

University of Firenze



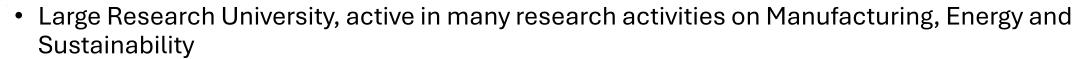
	Project Idea	Advanced Metal Repair Solutions for Complex Components
2		
enterprise europe network Business Support on Your Doorstep	Organization name, town and country	University of Firenze, Italy, Firenze
	Addressed topic(s)	HORIZON-CL4-INDUSTRY-2025-01-TWIN-TRANSITION-01: Integrated approaches for remanufacturing (Made in Europe Partnership) (IA)
* * * * * * * *		HORIZON-CL4-INDUSTRY-2025-01-TWIN-TRANSITION-05: Advanced manufacturing technologies for leadership of EU manufacturers in products for the net-zero industry (Made in Europe Partnership) (IA)

EU INDTECH 2025 Brokerage Event



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- FP7 Intefix
- FP7 Unplugged

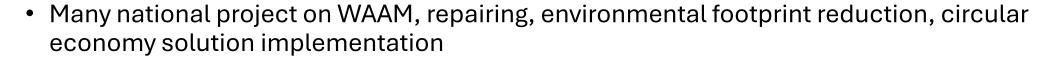
































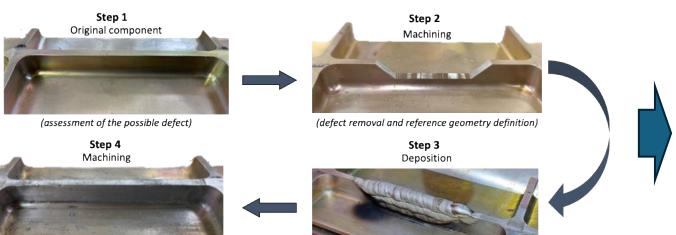
Advanced Metal Repair Solutions

- Provide a complete solution for repairing a metal component
- Analyze the product characteristics and quality
- Development of industrial case studies

(machining to achieve final geometry)

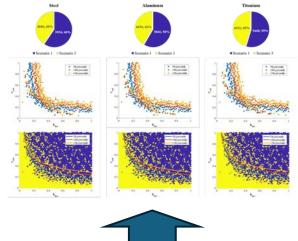
 Holistic assessment of environmental performances (including supply chain)

Technology

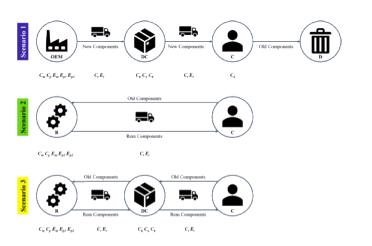


(deposition to recover the geometry)

Economy feasibility



Scenario







Competences / type of partners sought

Competences on:

- Process parameters selection for repairing (WAAM technology)
- Robotic and hybrid (additive/subtractive) 5 axis machine
- Possibility to provide industrial case studies from automotive/aerospace/energy sectors
- Material characterization capabilities
- Strong expertise on titanium, nickel based alloys, aluminium, high alloy steel







in H13 tool steel

1. Study and preparation of the geometry to



Generation of deposition
 to toolpath to recoat the surface





 Deposition of material and finish milling to obtain the final result



4. Analysis of results to verify the properties of the part







Contact details

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