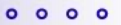




grAcefeful AM

Generating an AI-Enhanced Learning Platform to Unlock Professional Careers & Inspection Excellence in Additive Manufacturing



1. What is grAcefeful AM about?



grAcefeful AM was created to respond to a clear and urgent need in the AM ecosystem: the need for inspection-ready skills in fast-evolving technologies such as DED and PBF. As these processes become more relevant across advanced industrial sectors, the demand for reliable inspection competences continues to grow, but dedicated training pathways for AM inspectors remain limited.

At its core, the project seeks to bridge the skills gap in DED and PBF by integrating cutting-edge AI technologies with specialized training for inspectors.



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2. Why it matters?

Additive Manufacturing is advancing rapidly, and its industrial relevance continues to grow in sectors such as aerospace, energy and automotive. As AM technologies become more complex and quality requirements become more demanding, inspection plays an increasingly critical role. Yet the sector still faces a significant shortage of professionals with the specialised knowledge needed to inspect AM processes effectively.

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As Additive Manufacturing moves into increasingly demanding industrial applications, inspection becomes a key enabler of quality, reliability and trust across the production chain.



The motivation behind grAcefeful AM is rooted in this mismatch between technological progress and workforce preparation, where a critical gap in formalised training for AM inspectors still exists, especially in relation to DED and PBF. This shortage affects workforce readiness, slows the development of recognised professional profiles and creates challenges for companies and training systems that need qualified people to support confidence and quality in AM production.



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3. What makes grAceful AM innovative?

One of the project's strongest differentiators is its integrated approach to innovation. grAceful AM combines specialised AM inspector training with the development of an AI-enhanced learning platform, creating a model that address both technical and educational challenges.

Specialised AM inspector training

- ✳️ Dedicated curricula and learning content focused on inspection requirements in DED and PBF.

- ✳️ International Additive Manufacturing Qualification System (IAMQS)-recognized profile and specialized training in Additive Manufacturing.

AI-enhanced learning platform

- ✳️ A flexible digital environment designed for personalised, self-paced and adaptive learning.

Support for educators and trainers

- ✳️ Enhancing VET and Higher Education capacity through the professional development of educators in AI-assisted teaching.

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4. A strong European consortium

grAceful AM is powered by a multidisciplinary partnership that combines expertise in Additive Manufacturing, VET, Higher Education, R&D, standardisation and EdTech. This diversity is one of the project's major strengths, ensuring that its outputs are both technically and relevant and educationally robust.



Meet the consortium:

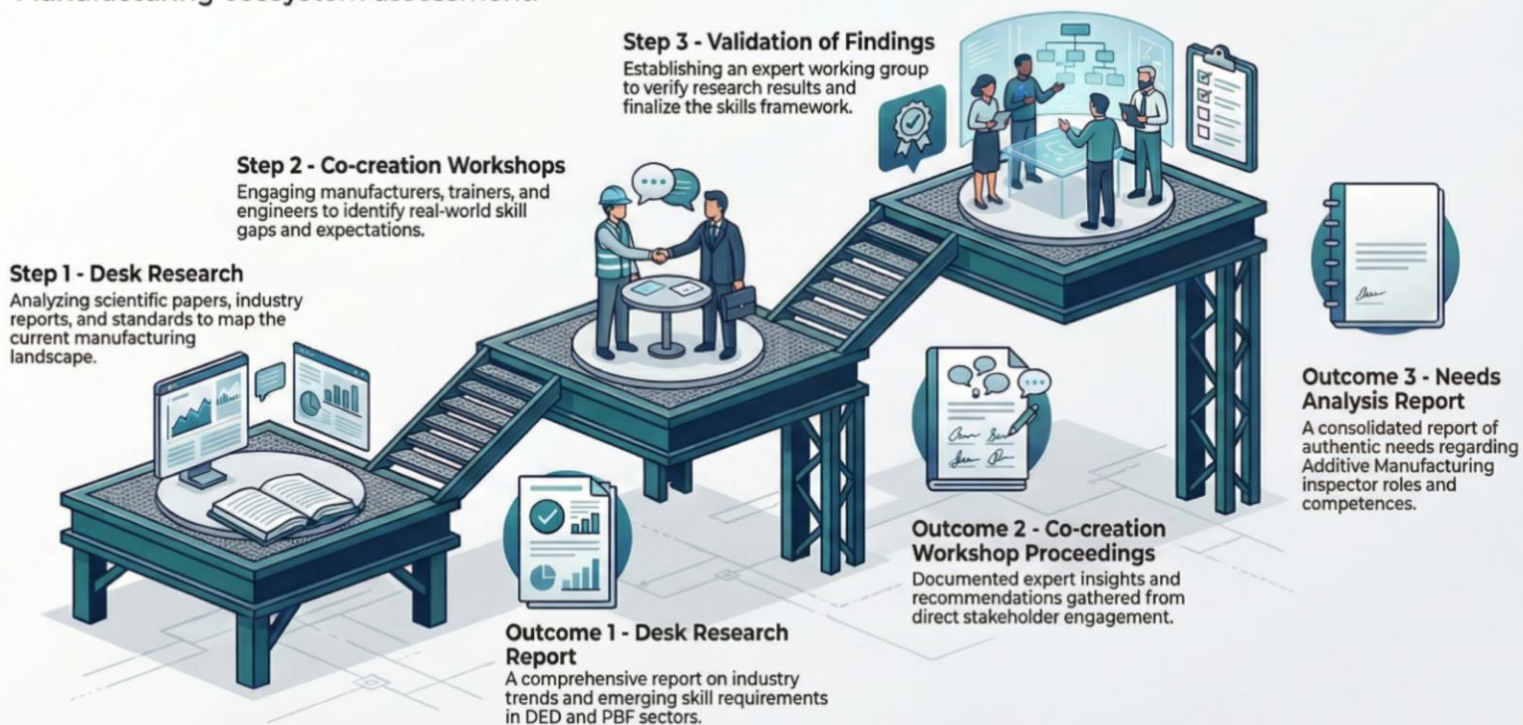


5. What's next?

The project is now advancing through Needs Assessment and Stakeholders Analysis to identify the industry trends, technological developments and emerging skills requirements specifically related to AM inspection roles for DED and PBF.

Steps to Success: The grAceful AM Needs Assessment Journey

Bridging the gap between current training and emerging technological demands through a rigorous Additive Manufacturing ecosystem assessment.



Stay tuned for more upcoming project outcomes!

PARTNERS



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