

Data and decentralised **AI**for a competitive and **GREEN** European **Metallurgy Industry**

About ALCHÌMIA

Alchimia Project is specialized in the digitalization of EU metallurgy industries to unlock the full potential of artificial intelligence and support the green transition.

Mission

Alchimia project is to provide the comprehensive and effective metalworking industries in the EU with a platform to support the transition to high-quality, competitive, efficient, and green production processes with the guarantee of high-quality products in the steelmaking industry.

ALCHIMIA aims to

- Implement a decentralized AI and data solution to support the strategy towards the green transition of European big metallurgy industries;
- Demonstrate the potential of ALCHIMIA solution automatically to dynamically find the optimal mix needed in steel-making processes based on recycled scrap metal, which will be successfully replicated in automotive parts production;
- Assess the environmental impact of ALCHIMIA solution;
- Guarantee the highest levels of trust, safety and seamless collaboration between workers and Al-powered industrial solutions;
- Establish synergies with Artificial intelligence for EU Artificial intelligence on-demand-platform, GAIA-X, European Common Data Spaces and relevant standards;
- Communication and exploitation strategy for the adoption of ALCHIMIA results in several sectors.

GOALS



Green Transition in EU Metallurgy Industries



Reduce Energy Consumption in steel sector



Waste management in steel making process



Green Production process in EU steel sector



Emission management in EU Steel sector



Enabling Al applications in an energy and resource intensive industry context



Advancing on the EU and AI strategy

Who are we?

ALCHIMIA is a 3 year project funded by the European Union's Horizon 2020 research and innovation programme under grant agreement No. 101070046. The consortium consists of 8 from the industrial, academic and research sector from Spain, Italy, Germany, France, Switzerland, Poland, Greece and the United Kingdom. European partners exhibiting a diverse set of skills and expertise, ranging from CELSA Group and environmental monitoring to research institutes and end users for validating the ALCHIMIA solution. The project partners include: ATOS IT, Cardiff University, BFI, EXUS Software, Fonderie di Torbole, Mandat International, CELSA trio group (CELSA France, CELSA Spain, CELSA Poland), and Scuola Superiore Sant'Anna.

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