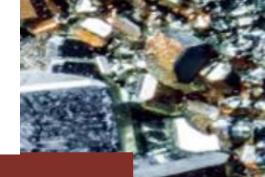


RESEARCH & INNOVATION PROGRAMME ON RAW MATERIALS TO FOSTER CIRCULAR ECONOMY



Implement a European-wide coordination of research and innovation programs on raw materials to strengthen the industry competitiveness and the shift to a circular economy (ERA-MIN 2)

> Dina Carrilho, ERA-MIN 2 project coordinator FCT- Foundation for Science and Technology (Portugal)



Match-making webinar: A holistic approach to circular manufacturing (CM): Exploring collaboration between European PPP initiatives and Portuguese stakeholders (Centro & Norte regions), 23<sup>th</sup> June 2020



# Horizon 2020 ERA-MIN 2 **€5** Million EU funding

#InvestEUresearch



€30 billion is still

Work Programme!

Forthcoming Horizon 2020 **ERA-MIN3** €5 Million EU funding



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

## CONSORTIUM

### Pan-European network of 21 public research and innovation funding organisations from:

# 11

### **EU Member States countries**

inland	Italy	Slovenia
rance	Poland	Spain
Germany	Portugal	Sweden
reland	Romania	

4 non-EU countries

Brazil

#### Argentina Chile

### South Africa

# 2

EU Member States regions

Belgium - Flanders Spain - Castille y Léon

**EU Associated Country** 

Turkey



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1. Secure the sustainable and responsible industrial supply of **nonenergy mineral raw materials** for a **carbon-neutral and a circular economy** 

2. Promote **world-wide** research and innovation (R&I) cooperation through **coordinated funding**  PAN-EUROPEAN, INNOVATIVE AND FLEXIBLE NETWORK OF PUBLIC RESEARCH AND INNOVATION FUNDING ORGANISATIONS

 through coordinated funding
 4. Implement 3 Joint Calls for transnational R&I projects on "Raw materials for the
 3. Reduce the fragmentation of R& *sustainable development and the circular* funding across Europe and globally

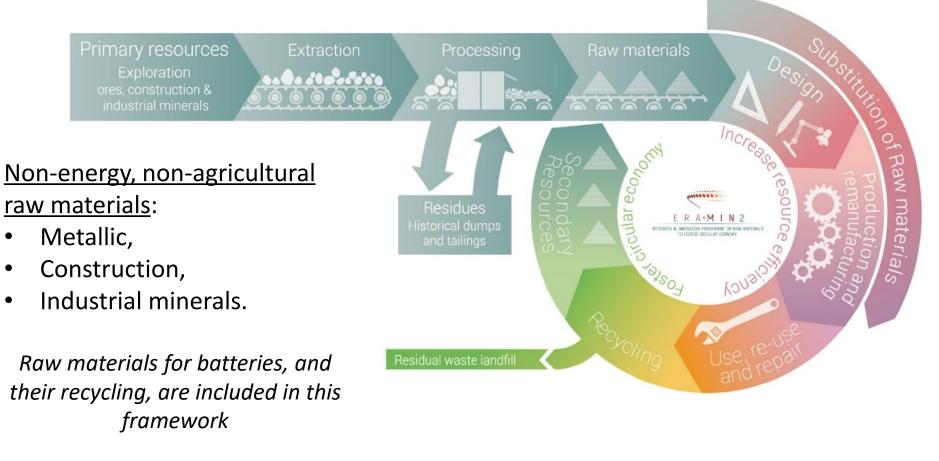
> 5. Support **international R&I projects** between universities, research institutes, small, medium and large enterprises, NGOs, public authorities, etc



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# **ERA-MIN Joint Calls scope**

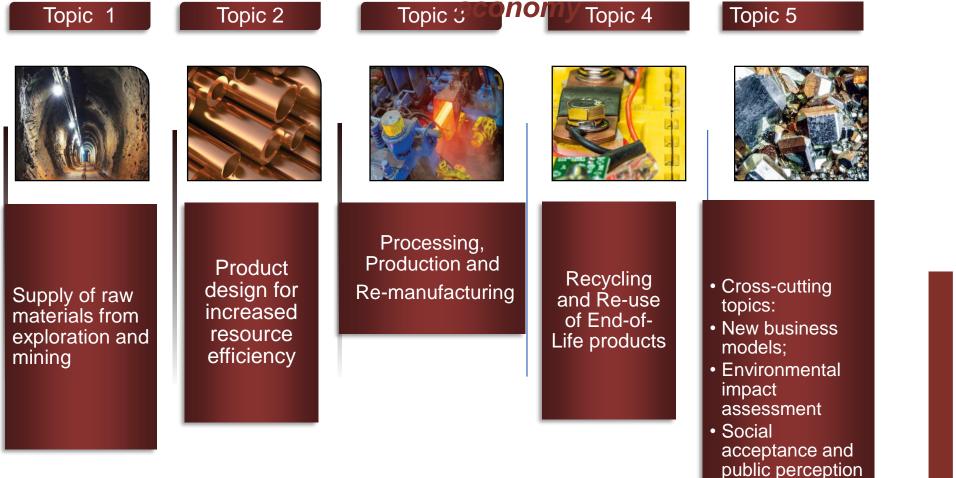
### Raw materials for the sustainable development and the circular economy





## **ERA-MIN Joint Call topics**

### Raw materials for the sustainable development and the circular

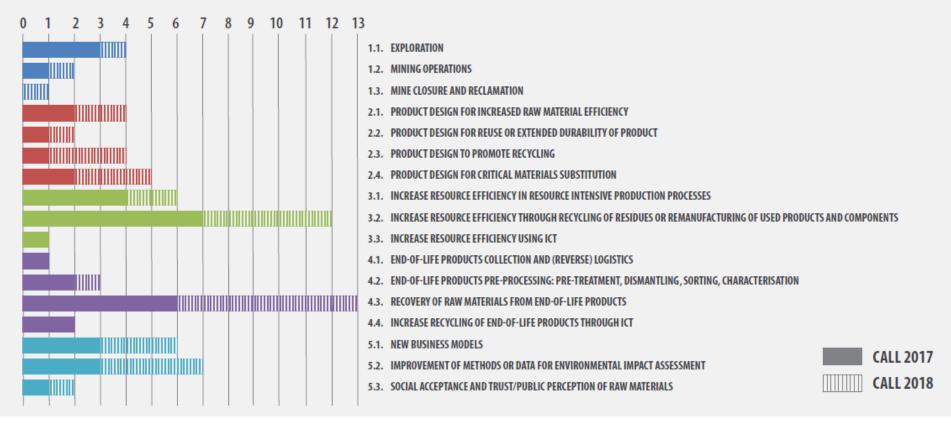






# ERA-MIN Joint Calls 2017 & 2018

### **FUNDED PROJECTS**



**TOPIC1** Supply of raw materials from exploration and mining

tion 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



## **R&I collaborative international projects**

Raw materials for the sustainable development and the circular economy

Li-deposit exploration

Gold mining in EU

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

Hydrometallurgy and biometallurgy

new eco-innovative solutions for mining infrastructures

Recovery of base/precious metals in mining by-products

**Recycling of construction materials** 

Substitution of phosphate rocks and natural graphite

6 Battery related projects (€4 million) ERA-MIN Joint Calls (2015, 2017, 2018)





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# ERA-MIN & ERA- MIN 2 Joint Calls



45 funded projects (total)

25% enterprises (average)

€34 Million total public funding

€48 Million total project costs





# **ERA-MIN Joint Transnational Calls**

- Joint proposal application & evaluation but national/regional funding
- National and regional thematic priorities apply
- National and regional funding rules and regulations apply:
  - Applicants from academia, industry, SMEs, NGOs, public authorities requesting funding must be eligible
- Type of research: fundamental, applied or experimental research (Technology Readiness Level TRL 1-9)
- Selection of projects for funding based on a ranking list from international scientific assessment of proposals
  H2020 evaluation criteria: 1) Excellence, 2) Impact and 3) Implementation.



### **ERA-MIN Joint Calls results**

(https://www.era-min.eu/results)

•16 Summary final reports ERA-MIN Joint Calls: 2013, 2014 and 2015 ✓ 333 publications + 6 patents/licenses
 ✓ Ferrovan start-up
 ✓ 140 temporary + 19 permanent jobs

•28 Project's abstracts ERA-MIN Joint Calls: 2017 and 2018







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### COORDINATION PORTUGAL

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### ERA-MIN 2

Implement a European-wide coordination of research and innovation programs on raw materials to strengthen the industry competitiveness and the shift to a circular economy



