



*AI-Powered  
Characterisation  
and Modelling  
for Green Steel  
Technology*

## WHAT IS AID4GREENEST?

AID4GREENEST is a three-year (September 1, 2023 - August 31, 2026) Horizon Europe project with a budget of around 5 million EUR. It aims to develop a range of new Artificial Intelligence-based rapid characterisation methods and modeling tools for the steel sector.

## IN THIS EDITION

- MEET the AID4GREENEST team
- Latest project news
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- Upcoming events

## WELCOME TO AID4GREENEST A GREEN STEEL FUTURE!

*Dear Reader,*

*Welcome to our first newsletter!*

*In the Aid4Greenest project, we are working hard to make our planet a better place to live. In this newsletter, and in future editions, we will share with you what we have already achieved, what we are doing right now, and what we plan to do over the coming months in this ambitious effort to modernise the steel-manufacturing sector.*

*We look forward to having you on board for this exciting journey.*

*With best regards,*

*Ulhat Sabirov, Coordinator of the Aid4Greenest project*

# MEET THE AID4GREENEST TEAM

The AID4GREENEST consortium consists of 10 partners from 4 European countries (Spain, Belgium, Germany and Finland).

This diverse group includes partners from both the public and private sector as well as from a range of academic, research, industrial and government bodies including IMDEA Materials Institute, EurA AG, ePotentia, Fraunhofer IWM, Ghent University, OCAS NV, Reinoso Forgings & Castings, The Spanish Association for Standardisation, the University of Oulu and the University of Liège. [Read more...](#)

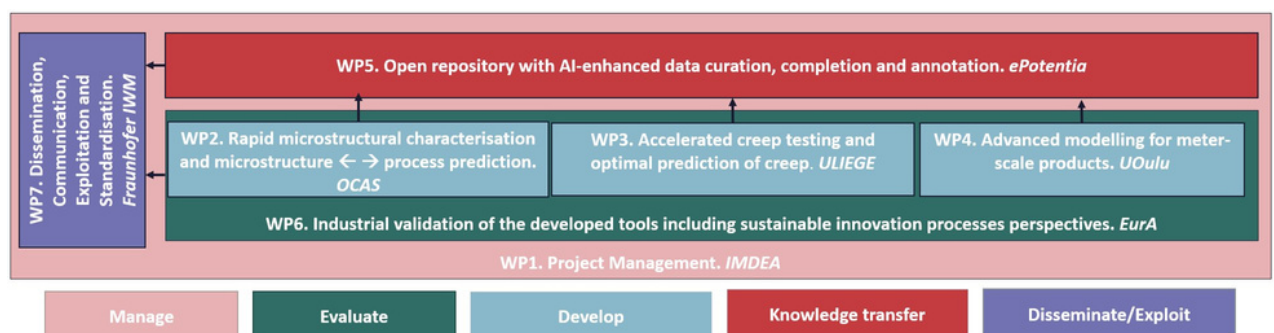


## Partners



## PROJECT STRUCTURE

AID4GREENEST is arranged in 7 work packages (WP), each of which oversees a separate component of the project.



# One step closer to more sustainable steel production: AID4GREENEST kicks off in Madrid, Spain

03

EDITION 1,  
FEBRUARY  
2024



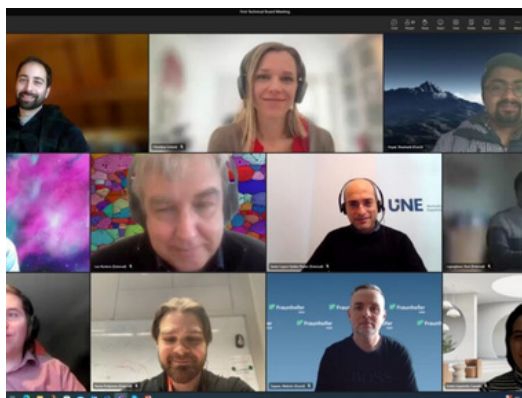
From September 26-27, 2023, the AID4GREENEST project celebrated its official kick-off meeting in Spain's IMDEA Materials Institute. All 10 of the project partners were in attendance at the event, marking the first time that the many researchers, industry experts and consultants behind the ambitious project have had the opportunity to meet under one roof. [Read more...](#)



## REINOSA F&C AND OCAS NV MANUFACTURE AND SUPPLY MATERIALS FOR CHARACTERISATION

AID4GREENEST industrial partners Reinosca Forgings & Castings (RFC) and OCAS NV have successfully achieved the project's first milestone in the manufacturing of materials for characterisation.

[Read more...](#)



## AID4GREENEST CELEBRATES FIRST TECHNICAL BOARD MEETING

On January 21, the AID4GREENEST project celebrated its first Technical Board Meeting in which all seven Work Package leaders gave updates on their current progress.

[Read more...](#)



## AI FOR THE MATERIALS INDUSTRY (AI4MI): AN OPEN ONLINE COURSE USING OPEN DATA

Artificial intelligence is a focal point of the AID4GREENEST project. Rina Jaeken from ePotentia attended the AI MSE 2023 Congress from November 22-23.

[Read more...](#)

# COLLABORATION WITH EU SISTER PROJECTS AND INITIATIVES

A key element of the AID4GREENEST project is the collaboration with our EU sister projects and initiatives. We are committed to establishing collaborations with our sister and partner HORIZON Europe projects such as AddMorePower, CoBRAIN, D-STANDART, DiMAT, Knowskite-X and MatCHMaker as well as EU initiatives including the European Materials Modelling Council (EMMC) and the European Materials Characterisation Council (EMCC). You can review examples of these ongoing collaborations below:

JOINT EVENT MODELLING & CHARACTERISATION PROJECTS

HORIZON-CL4-2022-RESILIENCE-01-19  
Advanced materials modelling and characterisation

February 26<sup>th</sup>, 2024



## A4G PARTICIPATES IN WORKSHOP ON ADVANCED MATERIALS CHARACTERISATION AND MODELLING

[Read more...](#)

Workshop Report: NMBP-35 Workshop on Characterisation & Digitisation

On 17 January 2024, the NMBP-35 H2020 Projects CHARISMA, NanobEComms, and EAS-STRESS hosted their second joint exploitation event in Madrid at the I3G facilities. The workshop, titled 'From Research to Industry: How Characterisation and Digitisation Change the Game', aimed to explore the impact of characterisation and digitisation on various industries.

The agenda featured three sessions, including industry talks, discussions on the vision of European Materials Modelling and Characterisation Councils, and insights into current opportunities for industry from research facilities and projects.

The sessions under spotlight:

The opening session, led by project coordinators Miguel A. Barbero (CHARISMA), Cristian Chantale (NanobEComms), Niklas Zangenberg (EAS-STRESS), as well as Yvanis Ortega (GTC European Commission), set the tone for the day.

The first speaker included operators' representatives from key industrial players at I3G, and EAS-STRESS addressing topics like digital twin in metal material manufacturing, in-line process analytical technologies like Raman spectroscopy, and the digital transformation of analytical labs.

## AID4GREENEST RESEARCHERS LOOKING TO CHANGE THE GAME AT DIGITISATION WORKSHOP

[Read more...](#)

## ePOTENTIA BRIDGING THE GAP BETWEEN MATERIALS RESEARCHERS AND AI

[Read more...](#)

DiMAT's Standardization Workshop - Part 3  
Further discussions concerning MODA, CHADA and EMMO

7<sup>th</sup> December, 2023  
Current status and future ideas • Yoav Nahshon, Pablo de Andrés

## AID4GREENEST RESEARCHERS TAKE PART IN DIMAT WORKSHOP

[Read more...](#)

On the road for SRIA 2030

14 November 2023  
Press Club Brussels & online

## A MORE SUSTAINABLE FUTURE: AID4GREENEST ADVANCES CLEAN STEEL PARTNERSHIP

[Read more...](#)

## Sister and partner projects

# Latest project videos



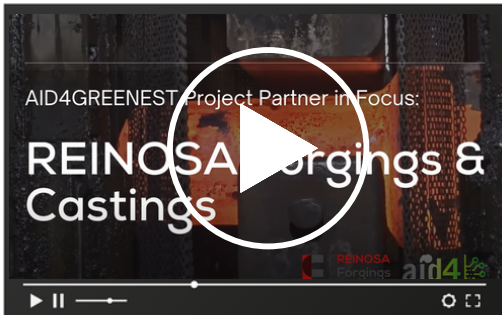
**STEEL FOR THE FUTURE: HOW AI IS PROMISING MORE SUSTAINABLE STEEL PRODUCTION THROUGH AID4GREENEST**



**MEET THE AID4GREENEST TEAM: ANNE-MARIE HABRAKEN FROM THE UNIVERSITY OF LIÈGE**



**MEET THE AID4GREENEST TEAM: SHASHANK GOYAL FROM EURA AG**



**AID4GREENEST PARTNER IN FOCUS: REINOSA FORGINGS AND CASTINGS**



Follow us on YouTube for more multimedia content, [here](#).

## AID4GREENEST in the news



The launch of the AID4GREENEST project attracted significant media interest from both general news outlets at the national level such as [Europa Press](#), trade publications including [Acer Metal](#), local news organisations like [Cantabria Económica](#), [El Diario Montañés](#) in Asturias and [Cadena Ser Madrid Sur](#) in Madrid.

# UPCOMING EVENTS



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On March 25, 2024, AID4GREENEST will be hosting an online seminar from our project partner The Spanish Association for Standardisation (UNE) on European standardisation to support R+I. In this seminar, you will learn about the European Standardisation system and the ways you can take advantage of it for your R+I project. The duration of the seminar will be approximately 1 hour. **For more information and to register, follow this link.**



AID4GREENEST will hold its first consortium review and General Assembly online on **March 21, 2024.**



SIAM Conference on Mathematical Aspects of Materials Science (MS24) which will be organized on **May 19-23.** **Find out more.**



Thank you for signing up for the AID4GREENEST newsletter. Our next edition will be released in August 2024. Until then, follow us at our website: [www.aid4greenest.eu](http://www.aid4greenest.eu)

And don't forget to follow us on our social media channels



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