

## RAW MATERIALS FOR THE SUSTAINABLE DEVELOPMENT AND THE CIRCULAR ECONOMY

## EU co-funded ERA-MIN Joint Call 2021

7<sup>th</sup> PROMETIA Scientific Seminar

10<sup>th</sup> December 2020

Dina Carrilho, PhD ERA-MIN3 Project coordinator FCT - Foundation for Science and Technology (Portugal)

## ERA-MIN 2 and ERA-MIN3 Outlook



Evolution of ERA-MIN network
ERA-MIN objectives

Scope of joint transnational calls

Results of ERA-MIN2 joint calls

### ERA-MIN3 consortium

\*EU co-funded call 2021 (countries, topics,

eligibility criteria and call calendar)







### Horizon 2020 funding to Raw materials related projects: € 584 Million



ERA-MIN3 - €5 Million (1<sup>st</sup> Dec. 2020 – 30<sup>th</sup> Nov. 2025) ERA-MIN 2 - €5 Million (1<sup>st</sup> Dec. 2016 – 30<sup>th</sup> Nov. 2022)







### Evolution of the ERA-MIN consortium since 2011



Pan-European innovative and flexible network of public research and innovation funding organisations

1. Secure the sustainable and responsible supply of non-food, non-fuel mineral raw materials for a carbon-neutral and a circular economy

2. Promote **world-wide** research and innovation (R&I) cooperation through **coordinated funding** 

**3. Reduce the fragmentation of R&I funding** across Europe and globally

4. Implement Joint Calls for transnational R&I projects on "Raw materials for the sustainable development and the circular economy"

5. Support **international R&I projects** between universities, research institutes, small, medium and large enterprises, NGOs, public authorities, etc



RA•MIN3

AND THE CIRCULAR ECONOMY



۲

.

.

Co-funded by the Horizon 2020 programme of the European Union



## **ERA-MIN** Joint Calls scope

Raw materials for the sustainable development and the circular economy

Primary resources Raw materials Extraction Processing ores, construction & Non-fuel non-food raw materials: econor Metallic, ..... Construction, ar ERA·MIN2 -listorical dumps RESEARCH & INNOVATION PROGRAMME ON RAW MATERIAL Industrial minerals. FOSTER CIRCULAR ECONOM Raw materials for batteries, and their recycling, are included in this framework



### Funded projects in ERA-MIN Joint Calls 2017 & 2018



TOPIC 1 Supply of raw materials from exploration and mining TOPIC 2 Design TOPIC 3 Processing, Production and Remanufacturing

TOPIC 4 Recycling and Re-use of End-of-Life products

TOPIC 5 Cross-cutting topics







### ERA-MIN Joint call 2017 – funded R&I projects

All topics and sub-topics are covered by the funded projects

**80%** academia-industry projects

4 to 11: # partners per project

**2 to 8:** *#* countries per project

€0.5 to €1.5 Million: funding per project

**24-36** months: Project duration



E R A • M I N 3 Raw Materials for the Sustainable Development and the Circular Economy

ERA-MIN & ERA-MIN 2 Joint Calls funded R&I projects

FP7 ERA-MIN Joint			H2020 ERA-MIN 2 Joint		
Calls			Calls		
2013	2014	2015	2017 (EU co- funded)	2018	2019

**57** R&I transnational projects (total)

30% enterprises (average)

€42 Million total public funding

€60 Million total project costs







#### Examples of collaborative international R&I projects Raw materials for the sustainable development and the circular economy

#### Li-deposit exploration

Gold mining in EU

new eco-innovative solutions for mining infrastructures

Substitution of phosphate rocks and natural graphite

*Recovery of base/precious metals in mining by-products* 

*Recycling of Critical Raw Materials (e.g.REE, V, phosphorus) from End-of-Life products (magnets, WEEE) and waste (slag, ash)* 

Recycling of construction materials

8 Battery related projects (€6 million) ERA-MIN Calls (2015, 2017, 2018, 2019)





### ERA-MIN Joint Calls results (https://www.era-min.eu/results)

**17 Summary final reports**Calls: 2013, 2014 and 2015

✓ 333 publications + 6 patents/licenses

✓ Ferrovan start-up

✓ 140 temporary + 19 permanent **jobs** 

## >40 Project's abstracts

3 Calls: 2017, 2018 and 2019

16 projects 2<sup>nd</sup> year progress report (Call 2017)

- ✓ 153 publications 35% open access;
- 1 granted patent; 7 submitted patents; 1 submitted license
- ✓ 290 researchers: 25 % young res.; 37% female



RAW MATERIALS FOR THE SUSTAINABLE DEVELOPMENT AND THE CIRCULAR ECONOMY

# **ERA-MIN3**

## **EU CO-FUNDED ERA-MIN JOINT CALL 2021**





## **ERA-MIN3 consortium (2020 – 2025)**







## EU co-funded ERA-MIN Joint Call 2021 21 Participating countries/regions (24 Funding Organisations)

- Belgium-Flanders (FWO and Hermesfond/VLAIO)
- Belgium-Wallonia (SPW-Recherche)
- Bulgaria (BNSF)
- Czech Republic (TA CR)
- Estonia (ETAg)
- Finland (Business Finland)
- France (ADEME and ANR)
- Germany (BMBF/JÜLICH)
- Ireland (GSI)
- Italy (MUR)
- Poland (NCBR)
- Portugal (FCT)

- Romania (UEFISCDI)
- Slovakia (SAS)
- Slovenia (MIZS)
- Spain (AEI and CDTI)
- Spain Navarra (CFNA)
- Sweden (Vinnova)

#### EU Associated country:

• Turkey (TUBITAK)

#### Non-EU countries:

- Canada-Québec (PRIMA-Québec);
- South-Africa (DSI).

#### ~ €19 million

Total call budget (sum of national/regional budgets)







### **5 Main Research Topics and sub-topics**







## EU co-funded ERA-MIN Joint Call 2021

Joint collaborative R&I projects subject to national/regional funding rules

- Selection of projects for funding through a ranking list from an international scientific assessment of proposals based on the <u>H2020 evaluation criteria</u>:
  - 1) Excellence
  - 2) Impact
  - 3) Implementation

#### **Eligible legal entities**: Universities Research institutes SMEs, large industry NGOs public authorities

#### **Types of eligible research (TRL from 1 to 9):**

- Fundamental
- Applied research
- Innovation

#### Variable funding rates:

- ~100 % for not-for- profit organisations
- < 70% for profit organisations

## Some Eligibility Criteria

## ERA-MIN Joint Call 2021

Minimum consortium composition: **3 partners** requesting funding of **3 countries** whereof **2** are **EU Member State or an Associated Country (Turkey)** named in this Call

<u>Applicants requesting funding must comply with the</u> national/regional funding criteria and regulations of their respective Funding Organisation

<u>Applicants not requesting funding</u> must provide evidence of the availability of their own funds to cover their project costs.

At least half of the partners in a consortium must belong to countries participating in the Call.

Project duration: 12 - 36 months (subject to national/regional rules)



.......

E R A • M I N 3 Raw Material S for the Suistainari e Devel opmen

AND THE CIRCULAR ECONOMY



## EU co-funded ERA-MIN Joint Call 2021

### **Online partner search tools**

### **ERA-MIN Partner Search**

- Post a Partner Offer/Request
- Search List of Partner Offers/Requests posted by others

#### The European Commission Partner search services:

*https://ec.europa.eu/info/fundingtenders/opportunities/portal/screen/how-to-participate/partner-search* 

The **Enterprise Europe Network** is active in more than 60 countries worldwide: *https://een.ec.europa.eu/* 

### **ERA-MIN Joint Call LinkedIn Group**

https://www.linkedin.com/in/era-min





## EU co-funded ERA-MIN Joint Call 2021 Important dates

September 2020	1st Call pre-announcement
November 2020	2nd Call pre-announcement
January 15, 2021	Call opens
April 1, 2021	Deadline for Pre-Proposal submission
June 15, 2021	Communication of pre-proposal assessment
September 15, 2021	Deadline for Full-Proposal submission
December 13, 2021	Communication of full-proposal assessment
May 1, 2022	Latest starting date of selected projects

### **Further information**

- Joint Call Secretariat (eramin@fct.pt)
- Updated information:

https://www.era-min.eu/joint-call/era-min-joint-call-2021

## Get involved

## Contact&Info

Subscribe

Newsletters



If you are a research performing organisation, submit an application to the Call for proposals;
 If you are an expert, apply as a reviewer.

If you are a research funding organisation, join the future Joint Call planned to 2023.



If you are a raw materials related project or initiative, liaison with ERA-MIN3 to promote synergies.





www-era-min.eu

### @eranetmin3



www.linkedin.com/in/era-min



......

ERA•MIN3

AND THE CIRCULAR ECONOMY



## RAW MATERIALS FOR THE SUSTAINABLE DEVELOPMENT AND THE CIRCULAR ECONOMY

Thank you very much!

Muito Obrigada!