

ERA•MIN 3

RAW MATERIALS FOR THE SUSTAINABLE DEVELOPMENT
AND THE CIRCULAR ECONOMY

**Mid-Term Seminar of R&I projects
of EU co-funded Call 2021**

14th of November 2023, Brussels

**Research Foundation – Flanders (FWO), Leuvenseweg 38 (Rue de Louvain 38), 1000
Brussels**

08:30	Opening by ERA-MIN Welcome audience and introduction	<i>Dina Carrilho (ERA-MIN coordinator)</i> <i>Moderator (Dr. Rafael Jaimes Contreras)</i>
08:45	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	<i>Project coordinators/speakers</i>
09:00	Discussion + Q&A	<i>Moderator</i>
09:10	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	<i>Project coordinators/speakers</i>



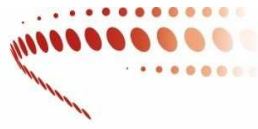


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09:25	Discussion + Q&A	<i>Moderator</i>
9:35	Project presentations: “Processing of ores and waste streams”: POTASSIAL - Zero-waste valorisation of feldspathic ores: Green application and sustainable sourcing of strategic raw materials INN4MIN - Development 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	<i>Project coordinators/speakers</i>
09:50	Discussion + Q&A	<i>Moderator</i>
10:00	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	<i>Project coordinators/speakers</i>
10:20	Discussion + Q&A	<i>Moderator</i>
10:30	<i>Coffee break</i>	
11:00	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	<i>Project coordinators/speakers</i>





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	MW4REMAM - Microwave enhanced recovery of rees and plastic from WEEE and re-use in Additive Manufacturing of novel magnetic components	
11:15	Discussion + Q&A	<i>Moderator</i>
11:25	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	<i>Project coordinators/speakers</i>
11:40	Discussion + Q&A	<i>Moderator</i>
11:50	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	<i>Project coordinators/speakers</i>
12:05	Discussion + Q&A	<i>Moderator</i>
12:15	Closing remarks	<i>Dina Carrilho (ERA-MIN coordinator) Moderator (Dr. Rafael Jaimes Contreras)</i>
12:30	End of Seminar	





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