

ERA-MIN3 Joint Transnational Call 2023

Raw Materials for Sustainable Development and the Circular Economy

Submission, evaluation and selection procedures and call documents



Tobias Kampmann – Vinnova

Call launch event, 14 Dec 2022



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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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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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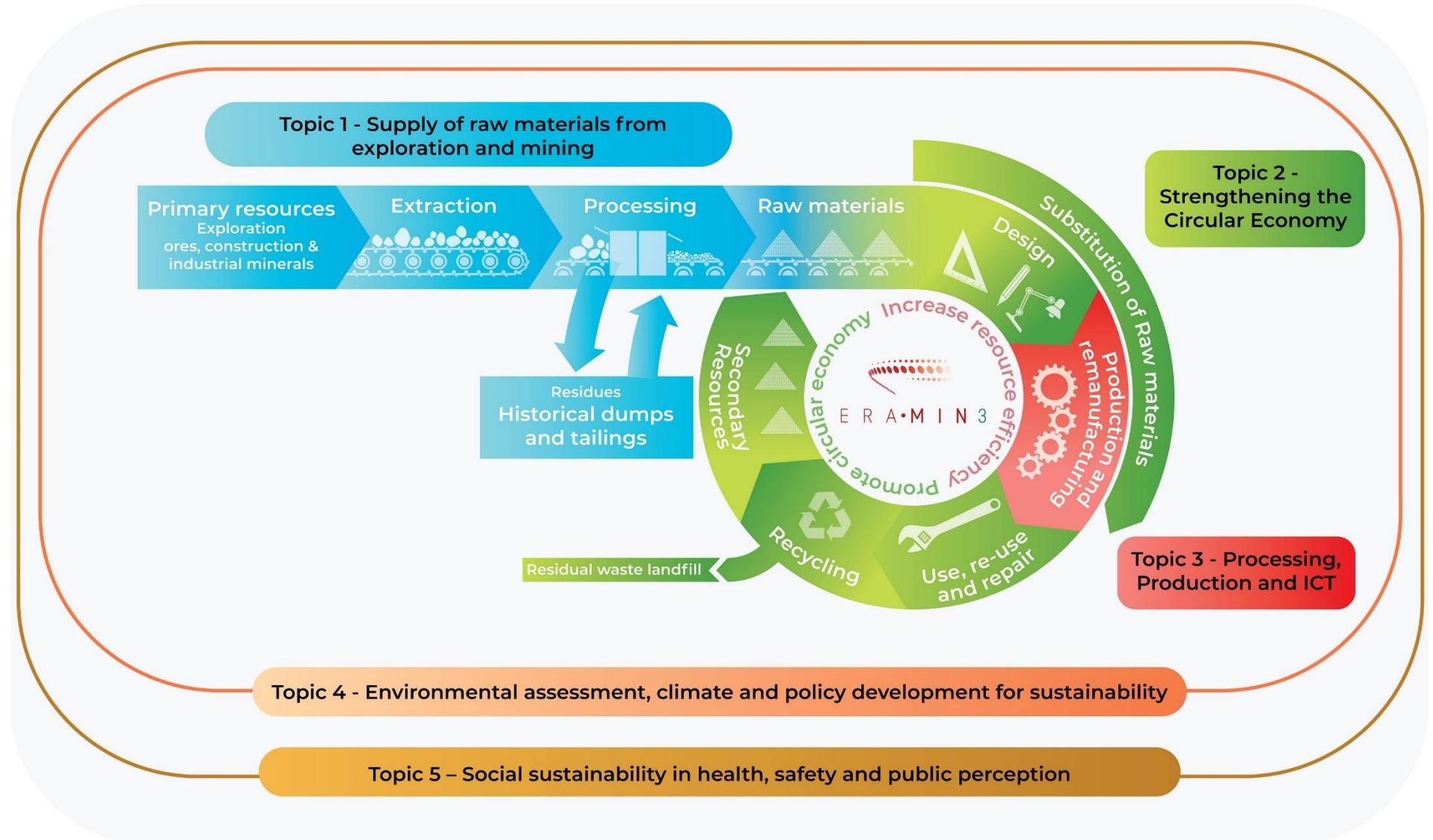
Raw Materials for the Sustainable Development
and the Circular Economy

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.

Proposals may address **more than one sub-topic**, subject to national/regional regulations

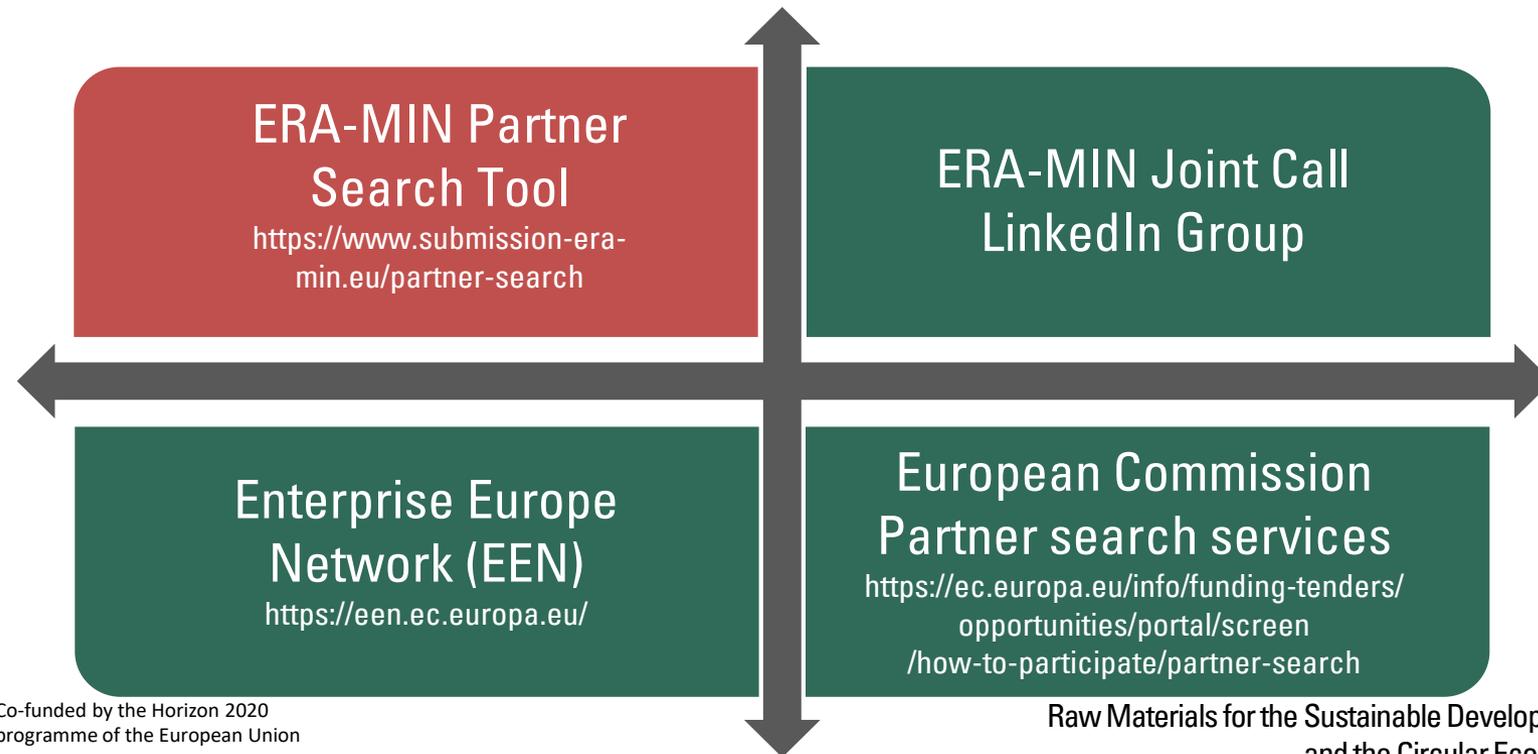


Joint Call 2023

Who can apply:

A consortium must consist of at least **three partners eligible** and **requesting funding** from the participating Funding Organisations of at least **three countries** whereof at least one is an EU Member State or EU Associated Country (Turkey) named in the Call.

Partner Search



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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

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



ERA-MIN Joint Call 2023

Call calendar



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National contact points (NCPs)

Presentation

Where can one find the NCP list for ERA-MIN3?

Call Text, Table 1, page 5 & 6.

A table with the list of Funding Organisations and the respective contact person(s) name and email, as well as the Budget for the Call in Euros.

Why should one contact the NCP's?

To clarify any doubts concerning: national rules, maximum or minimum budget allowed per institution, eligible topics and sub-topics, eligible TRL, eligible type of institutions and project costs, needed forms beyond those requested in the Call Text.

Table 1. Participating funding organisations and indicative budget, name and e-mail of NCP.

Country /Region	Funding Organisation	Contact person (s)	E-mail (s)	Budget (Euro)
Belgium/ Flanders	FIO/VLAIO	Elsie DE CLERCQ	elsie.declercq@vlaio.be	1 000 000
Belgium/Flanders	FWO	Toon MONBALIU	erant@fwo.be	350 000
Belgium/ Wallonia	SPW-Recherche	Pierre DEMOITIE	pierre.demoitie@spw.wallonie.be	500 000
Bulgaria	BNSF	Irena PEYTICHEVA Milena ALEKSANDROVA	impeytcheva@gmail.com aleksandrova@mon.bg	383 475
Canada/ Québec	PRIMA-Québec	Michel LEFÈVRE	Michel.lefevre@prima.ca	700 000
Czech Republic	TA CR	Kateřina VOLFOVÁ	Katerina.volfova@tacr.cz	800 000
Estonia	ETAg	Margit SUUROJA	margit.suuroja@etagee	150 000
Finland	Business Finland	Maarit KOKKO	maarit.kokko@businessfinland.fi	1 000 000
France/Nouvelle Aquitaine	Région Nouvelle-Aquitaine	Delphine JOUVIN	Delphine.jouvin@nouvelle-aquitaine.fr	500 000
Germany	BMBF/JÜLICH	Holger GRÜNEWALD	h.gruenewald@fz-juelich.de	2 000 000
Ireland	GSI/EPA	Ana Luisa LAVADO	analuisa.lavado@gsi.ie	200 000
Poland	NCBR	Kinga SZYMANSKA-RZEZNIK	Kinga.szymanska@ncbr.gov.pl	600 000
Portugal	FCT	Dina CARRILHO Stefano AMARAL	Dina.Carrilho@fct.pt Stefano.amaral@fct.pt	500 000
Romania	UEFISCDI	Mihaela Manole Nicoleta DUMITRACHE	mihaela.manole@uefiscdi.ro nicoleta.dumitrache@uefiscdi.ro	600 000
Slovakia	SAS	Martin NOVÁK	mnovak@up.upsav.sk	120 000
Slovenia	MIZS	Doroteja ZLOBEC	doroteja.zlobec@gov.si	600 000
South Africa	DSI	Tugela Matubatuba	Tugela.matubatuba@dst.gov.za	400 000
Spain	AEI	Severino FALCÓN MORALES	era-mat@aei.gob.es severino.falcon@aei.gob.es	500 000
Spain/ Asturias	IDEPA	Ana E. FERNÁNDEZ MONZÓN	anae@idepa.es	200 000
Spain/ Basque Country	EJ/GV - Innobasque	Judith DE PRADO	jdeprado@innobasque.eus	500 000
Spain/ Navarra	CFNA	Silvia OJER	Silvia.ojer.torres@navarra.es	500 000
Sweden	Vinnova	Tobias KAMPMANN Pontus WESTRIN	Tobias.kampmann@vinnova.se Pontus.westrin@vinnova.se	1 000 000
Turkey	TÜBITAK	A. Serhat YILDIRIM	azmiserhat.yildirim@tubitak.gov.tr	500 000



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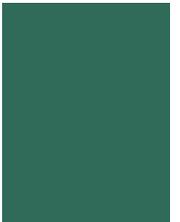
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Funding regulations

National/regional topic restrictions

Table 2. Summary of the main call topics supported by the Funding Organisations. Some examples are shown here. See Call text for full table.

Country /Region	Funding Organisation	Topic 1	Topic 2	Topic 3	Topic 4	Topic 5
Belgium/Flanders	FWO	YES	YES	YES	YES	YES
Belgium/ Wallonia	SPW-Recherche	YES	YES	YES	YES	YES
Bulgaria	BNSF	YES	YES	YES	YES	YES
Canada/ Québec	PRIMA-Québec	YES	⚠	YES	NO	⚠



Funding regulations

Eligible research and entities

Table 3. Type of research and entities eligible for funding by the participating Funding Organisations. Some examples are shown here. See Call text for full table.

Country/region	Funding Organisation	Fundamental/Basic research	Industrial/Applied research	Experimental research	TRL	Type of entities eligible for funding	Project duration
Belgium/ Flanders	FWO	YES	YES		1–5		24–36 months
Belgium/ Wallonia	SPW-Recherche	NO	YES	YES	4–7	All	12–36 months
Bulgaria	BNSF	YES	NO	YES (only laboratory)	1-4		24–36 months
Canada/ Québec	PRIMA-Québec	YES	YES	YES	1–9		12–36 months





Funding regulations

National Contact Point	<p>Name: Tobias C. Kampmann E-mail: tobias.kampmann@vinnova.se Phone: +46 8 473 3246</p> <p>Name: Pontus Westrin E-mail: Pontus.westrin@vinnova.se</p>
Eligible entities	Universities, R&D institutes, SME's and Large companies, NGOs (associations, foundations, etc.). Organisations must be legal entities.
Eligible topics	All
Eligible type of research and TRL	Fundamental/Basic Research, Industrial/Applied Research and Experimental Development TRL 2-7
Additional eligibility criteria	Swedish partners in a project proposal can together apply for funding of maximum 300 000 Euros in total.
Eligible costs	<p>Vinnova's grant is a contribution to the project's total eligible costs or parts thereof. The following costs are eligible (see link below for limitations):</p> <ol style="list-style-type: none"> 1. personnel costs, 2. costs of equipment, land and buildings, 3. costs of consultants and licenses etc., 4. other direct costs including travel expenses, and 5. indirect costs. <p>For more information see https://www.vinnova.se/en/apply-for-funding/rules-for-our-funding/terms-and-conditions-for-our-funding/ and https://www.vinnova.se/en/apply-for-funding/rules-for-our-funding/state-aid-to-companies/</p>

Example of a national annex
(Appendix IV of Call Text)



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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

Minimum Consortium: **3 partners** requesting funding from **3 countries**

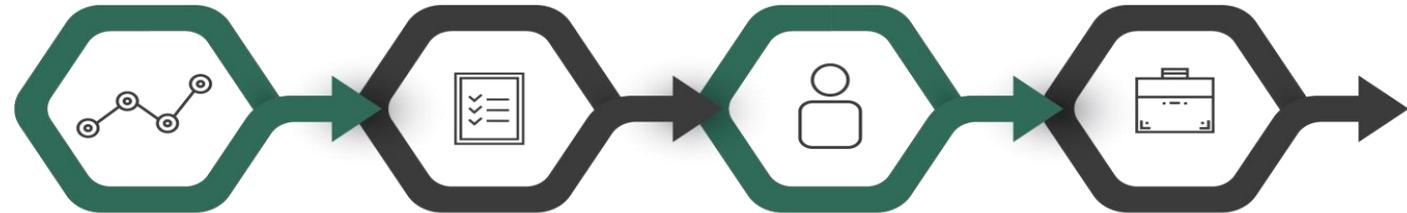
whereof 1 is EU Member State or an Associated Country (Turkey) named in this Call

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

Applicants not requesting funding 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)



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



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Funded transnational R&I projects

Tips for a
successful
proposal

Testimonials from
previous calls

- | | | |
|--|--|--|
| <p>“First find the question and then the partners”</p> | <p>Enhance former cooperation between partners towards development of new ideas</p> | <p>Make use of the Partner Search Tool for consortia building</p> |
| <p>Start early building the consortium, especially with industrial partners</p> | <p>Start project idea and preparation 6 months prior submission</p> | <p>Check the eligibility of the consortium partners by country</p> |
| <p>Clear information and objectives between enterprises and universities</p> | <p>Projects must be pertinent for new industrial developments (innovation)</p> | <p>Project should be oriented towards an industrial development and application</p> |
| <p>Must have concrete and measurable outcomes</p> | <p>Network with other projects and communicate openly and frequently</p> | <p>Budget and requested funding must be reasonable for the proposed activities</p> |



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

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Call topics



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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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ERA-MIN Joint Call 2023

5 topics
Updated from the last call



RAW MATERIALS FOR THE SUSTAINABLE DEVELOPMENT
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**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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Raw Materials for the Sustainable Development
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ERA-MIN Joint Call 2023

5 topics
Updated from the last call



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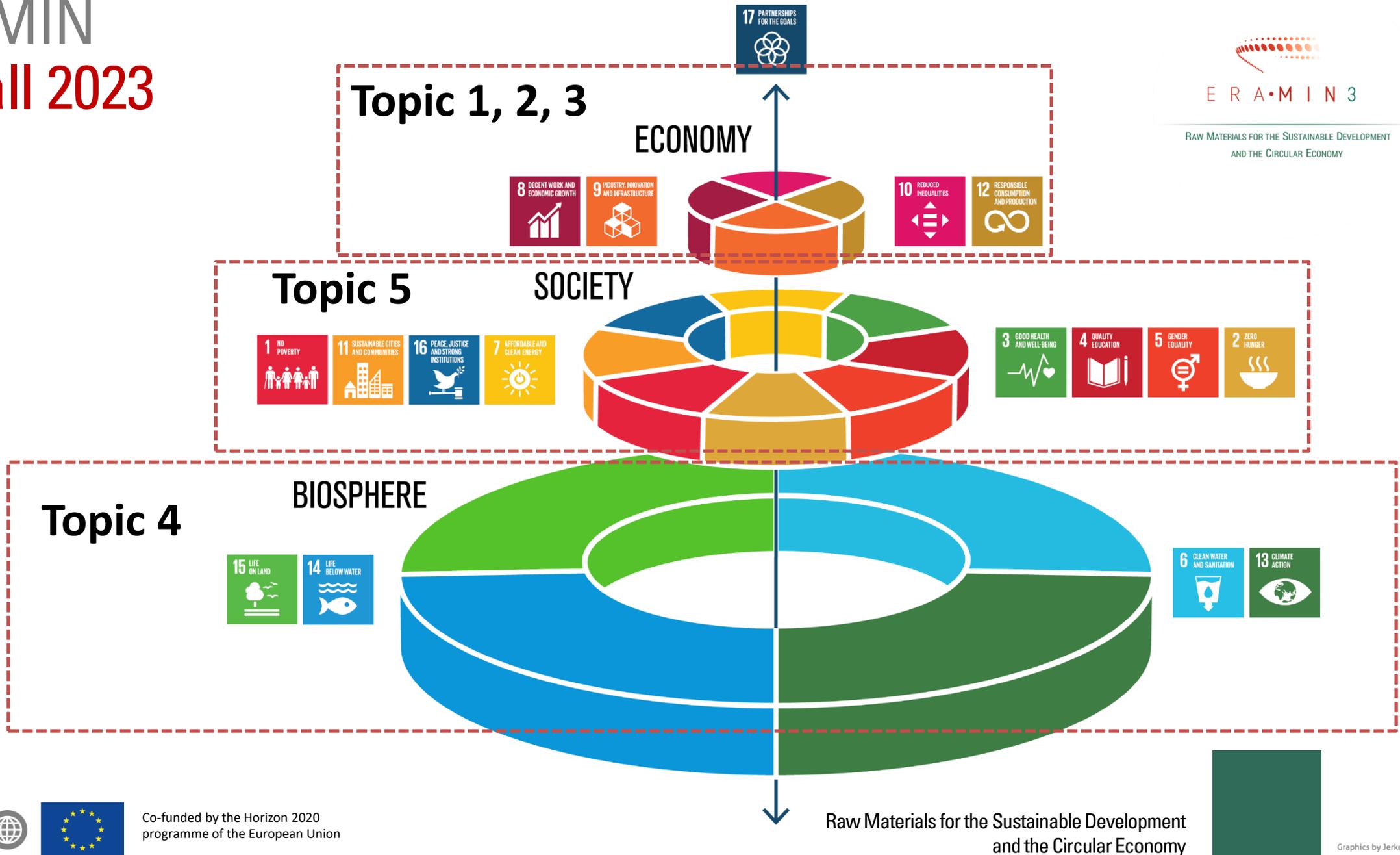
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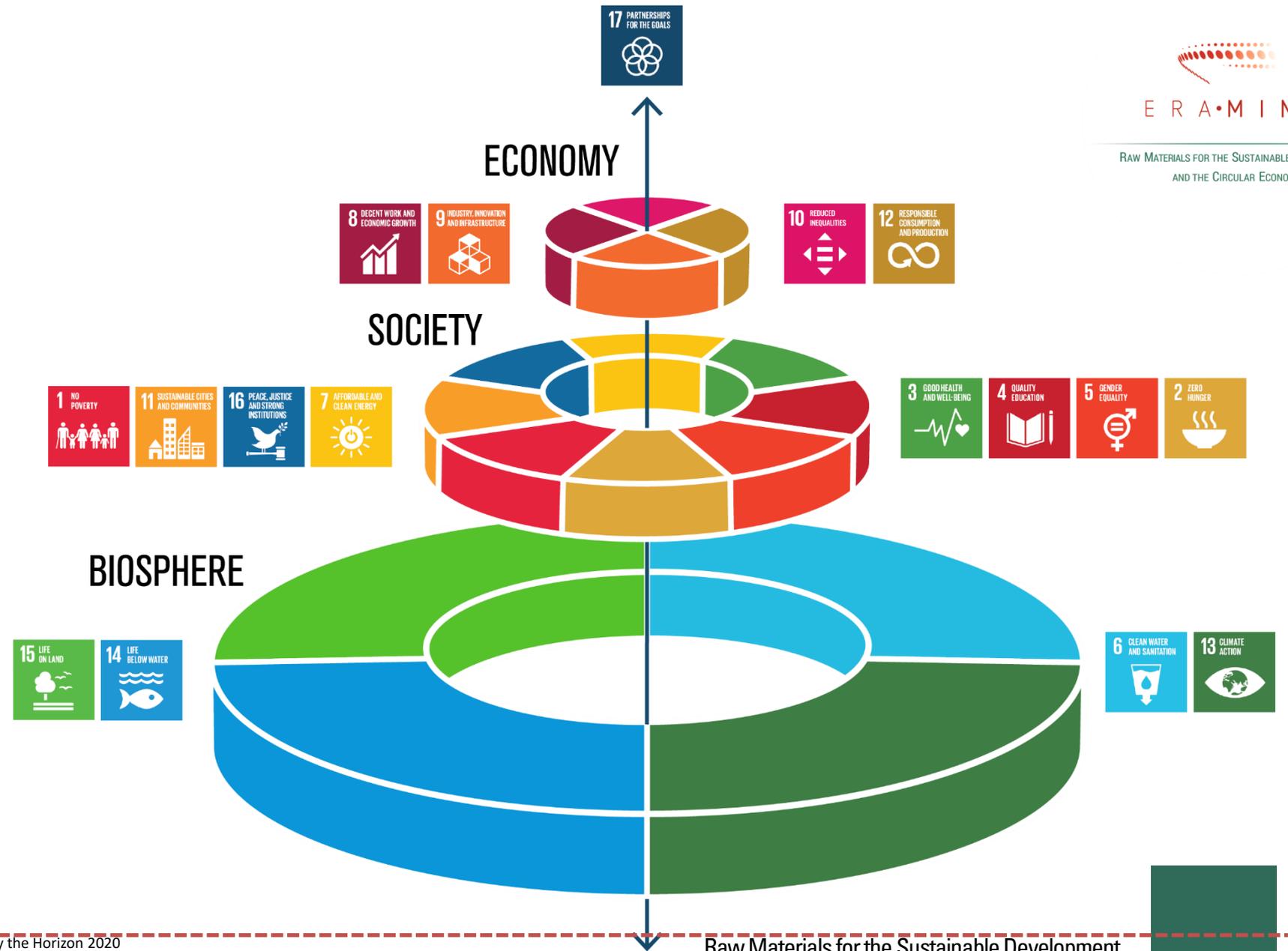
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Topic 1, 2, 3, 4, 5



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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*

