2017 ERA-MIN Joint Call on Raw Materials for Sustainable Development and the Circular Economy

Main call topic	Sub-topic areas	Project acronym/ abstract	Project title	Coordinator (partner 1) and consortium partners	Participanting countries - Funding organisations	Duration	Total Costs	Total Requested Funding
1.Supply of raw materials from exploration and mining	1.1: Exploration	**AMTEG** ERA-MIN 2 Projects's abstracts	Advanced Magnetic full TEnsor Gradiometer instrument	1. Supracon AG	Germany - BMBF/PtJ	36 months (2018 -2021)	1 366 733 €	952 149 €
				2. Nordika Geophysics	Sweden - Vinnova			
				3. Leibniz Institute of Photonic Technology	Germany - BMBF/PtJ			
				4. Ingenieur-Gesellschaft für Interfaces mbH	Germany - BMBF/PtJ			
				5. Geognosia S.L.	Spain - CDTI			
				6. Nordic Iron Ore AB	Sweden - Vinnova			
	1.1: Exploration	**Gold_Insight** ERA-MIN 2 Projects's abstracts	Tracing Gold-Copper-Zinc with advanced microanalysis	1. Trinity College Dublin	Ireland - GSI	24 months (2018-2020)	727 550 €	484 550 €
				2. Luleå University of Technology	Sweden - Vinnova			
				3. Swedish Museum of Natural History	Sweden - Vinnova			
	1.1: Exploration	**LIGHTS** ERA-MIN 2 Projects's abstracts	Lightweight Integrated Ground and Airborne Hyperspectral Topological Solution	1. Université de Lorraine	France - ANR	36 months (2018 -2021)	1 547 140 €	1 189 919 €
				2. Faculty of Sciences - University of Porto	Portugal - FCT			
				3. Laboratoire de Géologie de Lyon - Université Lyon 1	France - ANR			
				4. Helmholtz-Zentrum Potsdam - Deutsches GeoForschungsZentrum	Germany - BMBF/PtJ			
				5. Beak Consultants GmbH	Germany - BMBF/PtJ			
	1.2: Mining operations	**REWO-SORT** ERA-MIN 2 Projects's abstracts	Reduction of Energy and Water consumption of mining Operations by fusion of sorting technologies LIBS and ME-XRT	1. Fraunhofer Gesellschaft	Germany - BMBF/PtJ	36 months (2018 -2021)	714 840 €	608 340 €
				2. University of Chile	Chile - CONICYT			
				3. Luleå University of Technology	Sweden - Vinnova			
				4. SECOPTA analytics GmbH	Germany - BMBF/PtJ			

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2.Design	2.1: Product design for increased raw material efficiency 2.4: Product design for critical materials substitution	**MONAMIX** ERA-MIN 2 Projects's abstracts	New concepts for efficient extraction of mixed rare earths oxides from monazite concentrates and their potential use as dopant in high temperature coatings and sintered materials	1. National R&D Institute for Nonferrous and Rare Metals	Romania - UEFISCDI	36 months (2018 -2021)	562 750 €	517 750 €
				2. ENEA, Italian National Agency for New Technologies, Energy and Sustainable Economic Development	Italy - MIUR			
				3. SC MGM Star Construct SRL	Romania - UEFISCDI			
				4. Institut de Chimie de la Matière Condensée de Bordeaux CNRS	France - ANR			
3.Processing, Production and Remanufacturing	2.4: Product design for critical materials substitution; 3.2: Increase resource efficiency through recycling of residues or remanufacturing	**Deasphor** ERA-MIN 2 Projects's abstracts	Design of a product for SUBSTITUTION of phosphate rocks	1. Faculty of Sciences of Porto University	Portugal - FCT	36 months (2018 -2021)	1 533 318 €	1 370 998€
				2. Universidade Federal de Sergipe	Brazil - FINEP			
				3. Università degli Studi di Brescia	Italy - MIUR			
				4. Central Mining Institute (Glowny Instytut Gornictwa)	Poland - NCBR			
				5. University Politehnica of Bucharest	Romania - UEFISCDI			
				6. Swerea MEFOS	Sweden - Vinnova			
				7. Ege University	Turkey - TUBITAK			
				8. UMR GeoRessources	France - ADEME			
				9. Campoaves - Aves do Campo, SA	Portugal - *own funding*			
				10. P.U.P.H „PROGEO" Sp. z o.o.	Poland - NCBR			
	3.1: Increase resource efficiency in resource intensive production processes	**Li+WATER** ERA-MIN 2 Projects's abstracts	Membrane electrolysis for resource-efficient lithium and water recovery from brines	1. Universidad Nacional de Jujuy	Argentina - MINCyT	24 months (2018-2020)	429 468 €	329 850 €
				2. Universiteit Gent	Belgium/Flanders - FWO			
				3. IVL Swedish Environmental Research Institute	Sweden - Vinnova			

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3.Processing, Production and Remanufacturing	3.2: Increase resource efficiency through recycling of residues or remanufacturing	**FLOW** ERA-MIN 2 Projects's abstracts	Lightweight alkali activated composite foams based on secondary raw materials	1. Slovenian National Building and Civil Engineering Institute	Slovenia - MIZS	36 months (2018 -2021)	761 242 €	550 117 €
				2. University of Oulu	Finland - Business Finland			
				3. University of Modena and Reggio Emilia	Italy - MIUR			
	3.1: Increase resource efficiency in resource intensive production processes; 3.2: Increase resource efficiency through recycling of residues or remanufacturing	**MINTECO** ERA-MIN 2 Projects's abstracts	Integrated eco-technology for a selective recovery of base and precious metals in Cu and Pb mining by-products	1. BRGM	France - ANR	36 months (2018 -2021)	973 834 €	639 700 €
				2. National R&D Institute for Nonferrous and Rare Metals -IMNR	Romania - UEFISCDI			
				3. National Institute for Research and Development in Optoelectronics INOE 2000	Romania - UEFISCDI			
				4. Eskisehir Osmangazi University (ESOGU)	Turkey - TUBITAK			
				5. Romaltyn Mining SRL	Romania - *own funding*			
				6. Mineral and Energy Economy Research Institute of The Polish Academy of Sciences	Poland - NCBR			
				7. TGM – Team Group Metals Sp. z o.o.	Poland - NCBR			
				8. AJELIS	France - ANR			

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3. Processing, Production and Remanufacturing	2.1: Product design for increased raw material efficiency,2.2: Product design for reuse or extended durability of products,2.3: Product design to promote recycling ,3.2: Increase resource efficiency through recycling of residues or remanufacturing,3.3: Increase resource efficiency using information and communication technologies (ICT),4.1: End-of-life products collection and logistics ,4.2: End-of-life products pre-processing: pre-treatment, dismantling, sorting, characterisation,4.3: Recovery of raw materials from End-of-life products,4.4: Increase recycling of End-of-Life products through information and communication technologies (ICT),5.1: New business models,5.2: Improvement of methods or data for environmental impact assessment	**MaXycle** ERA-MIN 2 Projects's abstracts	A novel circular economy for sustainable RE-based magnets	1. Jozef Stefan Institute	Slovenia - MIZS	36 months (2018 – 2021)	1 056 380 €	965 970 €
				2. Magneti Ljubljana, d.d.	Slovenia - MIZS			
				3. OBE Ohnmacht & Baumgärtner GmbH & Co. KG	Germany - BMBF/PtJ			
				4. Pforzheim University of Applied Sciences	Germany - BMBF/PtJ			
				5. IVL Swedish Environmental Research Institute	Sweden - Vinnova			
	3.1: Increase resource efficiency in resource intensive production processes,3.2: Increase resource efficiency through recycling of residues or remanufacturing,5.2: Improvement of methods or data for environmental impact assessment	**BASH-TREAT** ERA-MIN 2 Projects's abstracts	Optimization of bottom ash treatment for an improved recovery of valuable fractions	1. Hamburg University of Technology	Germany - BMBF/PtJ	36 months (2018 -2021)	506 600 €	451 600 €
				2. Politecnico di Torino	Italy - MIUR			
				3. Heidemann Recycling GmbH	Germany - *own funding*			
				4. BAM - Bundesanstalt für Materialforschung und -prüfung	Germany - BMBF/PtJ			
				5. Sysav	Sweden - *own funding*			

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3. Processing, Production and Remanufacturing	3.2: Increase resource efficiency through recycling of residues or remanufacturing,4.3: Recovery of raw materials from End-of-life products	**MetRecycle** ERA-MIN 2 Projects's abstracts	Recycling of metals using functionalized magnetic nanoparticles (FMNP)	1. Institute for Environmental Protection and Sensors (IOS) Ltd	Slovenia - MIZS	36 months (2018 -2021)	784 700 €	651 000 €
				2. Sveriges Lantbruksuniversitet	Sweden - Vinnova			
				3. Instituto de Nanosistemas-UNSAM	Argentina - MINCyT			
				4. CNRS	France - ADEME			
				5. SiKEMIA	France - ADEME			
4. Recycling of End-of-Life products	3.1: Increase resource efficiency in resource intensive production processes,3.2: Increase resource efficiency through recycling of residues or remanufacturing,4.3: Recovery of raw materials from End-of-life products,5.1: New business models,5.2: Improvement of methods or data for environmental impact assessment ,5.3: Social acceptance and trust/public perception of raw materials	**BIOMIMIC** ERA-MIN 2 Projects's abstracts	Innovative biotechnological methods for effective mining of secondary material	1. Research Institutes of Sweden	Sweden - Vinnova	29 months (2018-2020)	1 078 708 €	854 978 €
				2. Fraunhofer Institute for Systems and Innovation Research	Germany - BMBF/PtJ			
				3. Flocazur AB	Sweden - Vinnova			
				4. Nordic BioEngineering AB	Sweden - Vinnova			
				5. Purac AB	Sweden – *own funding*			
				6. Aughinish Alumina Ltd	Ireland – *own funding*			
				7. Luleu University of Technology	Sweden - Vinnova			
				8. Fortum Waste Solutions	Sweden - *own funding*			
				9. G.E.O.S. Ingenieurgesellschft mbH	Germany - BMBF/PtJ			
				10. University of Limerick	Ireland - GSI			
				11. Geonardo Environmental Technologies	Hungary – *own funding*			

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4. Recycling of End-of-Life products	4.2: End-of-life products pre-processing: pre-treatment, dismantling, sorting, characterisation,4.3: Recovery of raw materials from End-of-life products,4.4: Increase recycling of End-of-Life products through information and communication technologies (ICT)	**INSTAnT** ERA-MIN 2 Projects's abstracts	Innovative sensor technology for optimized material recovery from bottom ash treatment	1. Vlaamse Instelling voor Technologisch Onderzoek	Belgium/Flanders - Hermesfond	36 months (2018 -2021)	1 137 781 €	871 317€
				2. RWTH Aachen University	Germany - BMBF/PtJ			
				3. SUEZ Treatment and Recycling NV	Belgium/Flanders - Hermesfond			
				4. Tomra Sorting GmbH	Germany - BMBF/PtJ			
				5. XRE NV	Belgium/Flanders - Hermesfond			
	4.3: Recovery of raw materials from End-of-life products,5.1: New business models	**RecEOL** ERA-MIN 2 Projects's abstracts	Recycling of End-of-Life Products (PCB, ASR, LCD)	1. University College Cork (UCC)/ Environmental Research Institute (ERI)	Ireland - GSI	36 months (2018 -2021)	1 299 163 €	902 943 €
				2. Composite Recycling Ltd (CRL)	Ireland - GSI			
				3. Coolrec BV (COR)	Belgium/Flanders - Hermesfond			
				4. Technische Universität Bergakademie Freiberg (TUF)	Germany - BMBF/PtJ			
				5. Alumisel (ALU)	Spain - CDTI			
				6. Muldenhütten Recycling und Umwelttechnik GmbH (MRU)	Germany - BMBF/PtJ			

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4. Recycling of End-of-Life products	4.3: Recovery of raw materials from End-of-life products	**SUPERMET** ERA-MIN 2 Projects's abstracts	Recovery of Precious Metals from Spent Catalysts by Supercritical CO2 Extraction Assisted by Polymers	1. Ecole Nationale Supérieure de Chimie de Montpellier (ENSCM)	France - ANR	36 months (2018 -2021)	1 494 453 €	1 008 806 €
				2. National Institute of Research and Development for Optoelectronics	Romania - UEFISCDI			
				3. Association: Innovation Fluides Supercritiques (IFS)	France - ADEME			
				4. Heraeus Deutschland GmbH & Co. KG	Germany - BMBF/PtJ			
				5. Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.	Germany - BMBF/PtJ			