

Results of M-ERA.NET Call 2023

The M-ERA.NET Call 2023 was launched on 1 March 2023. 38 funding organisations from 29 countries participated with a preliminary total commitment of 30 million €.

- 382 pre-proposals were submitted, requesting 362 Mio € funding in total.
- 110 pre-proposals were recommended for a full-proposal submission. 110 full-proposals were submitted and 109 were sent to M-ERA.NET central evaluation.
- 101 full-proposals passed the full-proposal evaluation, requesting around 103 Mio € funding.

Due to the high number of excellent full-proposals, national/regional budget increases were substantially increased. Therefore, the M-ERA.NET consortium was able to finally **selected 43 full-proposals for funding** corresponding to requested funding of **44.0 Mio €**.

These projects are allocated to the call topics as follows:

- Sustainable advanced materials for energy: **15** funded projects
- Functional materials: **10** funded projects
- Innovative surfaces, coatings and interfaces: **6** funded projects
- Advanced materials and technologies for health applications: **5** funded projects
- High performance composites: **5** funded projects
- Next generation materials for advanced electronics: **2** funded projects

The total success rate (selected full-proposals vs total submitted pre-proposals) is 11% (Fig. 1). For the different topics the rates of success vary:

Sustainable advanced materials for energy	15.0%
Functional materials	11.4%
Innovative surfaces, coatings and interfaces	10.3%
Advanced materials and technologies for health applications	8.5%
High performance composites	11.1%
Next generation materials for advanced electronics	6.3%

The success rate for the second stage (selected full-proposals vs. total submitted full-proposals) is 39%.

Sustainable advanced materials for energy	51.7%
Functional materials	40.0%
Innovative surfaces, coatings and interfaces	28.6%
Advanced materials and technologies for health applications	33.3%
High performance composites	71.4%
Next generation materials for advanced electronics	15.4%

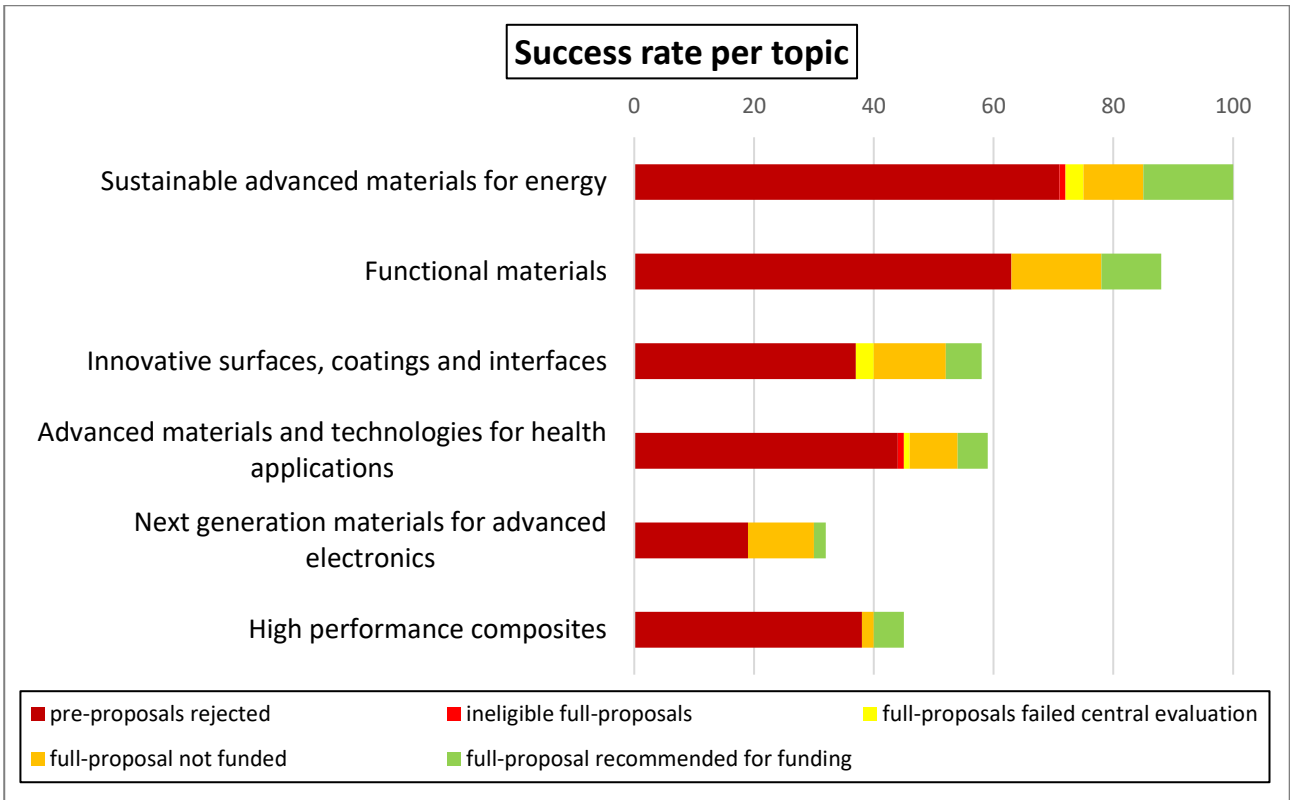


Fig 1: Number of participations: selected full-proposals compared to rejected pre-proposals for all six call topics.

The success rates (selected full-proposals vs total submitted pre-proposals) per organisation type are shown in Fig. 2. The success rate for SMEs is 14.6%, for research organisation 12.0%, for universities 10.6 and for large companies 8.5%.

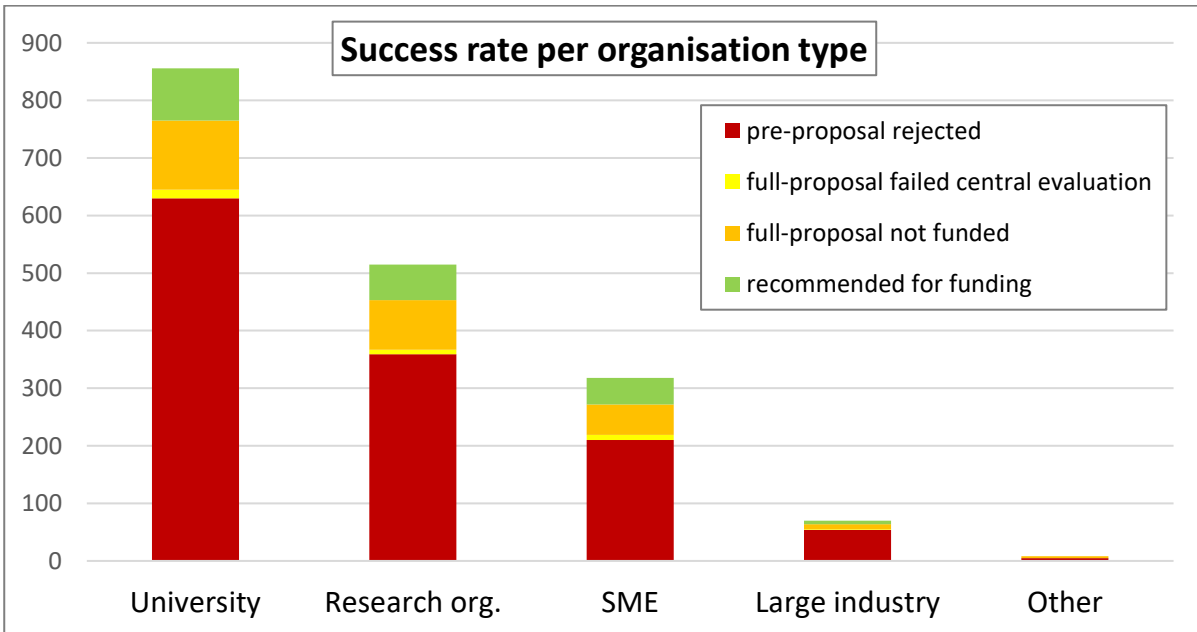


Fig 2: Number of participations: selected full-proposals compared to rejected proposals for all organisation types.

The success rates per individual national/regional funding organisation (number of selected full-proposals vs number of submitted proposals) are shown in Fig. 3.

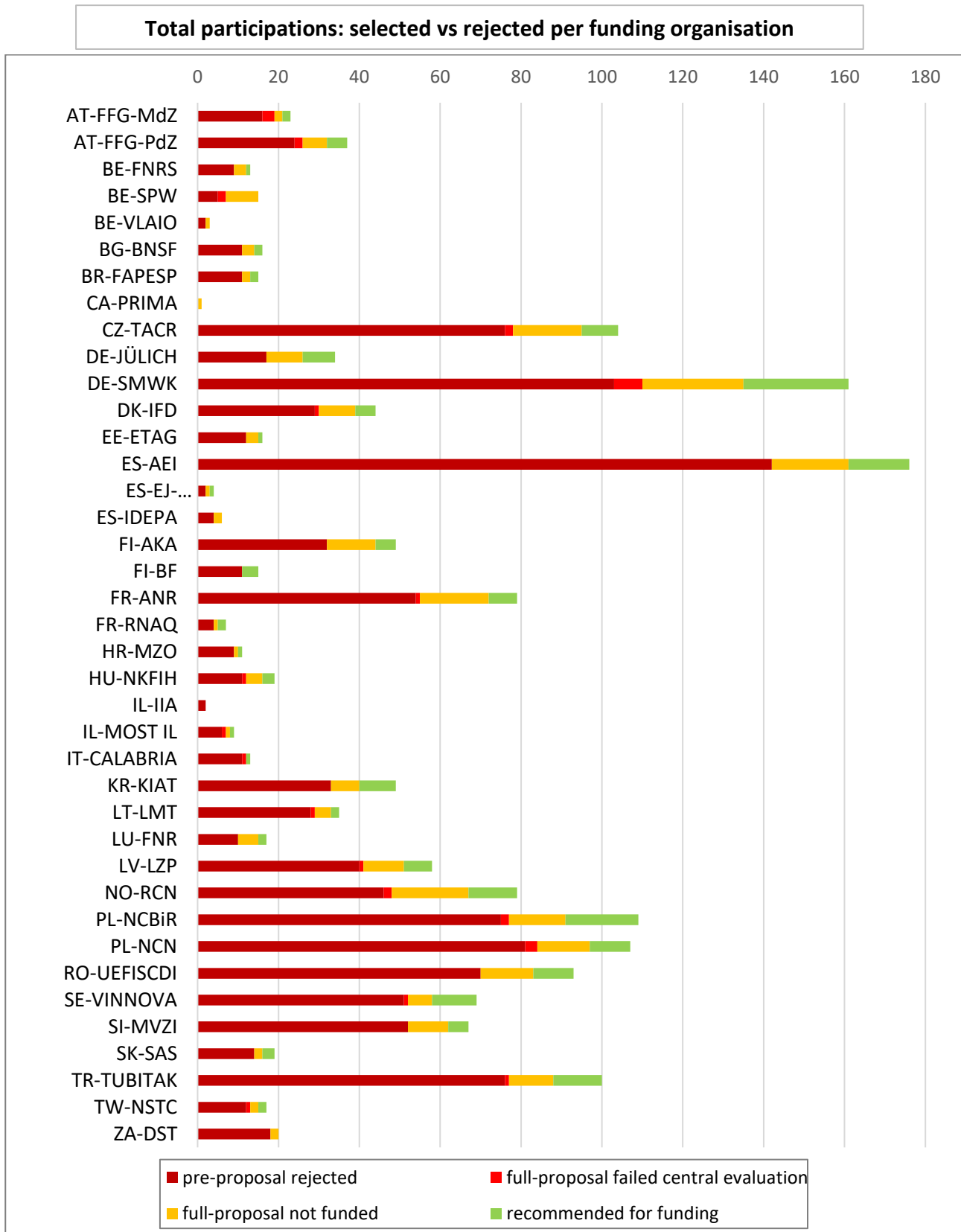


Fig 3.: Total number of participations: success rate from pre-proposal phase to selected full-proposals.

With 11 of the EU-13 (widening) countries (except Malta and Cyprus) participating in the Call 2023, hence researchers from EU-13 countries play a substantial role (fig. 4a-e). 74% of the funded projects include at least 1 research group from an EU-13 country; 35% of the funded applicants and 14% of the project coordinators come from EU-13 countries; 26% of the total project funding is contributed by funding agencies from EU-13 countries.

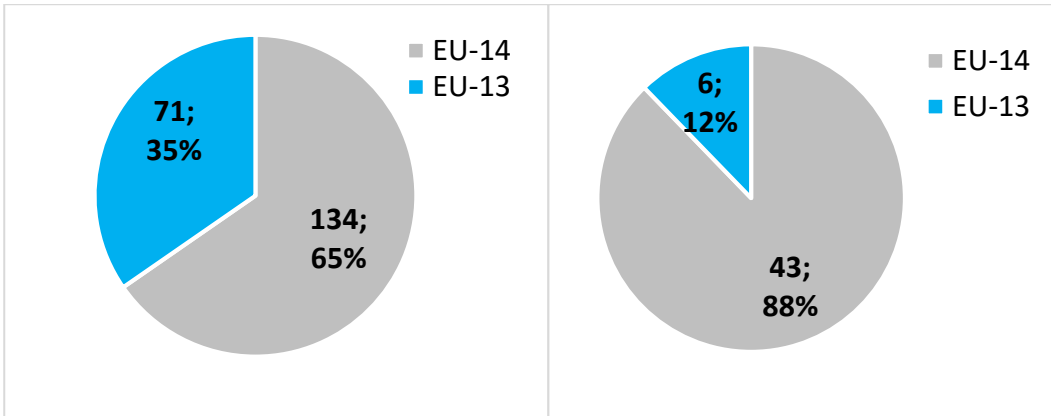


Fig 4a-b: Number of funded applicants (a) and coordinators (b) in selected full-proposals.

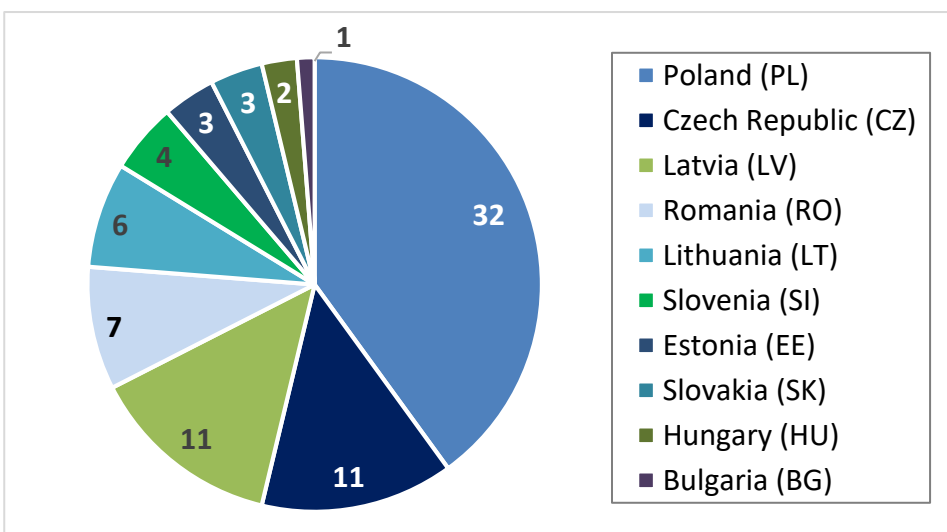


Fig 4c: Number of participants from EU-13 countries per country in selected full-proposals.

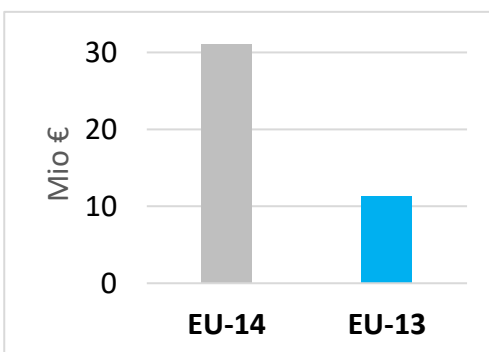


Fig 4d: Total requested funding for selected full-proposals.

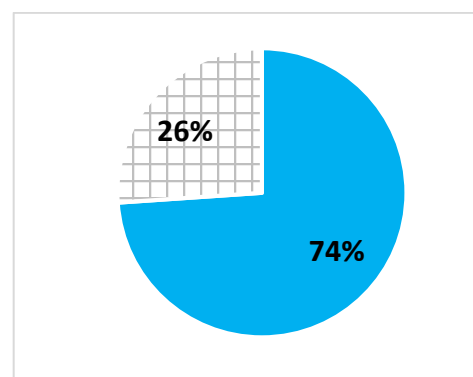


Fig. 4e: 74% of the funded projects include at least 1 research group from EU-13 countries.

The total project volumes and corresponding requested funding per call topic are shown in Fig. 5. The topic with the highest amount of requested funding is the new topic “Sustainable advanced materials for energy” with 16.0 Mio €. This is followed by the topic “Functional materials” with 10.1 Mio €. For the topics “Innovative surfaces, coatings and interfaces”, “High performance composites”, “Advanced materials and technologies for health applications” and “Next generation materials for advanced electronics” 5.8 Mio €, 5.5 Mio €, 4.9 Mio € and 1.5 Mio € funding are requested, respectively.

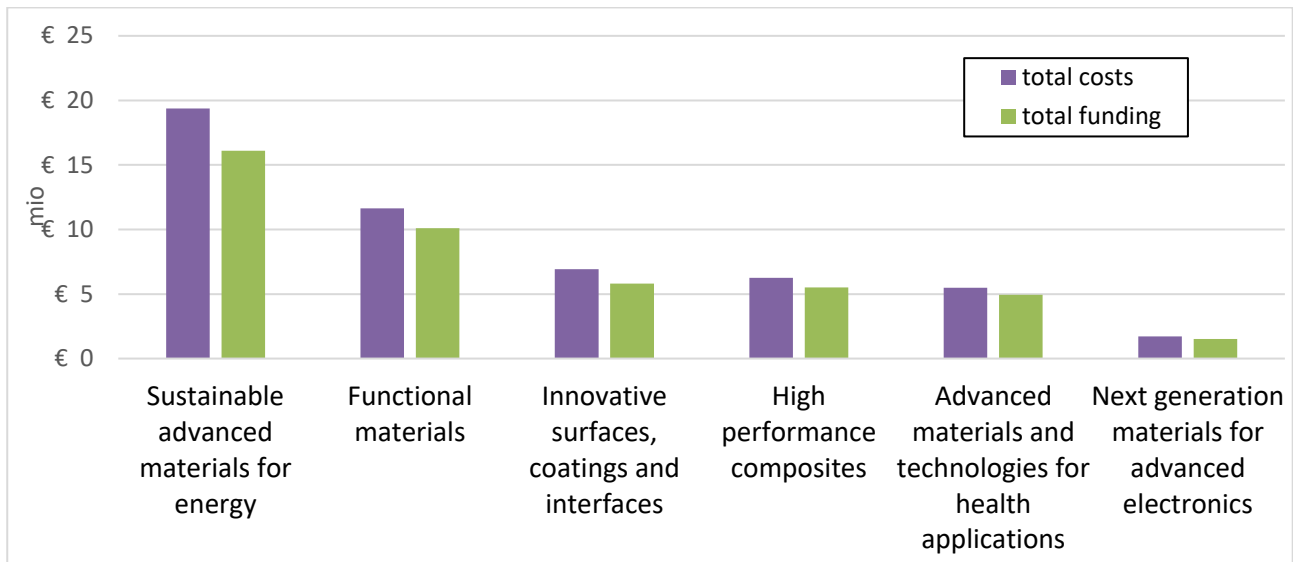


Fig 5.: Selected full-proposals: total project volumes and requested funding (€) per call topic.

The distribution of total project costs and requested funding per organisation type is shown in Fig 6. In the selected full-proposals research organisations (18.8 Mio €) and universities (18.7 Mio €) request the highest amount of funding. A small ratio of 14.6% of the total funding is requested by enterprises and other organisations: 13.1 Mio € funding by SMEs and 1.5 Mio € funding by large enterprises.

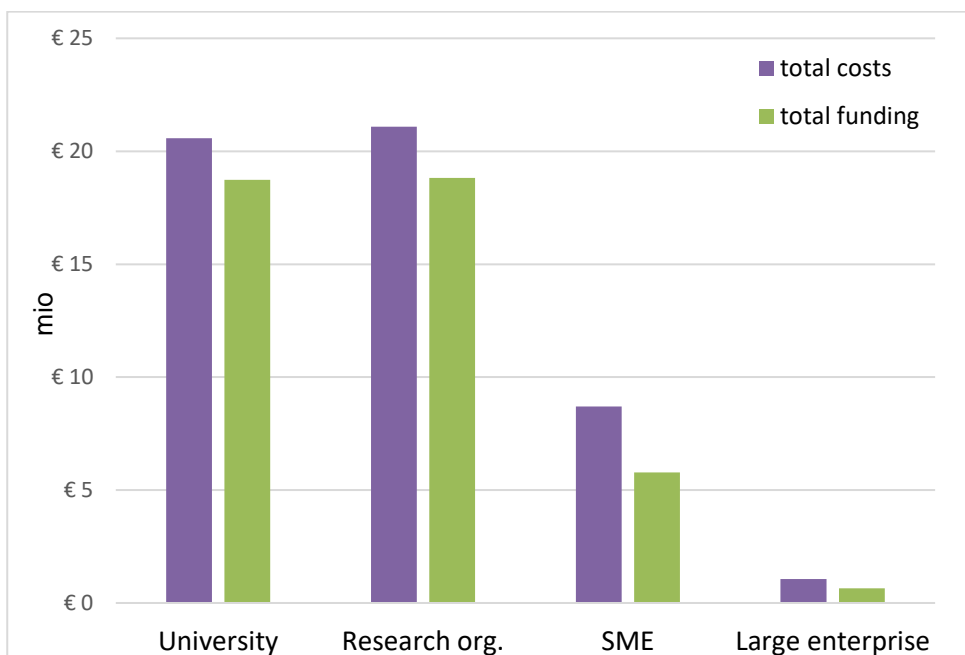


Fig 6.: Selected full-proposals: total requested funding and total planned costs (€) per organisation type.

Out of 43 recommended projects, the majority of the coordinators are from research organisations (22 projects) and universities (19 projects). One project is coordinated by an SME and one by a large company (Fig. 7).

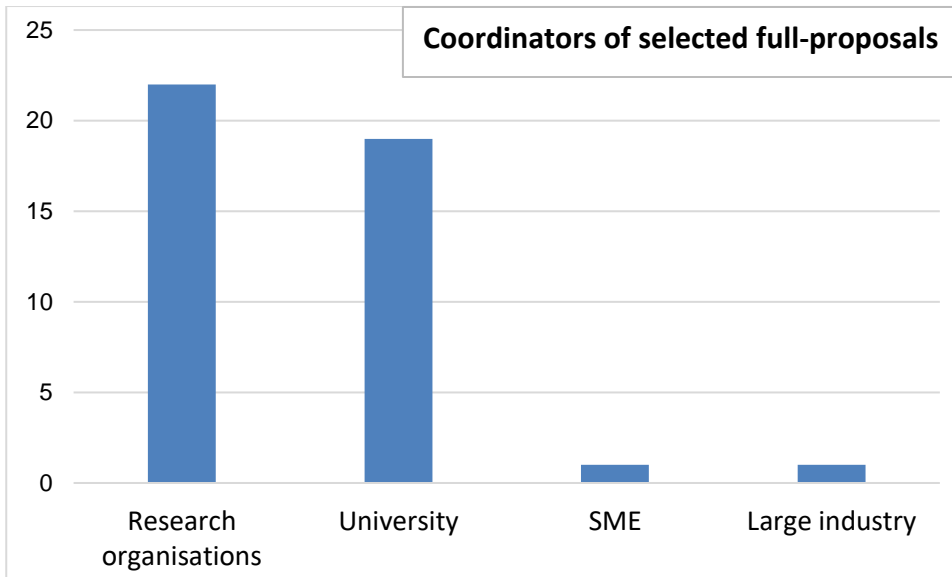


Fig 7: Selected full-proposals: number of coordinators per organisation type.

The selected projects start from Technology Readiness Level (TRL) 1 (basic principles observed) to some extent TRL 4 (technology validated in lab) (Fig. 8).

Most of them start with TRL 2 (technology concept formulated) or TRL 3 (experimental proof of concept).

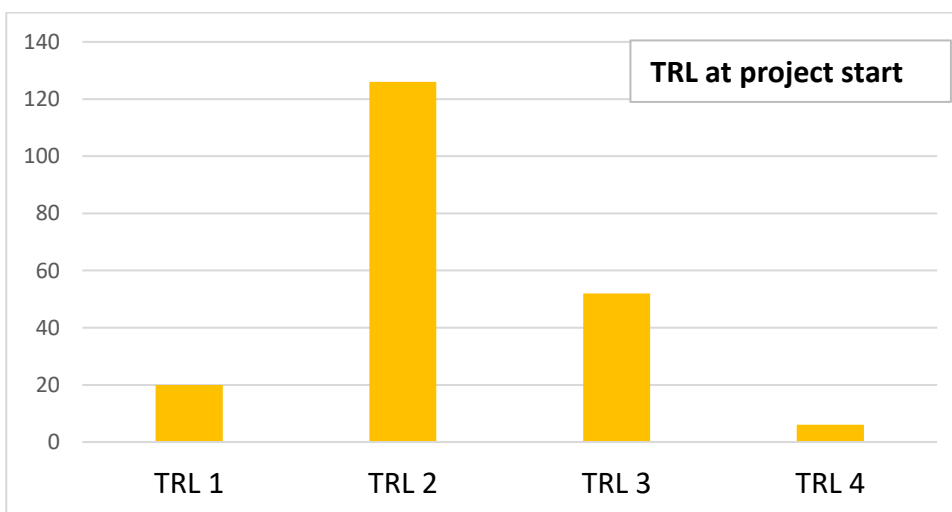


Fig 8: Selected full-proposals: number of applicants per TRL (project start)

The TRL targeted on the end of the project are mainly between TRL 3 and TRL 6 (technology demonstrated in relevant environment), see Fig. 9.

Most projects indicate a two or three step advance of the TRL, resulting in a broad distribution of the end-TRL between TRL 4 (technology validated in lab) and TRL 5 (technology validated in relevant environment).

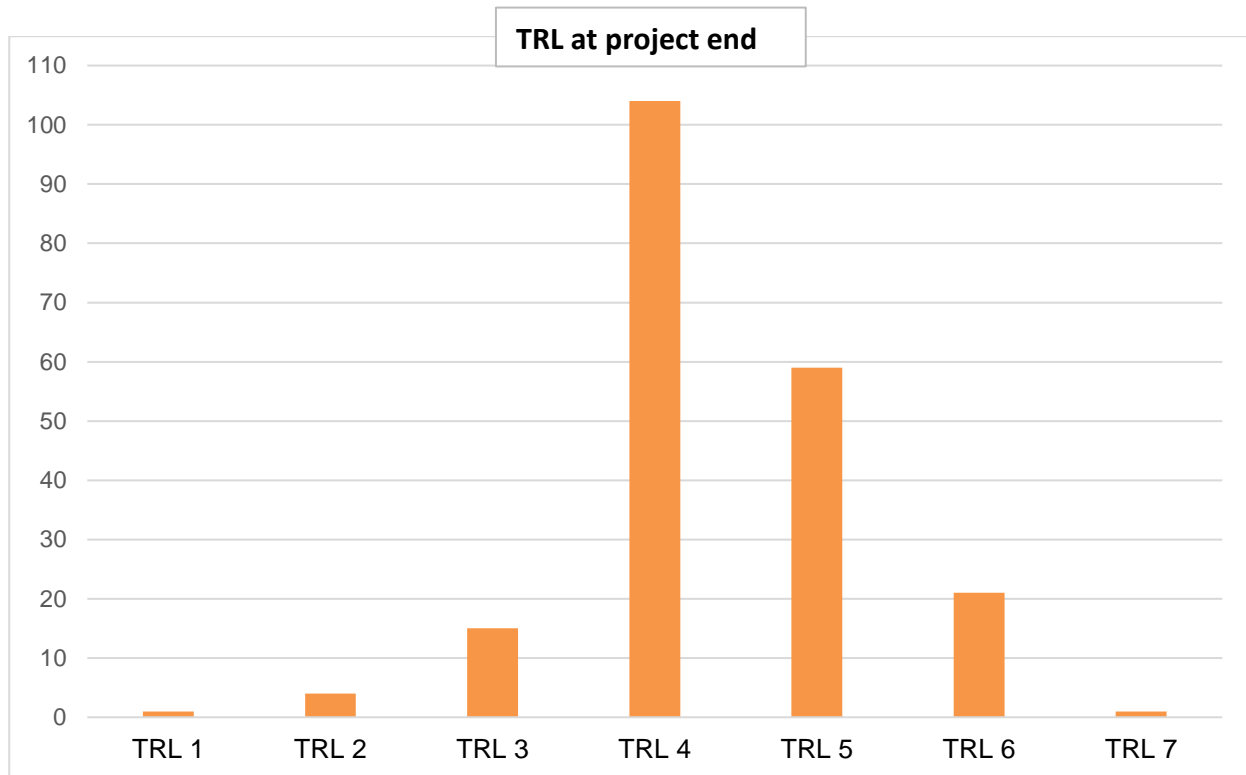


Fig 9.: Selected full-proposals: number of applicants per TRL (project end)

The requested funding of selected full-proposals per funding organisation is illustrated in Fig. 10.

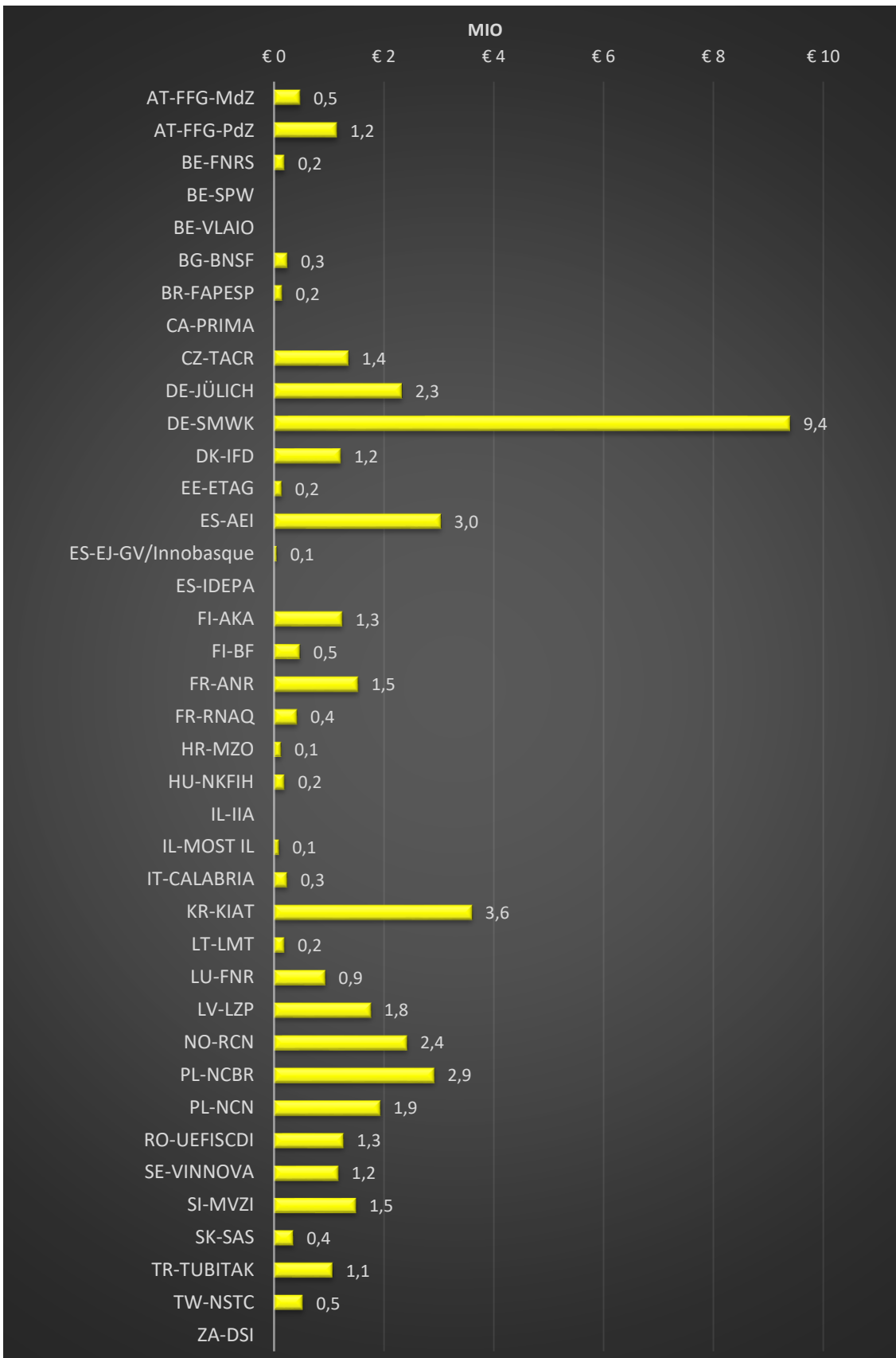


Fig 10: Select full-proposals: requested funding per funding organisation (€).