# Press release

DISCMAM

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# DISCMAM prepares for final demonstrations and project closure

- Recent achievements in process optimisation, digital quality assurance and secure data-sharing capabilities are paving the way for the upcoming demonstration activities.

The road towards the final validation of the DISCMAM solutions brought project partners together in Reykjavík, Iceland, on 11 June 2026 for a strategic meeting focused on integration, final demonstrations, KPI measures and project closure.

Hosted by project partner Euler at the iconic Harpa Concert Hall, the consortium meeting provided an opportunity to review the progress achieved over the last six months and align the activities and actions required for the final phase of the project.

The discussions focused on the final integration phase of the hardware and digital developments delivered throughout the project for both Directed Energy Deposition – Laser Beam (DED-LB) and Powder Bed Fusion – Laser Beam (PBF-LB) technologies. These activities are essential to achieve the final project milestone: the validation of all systems and digital solutions, the measurement of key performance indicators (KPIs) and the completion of the benchmark analysis demonstrating the value of the DISCMAM approach for secure on-site metal Additive Manufacturing.

## Key developments pave the way for final validation

Over the past months, significant progress has been achieved across the project's technical work packages, completing key developments and implementations that now form the foundation for the upcoming demonstration and assessment activities.

One of the major achievements during 2026 was the successful completion of the milestone "*Optimised manufacturing strategies to ensure quality in portable Additive Manufacturing systems*", led by ADAXIS. This milestone concluded the

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work package dedicated to developing digital solutions for on-site process optimisation, quality assurance and manufacturing efficiency.

The completed developments include advanced 3D scanning and geometry recognition methodologies, DED-LB path planning and deposition optimisation strategies, quality assurance frameworks for portable metal AM systems and fast-response predictive models capable of supporting real-time process assessment and quality evaluation.

Together, these developments provide the technological foundation required for the integration and assessment of the DISCMAM innovative solutions in representative operational scenarios.

## DED-LB integration moves into the concluding stage

Significant progress has been achieved in the integration of the digital and hardware developments for the DED-LB solution.

Current activities include testing a unified software environment that combines the different modules in the CAM Platform: 3D scanning, path planning, process monitoring and post-processing functionalities into a single workflow. Demonstrations covering the complete process chain, from component digitalisation to manufacturing and repair, have already been carried out.

In parallel, the integration of the new modules in AdaOne platform created by ADAXIS and associated to the particular hardware and systems into LORTEK's multi-robot DED-LB wire cell is being finalised, creating a unified environment and pipeline where the different digital tools developed during the project can operate together with minimum intervention of the cell operator.

Further advancements include the definition of repair procedures for the second DISCMAM use case, upgrades to process monitoring systems and camera infrastructure, improvements to the remote assistance WebApp and updates to the digital modules supporting process path planning, monitoring and workflow management.

The integrated DED-LB workflow is now approaching the stage where its performance can be assessed through representative repair demonstrations.

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## Digital tools deployed in the portable PBF-LB solution

During the meeting, it was also reviewed the latest achievements related to the integration of the PBF-LB solution.

Several key digital developments have already been integrated into the manufacturing workflow, including the Cybersecure Digital Pathway testing and validation, enabling secure data exchange and remote support capabilities, the Fast-Response Digital Twins, designed to support process optimisation, and the Digital Data-Driven Quality Module, which enables part quality assessment using manufacturing process data.

An important milestone has also been achieved through the integration of Fieldmade's portable NOMAD®03 system within the DISCMAM framework. In parallel, the digital developments validated at the Danish Technological Institute (DTI) are currently being transferred to the portable platform in Fieldmade, supporting the deployment of a complete and fully operational PBF-LB solution.

With the core technologies now integrated, the focus shifts towards demonstrating their combined performance and assessing the overall DISCMAM approach.

## Focus on the last DISCMAM milestone

The next stage of the project will centre on repair and manufacturing demonstrations based on the selected use cases for both metal AM technologies, assessing the performance of the integrated solutions, the complete digital workflow and the secure data-sharing capabilities developed throughout DISCMAM.

The results obtained will contribute to the measurement of project KPIs and the completion of the benchmark analysis required for the final project milestone.

Alongside the technical work, the consortium is also advancing exploitation activities aimed at maximising the long-term impact of the project. This includes the development of a business plan exploring future commercial opportunities and a technology roadmap outlining how DISCMAM results could be adopted within the European defence ecosystem.

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As the project moves towards completion, partners are now concentrating on the remaining assessment, exploitation and dissemination tasks ahead of the final demonstrations planned before DISCMAM concludes in November 2026.

*DISCMAM partners at the M30 Consortium and PTC Meetings in Reykjavík, Iceland.*

## Social Media

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