



Grade2XL Final Event

Date: Thursday 11 July 2024, 14:00 – 17:15

Location: Main Venue of IIW2024: Rodos Palace, Nefeli B meeting room

About Grade2XL

Grade2XL is a European project funded through the Horizon 2020 programme. Its objective is to demonstrate the potential of multi-material wire arc additive manufacturing (WAAM) for large engineering structures.

The project brings together a consortium of 21 partners along the value chain of WAAM, including technology developers, material producers, WAAM manufacturers, and end-users from 7 industrial sectors (maritime, energy, aerospace, homeware, automotive, white goods and heavy lifting), as well as a certification body to accelerate the industrial uptake of the technology.

Launched in 2021, Grade2XL is now coming to its end after 4 years of fruitful research and development activities. Grade2XL partners are delighted to present the results and learnings gained in the project in a dedicated session organized during the IIW 2024 Conference.

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14:00 – 14:10	Introduction to the Grade2XL project Dr. Ir. Constantinos Goulas Assistant Professor, University Twente Scientific Advisor, RAMLAB
14:10 – 14:35	Aspects of Grading in Wire Arc Additive Manufacturing Dr. Ir. Marcel J.M. Hermans Associate Professor, TU Delft
14:35 – 15:00	Towards fully automated high quality WAAM printing and repair using MaxQ monitoring and control system Remco Rook R&D Engineer, RAMLAB
15:00 – 15:25	LIN Cooling solutions to increase productivity and quality for WAAM-processes Marco Ameye Fabrication Technology Manager, Air Products
<i>Break</i>	
15:45 – 16:10	Material characterization, in-line monitoring and Non-Destructive Testing aspects of the Grade2XL project: results for extra-large WAAM printed structures Audrey Gardahaut Research Engineer in NDT, CEA-List



16:10 – 16:35	Manufacturing and characterizing an industrial multi-material WAAM demonstrator for energy applications Flore Villaret Research Engineer, EDF R&D
16:35 – 17:00	Industrial Application of WAAM in Forging Tool Repair: Enhanced Durability and Performance Dr. Ir. Leszek Latka Associate Professor, Wroclaw University of Science and Technology (WrocTECH)
17:00 – 17:15	Conclusions and perspectives Dr. Ir. Constantinos Goulas Assistant Professor, University Twente Scientific Advisor, RAMLAB

For any question, please contact lucie.soulard@pole-emc2.fr