



RESEARCH & INNOVATION PROGRAMME ON RAW MATERIALS TO FOSTER CIRCULAR ECONOMY



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

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Workshop Finep
14th march 2017, Rio de Janeiro

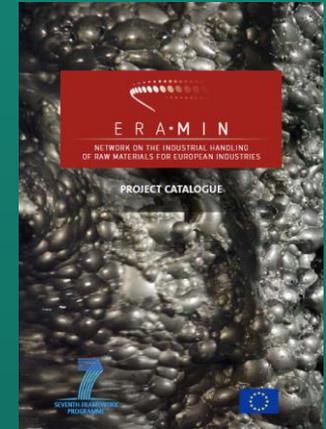
- Background – ERA-MIN (2011-2015)
- ERA MIN 2 (2016-2021)
- ERA-MIN Joint Call 2017

BACKGROUND: ERA-MIN (2011-2015)

Industrial Handling of Raw Materials for European industries

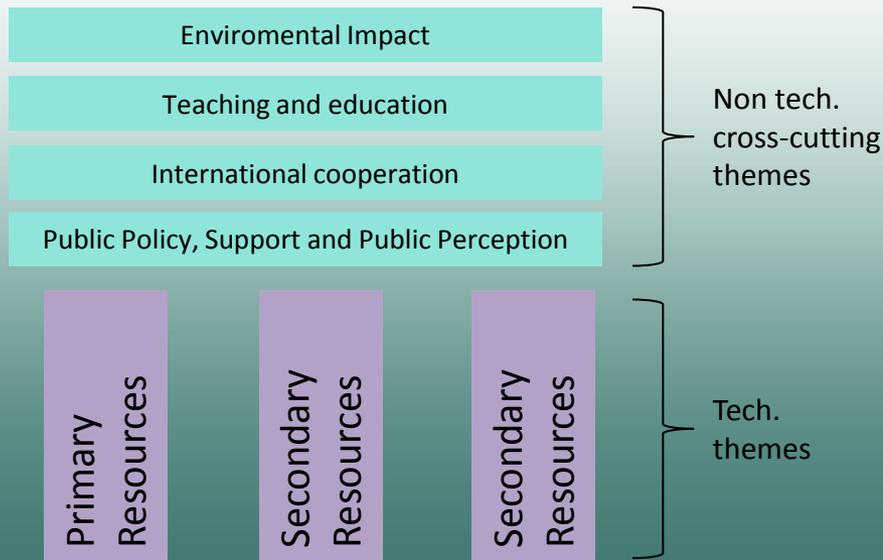
21 partners from 15 EU Member-States + Argentina+ South Africa

Main results:



ERA-MIN Research Agenda (2013)

non-energy, non-agricultural raw materials



3 joint calls 2013/2014/2015

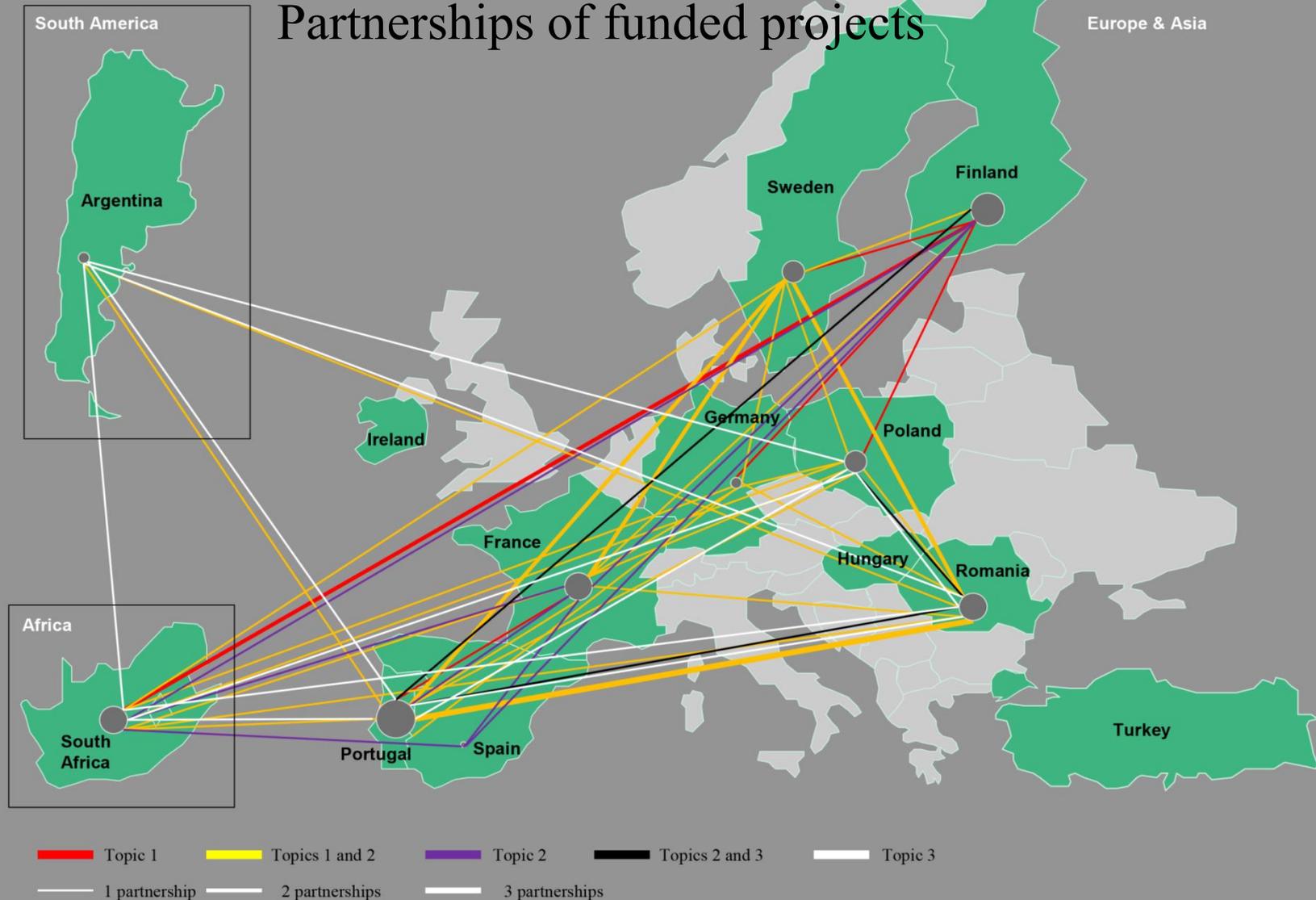
- 13,0 M€ of total national public funds
- 17 total R&D funded projects

13 projects on **primary resources**

7 projects on **secondary resources**

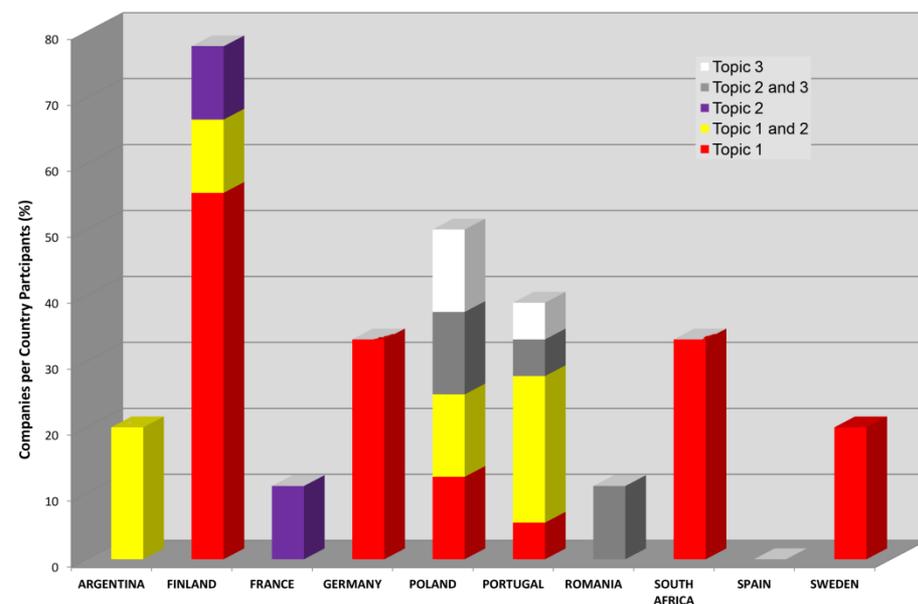
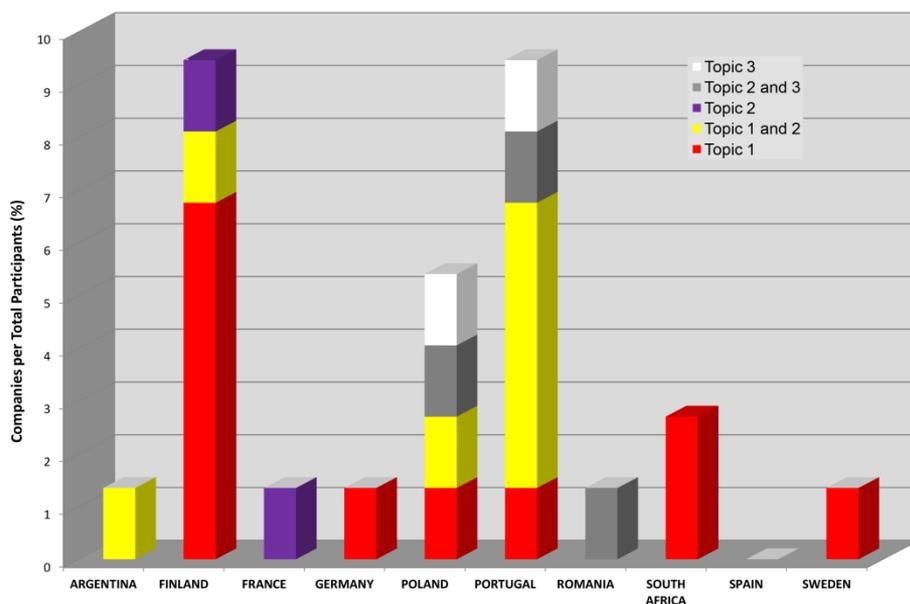
2 projects on **substitution** of Critical Raw Materials

ERA-MIN Joint Call 2014 & 2015 Partnerships of funded projects



ERA-MIN Joint Call 2014&2015

Company distribution per country and per topic



Source: Dina Carrilho (2016) *“Stepping up the international cooperation for the sustainable supply of raw materials”*, European Geologists, 42: 33-36

ERA MIN 2. Introduction

ERA MIN 2 (2016-2021)

- Horizon 2020 funded project under Call 2016 (Societal Challenge 5)
- Title: *Implement a European-wide coordination of research & innovation programs on raw materials to strengthen the industry competitiveness and the shift to a circular economy*
- ERA-NET Cofund:
 - Where participants are research funding organizations (RFOs; Ministries, national and regional funding agencies).
 - Where European Commission grants up to 33% of the national/regional funds committed by the RFOs in the ERA-NET Cofund Call

ERA-MIN 2 aims to develop the non-energy and non-agricultural raw materials sector: **construction, industrial and metallic minerals.**

ERA MIN 2 activities / objectives:

Co-funded Call 2017

- EU co-funding: ca. **5 M€**
- Total call budget ca. **15 M€**
- Launch: **1st February 2017**
- Funding decision: **Jan. 2018**
- Projects start: **May 2018**
- **Low TRLs** targeted
- **Centralised peer-review**
based on 3 H2020 evaluation
criteria: Excellence, Impact
and Implementation.
- Selection of projects following
a **ranking list** recommended
by the Scientific Evaluation
Board.

Additional Objectives/activities

- Two additional calls **2018 & 2019**
without EU co-funding
- Enhance and strengthen the
synergies, coord. & **collaboration**
of EU and non-EU RFOs
- Support and **promote R&I**
cooperation
- **Improve the efficiency and**
impact of human and financial
investment in R&I activities
- In support of the **EU integrated**
strategy “Raw Materials
Initiative” (2008) and the
European Innovation
Partnership on Raw Materials
(2012)

Future activities

2018 and 2019 – 2 joint calls for transnational by pooling only national/regional funds

OPEN to participation of funding organisations from other countries and regions

Target EU countries: Austria, Bulgaria, Czech Republic, Denmark, Netherlands, Norway, Switzerland and United Kingdom

Target non-EU countries: Australia, Brazil-regions, Canada, Colombia, Japan, Mexico, Peru and USA

2017-2021 – Organise joint workshops, matchmaking events with other Ministries and funding agencies

Economia Circular: Mudança e Inovação

Pacote para a Economia Circular revisto e adotado pela CE em Dez 2015

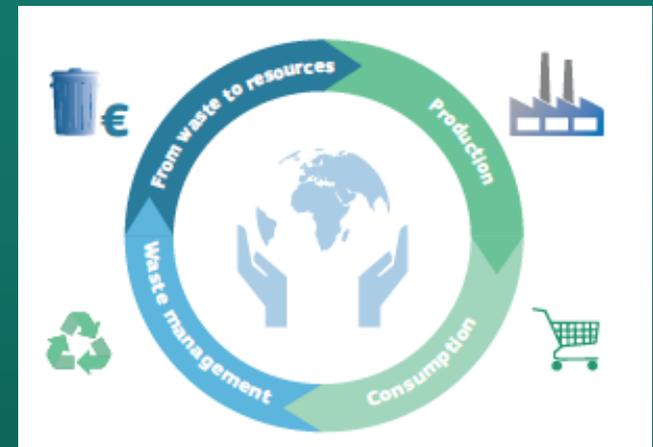
“Closing the loop – An EU action plan for the Circular Economy” COM (2015) 614/2

Objetivos:

- melhoria da gestão dos resíduos
- aumento da reciclagem
- redução da deposição em aterros

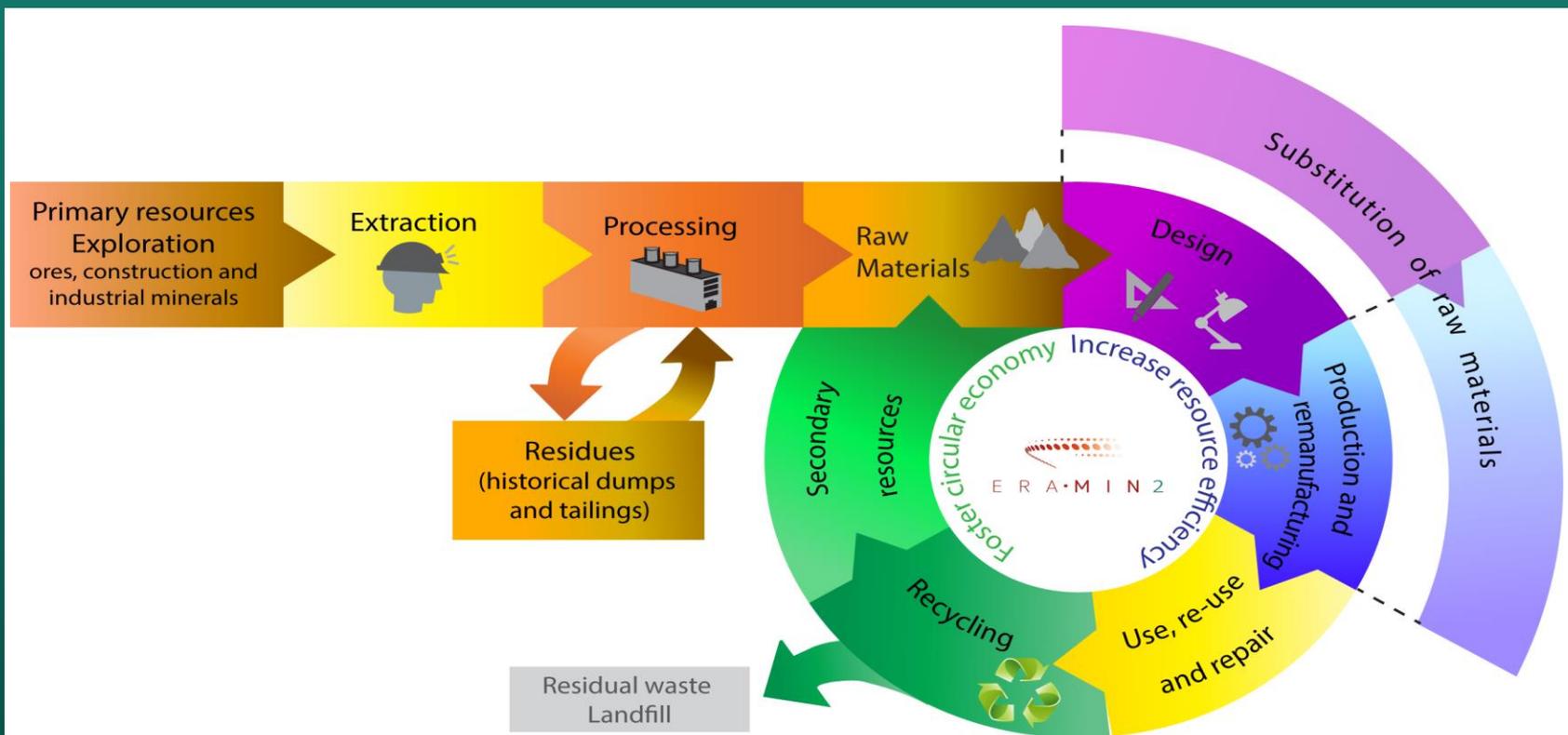
Ações que cobrem todo o ciclo de valor:

- **produção** (design de produto, processos sustentáveis,...)
- **consumo** (reutilização, mudanças de comportamento,...)
- **gestão de resíduos** (aumentar reciclagem, diminuir incineração,...)
- **mercado para matérias-primas secundárias**
- **setores prioritários** (plásticos, resíduos alimentares, CRM, construção demolição, bio-recursos)



ERA-MIN Joint Call 2017 – scope

supports demand-driven research and innovation on **primary and secondary resources of metallic, construction and industrial minerals and substitution of Critical Raw Materials** in a circular economy approach.



ERA-MIN Joint Call 2017 – thematic areas

Five main topics:

1. **Supply of raw materials from exploration and mining**
2. **Design**
3. **Processing, Production and Remanufacturing**
4. **Recycling of End-of-Life Products**
5. **Cross-cutting topics:**

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**

ERA-MIN Joint Call 2017 – main topics and sub-topics

1. Supply of raw materials from exploration and mining

- 1.1. Exploration
- 1.2. Mining operations
- 1.3. Mine closure & reclamation

2. Design

- 2.1. Product design for increased raw material efficiency
- 2.2. Product design for reuse or extended durability of product
- 2.3. Product design to promote recycling
- 2.4. Product design for critical material substitution

ERA-MIN Joint Call 2017 – main topics and sub-topics

3. Processing, Production and Remanufacturing

- 3.1. Increase resource efficiency in resource intensive production processes
- 3.2. Increase resource efficiency through recycling of residues or manufacturing
- 3.3. Increase resource efficiency using information & communication technologies (ICT)

4. Recycling of End-of-life products

- 4.1. End-of-life products collection and logistic
- 4.2. End-of-life products pre-processing
- 4.3. Recovery of raw materials from End-of-life products
- 4.4. Increase recycling of End-of –Life products information & communications technologies (ICT)

ERA-MIN Joint Call 2017 – scope and thematic areas

Increase resource efficiency

Social License to operate/ public awareness, acceptance and trust

**Primary
resources**

**Design /
substitution**

**Production and
remanufacturing**

**Recycling/
secondary resources**

IT based solutions for the management of primary and secondary resources

Public and environmental policy

ERA-MIN Joint Call 2017

Joint application & evaluation but **national/regional funding**

- **National/regional funding rules and regulations** apply:
 - **topics and sub-topics** eligible for funding
 - **eligible partners** from academia, industry, SMEs, NGOs, public authorities from the participating countries/regions
 - **Eligible type of research**: fundamental and applied research (Technology Readiness Level TRL 1-9)

ERA-MIN Joint Call 2017. National and regional priorities

National and regional priorities

Country/region	Funding Organisation	Topic 1	Topic 2	Topic 3	Topic 4	Topic 5
Argentina	MINCYT	!	x	!	!	
Belgium / Flanders	FWO	x	x	x	x	x
Belgium /Flanders	Hermesfonds	x	x	x	x	
Brazil	Finep	x	x	x	x	x
Chile	CONICYT	x				x
Finland	Tekes	x	x	x	x	x
France	ADEME		x	x	x	x
France	ANR	!	x	x	x	
Germany	BMBF	!	x	x	x	x
Ireland	GSI	x	x	!	!	!
Italy	MIUR	x	x	x	x	x
Poland	NCBR	x	x	x	x	
Portugal	FCT	x	x	x	x	x
Romania	UEFISCDI	x	x	x	x	x
Slovenia	MIZS	x	x	x	x	x
South Africa	DST	x	!	!	!	x
Spain	CDTI	x	x	x	x	
Spain	MINECO	x	x	x	x	
Spain / Castilla y León	ADE	x	x	x	x	
Sweden	Vinnova	x	x	x	x	x
Turkey	TUBITAK	x	x	x	x	x

Not all topics
are supported
by all funding
organisations

Five main topics:

1. Supply of raw materials from exploration and mining
2. Design
3. Processing, Production and Remanufacturing
4. Recycling of End-of-Life Products
5. Cross-cutting topics

ERA-MIN Joint Call 2017. Funding rules

Eligible organisations

Country/Region	Funding Organisation	Large Enterprises	Medium Enterprises	Small Enterprises	Universities and research organisations	Private non-profit organisations
Argentina	MINCyT		X	X	X	X
Belgium / Flanders	FWO				X	
Belgium /Flanders	Hermesfonds	X	X	X		
Brazil	Finep	X	X	X	X	X
Chile	CONICYT				X	X
Finland	Tekes	X	X	X	X	
France	ADEME	X	X	X	X	X
France	ANR	X	X	X	X	!
Germany	BMBF/JUELICH	X	X	X	X	X
Ireland	GSI	X	X	X	X	!
Italy	MIUR	X	X	X	X	X
Poland	NCBR	X	X	X	X	
Portugal	FCT	X	X	X	X	X
Romania	UEFISCDI	X	X	X	X	X
Slovenia	MIZS	X	X	X	X	X
South Africa	DST	X	X	X	X	X
Spain	CDTI	X	X	X		
Spain	MINECO				X	X
Spain / Castilla y León	ADE	X	X	X		
Sweden	Vinnova	X	X	X	X	X
Turkey	TUBITAK	X	X	X	X	X

ERA-MIN Joint Call 2017. Funding rules

Eligible type of research

Country/Region	Funding organisations	Fundamental /Basic Research	Industrial/Applied Research				Experimental development	
		TRL 1-3	TRL 4-5	TRL 5-6	TRL 6-7	TRL 7-8	TRL 8-9	
Argentina	MINCyT	X	X	X	X	X	X	
Belgium / Flanders	FWO	!						
Belgium /Flanders	Hermesfonds/ VLAIO	X	X	X	X	X	X	
Brazil	Finep	X	X	X	X	X	X	
Chile	CONICYT	X	X	X	X			
Finland	Tekes		X	X	X	X	X	
France	ADEME		X	X	X	!		
France	ANR	X	X					
Germany	BMBF/JUELICH		X	X	X	X	X	
Ireland	GSI	X	X	X	X	X	X	
Italy	MIUR	X	X	X	!	!		
Poland	NCBR		X	X	X	X	X	
Portugal	FCT	X	X	X	X	X		
Romania	UEFISCDI	X	X	X	X	X	X	
Slovenia	MIZS	X	X	!				
South Africa	DST	X	X	X	X	X	X	
Spain	CDTI	X	X	X	X	X	!	
Spain	MINECO	X	X	X				
Spain / Castilla y León	ADE		X	X	X			
Sweden	Vinnova	X	X	X	X	!		
Turkey	TUBITAK	X	X	X	X	X	X	

ERA-MIN Joint Call 2017 – eligibility criteria

Each consortium must be composed of, at least, **two** independent legal entities eligible to request funding from the Funding Organisations of, at least, **two different EU Member States** or Associated Countries participating in this Call.

Applicants not requesting funding can be partners of the consortium, on the condition that they provide evidence of the availability of their own funds (**Form C**).

All applicants requesting funding must provide a **statement of commitment (Form B)** as an annex of the pre-proposal)

Project duration: between 12 and 36 months. See national requirements

The pre-proposal has to be submitted by the coordinator via the **ERA-MIN Electronic Proposal Submission System**.

One person can only participate as lead researcher representing the **coordinator** in one proposal, must be eligible for funding and from a country or region participating in the Call.

ERA-MIN Joint Call 2017 –recommendations to applicants

The applicants must liaise with the **local contact person of their country/region** and confirm that the national/regional priorities, funding criteria and regulations are met.

Partnerships **academia-industry** are particularly encouraged to apply. Other types of consortia (e.g. purely industrial or academic) may also apply.

A proposal may cover more than one of the topics and sub-topics. Not all topics and sub-topics are supported by all participating funding organisations.

Consortia of 2-7 partners from 2-7 countries (indicative maximum)

If required, national/regional submission forms or documents should be submitted to the respective Funding Organisation within the specified deadline, no later than one week after the proposal submission deadline

The **expected size of a proposal** in terms of total funding is typically in the range of **0.3 to 1.5 million Euro**.

ERA-MIN Joint Call 2017 - Call timeline

Joint Call Publication

- 1 February 2017

Pre-proposal Submission

- 5 May 2017, 17:00 CEST

Full-proposal Submission

- 28 September 2017, 17:00 CEST

Feedback to applicants

- 15 January 2018

Projects Starting Date

- 1 May 2018 (latest date)

Call documents

Further information on the objectives and expected impacts of the five topics?

Please read the “**Call text**”.

Further information on the submission, evaluation, selection, funding procedures, eligibility criteria, topics and sub-topics covered by each funding organisation and the pre-proposal template? Please refer to the “**Guidelines for Applicants**”.

Looking for the specific national and regional funding regulations and rules? Please read the “**National/Regional Funding regulations**”.

All call documents available at: www.era-min.eu/call

Partner search tool

Searching for partners and build consortia? Please refer to the online tool available on the **NCPs-CaRE website** (<http://partnersearch.ncps-care.eu/>).

More details on the ERA-MIN Joint Call 2017
Webinar on 30th March at 12:00 CEST
Will be available at ERA-MIN 2 website

Obrigado!
Thank you!



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FCT- Fundação para a Ciência e a Tecnologia
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