



# ALCHIMIA

## Spring Newsletter

Welcome to ALCHIMIA's 3rd newsletter | April 2024

Dear ALCHIMIA community,

We are very excited to release our third newsletter! Within this newsletter, readers will easily be able to locate:

- [Statement from the Coordinator](#)
- [ALCHIMIA Webinar](#)
- The ALCHIMIA Project's Contribution to Sustainable Development Goals
- ALCHIMIA Project Meeting at Cardiff University
- ALCHIMIA Project [Training](#) Programme
- Previews of our latest [blogs](#)!

The ALCHIMIA project is dedicated to promoting sustainable metalworking in the EU, and we are committed to continuing our work towards this goal.

We invite you to stay tuned for further updates on our progress and to follow us on social media to stay up-to-date with the [latest news](#) and developments. By working together, we believe we can make a significant difference in creating a more sustainable future for the

metalworking industry.

Thank you for your support and interest in the ALCHIMIA Project!



## Statement From the Coordinator

### STATEMENT FROM THE COORDINATOR

“The ALCHIMIA Project has reached a crucial phase with the successful integration and validation of the MVP (Minimum Viable Product) of the ALCHIMIA platform in real-world industrial settings. Also, the initial evaluation and extraction of KPIS has been undertaken. This achievement underscores the project's commitment to delivering practical solutions that enhance efficiency, productivity, and sustainability across the industry.

Environmental sustainability is at the core of the ALCHIMIA Project's objectives. With the completion of MS 7, the project has conducted a comprehensive preliminary environmental impact assessment of its technologies and processes. By evaluating factors such as resource consumption, emissions, and waste generation, ALCHIMIA is proactively addressing environmental concerns and striving to minimize its ecological footprint. This assessment lays the foundation for further optimization and refinement of ALCHIMIA's solutions to ensure maximum environmental benefits.”

[click to read the full statement](#)

**Carmen Perea Escribano**



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## ALCHIMIA WEBINAR

The upcoming *ALCHIMIA* webinar: *The Future of Steel: Human-Centred Design and Industry Innovation* will take place on **Wednesday May 29th** from **10-12 am**. Please save the date and [register directly](#) to access the **connection link**. The agenda will be available in the upcoming weeks on the *ALCHIMIA* website.

A promotional graphic for an ALCHIMIA webinar. The background is a photograph of a steel mill with workers in orange safety gear. Overlaid on the image are several text boxes and logos. At the top center is the ALCHIMIA logo, which features a stylized green and orange circular emblem with a gear and a leaf, above the word 'ALCHIMIA' in green. Below this, a white box with an orange border contains the text 'ALCHIMIA WEBINAR' in orange, followed by 'The Future of Steel: Human-Centred Design and Industry Innovation' in orange. At the bottom left, a small calendar icon is next to a green box containing the text 'SAVE THE DATE! Wednesday, 29th May 10-12 AM (GMT+2)'.

**ALCHIMIA**

**ALCHIMIA WEBINAR**  
**The Future of Steel:**  
**Human-Centred Design**  
**and Industry Innovation**

**SAVE THE DATE!**  
Wednesday, 29th May  
10-12 AM (GMT+2)

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The ALCHIMIA Project's Contribution to Sustainable Development Goals



The ALCHIMIA project, a frontrunner initiative under Horizon Europe, aims to empower metalworking industries with a platform for high-quality, competitive, efficient, and green production processes. Focusing on steelmaking, ALCHIMIA seeks an optimal mix of strategies to reduce energy consumption, emissions, and waste while ensuring continued high-quality production.

ALCHIMIA's objectives directly align with several SDGs. Through a focus on SDG 7 (Clean and Affordable Energy), it optimizes energy consumption in steelmaking, contributing to cleaner and more sustainable energy sources. Additionally, ALCHIMIA promotes monitoring to reduce energy use and waste, fostering a more sustainable steel production process.

Read our [blog](#) to find out more.

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**ALCHIMIA PROJECT Meeting at Cardiff University**



On April 10, the ALCHIMIA consortium convened in Cardiff, UK for an in-person meeting hosted by our esteemed partners from Cardiff University. The gathering aimed to review the progress made thus far and outline the next steps for the project.

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## ALCHIMIA PROJECT Training Programme

The ALCHIMIA Project social science research team is developing a skills development programme to facilitate workers' acceptance and optimal usage of ALCHIMIA. The programme aims to empower and motivate the workers to be active actors in the digital factories of the future. Following the Industry 5.0 approach, the project is devoting considerable effort to understanding the organisational and employment implications, including emerging skills and training needs, to be derived from AI and Big Data technologies, which will serve as key requirements for the whole project.

Training products will be based on existing good practice, plus ALCHIMIA Project findings and recommendations. ALCHIMIA is also exploiting analyses and training tools developed within the European Steel Skills Alliance (ESSA) Project for developing targeted training and upskilling measures for the considered use cases and, more in general,

to favour a wide deployment of the developed system through the EU steel sector.

The social science team's exploitation plan in the ALCHIMIA Project is focused on skill needs analysis and the development of training recommendations and products for transitioning to the routine use of the new technologies within the use case sites and for roll-out across the metals sector.

Check out this [blog](#) to gain further insights into the human factor analysis within the ALCHIMIA Project.

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## Discover ALCHIMIA Blogs



### Navigating the Path to Net-Zero: Insights from the Steel Industry

Explore the path towards attaining net-zero emissions by 2050 in [this blog](#).

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## Enhancing Scrap Knowledge and Traceability: Driving Efficiency in Electric Arc Furnace (EAF) Steel Production

The journey toward a more sustainable future begins with a thorough understanding of your materials. Learn how to foster increased efficiency and sustainability in steel production through electric arc furnaces by delving into the nuances of scrap composition and the critical importance of traceability. Explore this topic further by reading our latest blog post [here](#).

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**ALCHIMIA Project's empirical investigation of Industry 5.0 (I5.0)**

Explore the ALCHIMIA Project's insights into Industry 5.0 (I5.0) in [our blog](#). Authored by our team of experts, the post delves into the social and human aspects of integrating digital technologies in the workplace.

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**Don't forget to follow us on X and LinkedIn!**



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[alchimia-project.eu](http://alchimia-project.eu)

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