



## 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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*Information Days HORIZON 2020 Societal Challenge 5 - 2018 Calls , 8-9 November 2017, Brussels*

- ERA-MIN 2 network: consortium, objectives/activities
- ERA-MIN Joint Call 2017: call statistics
- Future Joint Calls/activities

## ERA-MIN 2. Introduction

- Horizon 2020 ERA-NET Cofund on Raw Materials (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-MIN 2 aims to develop the non-energy and non-agricultural raw materials sector: **construction, industrial and metallic minerals.**

- ERA-NET Cofund:
  - Consortium partners are **research funding organizations** (RFOs; Ministries, national and regional funding agencies).
  - **European Commission grants up to 33% of the national/regional funds committed** by the RFOs in the ERA-NET Cofund Call

# ERA-MIN 2. Consortium

## 21 public research and innovation funding organisations of EU and non-EU countries/regions

The map shows the following organizations linked to their respective regions:

- South America:**
  - Brasil: **Finep 50 anos**
  - Chile: **CONICYT** (Comisión Nacional de Investigación Científica y Tecnológica)
  - Argentina: **Ministerio de Ciencia, Tecnología e Innovación Productiva, Presidencia de la Nación**
- Africa:**
  - South Africa: **science & technology** (Department of Science and Technology, REPUBLIC OF SOUTH AFRICA)
- Europe & Asia:**
  - Ireland: **Geological Survey** (Suirbhíreacht Gheolaíochta, Ireland | Éireann)
  - Belgium: **ADEME** (Agence de l'Environnement et de la Matière de l'Énergie)
  - France: **ANR** (Agence Nationale de la Recherche)
  - Germany: **fwo** (Opening new horizons)
  - Poland: **FLANDERS INNOVATION & ENTREPRENEURSHIP** (State of the Art)
  - Sweden: **VINNOVA**
  - Finland: **Tekes**
  - Spain: **FCT** (Fundação para a Ciência e a Tecnologia, Ministério de Ciência, Tecnologia e Inovação)
  - Portugal: **Ade** (Agencia de Innovación, Financiación e Internacionalización Empresarial)
  - Italy: **CDTI** (Centro para el Desarrollo Tecnológico Industrial)
  - Slovenia: **REPUBLICA SLOVENIJA, MINISTRSTVO ZA IZOBRAŽEVANJE, ZNANOST IN ŠPORT**
  - Romania: **PTJ** (Proiecteaza 2020, Forschungszentrum Jülich)
  - Turkey: **UBİTAK** (THE SCIENTIFIC AND TECHNOLOGICAL RESEARCH COUNCIL OF TURKEY)
  - Other: **BR** (The National Centre for Research and Development)

## ERA-MIN 2 activities / objectives:

### Co-funded Call 2017

- EU co-funding: ca. **5 M€**
- Total call budget ca. **15 M€**
  
- Launch: **1<sup>st</sup> February 2017**
- Funding decision: **Jan. 2018**
- Projects start: **1<sup>st</sup> May 2018**
  
- **Centralised peer-review** based on the H2020 evaluation criteria: 1) Excellence, 2) Impact and 3) Implementation.
- Selection of projects following a **ranking list** recommended by the Scientific Evaluation Board.

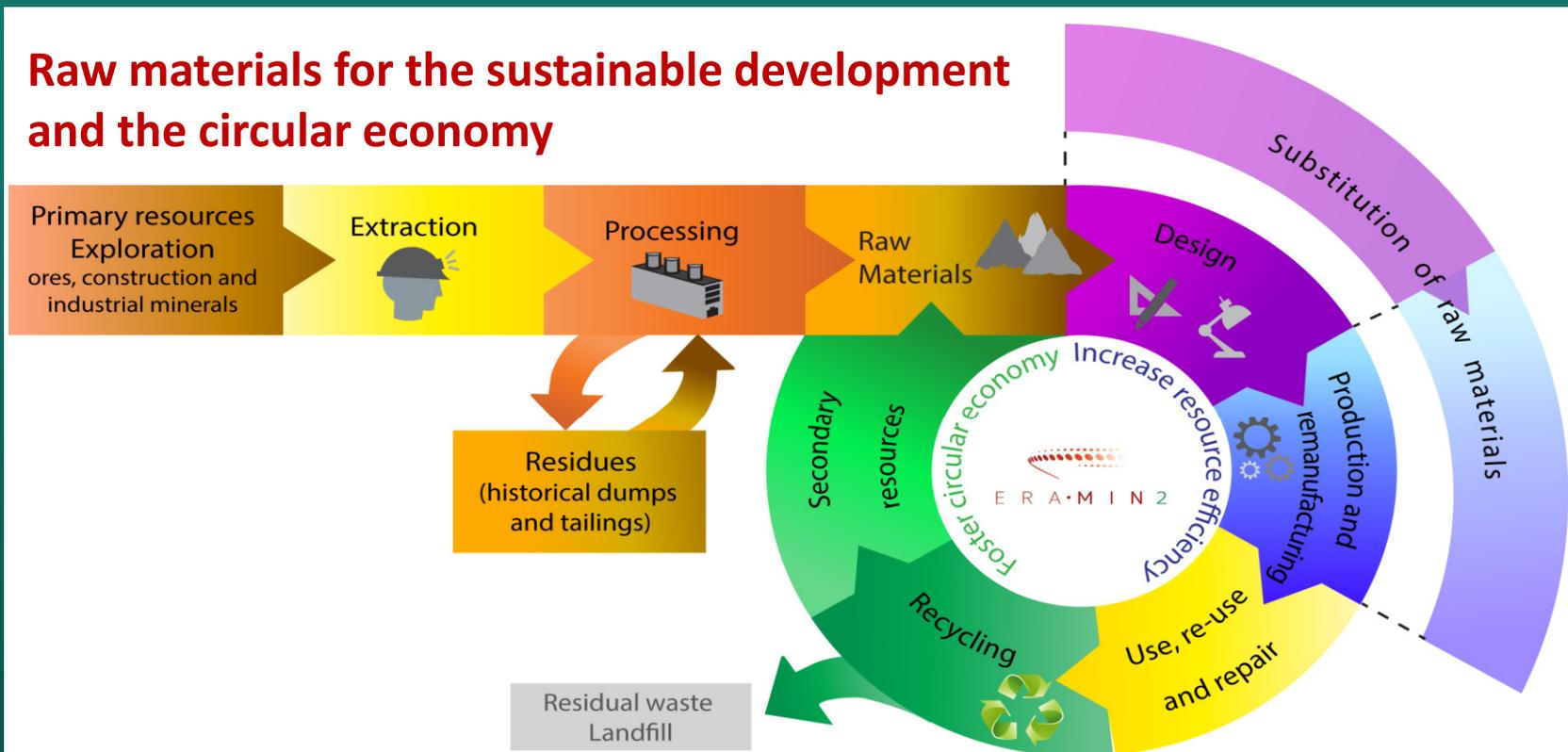
### Additional Objectives/activities

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

## ERA-MIN Joint Call 2017 at a glance

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.

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



## 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 at a glance

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

- **National/regional funding rules and regulations apply:**
  - Not all **topics and sub-topics** are supported by all funding organisations
  - Eligible **partners** are from academia, industry, SMEs, NGOs, public authorities from the participating countries/regions
  - Eligible **type of research**: fundamental and applied research (Technology Readiness Level TRL between 1 and 9)

## ERA-MIN Joint Call 2017 at a glance

A project consortium had to include, at least, **two** independent legal entities eligible to request funding of, at least, **two different EU Member States** or EU Associated Countries participating in the Call.

Applicants not requesting funding could be partners of the consortium, on the condition that they provided evidence of the availability of their own funds.

Consortia of 2 to 11 partners from 2 to 8 countries (minimum-maximum)

80% **academia-industry** partnerships (were particularly encouraged to apply)  
Other types of consortia (e.g. purely industrial or academic) have also applied.

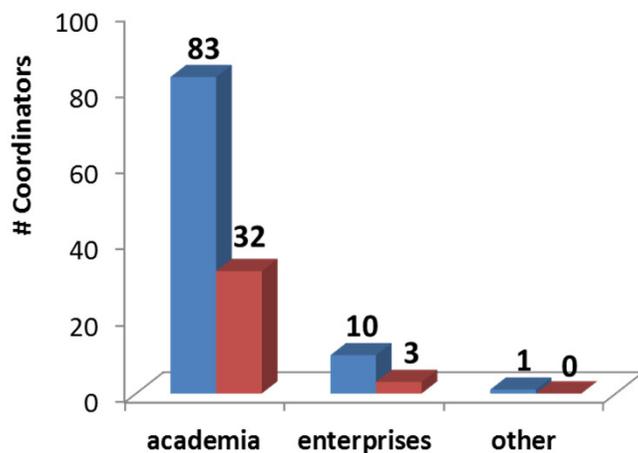
The **total costs** of a proposal was in the range of **350,000 Euros** and **2 million Euros**

The total **requested funding** of a proposal was typically in the range of **300,000 Euros** and **1.5 million Euro**

**Project duration:** between 18 and 36 months

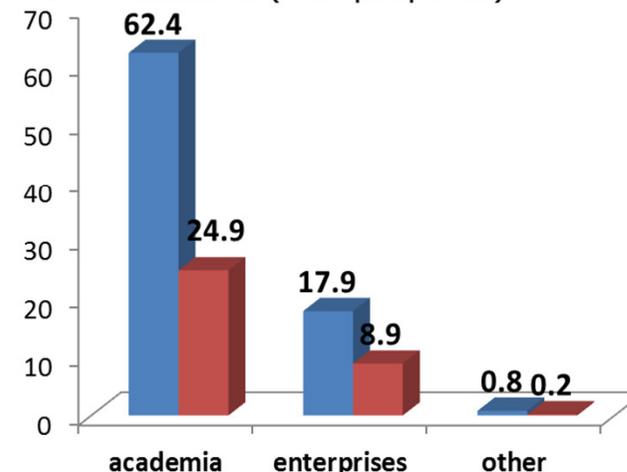
## ERA-MIN Joint Call 2017 – proposals submission

**94 Pre-proposals**  
**35 Full-proposals**



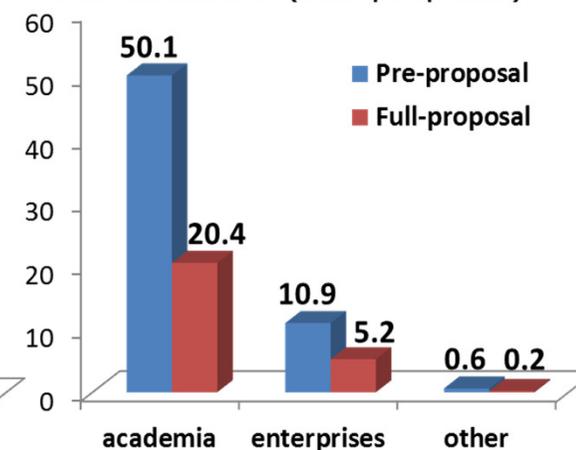
**Total costs:**

81.2 million € (Pre-proposal)  
34 million € (Full-proposal)



**Requested funding:**

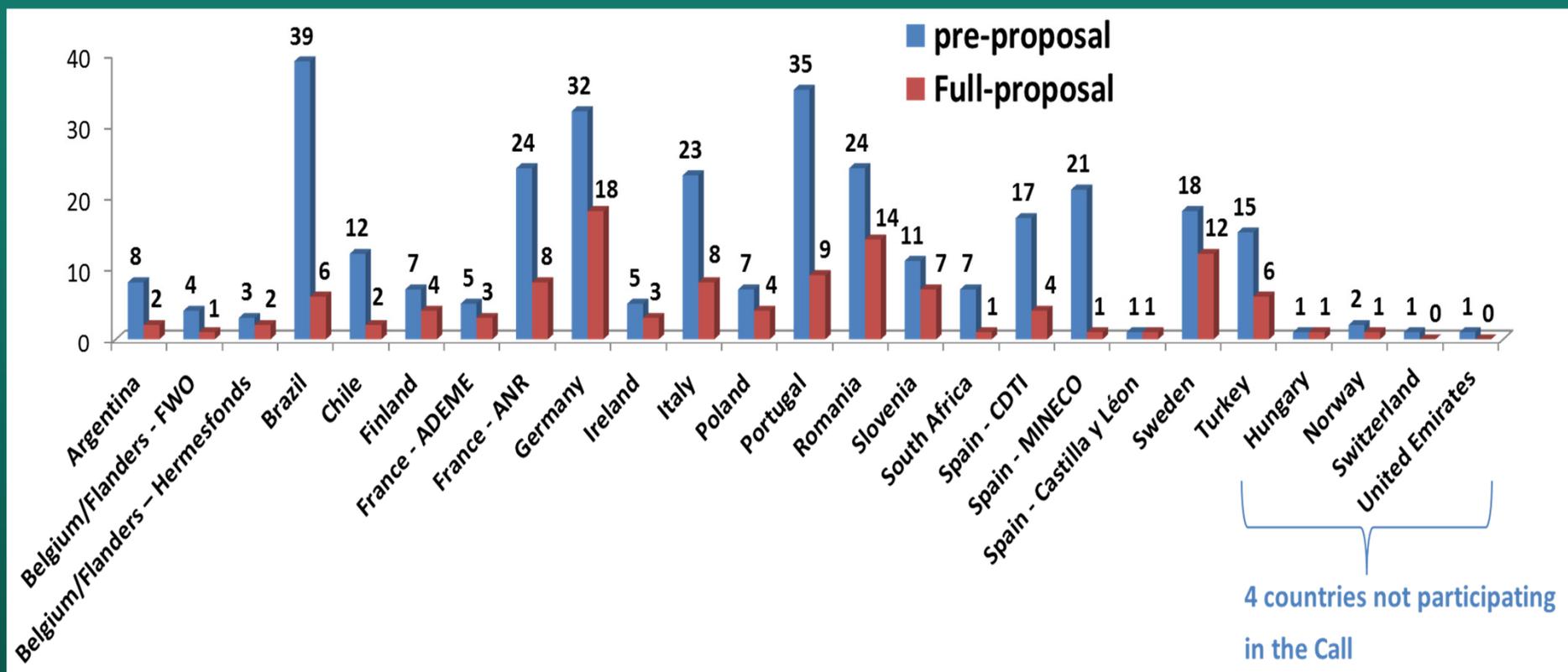
61.7 million € (Pre-proposal)  
25.7 million € (Full-proposal)



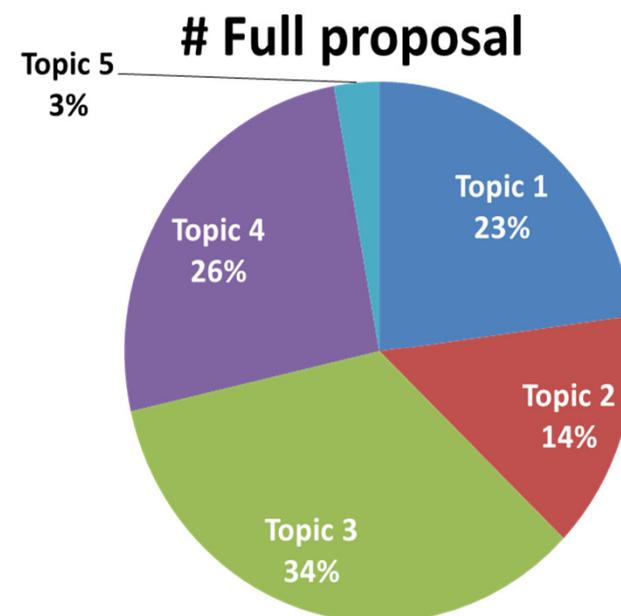
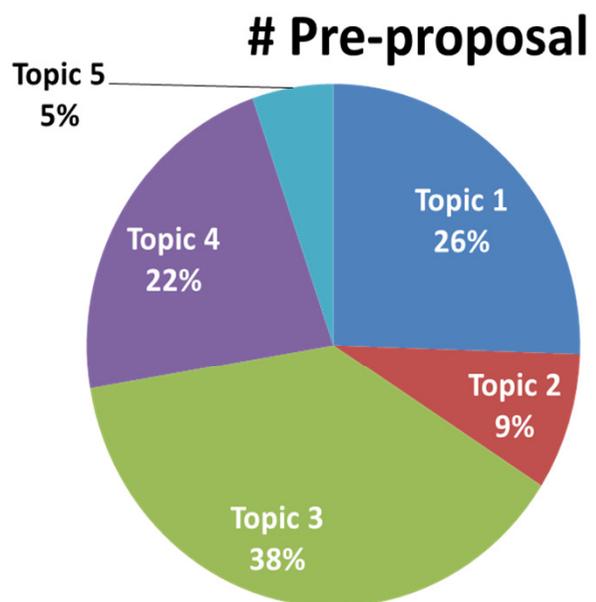
**94** Pre-proposals involving **493** applicants ( **27% enterprises**)

**35** Full-proposals involving **186** applicants (**33 % enterprises**)

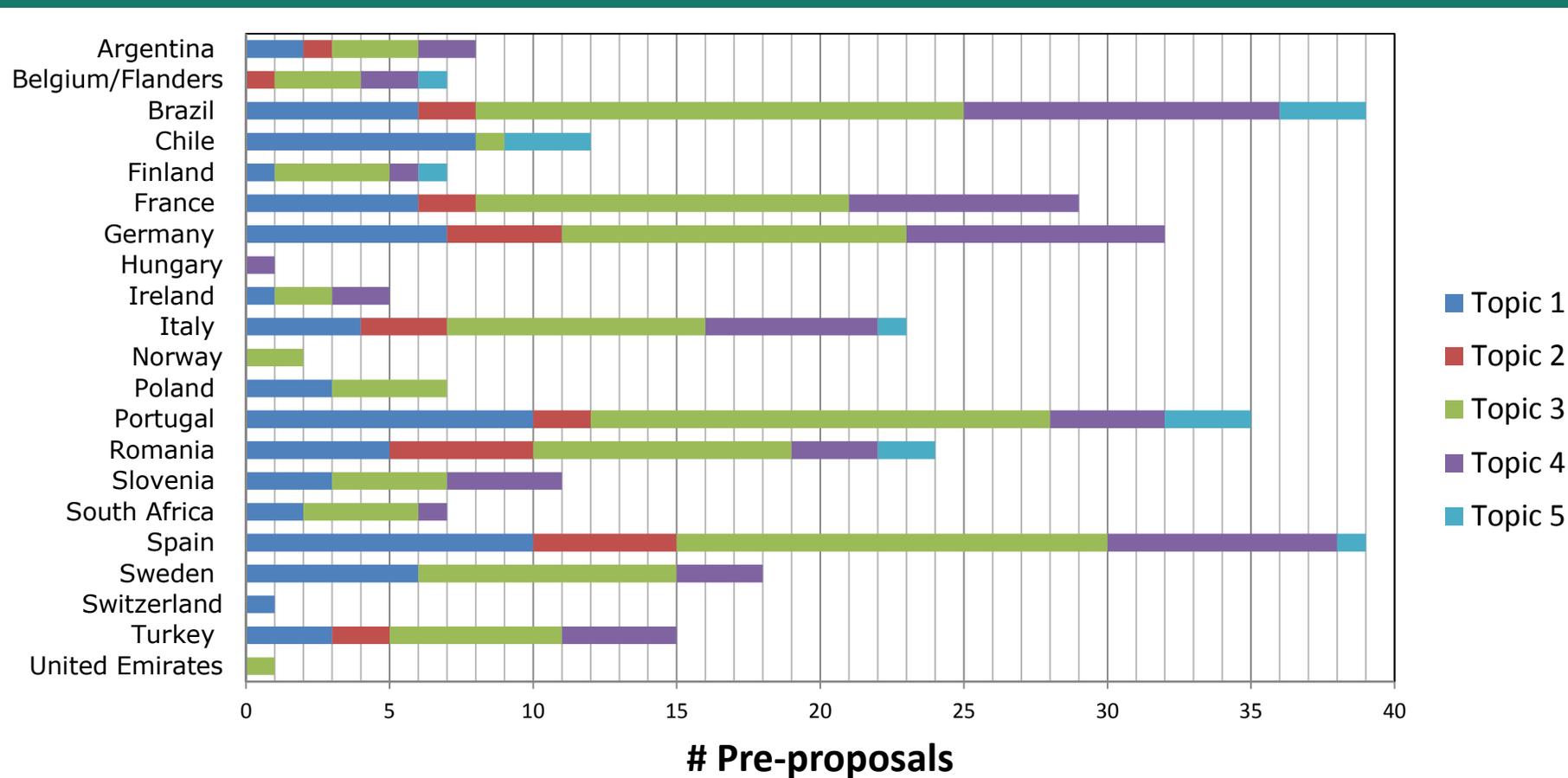
## ERA-MIN Joint Call 2017 – proposals submission by country



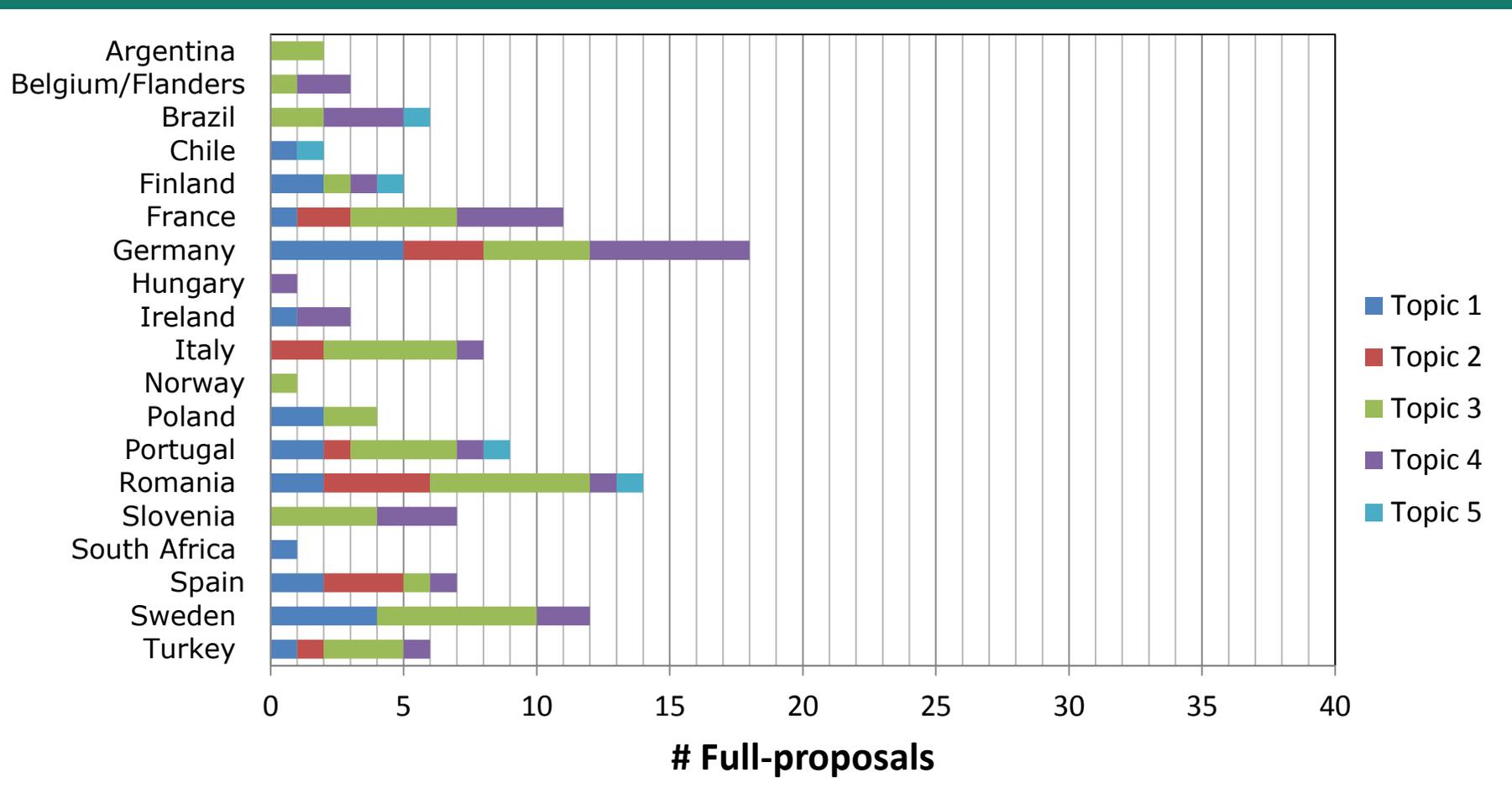
## ERA-MIN Joint Call 2017 – proposals submission by call topic



## ERA-MIN Joint Call 2017 – Call topics addressed in each country (pre-proposals)



## ERA-MIN Joint Call 2017 – Call topics addressed in each country (full-proposals)



## Future joint calls/activities

### **JUNE 2018**

**Launch of the second joint call for R&I international projects**

### **DECEMBER 2019**

**Launch of the third joint call for R&I international projects**

### **2017-2021**

Organise joint workshops with the funded R&D projects and matchmaking events with other Ministries and funding agencies

## HOW CAN YOU GET INVOLVED

### **As a researcher from academia, SME, industry, NGO or public authority**

- Apply, as coordinator or partner, in a transnational consortium to 2018 and 2019 ERA-MIN Joint Calls
- Apply as reviewer for the scientific peer-review of international R&D projects

### **As a Research Funding Organisation (Ministry or Agency) from European or non-European country or region**

- Join the 2018/2019 joint calls for transnational R& projects to support the internationalization of the researchers from your country or region

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

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

### **As a raw materials initiative, Horizon 2020 project, industrial association or international body**

- Liaison with ERA-MIN 2 activities to ensure complementarity and avoid duplication of efforts

Thank you for your attention!



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