



RAW MATERIALS FOR THE SUSTAINABLE DEVELOPMENT AND THE CIRCULAR ECONOMY

Final Seminar of R&I projects of EU co-funded Call 2021

8-9th of April 2025, Huelva

Escuela Técnica Superior de Ingeniería de la Universidad de Huelva

Campus El Carmen, 21007 Huelva

Day 1: 8th April

8:45	Welcome audience University of Huelva Spanish Research Agency, AEI	<i>María Antonia Peña Guerrero</i> <i>Estrella Fernández</i>
08:55	Opening by ERA-MIN Introduction	<i>Dina Carrilho</i> (ERA-MIN 3 coordinator)
09:00	Project presentations: “Exploration”: FUTURE - Fiber-optic sensing and uav-platform techniques for innovative mineral exploration PEGMAT - Evolved magmatic and pegmatitic systems as sources of critical raw materials and industrial minerals SEEMS DEEP - Seismic and electromagnetic methods for deep mineral exploration	Project coordinator/speaker: FUTURE: Musa Manzi PEGMAT: Jan Cempírek SEEMS DEEP: Uula Autio
09:15	Q&A	<i>(Rafael JAIMES CONTRERAS)</i>
09:25	Project presentations: “Mining”: AI-COSTSQO - Artificial Intelligence and Combined Survey Techniques for Stone Quarries Optimization RecMine - Environmental footprint reduction through eco-friendly technologies of mine tailings recycling TailingR32Green - Mine tailings Reprocessing, Revalorization and Risk reduction connecting innovations in metal recovery, geopolymerization, ceramics & sealing layers	Project coordinator/speaker: AI-COSTSQO: Alparslan Turanboy RECMINE: Joao NunesPereira TailingR32Green: Manuel Caraballo
09:40	Q&A	<i>(Rafael JAIMES CONTRERAS)</i>



ERAMIN 3

RAW MATERIALS FOR THE SUSTAINABLE DEVELOPMENT AND THE CIRCULAR ECONOMY

9:50	Project presentations: “Processing of ores and waste streams”: POTASSIAL - Zero-waste valorisation of feldspathic ores: Green application and sustainable sourcing of strategic raw materials INN4MIN - Development of innovative and sustainable approaches applied to the recovery of gold and critical elements from ores and spent printed circuit boards PHOSTER - Phosphorus and magnesium recovery from waste streams for production of highvalue renewable fertilizers	Project coordinator/speaker: POTASSIAL: (video) Murat Erdemoğlu INN4MIN: PHOSTER: Andrea Turolla
10:05	Discussion + Q&A	<i>(Rafael JAIMES CONTRERAS)</i>
10:15	Project presentations: “Closing loops in industrial processes”: PHIGO - Thermal Processing of P-rich ashes aiming for HIGH-GRADE PHOSPHORUS Products ABtomat - Utilization of aluminium bearing raw materials for the production of aluminium metal, other metals and compounds PG2CRM - Phosphogypsum Processing to Critical Raw Materials CO2TREAT - Accelerated CO2 Treatment of alkaline residues for low carbon binders	Project coordinator/speaker: PHIGO: Guozhu YE ABtomat: Monika Vitvarova PG2CRM: Hajar Bellefqih CO2TREAT: (video) Liesbeth Horckmans
10:35	Discussion + Q&A	<i>(Rafael JAIMES CONTRERAS)</i>
10:45	<i>Coffee break</i>	
11:15	Project presentations: “Closing loops for end-of-life products”: Recycl3D - Recycled aggregates for 3D printed concrete structures Rendering3D - Recycling End of Life permanent magnets by innovative sintering and 3D printing MW4REMAM - Microwave enhanced recovery of rees and plastic from WEEE and re-use in Additive Manufacturing of novel magnetic components	Project coordinator/speaker: Recycl3D: Marco Pepe Rendering3D: (video) Davide Peddis MW4REMAM: Olivier jay
11:30	Discussion + Q&A	<i>(Rafael JAIMES CONTRERAS)</i>



ERAMIN 3

RAW MATERIALS FOR THE SUSTAINABLE DEVELOPMENT AND THE CIRCULAR ECONOMY

11:40	Project presentations: “Closing loops for batteries”: ACROBAT - Advanced crms Recycling from spent LFP Batteries RecyLIB - Direct Recycling of Lithium-Ion Batteries 2BoSS - Toward sustainable batteries based on silicon, sulfur and bio-mass derived carbon	Project coordinator/speaker: ACROBAT: (video) Jeroen Spooren RecyLIB: Michael Hofmann 2BoSS: Andreu Cabot
11:25	Discussion + Q&A	<i>(Rafael JAIMES CONTRERAS)</i>
12:05	Project presentations: “Enabling circular economy”: CIDER - Circular product design for automotive components made from recycled and sustainable composite material RecycleBIM - Integrated Planning and Recording Circularity of Construction Materials through Digital Modelling SCANDERE - Scaling up a circular economy business model by new design, leaner remanufacturing, and automated material recycling technologies	Project coordinators/speaker: CIDER: Carlos Muñoz Luque RecycleBIM: Miguel Azenha SCANDERE: Tomohiko Sakao
12:20	Discussion + Q&A	<i>(Rafael JAIMES CONTRERAS)</i>
12:30	End of Seminar Closing remarks	<i>Rafael Jaimes Contreras</i>
13:00	Lunch break	

14:30	Trip to Rio Tinto Mines	
15:30	Visit to Rio Tinto Mines	
18:30	Coming back to Huelva	



ERAMIN3

RAW MATERIALS FOR THE SUSTAINABLE DEVELOPMENT AND THE CIRCULAR ECONOMY

Day 2: 9th April Partnership session

9:00-10:30(tbc)	A new partnership for Raw Material Presentation by ERAMIN3 Open discussion Coordinator feedback (all)	Coordinators + ERAMIN representative
10:30	<i>Coffee break</i>	
11:00-13:00	RM Partnership discussion/writing	RM partnership candidates
13:00	Lunch	

14:00-18:00	RM Partnership discussion/writing End of the session	RM partnership candidates