

DIGITAL TWINS OF LASER PROCESSING FOR MULTI-CAPABILITY MANUFACTURING OF COMPLEX COMPONENTS AND DIGITAL CERTIFICATION

Newsletter #7

01. Digital Certification Goes Live!

Work Package 8:
Driving the Digital Certification of AM!

Our **Work Package 8** (WP8) is a cornerstone of the **DILAPRO** project, specifically focused on creating the digital blueprint for laser additive manufacturing (AM) qualification. Led by Qualified AM (QAM) and running until Month 36, WP8 is building the core digital tool for compliance: the **DILACERT** software.

This isn't just theory; it's a full digital pathway, moving step-by-step from initial assessment through to final regulatory readiness.

Milestone Achieved: Baseline Set for Digital Certification (D8.1)

We've hit a crucial milestone in setting the groundwork for digital certification!

Our first major output, **Deliverable 8.1: Validation & Documentation**, has just been wrapped up (Public, due June 2025). This deliverable established the foundational requirements and procedures needed to gather certification evidence from all our pilot lines.

We took the complex process of compliance and distilled it into a single, user-friendly tool: the **DILACERT** workbook.

Key Highlights - Why This Matters:

- **A Unified Approach:** We've created one version-controlled workbook for all sites. This ensures every pilot line follows the exact same, standards-mapped method for collecting data, streamlining the entire project.

- **Standards-Aligned Workflow:** The entire process follows a structured four-phase method (Preparatory Review Data Acquisition → Data Validation & Security → Analysis & Reporting), directly mapped to relevant ISO/ASTM standards. This makes it instantly compliant.

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What's Next? Building the DILACERT Software!

The next phase involves taking the data collected from D8.1 to identify remaining gaps (M21-M28). This feedback is crucial; it will directly inform our risk-based certification scheme (D8.3) and feed into the actual **DILACERT** software development (D8.4). We're excited to move from the drawing board to the final product!

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Stay tuned for updates on our pilot line performance!

02. Beyond Tech: DILAPRO Builds a Responsible and Inclusive Culture

The **DILAPRO** project is pushing the boundaries of laser processing and digital integration, but true innovation requires more than just technical brilliance—it demands trust, integrity, and inclusion. Our commitment to these values is central to the project, managed explicitly through Task 6.3.

Culture by Design: Ethical Frameworks in Action

What does this commitment look like in practice?

The **DILAPRO** consortium established clear protocols for handling **research ethics** and **gender balance** right from the start. These frameworks are now a formal, actionable part of the project handbook.

- **Clear Reporting:** Everyone knows the correct procedure if a concern or question arises: share it confidentially with the project coordinator, who will address the issue with care and consult relevant groups as needed.

- **Preparedness:** We are pleased that no ethical or gender-related issues have emerged so far, but the consortium stands fully prepared to handle them.

Fostering Fair Participation

Task 6.3 doesn't stop at "what if"—it actively shapes how we collaborate every day. **Ground rules are in place** to ensure all partners have an equal say and opportunity in meetings, regardless of their background or geographical location.

Looking ahead, **DILAPRO** is already planning how to make the project results **accessible and inclusive** for future users of the digital tools, such as the **DILAFACT** interface.

For **DILAPRO**, creating a responsible culture is not merely a box-ticking exercise; **it's built into the way the project operates** and will be integrated directly into the software we are developing.

By making these commitments explicit and actionable, we are laying the groundwork for a truly **open and fair research environment**.



Events



Shaping the Future of European Defence and Additive Manufacturing at AM Village 2026

The DILAPRO Project was proud to participate in the 1st Preparatory Meeting of AM Village in Albacete, Spain, which took place from 21 to 23 October 2025!

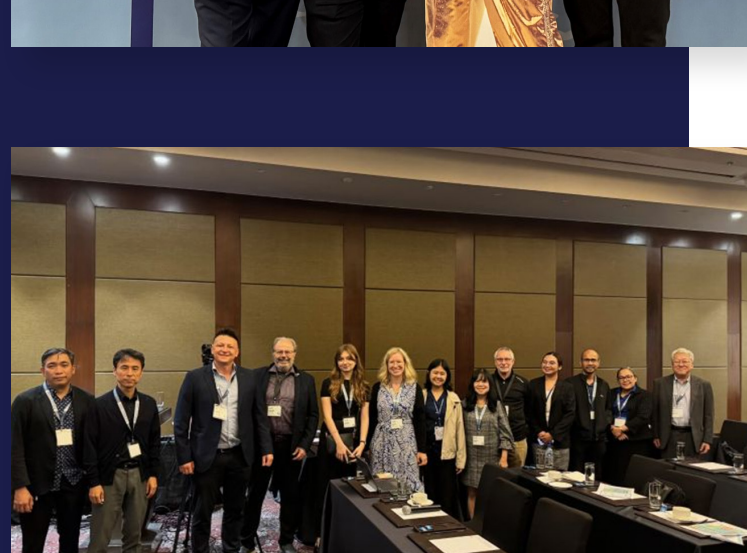
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DILAPRO Takes Stage at ASTM ICAM 2025 in Las Vegas

The DILAPRO project achieved a significant milestone last month, demonstrating its international influence at the ASTM International Conference on Advanced Manufacturing (ICAM 2025), held in Las Vegas from 6th to 10th October 2025.

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DILAPRO Drives New Sustainability Standard at ISO/TC 261

The DILAPRO project is actively shaping the future of sustainable manufacturing by spearheading critical advancements within ISO TC 261.

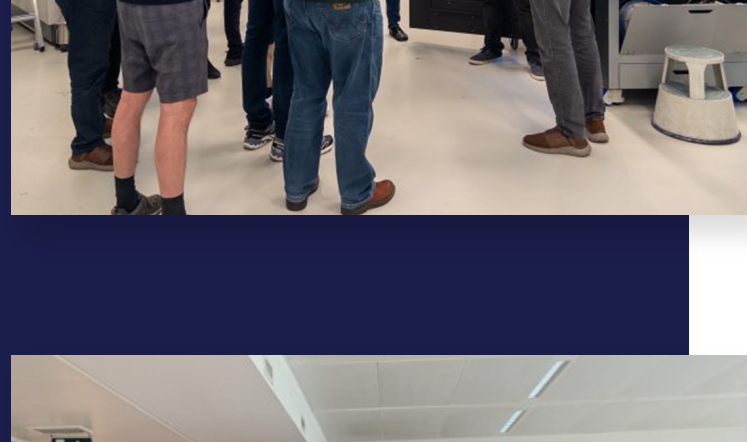
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DILAPRO Showcased at DTI Open Day on Directed Energy Deposition (DED)

The DILAPRO project was a highlight at the Danish Technological Institute (DTI) Open Day on Directed Energy Deposition (DED), a promising technology shaping the future of industrial 3D printing.

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Full Steam Ahead: DILAPRO Passes Key Review Milestone

The DILAPRO project is moving full steam ahead after successfully completing its recent review meeting in Brussels.

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