

# ERA-MIN Joint Call 2023



## Spanish Infoday

9 February, 2023 – Spanish Webinar for the Call Promotion



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# Webinar

## Información e Instrucciones

- El Webinar tendrá una duración estimada de **aproximadamente 1 hora**
- Será impartido en **español** (salvo el cierre de la coordinadora del programa)
- Contará con la participación de las 4 **agencias financiadoras españolas** que participan en la convocatoria (AEI, Gobierno de Navarra, EJ/GV-Innobasque, IDEPA (Asturias))
- Contará con una **sección final** exclusivamente dedicada a **preguntas y respuestas**, aunque cuestiones breves pueden ser respondidas al final de cada sesión
- Por defecto los **micrófonos** de los asistentes están **silenciados y las cámaras apagadas**. Por favor, **levante la mano** para solicitar la activación del audio.
- Para realizar cualquier **pregunta** por favor utilice preferiblemente la sección **Preguntas**. Sus preguntas serán almacenadas y contestadas en riguroso orden de llegada. Alternativamente puede utilizar también el *Chat* o *Levantar la Mano*.



# Webinar

## Agenda

- |                      |  |
|----------------------|--|
| <b>10:00 - 10:05</b> | <b>Bienvenida e Introducción</b><br>Jorge Sotelo (AEI/FECYT)   |
| <b>10:05 - 10:20</b> | <b>Aspectos generales de la convocatoria 2023</b><br>Jorge Sotelo (AEI/FECYT)                                  |
| <b>10:20 - 10:30</b> | <b>Reglas y requerimientos específicos para candidatos de EJ-GV/Innobasque</b><br>Judith de Prado (Innobasque) |
| <b>10:30 - 10:40</b> | <b>Reglas y requerimientos específicos para candidatos de Navarra</b><br>Silvia Ojer (Navarra, CFNA)           |
| <b>10:50 - 10:50</b> | <b>Reglas y requerimientos específicos para candidatos de IDEPA</b><br>Ana Elena Fernandez (Navarra, CFNA)     |
| <b>10:50 - 11:00</b> | <b>Reglas y requerimientos específicos para candidatos de AEI</b><br>Severino Falcón (AEI)                     |
| <b>11:00 – 11:10</b> | <b>Clausura del evento y conclusiones finales</b><br>Dina Carrilho (FCT)                                       |
| <b>11:10 - 11:30</b> | <b>Q&amp;A</b>   |

# ERA-NET

## Complements EU Programmes, EIT RawMaterials and national/regional research funding programme:

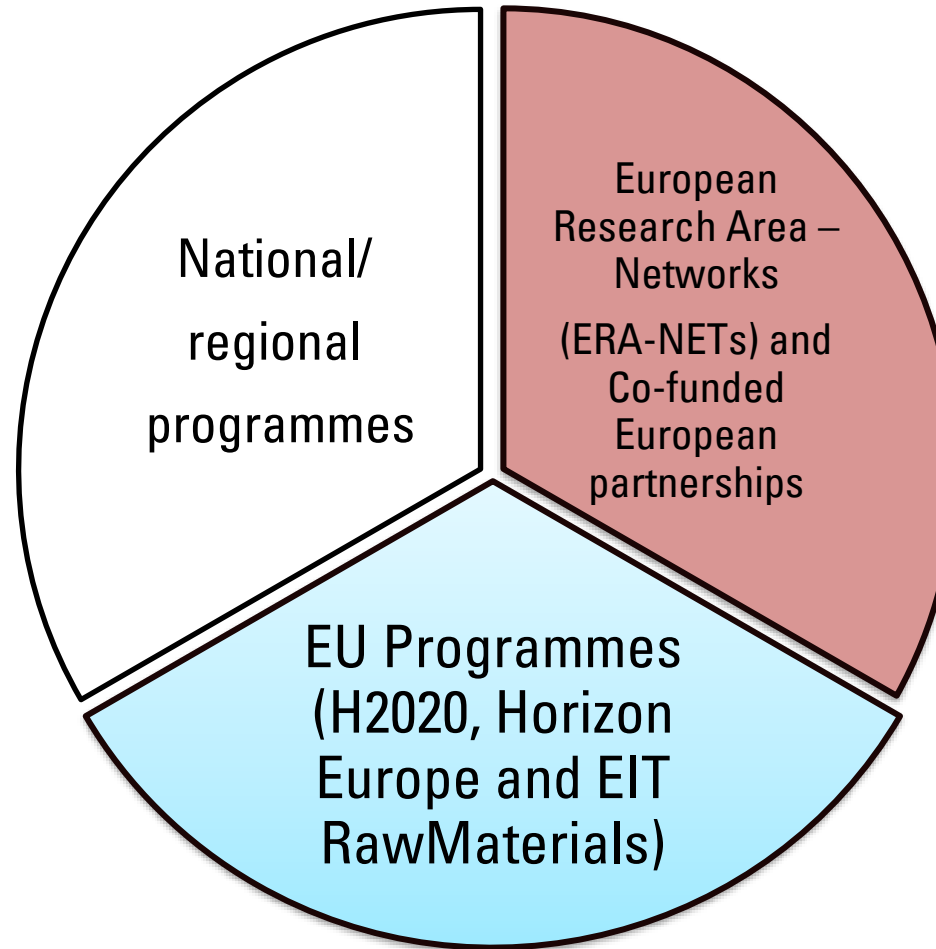


RAW MATERIALS FOR THE SUSTAINABLE DEVELOPMENT AND THE CIRCULAR ECONOMY

## Raw Materials

# Public-public partnership (P2P)

Learn more about partnerships at <https://www.era-learn.eu/>

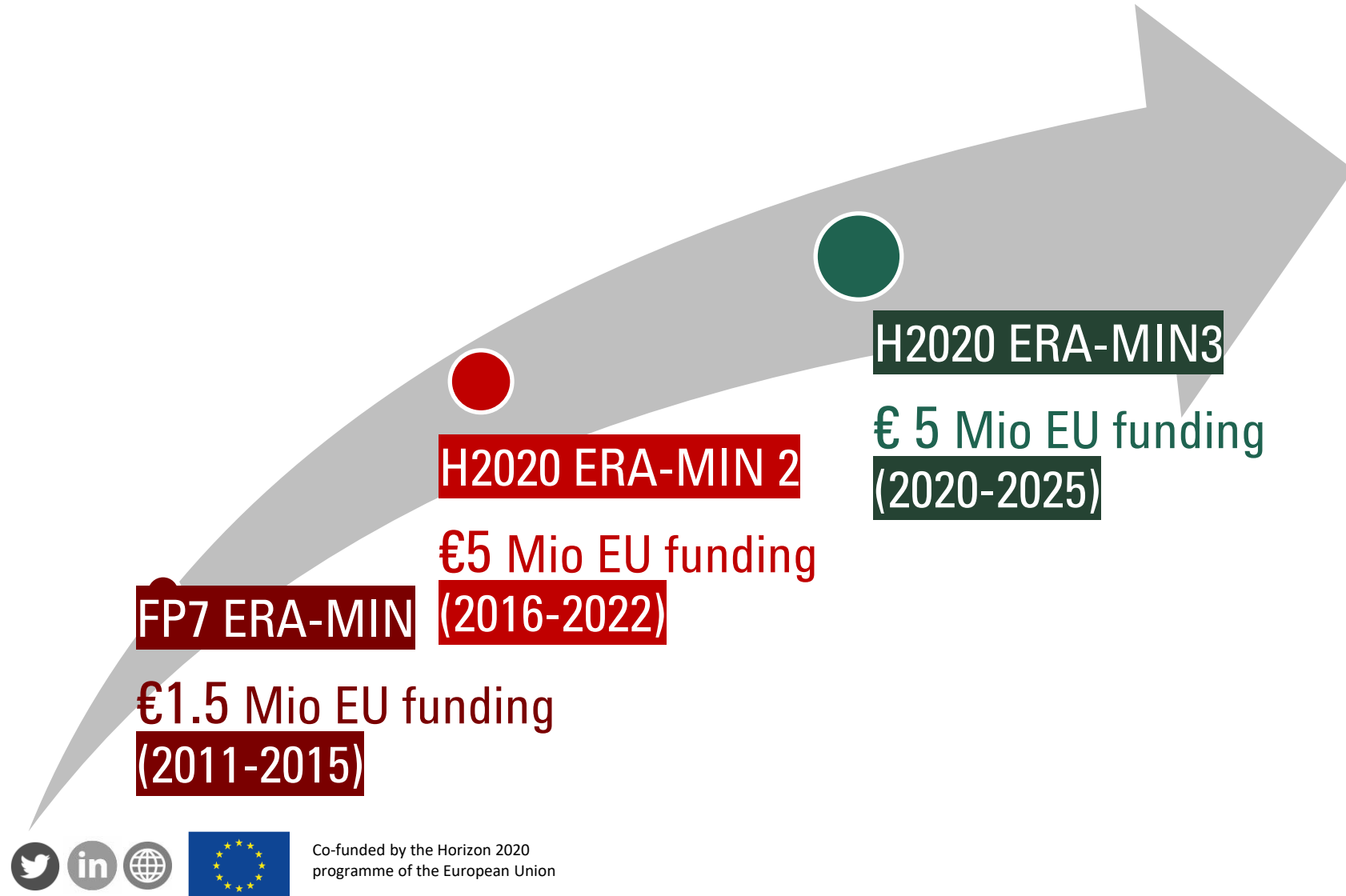


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ERA-MIN3  
Raw Materials for the Sustainable Development and the Circular Economy

since 2011

### 3 Pan-European Networks of Public Research Funding Organisations



✓ **8** Joint Calls for transnational R&I projects on **non-fuel, non-food industrial, construction and metallic minerals**



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# ERA-MIN

## Objetivos

PAN-EUROPEAN, INNOVATIVE AND FLEXIBLE NETWORK  
OF PUBLIC RESEARCH AND INNOVATION FUNDING ORGANISATIONS

### ERA-MIN3

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1. Asegurar el suministro sostenible y responsable de **materias primas minerales no-alimentarias y no-combustibles**, para una **economía circular y sin huella de carbono**.
2. Promocionar la **coperacion en I+D** en todo el mundo a traves de **financiacion coordinada**.
3. **Reducir la fragmentacion de la financiacion en I+D** en Europa y a nivel global.
4. Implementar **Convocatorias conjuntas para proyectos de I+D transnacionales en "Materias primas para el Desarrollo sostenible la economía circular"**.
5. Apoyar **proyectos de I+D internacional** entre univerisades, institutos de investigacion, pequeñas, medianas y grandes empresas, ONGs y organismos publicicos, etc.



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EU co-funded ERA-MIN Joint Call 2021  
Raw Materials for the Sustainable Development  
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# ERA-MIN3 Consortium pan-European network of 25 research funding organisations

**NEW:** Québec province/Canada, Bulgaria, Czech Republic, Estonia, Slovakia, Wallonia region and Navarra region

# 15

**EU Member States countries**

- Bulgaria
- Czech Republic
- Estonia
- Finland
- France
- Germany
- Ireland
- Italy
- Poland
- Portugal
- Romania
- Slovakia
- Slovenia
- Spain
- Sweden

# 3

**EU Member States regions**

- Belgium-Flanders
- Belgium-Wallonia
- Spain-Navarra

# 1

**EU Associated Country**

- Turkey

# 3

**non-EU countries**

- Brazil
- Canada-Québec
- South Africa



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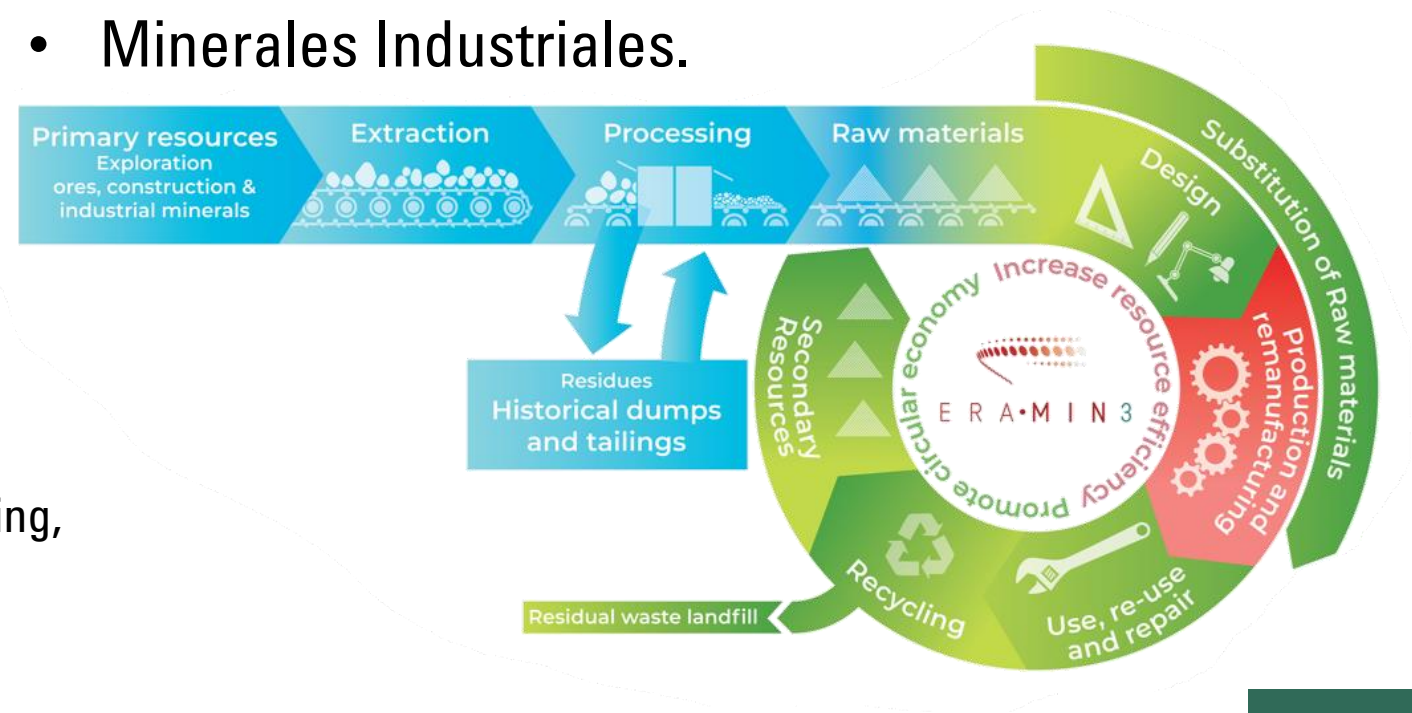


# ERA-MIN Joint Calls

## Alcance

### Materias primas no-combustibles y no-alimentarias

- Metálicas
- Construcción,
- Minerales Industriales.



Raw materials for batteries, and their recycling, are included in this framework





# ERA-MIN Joint Calls

## Previous calls & funded projects

### ERA-MIN Joint Calls

ERA-MIN Joint Calls			ERA-MIN 2 Joint Calls			ERA-MIN 3 Joint Calls	
2013	2014	2015	2017 (EU co-funded)	2018	2019	2021 (EU co-funded)	2023 (Open)
79 R&I transnational projects (total)							
30% enterprises (average)							
€61.5 Million total public funding							
€87 Million total project costs							



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

57 funded R&I projects (2013-2019)

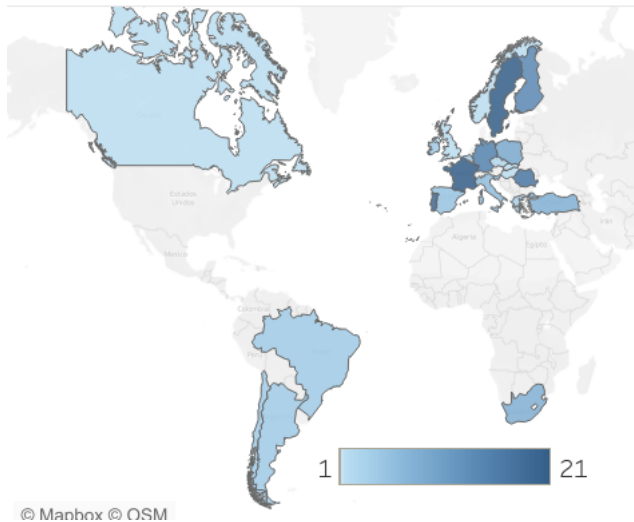


RAW MATERIALS FOR THE SUSTAINABLE DEVELOPMENT  
AND THE CIRCULAR ECONOMY

<https://www.era-min.eu/dashboard>

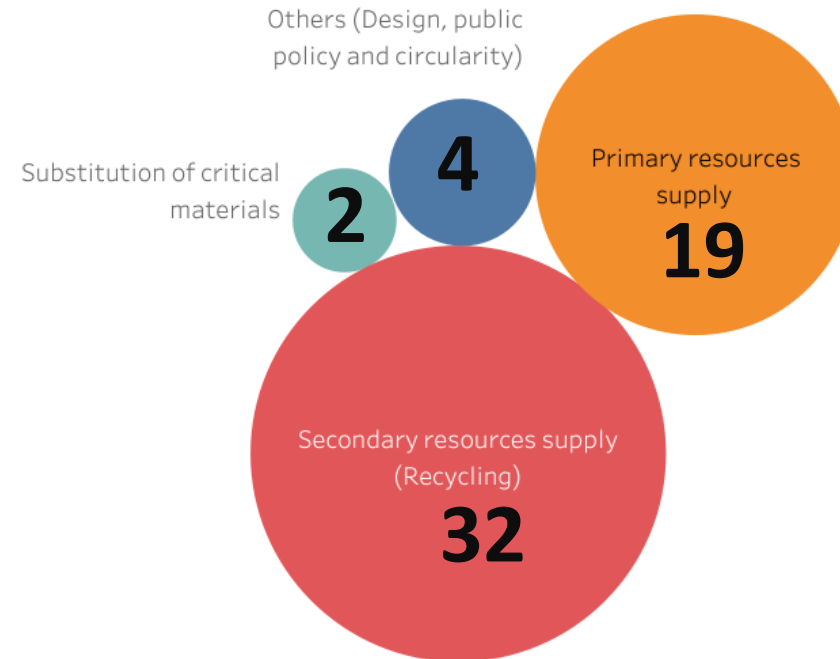
*(Will be updated with the  
22 R&I projects of Call 2021)*

Country participation. Number of  
projects by country

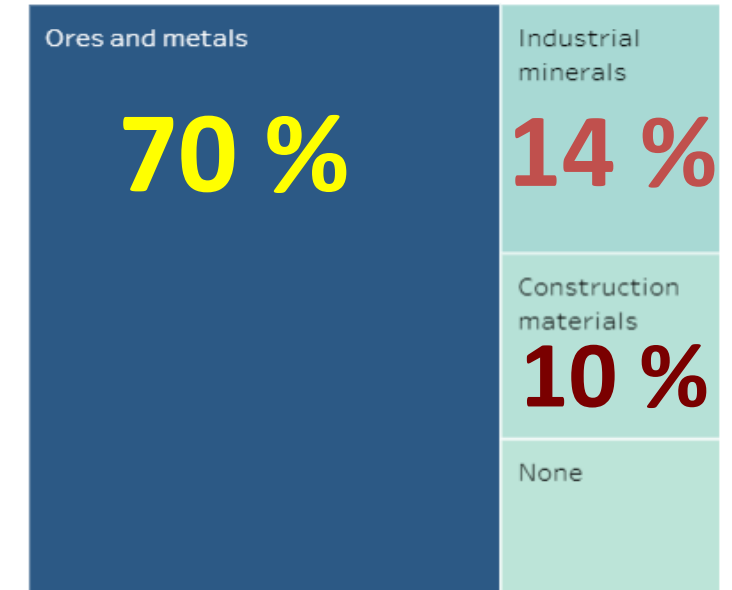


**27 Research Funding Organisations**

Number of projects by category



Mineral Category



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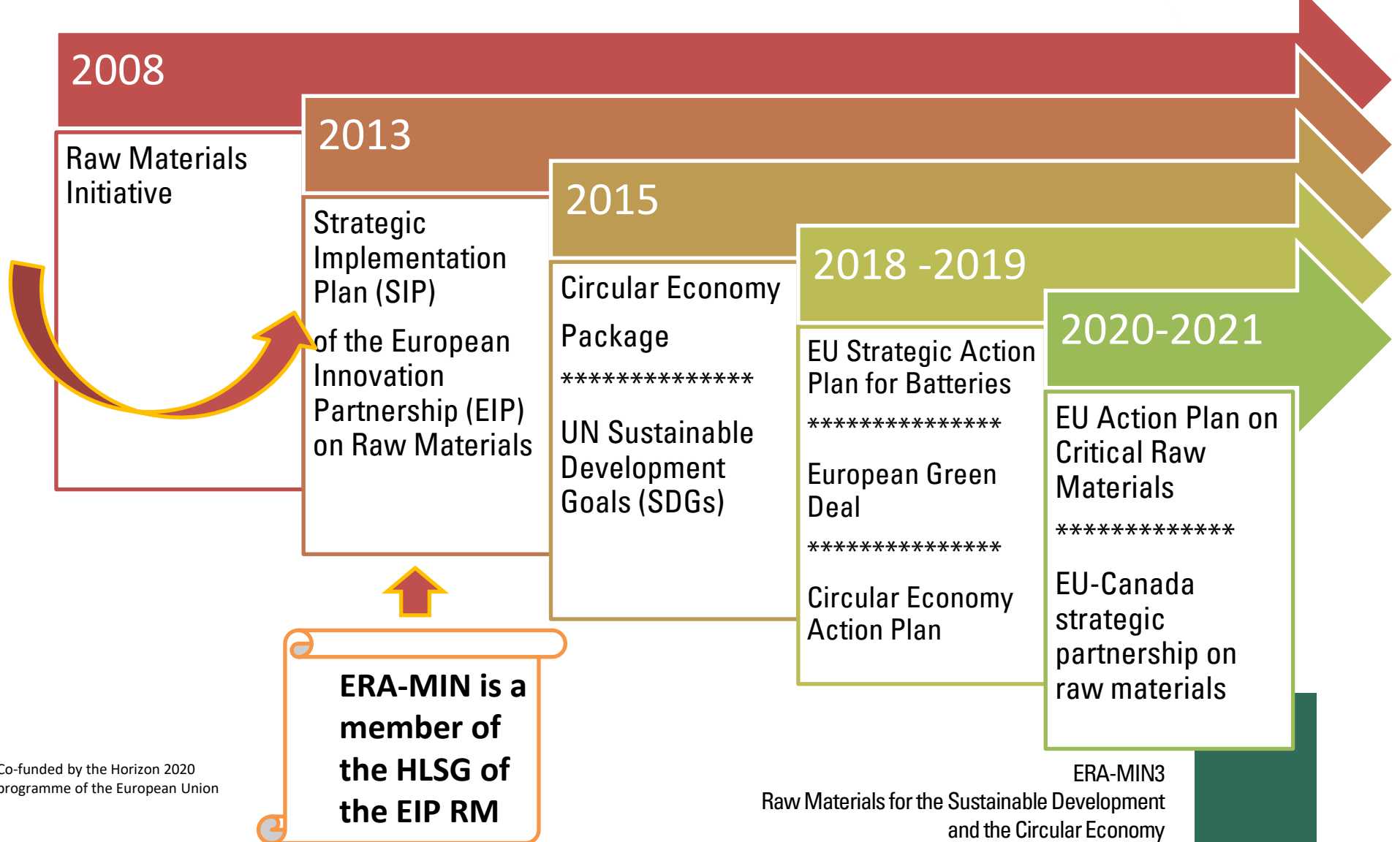
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# EU Raw Materials

## ERA-MIN networks support EU Raw Materials policies

### landscape

ERA-MIN Research  
Agenda (2013)



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## Project summaries and final reports

<https://www.era-min.eu/results>



<https://www.era-learn.eu/network-information/networks/era-min-2/era-min-joint-call-2017/>

**AMTEG** - Advanced Magnetic full TENSOR Gradiometer instrument

**MaXycle** - A novel circular economy for sustainable RE-based magnets

**MetRecycle** - Recycling of metals using functionalized magnetic nanoparticles (FMNP)

**BATRE-ARES**- Battery Recycling – Achieving Rare Earth Separation

**Li+WATER** - Membrane electrolysis for resource-efficient lithium and water recovery from brines

**LIGHTS** - Lightweight Integrated Ground and Airborne Hyperspectral Topological Solution

....



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Pesquisar




MENT

## Benefits

### Testimonials from

### Project coordinators



**ERA-MIN Project Testimonials**

ERA-MIN3  
28 vídeos 1.163 visualizações Última atualização e...

Reproduzir ... Ordem alea...

- 3** **Project Sb-RECMEMTEC**  
ERA-MIN3 • 103 visualizações • há 1 ano  
6:15
- 4** **Project MiCCuR**  
ERA-MIN3 • 94 visualizações • há 1 ano  
2:45
- 5** **Project MIWACUT**  
ERA-MIN3 • 75 visualizações • há 1 ano  
2:00
- 6** **Project MOSTMEG**  
ERA-MIN3 • 116 visualizações • há 1 ano  
3:20
- 7** **Project GEOSULF**  
ERA-MIN3 • 52 visualizações • há 1 ano  
2:35



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# ERA-MIN Joint Call 2023



## Presentation of the Call

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# ERA-MIN Joint Call 2023

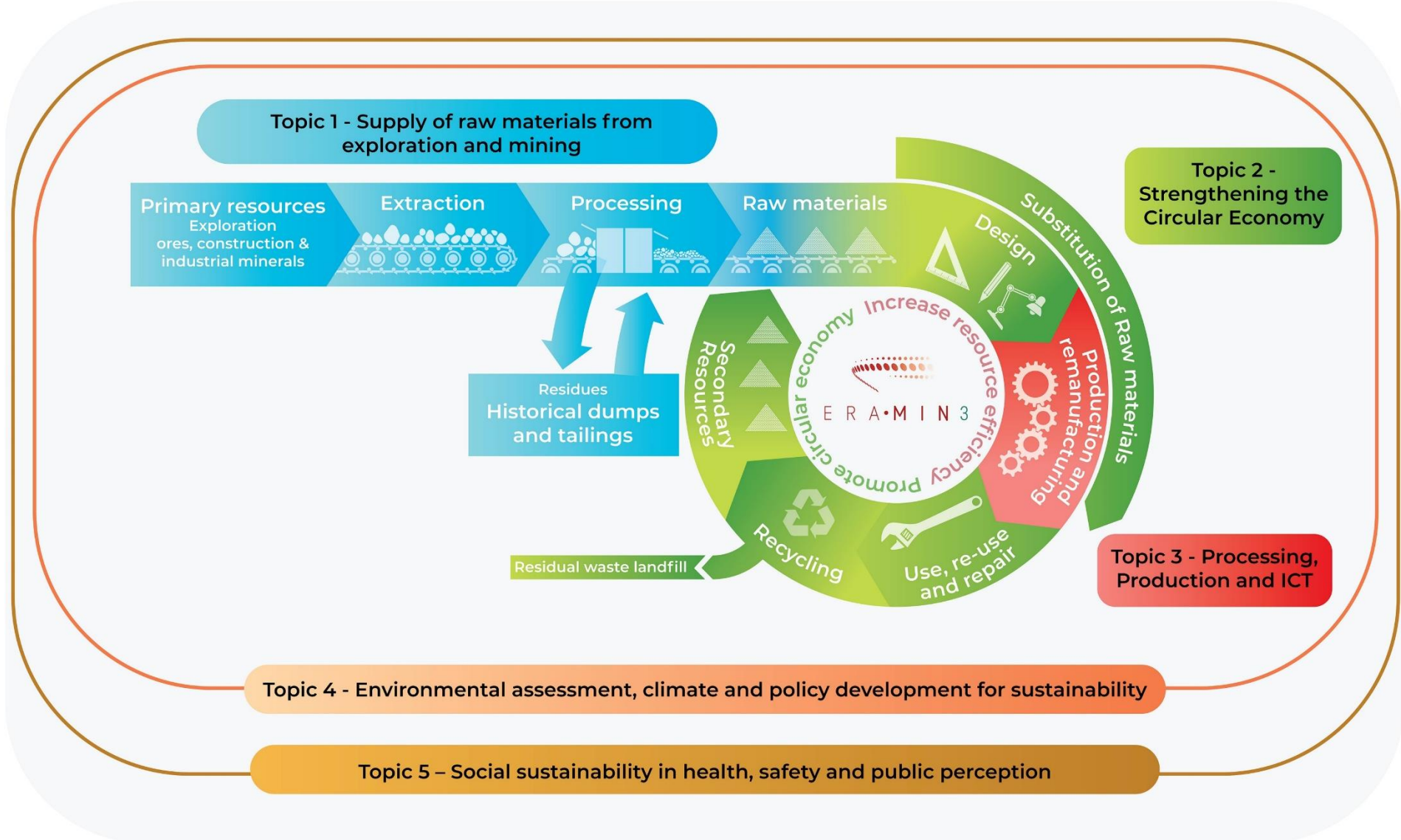
## SCOPE

The scope of the 2023 Call is needs-driven research addressing non-fuel, non-food raw materials: metallic minerals; construction materials; industrial minerals.



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Las propuestas pueden cubrir **mas de un sub-topic**, siempre y cuando se cumplan las reglas nacionales/regionales



# ERA-MIN Joint Call 2023

## SCOPE

The scope of the 2023 Call is needs-driven research addressing non-fuel, non-food raw materials: metallic minerals; construction materials; industrial minerals.



RAW MATERIALS FOR THE SUSTAINABLE DEVELOPMENT  
AND THE CIRCULAR ECONOMY

## 23 PARTICIPATING FUNDING ORGANISATIONS

**SPW** Belgium/Wallonia

**FIO** Belgium/Flanders

**FWO** Belgium/Flanders

**BNSF** Bulgaria

**TA CR** Czech Republic

**ETAG** Estonia

**Business Finland** Finland

**Région Nouvelle-Aquitaine**

France region

**PT Jülich** Germany

**GSI/EPA** Ireland

**NCBR** Poland

**FCT** Portugal

**UEFISCDI** Romania

**SAS** Slovakia

**MIZS** Slovenia

**AEI** Spain

**CFNA** Spain/Navarra

**Innobasque** –  
Spain/Basque Country

**IDEPA** – Spain/Asturias

**Vinnova** Sweden

**TÜBİTAK** Turkey

**PRIMA** Québec/Canada

**DSI** South Africa

**Call budget  
(virtual common pot):  
circa €13.6 million**



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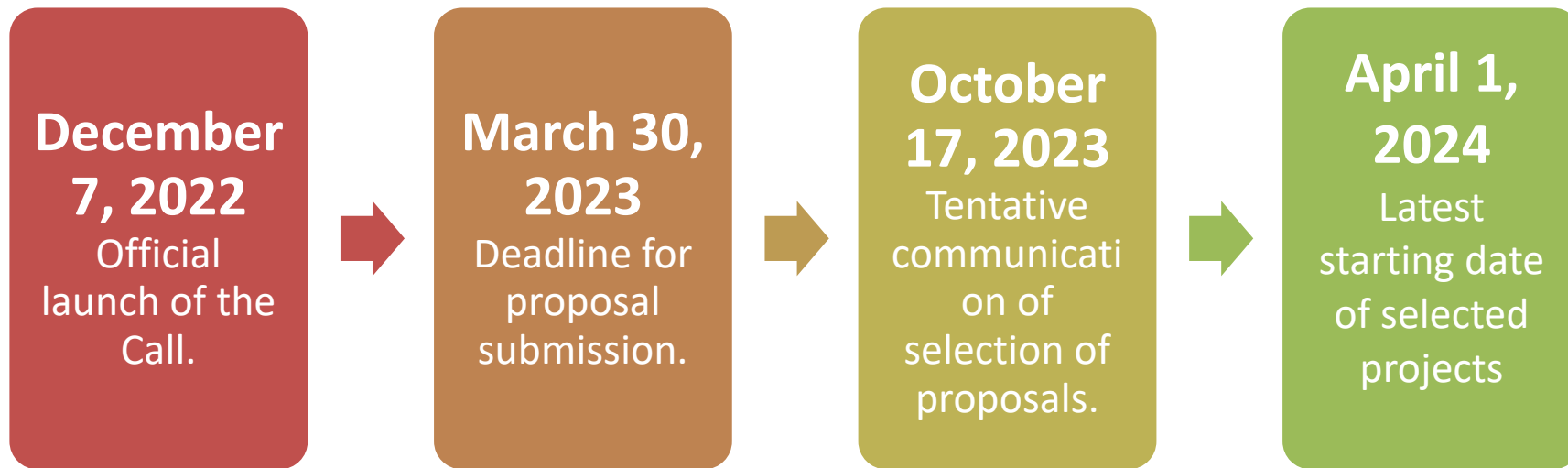
# ERA-MIN Joint Call 2023

## Call calendar



ERA-MIN 3

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**Link to ESS:** <https://www.submission-era-min.eu/call2023>

**Link to Call website:** <https://www.era-min.eu/joint-call/era-min-joint-call-2023>

**Email of Joint Call Secretariat (JCS):** [eramin@fct.pt](mailto:eramin@fct.pt)

### Call documents:

Call text ←

Guide for proposal submission ←

FAQs

### Call templates:

Form A – Proposal technical description

Form B – Statement of commitment

Form C – Statement of own funding

CV of key personnel

Financial plan

Gantt chart



# Joint Call 2023

## Eligibility criteria

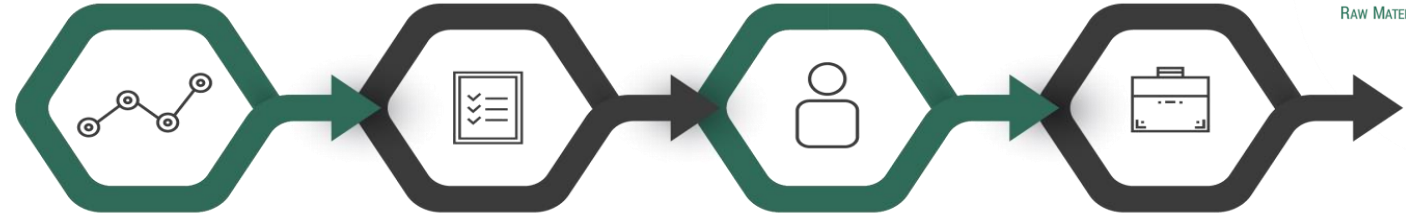
### Eligible legal entities:

- Universities
- Research institutes
- SMEs, large industry
- NGOs
- Public authorities

### Eligible research (TRL 1-9), subject to national/regional rules:

- Fundamental
- Applied research
- Innovation/pre-competitive

## Centralised submission & evaluation & selection but national/regional funding



### Scientific evaluation

H2020 evaluation criteria:

1. Excellence
2. Impact
3. Implementation

### Selection of projects

based on a ranking list from an international scientific assessment of proposals

### Funding according to national/regional regulations

### Project start

Consortio Mínimo: **3 socios** solicitando financiación de **3 países de los cuales al menos 1**

**es un Estado Miembro de la UE o un País Asociado (Turquía)** que participa en la convocatoria.

**Los solicitantes que pidan financiación,** deben **cumplir con las reglas y criterios de financiación nacionales/regionales** de su Agencia Financiadora

**Los solicitantes que NO pidan financiación** deben proporcionar pruebas de la disponibilidad de fondos propios para cubrir sus costes de participación.

Al menos **la mitad de los socios** del consorcio deben pertenecer a países de la convocatoria.

Duración de los proyectos: **12 - 36 meses** (en función de las reglas nacionales/regionales)



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# Get involved

## Contact & Info

- ❑ If you are a **research-performing organisation** (including enterprises) , **submit an application** to the Call for proposals;
- ❑ If you are an **expert on non-fuel, non-food raw materials**, apply as a **reviewer**.

### ERA-MIN Partner Search Tool

<https://www.submission-era-min.eu/partner-search>

### Joint Call Secretariat

#### Coordinator

**Ms. Dina Carrilho**

#### Project Manager

**Mr. Stefano Amaral**

[eramin@fct.pt](mailto:eramin@fct.pt)

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



<https://www.era-min.eu/>



# ERA-MIN3 Joint Transnational Call 2023

Raw Materials for Sustainable Development and the Circular Economy



ERA•MIN3

RAW MATERIALS FOR THE SUSTAINABLE DEVELOPMENT  
AND THE CIRCULAR ECONOMY

## Call topics



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# ERA-MIN Joint Call 2023

## Raw materials for sustainable development and the circular economy



RAW MATERIALS FOR THE SUSTAINABLE DEVELOPMENT  
AND THE CIRCULAR ECONOMY

- Needs-driven** research on non-fuel, non-food raw materials (minerals and metals extracted from primary or secondary sources)
- Answering to one or several of the **call topics**
- Technical** or **non-technical projects**
- Proposals should deliver **convincing arguments** on the potential **impact** of their innovation and research

### Additional focus areas:

- Critical raw materials
- Secure supply of primary raw materials
- Digitalization
- Social and environmental sustainability



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and the Circular Economy

# ERA-MIN Joint Call 2023

**5 topics**  
Updated from the last call



RAW MATERIALS FOR THE SUSTAINABLE DEVELOPMENT  
AND THE CIRCULAR ECONOMY



**Topic 1. Supply of raw materials  
from exploration to mining**



**Topic 2. Strengthening the  
circular economy**



**Topic 3. Processing, Production  
and ICT**



**Topic 4. Environmental assessment, climate and policy development for sustainability**



**Topic 5. Social sustainability in health, safety and public perception**



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# ERA-MIN Joint Call 2023

**5 topics**  
Updated from the last call



RAW MATERIALS FOR THE SUSTAINABLE DEVELOPMENT  
AND THE CIRCULAR ECONOMY

## *Primary*



**Topic 1. Supply of raw materials  
from exploration to mining**

## *Secondary*



**Topic 2. Strengthening the  
circular economy**

## *Production*



**Topic 3. Processing, Production  
and ICT**



**Topic 4. Environmental assessment, climate and policy development for sustainability**



**Topic 5. Social sustainability in health, safety and public perception**

## *Systems wide*



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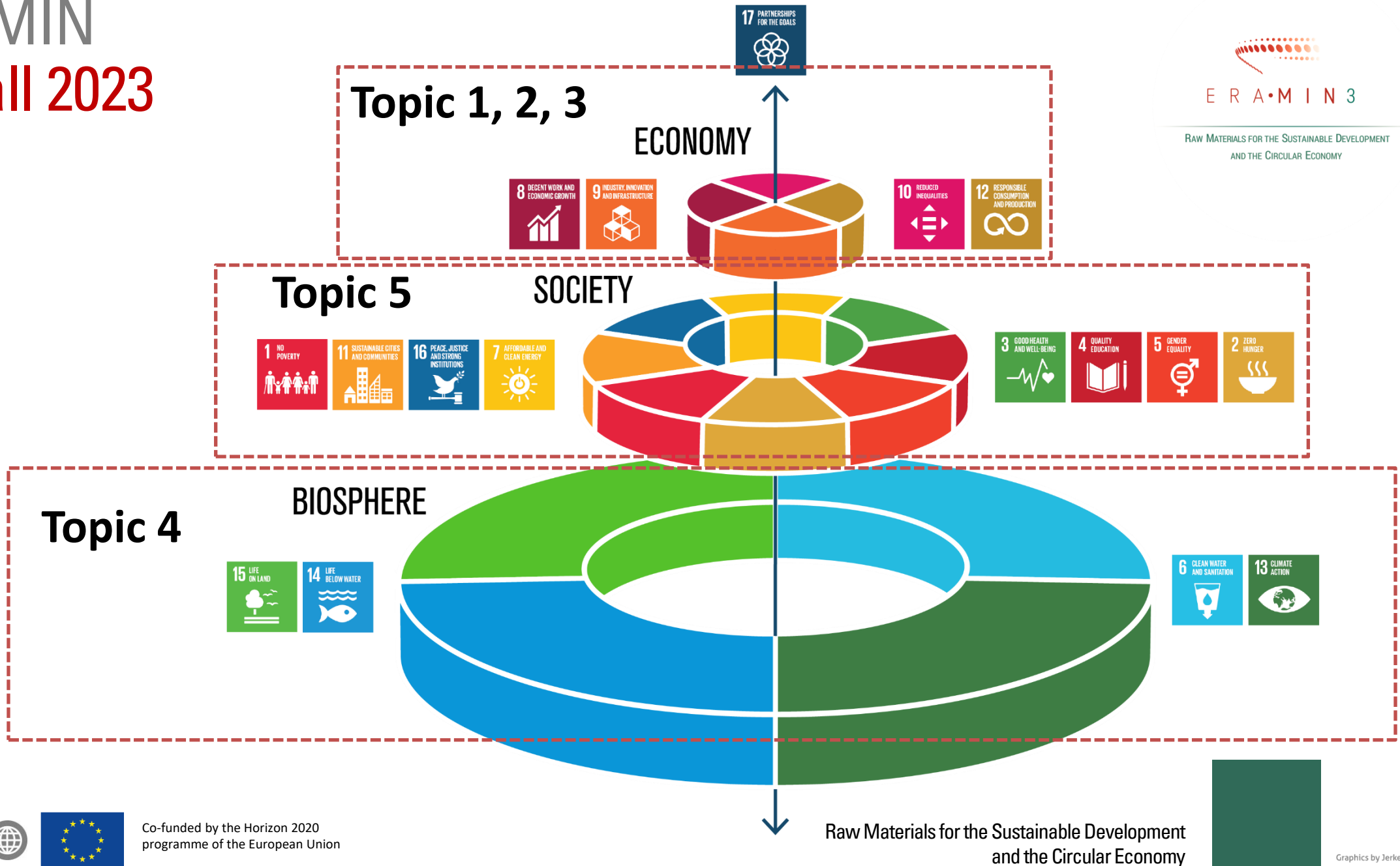


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ERA-MIN 3

RAW MATERIALS FOR THE SUSTAINABLE DEVELOPMENT  
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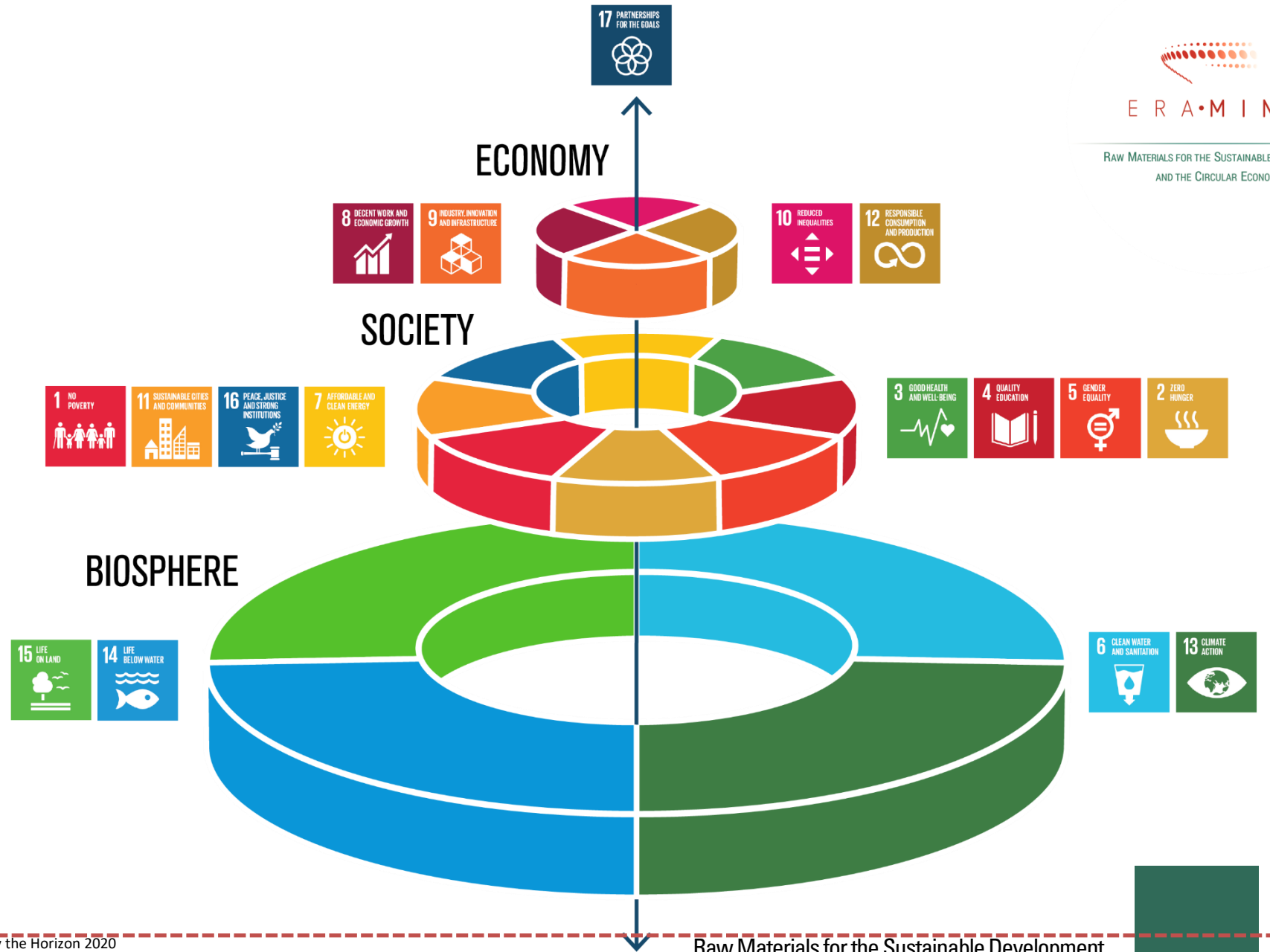
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ERA-MIN 3

RAW MATERIALS FOR THE SUSTAINABLE DEVELOPMENT  
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Topic 1, 2, 3, 4, 5



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# Topic 1. Supply of raw materials from exploration to mining



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## Innovative projects along the mining cycle

- 1.1 Innovative exploration methods
- 1.2 More sustainable mining operations
- 1.3 Improved environmental management of mines
- 1.4 Efficient mineral processing and metallurgy
- 1.5 Mine closure, remediation and re-mining of tailings and waste rock

### *Fictional example projects that would fit within this topic:*

- *Industry-driven technical research on passive water treatment for mine water*
- *Mine closure planning in practice together with local communities*



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## Topic 2. Strengthening the circular economy



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### **More reuse, repair and recycling towards a circular economy**

- 2.1 Product design for resource efficiency, including substitution
- 2.2 End-of-life products pre-processing: collection, logistics, pre-treatment, dismantling, sorting, characterization
- 2.3 Reuse, repair, refurbishing, repurposing and remanufacturing of end-of-life products
- 2.4 Recovery and urban mining of raw materials from end-of-life products or other wastes,
- 2.5 Life-cycle-analysis of raw materials
- 2.6 New business models (implementing circular economy aspects)

#### ***Fictional example projects that would fit within this topic:***

- *Innovative ways to extract critical raw materials from a waste stream*
- *SMEs collaborating on business models that can be standardized to improve profitability*



## Topic 3. Processing, Production and ICT

# Stronger resource efficiency within the production sector

- 3.1 Increase resource efficiency in resource intensive production processes
- 3.2 Increase resource efficiency, recycling and reuse of products using information and communication technologies

### *Fictional example projects that would fit within this topic:*

- *Techniques to maximize recycling of lost materials in certain production or processing steps*
- *Digitalization and AI as a method to find new ways to increase resource efficiency of CRMs*





## Topic 4. Environmental assessment, climate and policy development for sustainability

# Increased environmental sustainability along the whole system

- 4.1 Improvement of methods or data for environmental, social and health impact assessment (ESHIA)
- 4.2 Policy development for primary and secondary raw material industry
- 4.3 Energy-saving and climate action

### *Fictional example projects that would fit within this topic:*

- *New methods and standards for assessment of ecological impact of dust and emissions*
- *Policy labs and input for decision-makers on legal obstacles for recycling industry*





## Topic 5. Social sustainability in health, safety and public perception

### **Additional focus on prevention of negative effects on communities, while increasing and highlighting societal benefit**

- 5.1 Social acceptance and trust/public perception of the raw materials industry
- 5.2 Health and safety issues
- 5.3 Gender equality in the raw materials sector

#### ***Fictional example projects that would fit within this topic:***

- *Increasing trust in industrial activities through collaboration with NGOs and communities*
- *Innovations that reduce health impacts to communities, for example related to water, vibrations and dust*

