

Insights of our Sister Projects and Clustering Activities

Sister Project: D-STANDART - Interview

Please introduce yourself and describe your entity's role in the D-STANDART project. Please also introduce the project's team.

My name is Peggy FAVIER, I'm a senior consultant and Chief Operation Officer at L-UP. L-UP is a consultancy company supporting D-STANDART in two main activities: acting as project management officer and leading the work package dedicated to communication, dissemination and exploitation. We are as such, working under the supervision of the project coordinator, Marco Nawijn (NLR), but also in tight connection with all project stakeholders, team members and our advisory board members. L-UP is also leading activities dealing with socio-economic repercussion studies, looking the impact of improved composite products' durability within

the wider context of societal acceptance of new technologies as well as the perception of the economic benefits of the D-STANDART value chain. This will largely feed the final report on circularity lead by our partner NCC (National Composites Centre, UK).

Please present D-STANDART, its basic goals and visions.

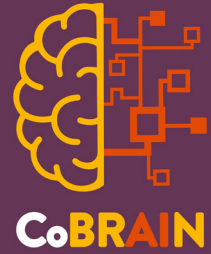
The D-STANDART acronym derives from two terms: durability and standardisation. With durability, we mean the ability of a product to remain functional throughout its design lifetime. Finding the optimal level of durability of a product is a trade-off process that requires models that can accurately predict the use of resources, the structural performance and the overall cost.

For composites, the available models that allow assessing complex structural responses are slow and do not have the required accuracy while resource and cost estimation models lack integration into the design process. Supported by artificial intelligence (AI) based surrogate models that are trained using experimentally validated high-fidelity simulation data, D-STANDART aims to make durability evaluation models fast and accurate, promoting their use in the design process and thereby enabling



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Press Release #5



Is there a particular moment or achievement related to this project that you would like to share with us?

The first dissemination and training events were organized in summer 2024. These events demonstrated D-STANDART's potential to transfer project innovations to a broader audience. Looking at D-STANDART technical progress, at this very moment D-STANDART is producing a lot of scientific results and most of our testing activities (approximately 700 coupons are tested) are finalising. The Digital Thread is in place and all LCA/LCC/TEA studies are being matured, and will be soon complemented by a large survey campaign towards industry but also towards the general public. But a prominent momentum is definitely happening with the preparation of JEC 2025 where D-STANDART will have a key representation via a dedicated stand , 2 presentations, 2 training workshops and 2 stakeholders workshops.

The team is proud and very engaged in the participation of this determinant *Get Together!*

Is there anything else you would like to share about D-STANDART?

The D-STANDART Academy is a key to unlock D-STANDART's potential on dissemination and training. Videos are regularly posted on key topics of D-STANDART research.

Finally, the team is composed of committed researchers/ individuals with complementary expertise/skills. The good collaboration, together with its cross-industry approach (aeronautics, wind energy providing our 2 use-cases) highly contributes to the project's success.

How can subscribers stay informed about your D-STANDART progress, news and major achievements?

Follow our actualities on [LinkedIn](#), but also on [website](#) and finally [Zenodo](#) where Open Access publications and data are progressively published by the team as our dissemination activities are ramping up.

a further acceleration of the net-zero transition.

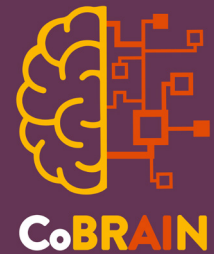
In summary, D-STANDART is focused on the improvement of two engineering activities of high-performance composite structures: the evaluation of their fatigue resistance and the characterisation of cradle-to-cradle environmental impacts, through life-cycle and techno-economic assessments, enabling product developers to efficiently account for sustainability in their decision-making processes.

Please give us an overview of the plan and the consortium.

D-STANDART involves nine partners (three universities, two RTOs, two industrial companies and two SMEs) from six countries (France, Germany, the Netherlands, Spain, Italy, Belgium and the United Kingdom). The advisory board consists of six end-users (Rolls Royce, Fokker Aerostructures, Leonardo, Siemens Gamesa, Embraer, Coexpair) and two esteemed researchers from renown RTO (Fraunhofer and DLR) and will support the consortium by validating requirements, guiding the project's approach to certification, and finally supporting results' uptake in tight alignment with the European Materials Modelling Council (EMMC) and European Materials Characterisation Council (EMCC).

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Press Release #5



AiMPACT at EMMC 2025 - 5th EMMC International Workshop 2025



The six sister projects forming the AiMPACT cluster—AddMorePower, AID4GREENEST, CoBRAIN, D-STANDART, KNOWSKITE-X, and MatCHMaker—jointly participated in the 5th EMMC International Workshop 2025, held from April 8–10 at TU Wien (Vienna, Austria).

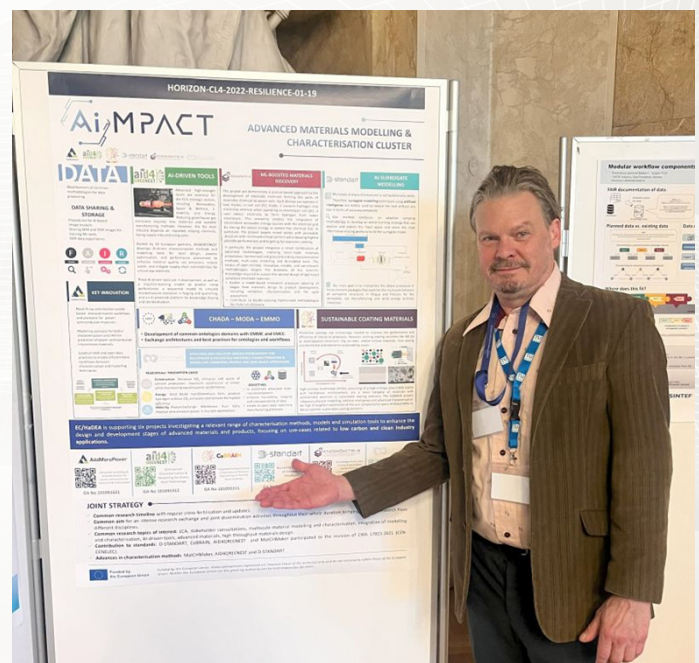
This year's workshop served as the official stage for the first public presentation of the AiMPACT cluster, symbolised through a shared poster co-designed by all six projects. The poster illustrated the Project's goals, the complementarities among the projects, and the common vision driving their contributions to materials modelling and digitalisation in Europe.

By presenting this unified poster, the AiMPACT projects highlighted their commitment to collaboration, cross-project alignment, and the development of shared strategies to tackle challenges in data-driven materials innovation. This joint action also marks the beginning of a series of coordinated outreach efforts planned by the cluster throughout 2025.

Through this joint presence, AiMPACT projects demonstrated their commitment to collaboration,

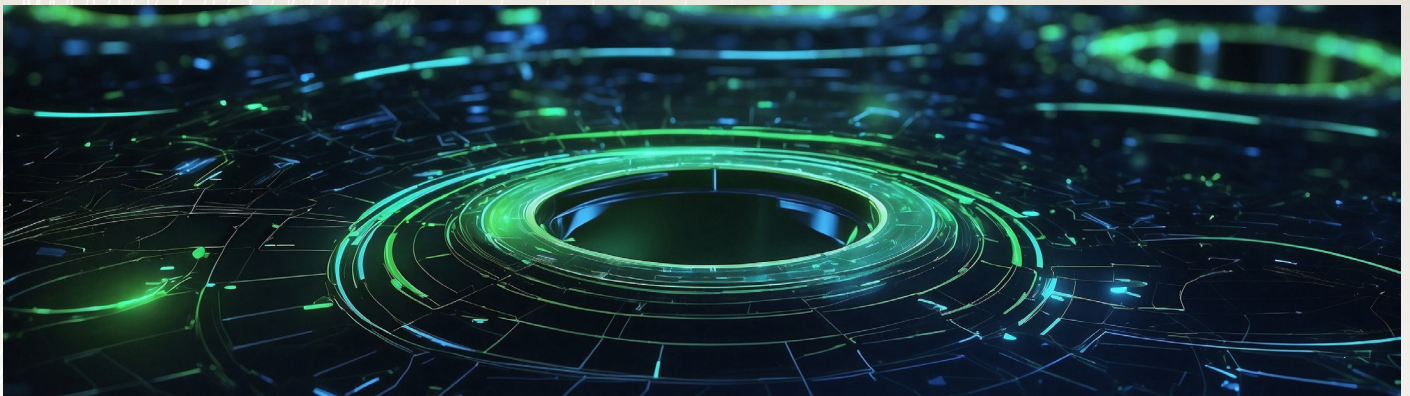
knowledge exchange, and building a stronger ecosystem around sustainable and intelligent materials development.

For more information about the EMMC 2025 Workshop, visit: <https://emmc.eu/events/emmc-2025>



Insights of our Sister Projects and Clustering Activities

Press Release #5



CoBRAIN attended the EMMC 2025 Common Satellite Workshop “DATA LIFE CYCLES IN THE WORLD OF MATERIALS MODELLING & CHARACTERISATION”

by EMMC, related project MatCHMaker and its sister projects | APR 07, 2025 | 12:00 - 18:00 CEST | TU Wien, Vienna

CoBRAIN participated in the EMMC 2025 Common Satellite Workshop on “Data Life Cycles in the World of Materials Modelling and Characterisation”, co-organised by EMMC and the MatCHMaker project. The event, held on April 7, 2025 (12:00 – 18:00 CEST) at TU Wien, Vienna, brought together the AiIMPACT cluster projects (AddMorePower, AID4GREENEST, CoBRAIN, D-STANDART, KNOWSKITE-X, MatCHMaker) and stakeholders.

During the workshop, project representatives shared their approaches, challenges, and strategies for managing each stage of the Data Life Cycle—from planning and acquisition to processing, analysis, preservation, and sharing. The session also fostered discussions on future developments, best practices, and strategies for improving data management.

CoBRAIN was proudly represented by Prof. Emanuele Ghedini from the University of Bologna (UniBo). His presentation, “EMMO for Manufacturing: The CoBRAIN Knowledge Base for Thermal Spraying Process, Modelling, and Characterisation”, highlighted the integration of the European Materials Modelling Ontology (EMMO) into CoBRAIN’s data framework. He showcased how this structured approach enhances data interoperability, traceability, and standardisation, enabling more efficient modelling and characterisation of thermal spray coatings. The discussion also addressed the challenges and future directions in leveraging semantic technologies for industrial applications, reinforcing CoBRAIN’s commitment to advancing data-driven innovation in surface engineering.

<https://emmc.eu/events/matchmaker-emmc-2025-satellite-workshop-apr-7-2025-tu-wien-vienna-at/>



#CoBRAIN Project

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