

EIT RawMaterials

Ana Carina Veríssimo Business Development and Sales



Co-funded by the European Union



METALS AND MINERALS ARE KEY DRIVERS FOR THE ENERGY TRANSITION



Fundamental shift in the resource basis of a society





Images: Agarwal et al. 2017 Green Transparency

DRIVE INNOVATION – UPSCALING PROJECTS











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EIT RAW MATERIALS INNOVATION THEMES







PROCESSING INCREASED RESOURCE EFFICIENCY IN MINERAL AND METALLURGICAL PROCESSES



RECYCLING

AND MATERIAL CHAIN OPTIMISATION OF END-OF-LIFE PRODUCTS



SUBSTITUTION

OF CRITICAL AND TOXIC MATERIALS IN PRODUCTS FOR OPTIMISED PERFORMANCE



CIRCULAR ECONOMY DESIGN OF PRODUCTS AND SERVICES FOR THE CIRCULAR ECONOMY







Connecting matters

OUR PARTNERS: WORLD'S LARGEST COMMUNITY IN RAW MATERIALS SECTOR







BENEFITS OF PARTNERING WITH EIT RAWMATERIALS



BUSINESS INTELLIGENCE

Combined Expertise Tech Trends & Business Creation



300+ START-UPS SUPPORTED THROUGH OUR BOOSTER / ACCELERATOR PROGRAMS

DEDICATED TEAM OF BUSINESS DEVELOPERS AND THEMATIC EXPERTS

ECOSYSTEM

Ability to Mobilize, Outreach to Relevant Solution Providers



300+ PARTNERS OF LEADING BUSINESSES, UNIVERSITIES AND RESEARCH & TECHNOLOGY ORGANISATIONS THROUGHOUT EU





VALUE PROPOSITION

Access to Knowledge	Access to Network	Access to Finance	Access to Talent
 Open Innovation and Idea Challenges Expert Forum and thematic exchanges Studies and Knowledge products 	 World's largest community in the raw materials sector (>300 KIC partners; >500 ERMA partners) Matchmaking Activities Networking events such as the RawMaterials Summit, Partner Day, Expert Forum 	 Funding: upscaling technologies and education formats) [up to 3-4 Mio. €] Funding: support Start-ups via Accelerator and Booster program [up to 200k €] Access to loans, funds and private investors via ERMA [larger scale projects] 	 Active Alumni network with 700+ Raw Materials Alumni all over Europe Connect to EIT labelled Masters Degree Programs and PhD Schools Companies meet Talent through RACE program. Gain visibility as potential employer.





GO-4-0: IRON AND MANGANESE OXIDES WASTES TO METAL ALLOYS

From iron and manganese oxides wastes to valuable metal alloys using novel carbon sources materials



Objective: To produce a Ni/Cu/Co/PGM product from new sources of nickel sulphide concentrates

Motivation: Reducing need for landfill deposits (waste streams into valuable products). Industrial symbiosis

Key Results: Recovering Ni, Cu and Fe and intermediate Cu product from which Cu, precious metals & sulphur are valorised





WHISPER: WATERLESS IRON SILICATE PRODUCTION WITH ENERGY RECOVERY



Project Leader

Objective: To substitute the current technology for the granulation of the iron

Motivation: Valorized waste and impact on environment reduction





3DMPWIRE: MATERIAL EFFICIENT CU WIRE-BASED 3D PRINTING TECHNOLOGY

Efficient and waste-free production of corrosion-resistant components operating in marine environments



Objective: To develop 3d printing parts from new Cu-based alloys wire

Motivation: Reducing the production waste, material consumption and energy





DRIVE INNOVATION - OPEN INNOVATION CHALLENGES

The Innovation Challenge aims to identify unique technologies that Anglo American's Decarbonisation Ventures team can support – helping applicant companies, their founders, and investors – from idea through to implementation.

MINING	The beneficiation of iron ore feeds for use in Direct-Reduced Iron processes
PRE-PROCESSING	Reducing or removing carbon emissions in existing pre-processing stages such as sintering and induration
PRODUCTION	The use of Advanced Blast Furnace technologies, DRI-Electric Arc Furnace processes, or alternative steelmaking technologies
RECYCLING	Enabling increased use of scrap metal feedstock in high quality flat steel production
POST-PROCESSING	The use of carbon-capture utilisation or sequestration solutions to meet the scale of blast furnace carbon emissions



Pathways to Decarbonising Steel

Anglo American Innovation Challenge





AngloAmerican





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DRIVE INNOVATION - OPEN INNOVATION CHALLENGES







DEVELOP SKILLS – EURMACADEMY

1.2M of new jobs needed along value chain of raw and advanced materials in Europe by 2030

Net-zero Industry Act and Critical Raw Materials Act confirm urgency for a "European Raw Materials Academy"

ACADEMY TO TRAIN MORE THAN 500K PROFESSIONALS BY 2030

Consensus on tangible education concept between EC and EIT RawMaterials addressing a demand-driven qualification mix in close collaboration with our partners







STEP UP INVESTMENTS – ERMA - CRMA







COMING CALL FOR NEW UPSCALING & RIS INNOVATION PROJECTS

INSTRUCTIONS

- Maxi 3 years project
- TRL > 6 at the start of the project & request for TRL > 8 at the end
- Market introduction no later than 2 years after the project ends
- Co-funding and ROI

CALL TIMELINE

- Launch: of KAVA 12 on November 16th
- Deadline for Draft submission: January 31th, 2024
- Deadline for Final proposal submission: May 29th, 2024
- Selection Committee: end of June 2024
- Start of new projects : October 2024

All information, Call text and guidance at: https://eitrawmaterials.eu/call-for-projects/







RAW MATERIALS SUMMIT

EUROPE'S LEADING RAW MATERIALS EVENT

14-16 MAY 2024 · THE EGG · BRUSSELS

SAVE THE DATE!

This event is organised by EIT RawMaterials GmbH in the name and on behalf of EIT RawMaterials e.V.





Co-funded by the European Union RAW MATERIALS ALLIANCE

eitrmsummit.com





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