

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

Newsletter # 11

Building Trust in the Future of Digital Certification

How can manufacturers certify complex laser-produced parts faster, while maintaining the quality and confidence demanded by industry? DILAPRO's **Work Package 8** is addressing this challenge through **DILACERT**, a digital certification approach designed to connect production data, industrial requirements and evolving standards.

The work brings together lessons from across DILAPRO - from Digital Twins and process monitoring to materials data and real production cases - and turns them into practical knowledge for digital qualification. Rather than treating certification as a final, separate step, the project is exploring how reliable evidence can be built throughout the manufacturing process.

Industrial testing and feedback are central to this process. By examining how **DILACERT** performs in realistic scenarios, the project can refine the solution around the needs of manufacturers, inspectors and certification professionals, strengthening its usability, reliability and relevance.

These insights will also help shape an initial contribution to future standardisation. Connecting technical results with certification and standards communities is an important step towards digital conformity assessment that industry can understand, exchange and trust.

The goal is clear: less reliance on costly and time-consuming physical qualification, greater confidence in production data, and a faster, more consistent route to certifying complex laser-manufactured parts.

Events



Save the Date: DILAPRO Final Event in Aarhus

Join us on 3 December at the Danish Technological Institute in Aarhus to discover how production data can support the qualification of metal 3D-printed parts. See DILAPRO's software in action and take a guided tour of the institute's Center for Industrial 3D Printing.

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DILAPRO Brings Digital Certification to ISO/TC 261

At the ISO/TC 261 meeting in Singapore on 14–18 September, Eurico Assunção (EWF) and Gregor Reischle (Qualified AM) presented DILAPRO's recommendations on using data collected during production as evidence for the qualification and certification of additively manufactured parts.

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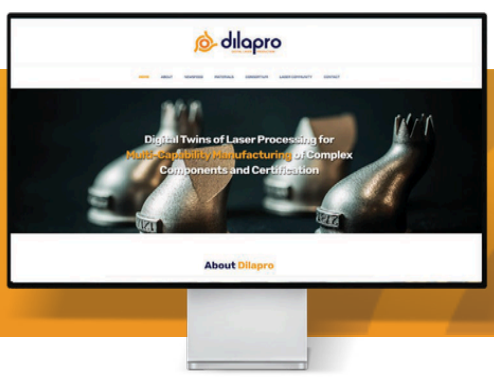


DILAPRO Research Presented at the Gleeble EU Users Group Meeting 2026

Archana Ravi from project partner IMDEA Materials Institute presented her DILAPRO research at the meeting, hosted by Dynamic Systems Inc. Her work explores how the Gleeble 3800 can reproduce the conditions metals experience during additive manufacturing.

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