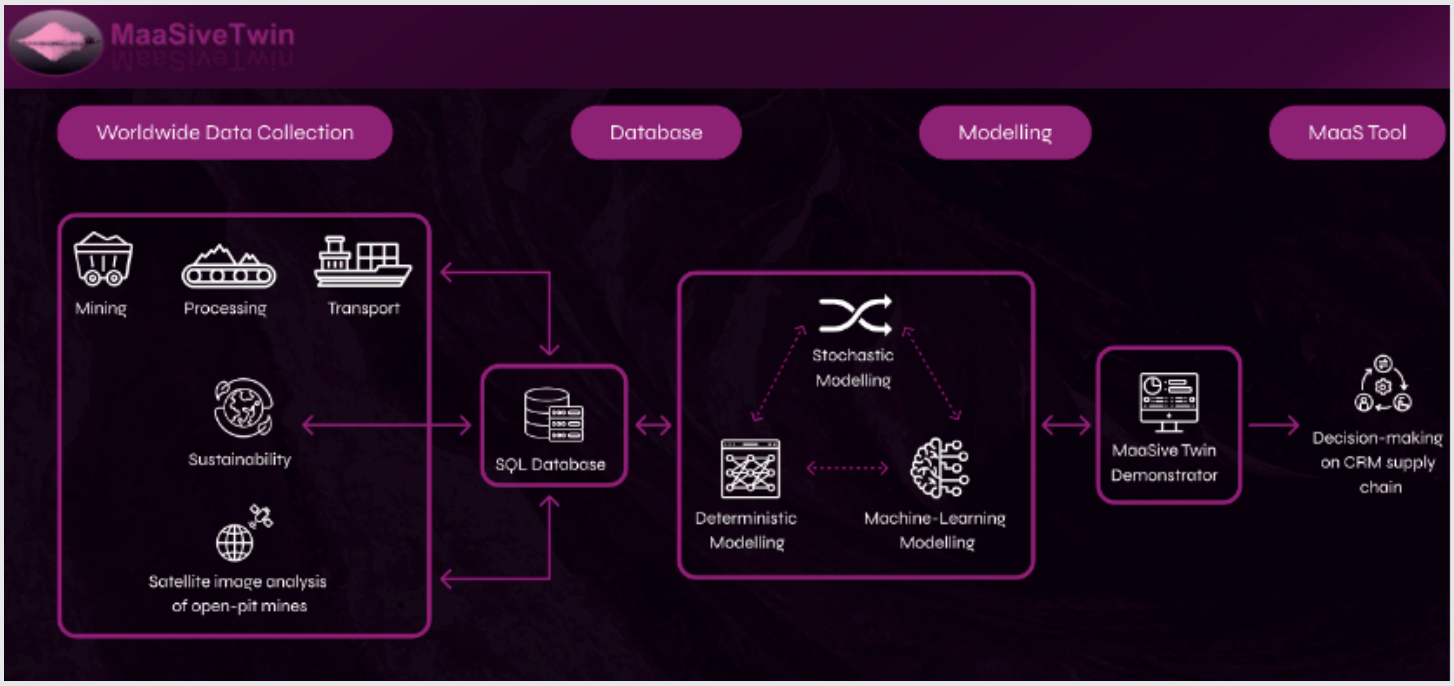
MAASive Consortium Meeting 2025

Funded by the European Union

MAASive is funded by the European Union under Horizon Europe GA 101138040 | www.maasive.eu |

| Exploring Synergies: MAASive & MaaSiveTwin Collaboration |

A key highlight of the consortium meeting was the MAASiveTwin synergy session, where project leaders Dr. Kjeld Nielsen (MAASive - https://www.maasive.eu/) and Dr. Michael Hess (MaaSiveTwin - https://maasivetwinproject.eu) discussed complementarities. MAASive's disruption resilience modelling and MaaSiveTwin's predictive capabilities offer promising collaboration, especially in forecasting disruptions, time-based assessments, and critical raw material flow mapping.
The two EU-funded initiatives share a common vision of enhancing resilience: MAASive investigates the dynamics of disruptions in value networks and tools for leveraging on MaaS to foster value network resilience, while MaaSiveTwin applies digital twin technology and predictive analytics to manage risks in the supply chain of critical raw materials (CRM), together they anticipate disruptions, manage risks, and support agile, informed decision-making.
Planned next steps, coordinated with the MAASive Communication and Dissemination leader, Politecnico di Milano (Professor Margherita Pero, PhD), include the implementation of joint communication actions and mutual LinkedIn engagement, fostering knowledge sharing between the teams.



Source from: maasivetwinproject.eu

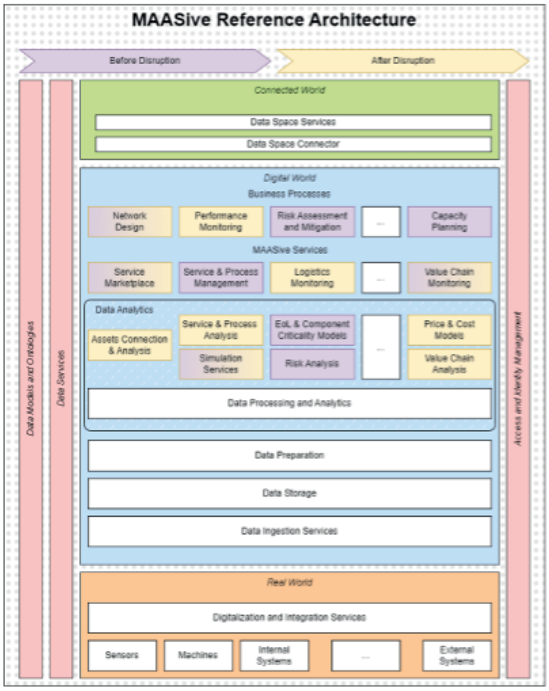
| MAASive Platform Nears Key Release Milestone |

In collaboration with **TXT Group**, the MAASive platform is approaching its first major release, in June 2025, following the "MAASive Reference Architecture" (De Luca, Gabriele - TXT) published in December 2024 (https://www.maasive.eu/publications).

This platform integrates the Alpha Loops models and introduces the **Search & Discovery App** — a web-based tool that allows companies to publish, discover, and request manufacturing services. The Alpha Loop focuses on process classification, digital connection between services and assets, critical component strategies, and cost/price estimation using Activity-Based Costing.

Key features include:
- guided onboarding
- role-based user management
- central administration panel
- service definition and publishing based on validated taxonomies
- a searchable services catalogue
- cart-based request functionality
- multilingual support
- data connectors for seamless system integration

The upcoming release will be validated through pilot cases at **Kamstrup Use Case** (Multi-Sourcing and Disruption Management) and **Arçelik Use Case** (Flexible Supply Chain and Production Planning), serving as a foundation for detailed service and data integration across the MAASive ecosystem.



Source from: TXT Group document

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| Discover Manufacturing-as-a-Service (MaaS) with MAASive |

Our brand-new **Manufacturing-as-a-Service (MaaS)** concept video is now live! Discover how MAASive is transforming European manufacturing by creating **flexible, resilient, and sustainable value networks** through intelligent collaboration. In just a few minutes, the video explains what MaaS truly means, why it matters in today's fast-changing industrial world, and how MAASive brings this vision to life through cutting-edge research and innovation. Join us on the path to a smarter, more agile manufacturing future.

Watch the video here:
www.maasive.eu/videos

| Exploring MAASive Pubblications |

The MAASive project is dedicated to pioneering **research on large-scale additive manufacturing technologies**, focusing on developing **new materials, scalable processes, and digital tools.** Recent publications, freely accessible on Zenodo, include detailed reports on experimental results, process optimization, and innovative approaches to multi-material printing and process monitoring.

To explore the full range of publications and stay updated on the project's latest advancements, visit the MAASive publication portal:

https://www.maasive.eu/publications and the Zenodo community at **https://zenodo.org/communities/maasive/**.

Stay tuned — MAASive is on the move!

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