



ERA-MIN 2

RESEARCH & INNOVATION PROGRAMME ON RAW MATERIALS
TO FOSTER CIRCULAR ECONOMY

ERA-MIN JOINT CALL 2019 STATISTICS



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of the European Union



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RESEARCH & INNOVATION PROGRAMME ON RAW MATERIALS
TO FOSTER CIRCULAR ECONOMY

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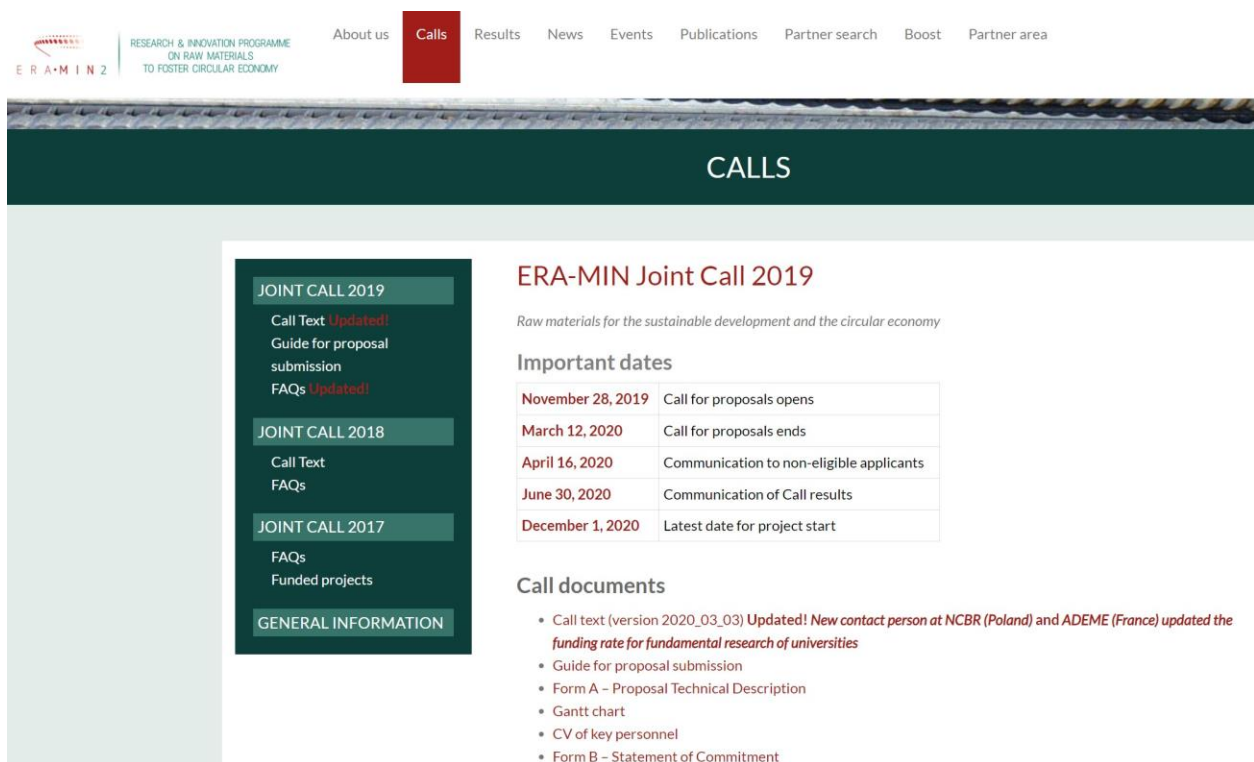
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1 INTRODUCTION

A total of 19 funding organisations participated in the third **ERA-MIN Joint Call 2019** on “*Raw materials for sustainable development and the circular economy*” launched on 15th of November 2019. This call was a one-step submission procedure and considered the lessons learnt from Call 2017 and 2018. A total budget of €10.3 million was committed and the proposal submission deadline was 12th of March 2020. Considering the ranking list of proposals as recommended by the assessments of the Scientific Evaluation Board and the available national and regional public funds, the Call Steering Committee selected 12 transnational R&I projects for funding. The results were communicated on 9th of July 2020 and the projects will start in December 2020 at the latest and run for 24-36 months. More information on the Call topics and procedures is available at a dedicated webpage: <https://www.era-min.eu/joint-call/era-min-joint-call-2019> (Figure 1).



The screenshot shows the ERA-MIN website's 'CALLS' section. The header includes the ERA-MIN 2 logo and navigation links: About us, Calls (highlighted), Results, News, Events, Publications, Partner search, Boost, and Partner area. The main content area is titled 'CALLS' and features a sidebar with links for JOINT CALL 2019, JOINT CALL 2018, JOINT CALL 2017, and GENERAL INFORMATION. The main content area is titled 'ERA-MIN Joint Call 2019' and includes a subtitle 'Raw materials for the sustainable development and the circular economy'. It features a table of 'Important dates' and a list of 'Call documents'.

Date	Event
November 28, 2019	Call for proposals opens
March 12, 2020	Call for proposals ends
April 16, 2020	Communication to non-eligible applicants
June 30, 2020	Communication of Call results
December 1, 2020	Latest date for project start

- Call text (version 2020_03_03) **Updated!** *New contact person at NCBR (Poland) and ADEME (France) updated the funding rate for fundamental research of universities*
- Guide for proposal submission
- Form A – Proposal Technical Description
- Gantt chart
- CV of key personnel
- Form B – Statement of Commitment

Figure 1. ERA-MIN website

This report contains the call statistics.

2 CALL STATISTICS

The **ERA-MIN Joint Call 2019** was focused on needs-driven research on non-energy, non-agricultural raw materials (metallic, construction and industrial minerals), with a circular economy approach.

The five main topics of the call were based on the challenges and priorities identified in the ERA MIN Research Agenda covering both primary and secondary resources and substitution of Critical Raw Materials. Each main topic had several sub-topics, the project proposals addressed one main topic each and reported what sub-topic the proposal was related to. Proposals could relate to more than one sub-topics outside the main topic addressed.

1. Supply of raw materials from exploration and mining;

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

2. Design;

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

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 remanufacturing of used products and components
- 3.3. Increase resource efficiency using information and communication technologies (ICT)

4. Recycling and Re-use of End-of-Life products;

- 4.1. End-of-life products collection and (reverse) logistics
- 4.2. End-of-life products pre-processing: pre-treatment, dismantling, sorting, characterisation
- 4.3. Recovery of raw materials from End-of-life products
- 4.4. Increase recycling of End-of-Life products through information and communication technologies (ICT)

5. Cross-Cutting Topics.

- 5.1. New business models (implementing circular economy aspects)
- 5.2. Improvement of methods or data for environmental impact assessment
- 5.3. Social acceptance and trust/public perception of raw materials

The Joint Call topics are in line with the integrated strategy proposed in the EU Raw Materials Initiative, the Strategic Implementation Plan of the European Innovation Partnership on Raw Materials and the EU Circular Economy Package.



2.1 STATISTICS OF SUBMITTED PROPOSALS

The Joint Call was a one-stage submission process and resulted in the submission of 38 proposals. After an eligibility check for compliance with both ERA-MIN 2 rules and national/regional regulations, 29 proposals were selected and sent to a centralised independent international scientific assessment, the Scientific Evaluation Board (SEB).

The submitted 38 proposals involved 203 applicants, of which 56 were enterprises (28%), requesting around €24 million of total public funds and total costs of €32 million (Figure 2). In the following graphs the different types of organisations applying in the call have been grouped into Academia (universities and research organisations), Enterprises and Other (including consultants and non-profit organisations).

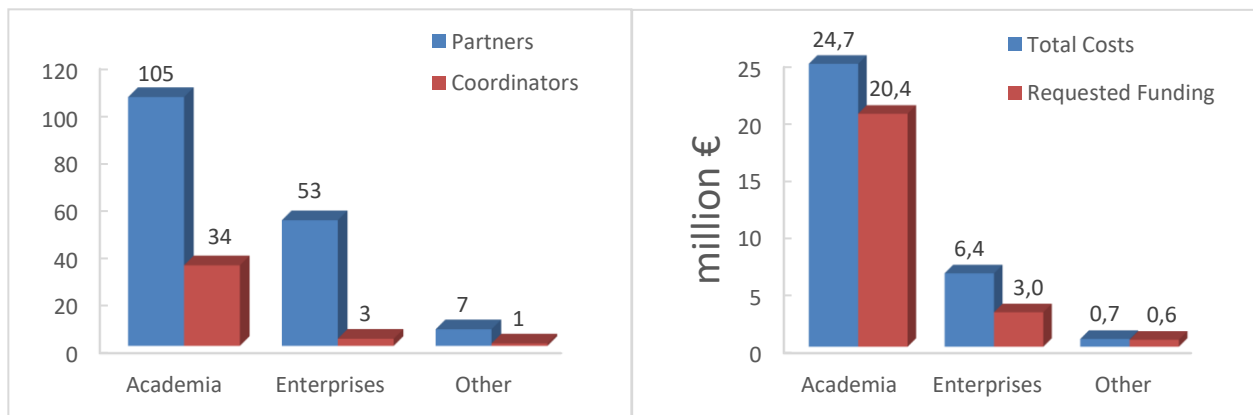


Figure 2. Number of coordinators and partners, total costs and requested funding by type of organisation: academia, enterprises and other, for all submitted applications.

In Figure 3, the distribution of the applicants (coordinators and partners) by country or region/funding organisation is presented.

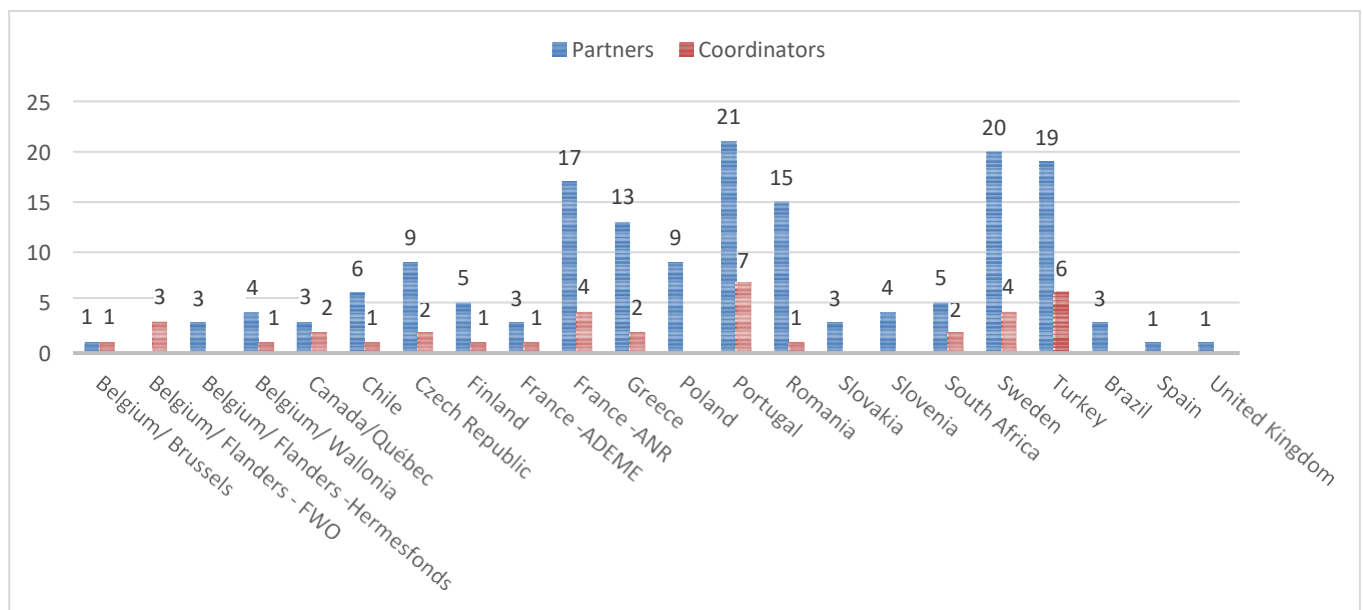


Figure 3 - Number of coordinators and partners in submitted proposals per country/region.

Figure 4 shows the main topics addressed by the submitted proposals. Main topic 1 *Supply of raw materials from exploration and mining* and main topic 5 *Cross-cutting topics* were the ones most addressed in the call while main topic 2 *Design* is the least addressed.

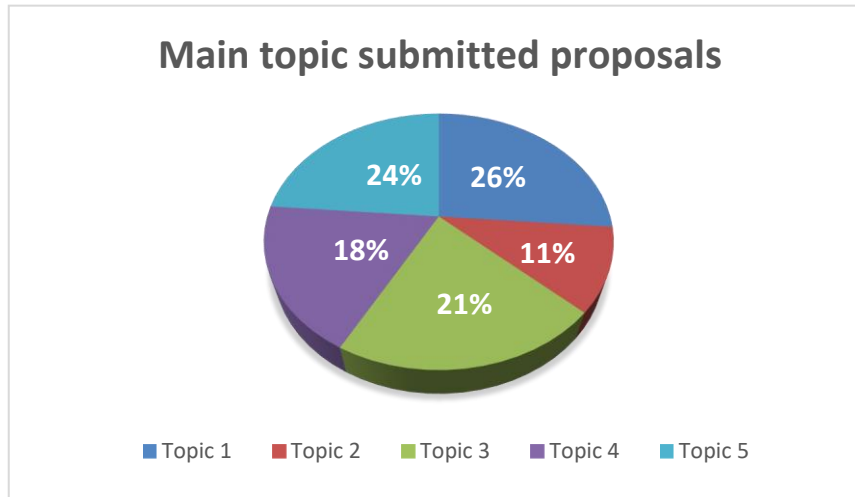


Figure 4- Percentage of each main topic addressed in submitted proposals.
Topic 1: *Supply of raw materials from exploration and mining*, topic 2: *Design*, topic 3: *Processing production and remanufacturing*, topic 4: *Recycling and reuse of End-of-Life products*, topic 5: *Cross-cutting topics*.

The distribution of the main topic addressed by the submitted proposals per funding organisation and country is shown in Figure 5.

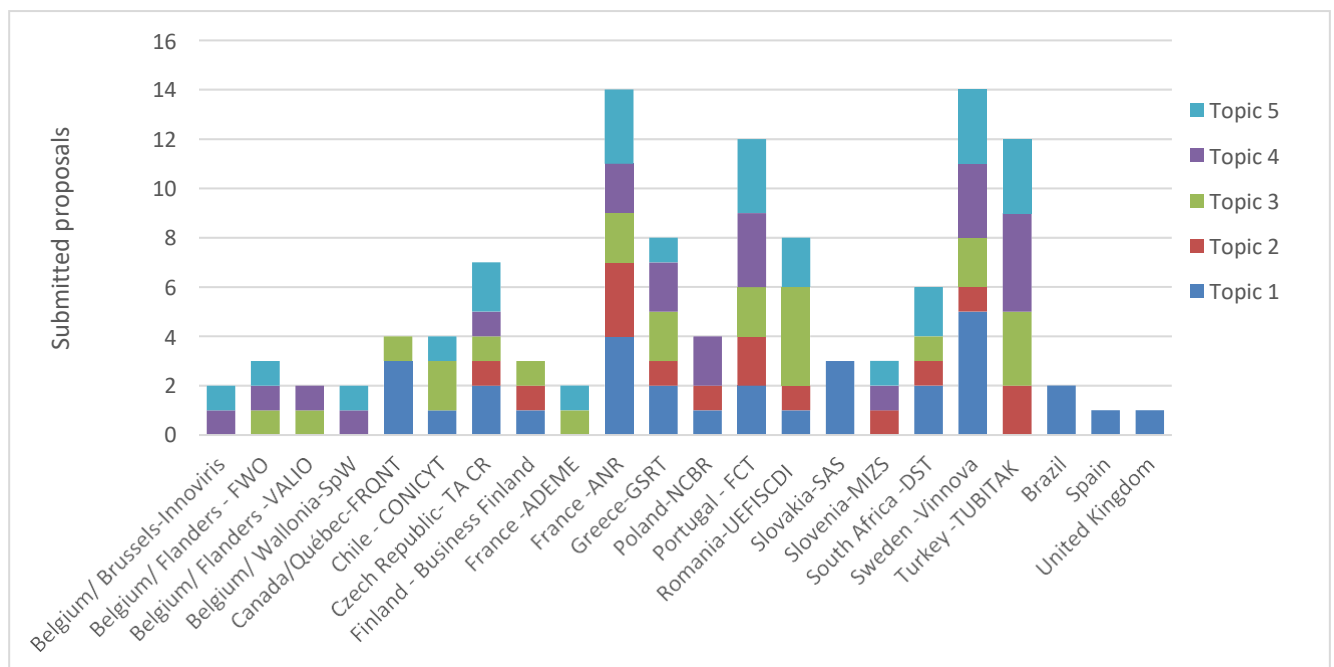


Figure 5. Main topic addressed by submitted proposals in each country/region/funding organisation.

The distribution of requested funding by submitted project proposals compared to the indicative national/regional committed funds by the participating countries/regions can be seen in Figure 6.

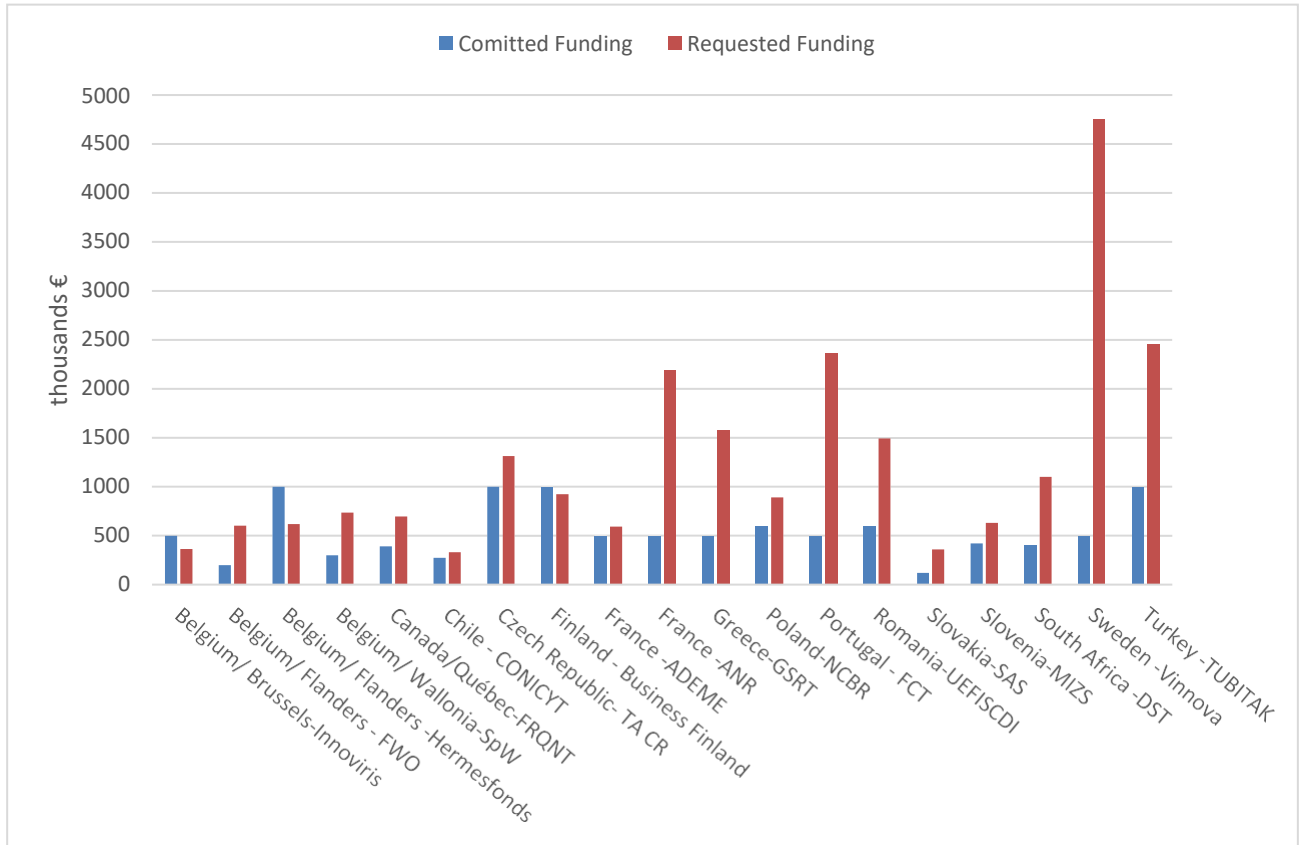


Figure 6- Requested funding by submitted project proposals compared to the committed funding per funding organisation.

2.2 STATISTICS OF FUNDED PROJECTS

The overall success rate of the ERA-MIN Joint Call 2019 is 31.6 % (12/38) but varies for the funding organisations. All the information on the statistics of the ERA-MIN Joint Call is public and available at the ERA-MIN 2 website under the “Publications” menu.

12 transnational projects were selected and recommended for funding out of 29 eligible peer-reviewed proposals. These projects involved a total of 67 organisations of which 25 were enterprises. The total allocated public funding was €8.5 million and the total projects’ costs were €12.4 million.

These 12 projects are funded by 18 out of 19 participating funding organisations.

Figure 7 shows the distribution of project coordinators and partners by type of organisation, grouped in Academia (universities and research organisations), Enterprises and Other (including consultants and non-profit organisations)

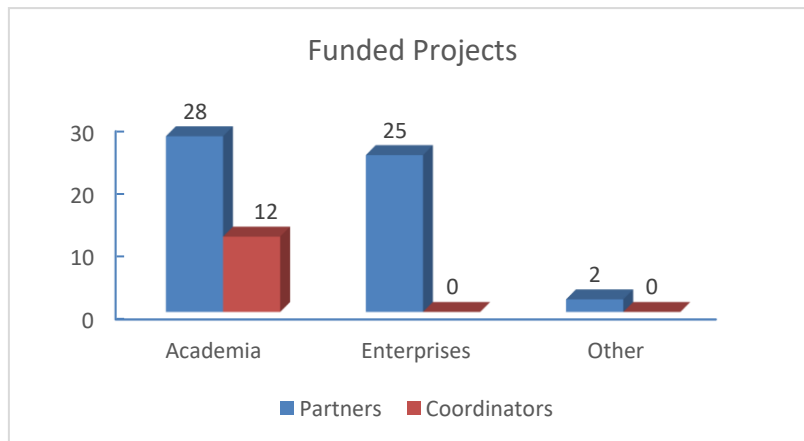


Figure 7 - Number of coordinators and partners in funded projects by type of organisation.

Figure 8 presents the distribution of totals costs and requested funding by type of organisation.

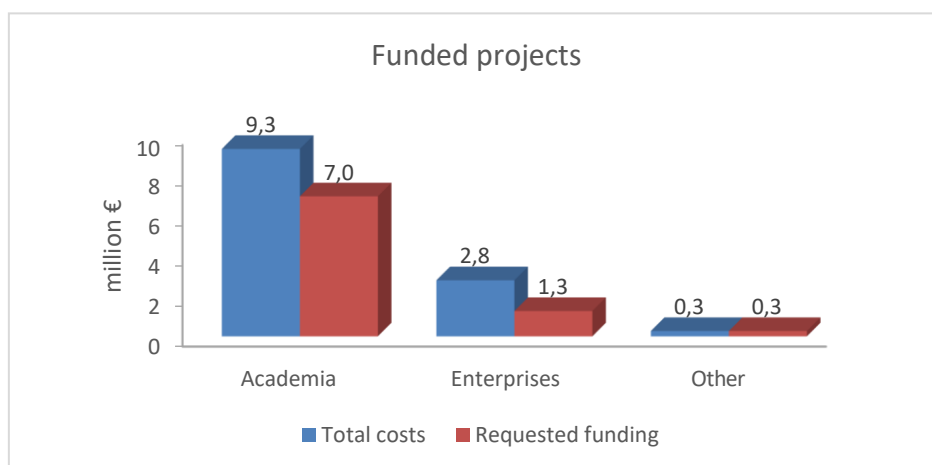


Figure 8 – Distribution of total costs and requested funding by type of organisation.

The 12 selected projects are funded by 18 public research and innovation funding organisations of 11 EU countries, 1 EU Associated Country and 2 non-EU countries. The number of transnational projects supported by each funding organisation from a country or region is presented in Figure 9.

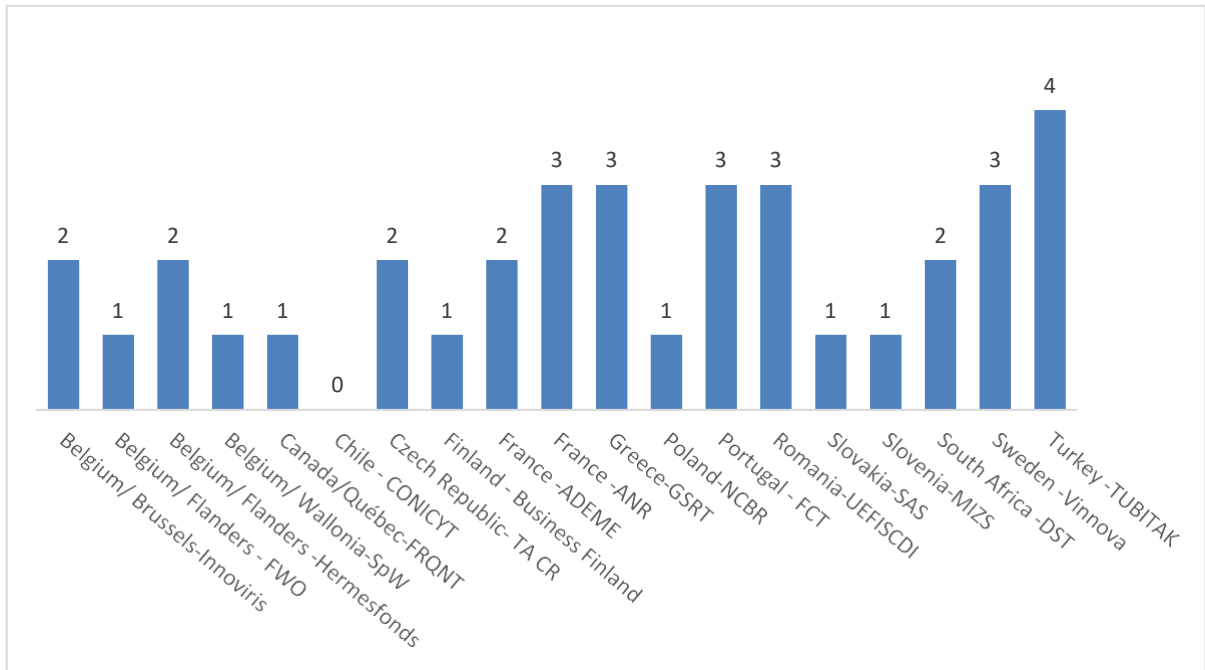


Figure 9 – Number of funded projects by funding organisation.

Figure 10 shows the number of partners and coordinators in the funded projects distributed by country/region. Two of the funded projects had partners from countries not represented by the funding organisations participating in the Joint Call, one from Brazil and one from United Kingdom.

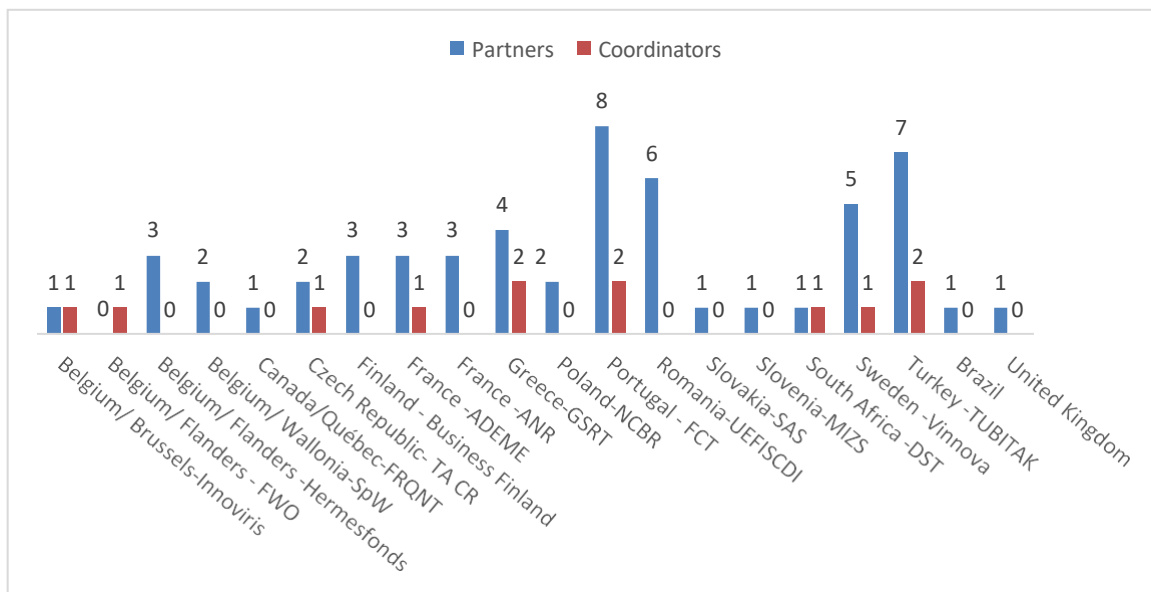


Figure 10 – Number of beneficiaries as coordinator and as partner in funded projects.

The main topic addressed by the 12 funded projects is shown in Figure 11. Topic 3 *Processing, Production and Remanufacturing* was the most addressed area in funded projects. None of the funded projects addressed topic 2 *Design* as the main topic, but the topic is addressed in sub-topics (see Figure 12 and Figure 13.)

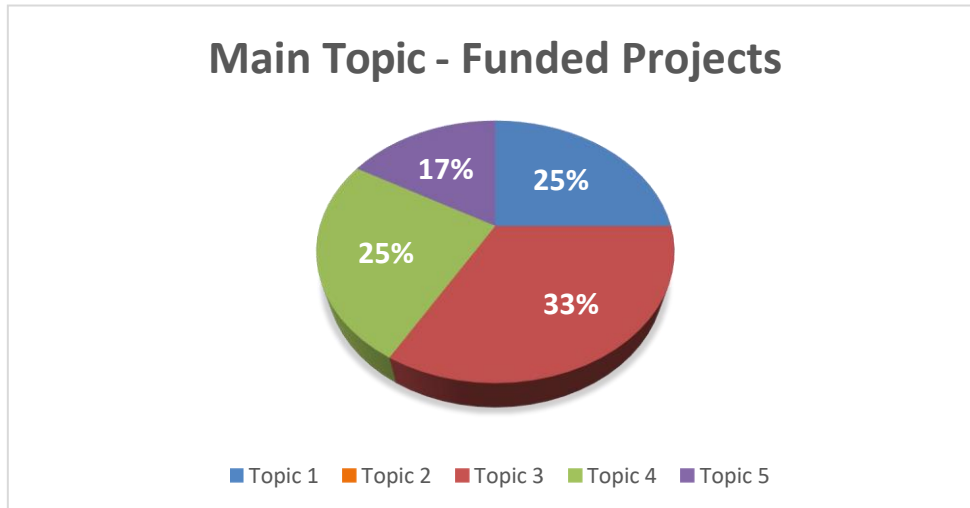


Figure 11 - Main topic in percentages addressed by the 12 funded projects

Each project proposal described what sub-topics it relates to, in addition to the addressed main topic. The proposals could address several sub-topics outside the main topic it addressed. The sub-topics covered by the funded projects is shown in Figure 12. 65 % of the sub-topics (11 out of 17) is addressed by the funded projects. Sub-topic 3.2 *Increase resource efficiency through recycling of residues or remanufacturing of used products and components* is the most addressed sub-topic in the funded projects.

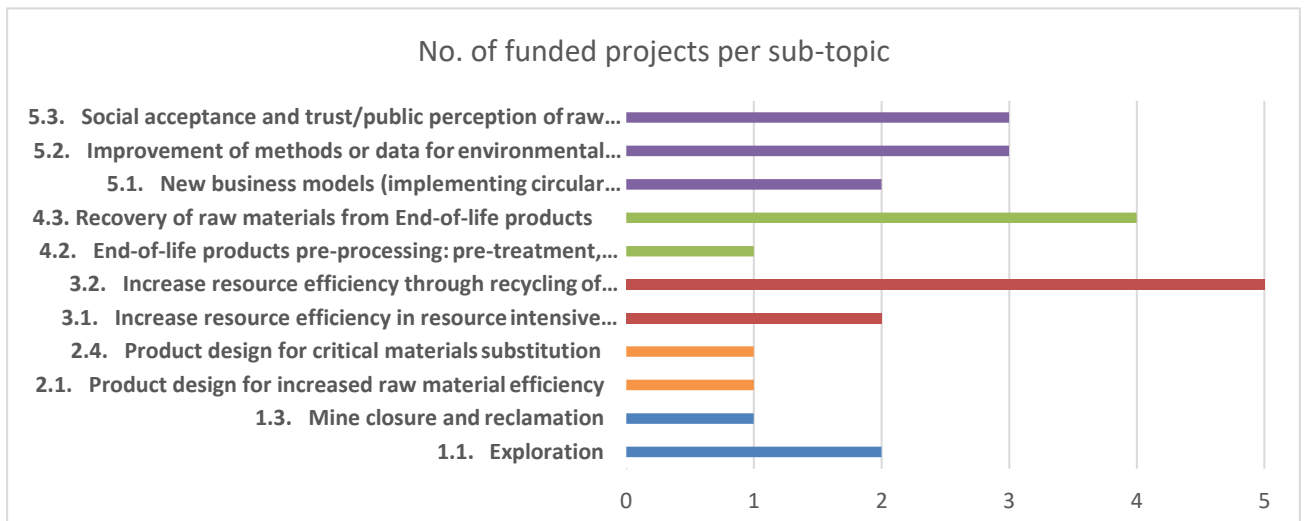


Figure 12 - Sub-topics addressed by the 12 funded projects.

The sub-topics addressed by the funded projects grouped by main topic is shown per country/region/funding organisation in Figure 13.

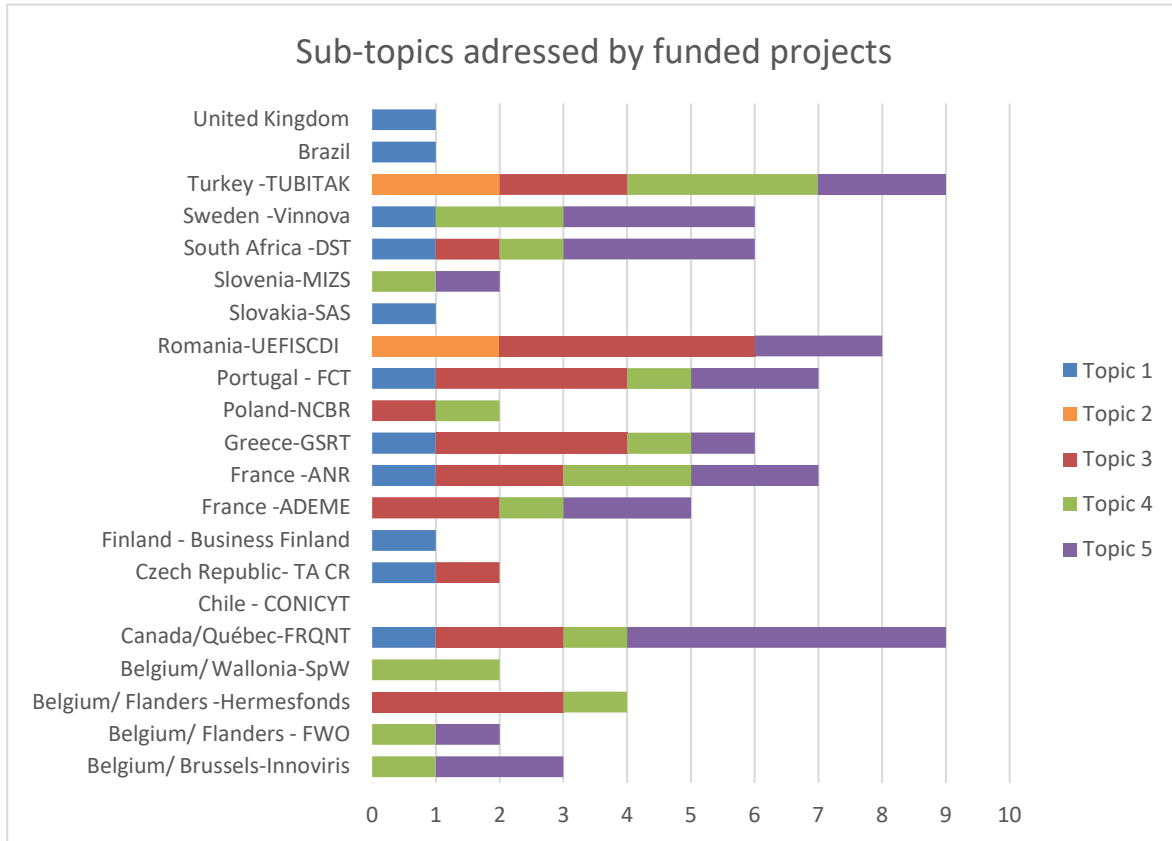


Figure 13 - Sub-topics, grouped by main topic, addressed by funded projects per country/funding organisation

All the information on the statistics of the ERA-MIN Joint Call is public and available at the ERA-MIN 2 website under the “Publications” menu.