



grAceful^{AM}

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



AI-Driven Training for AM Inspection

Building inspection skills for DED & PBF through an AI-supported learning platform

grAceful^{AM} is an Erasmus+ Innovation project addressing the need for qualified inspectors through specialised training and an AI-supported, adaptive learning platform that provides personalised training pathways.



Images courtesy of IDONIAL

RESULTS



Needs analysis report in Inspectors for DED and PBF



Specialised curricula for inspection skills



AI supported learning platform



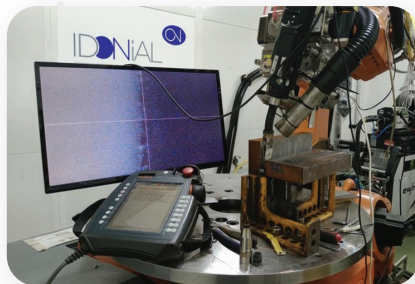
Training offer for educators & trainers in "Ethical AI in Teaching"



Pilot

OBJECTIVES

Building Skills for Advanced AM Inspection



Images courtesy of IDONIAL



Address the skills gap in Additive Manufacturing

focusing on Directed Energy Deposition (DED) and Powder Bed Fusion (PBF) through industry-driven training.



Develop AM inspection training curricula

to tackle the shortage of skilled inspectors and the absence of a formalized inspection profile in existing qualification systems.



Develop an AI-supported learning platform

that enables personalized, self-paced, and adaptive learning through cutting-edge AI-driven pedagogy.



Enhance VET and Higher Education capacity

by equipping educators with the skills to use AI tools, interpret data-driven insights, and integrate AI into teaching practice.



Promote sustainability and green skills

by embedding resource-efficient manufacturing principles, repair strategies, and material optimization into AM training.



Strengthen EU workforce competitiveness

in sectors adopting advanced AM technologies by ensuring learners acquire the technical, digital, and inspection competencies required by industry.

Partners



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Co-funded by
the European Union

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