

Results of M-ERA.NET Call 2022

The M-ERA.NET Call 2022 was launched on 15 March 2022. 34 funding organisations from 30 countries participate with a total budget of approximately 40 million €.

- 289 pre-proposals were submitted, requesting 251 Mio EUR funding in total.
- 129 pre-proposals were recommended for a full-proposal submission. 127 full-proposals were submitted and 125 were sent to M-ERA.NET central evaluation.
- 109 full-proposals passed the full-proposal evaluation, requesting around 100 Mio EUR funding.

Depending on national/regional budgets and rules the national/regional funding organisations finally **selected 46 full-proposals for funding** corresponding to requested funding of 43.7 Mio EUR. **This is the highest amount of selected full-proposals for funding an ERA.NET has ever achieved in a non-cofunded call.**

These projects are allocated to the call topics as follows:

- Materials for energy: **11** funded projects
- High performance composites: **10** funded projects
- Innovative surfaces, coatings and interfaces: **9** funded projects
- Functional materials: **9** funded projects
- New strategies for advanced material-based technologies in health applications: **4** funded project
- Materials for electronics: **3** funded projects

The total success rate (selected full-proposals vs total submitted pre-proposals) is 17.7 % (Fig. 1). For the different topics the rates of success vary:

| | |
|---|-------|
| Functional materials | 11.5% |
| Materials for energy | 18.0% |
| Innovative surfaces, coatings and interfaces | 17.3% |
| High performance composites | 22.7% |
| New strategies for advanced material-based technologies for health applications | 9.3% |
| Materials for electronics | 27.3% |

The success rate for the second stage (selected full-proposals vs. total submitted full-proposals) is 36.2 %.

| | |
|---|-------|
| Functional materials | 29.0% |
| Materials for energy | 40.7% |
| Innovative surfaces, coatings and interfaces | 37.5% |
| High performance composites | 47.6% |
| New strategies for advanced material-based technologies for health applications | 25.0% |
| Materials for electronics | 37.5% |

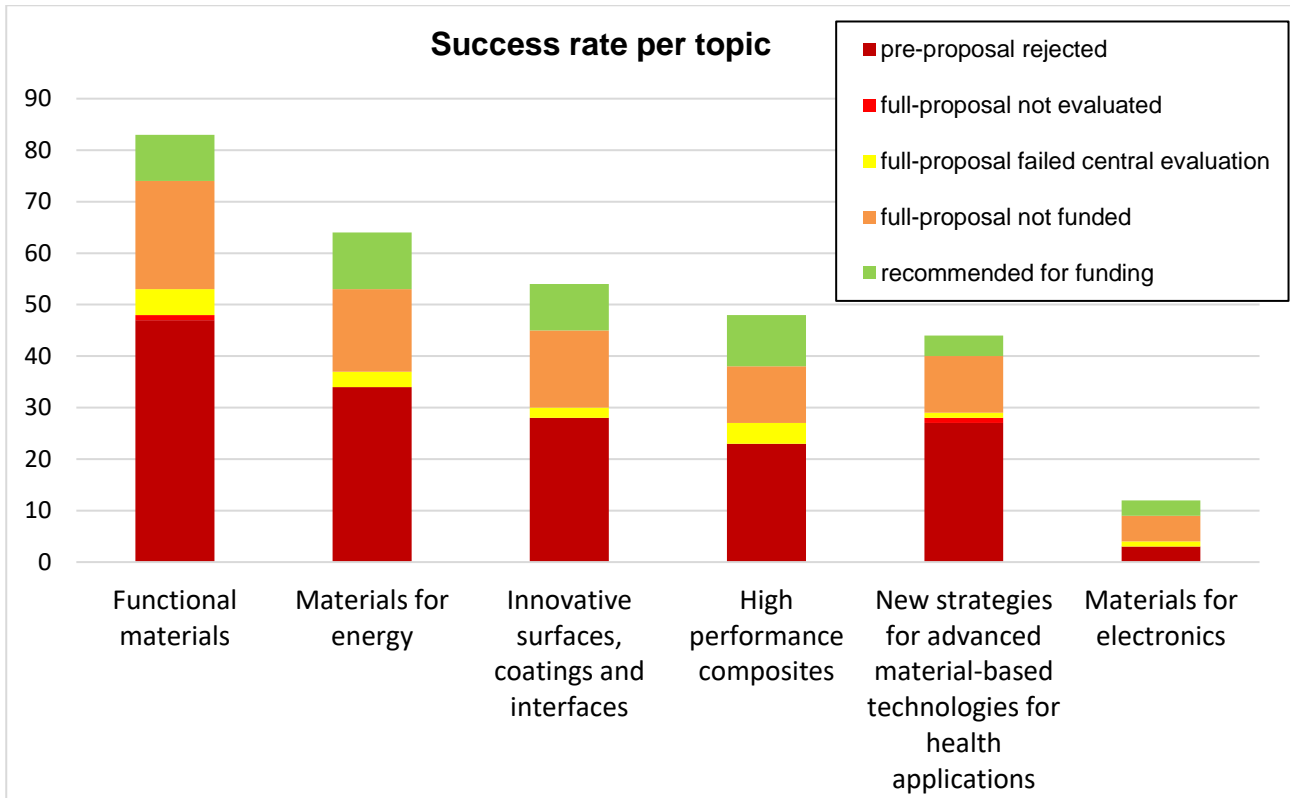


Fig 1: Number of participations: selected full-proposals compared to rejected pre-proposals for all six call topics.

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 22.1%, for research organisation 16.8%, for large companies 14.5% and for universities 13.0%.

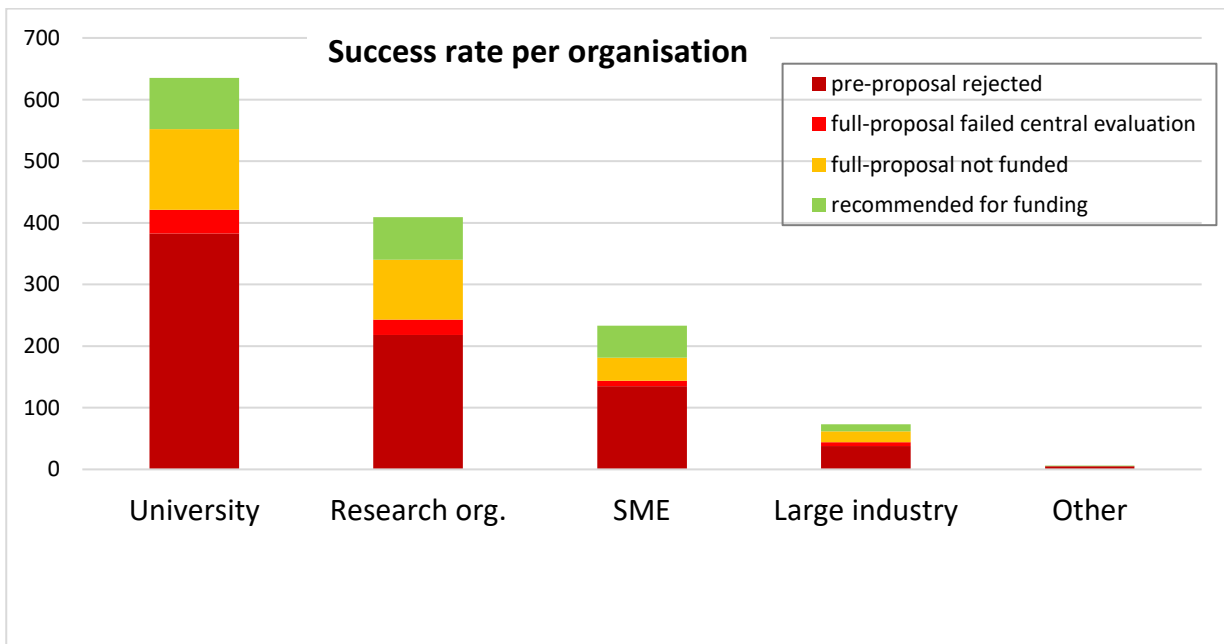


Fig 2: Number of participations: selected full-proposals compared to rejected proposals for all organisation types.

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

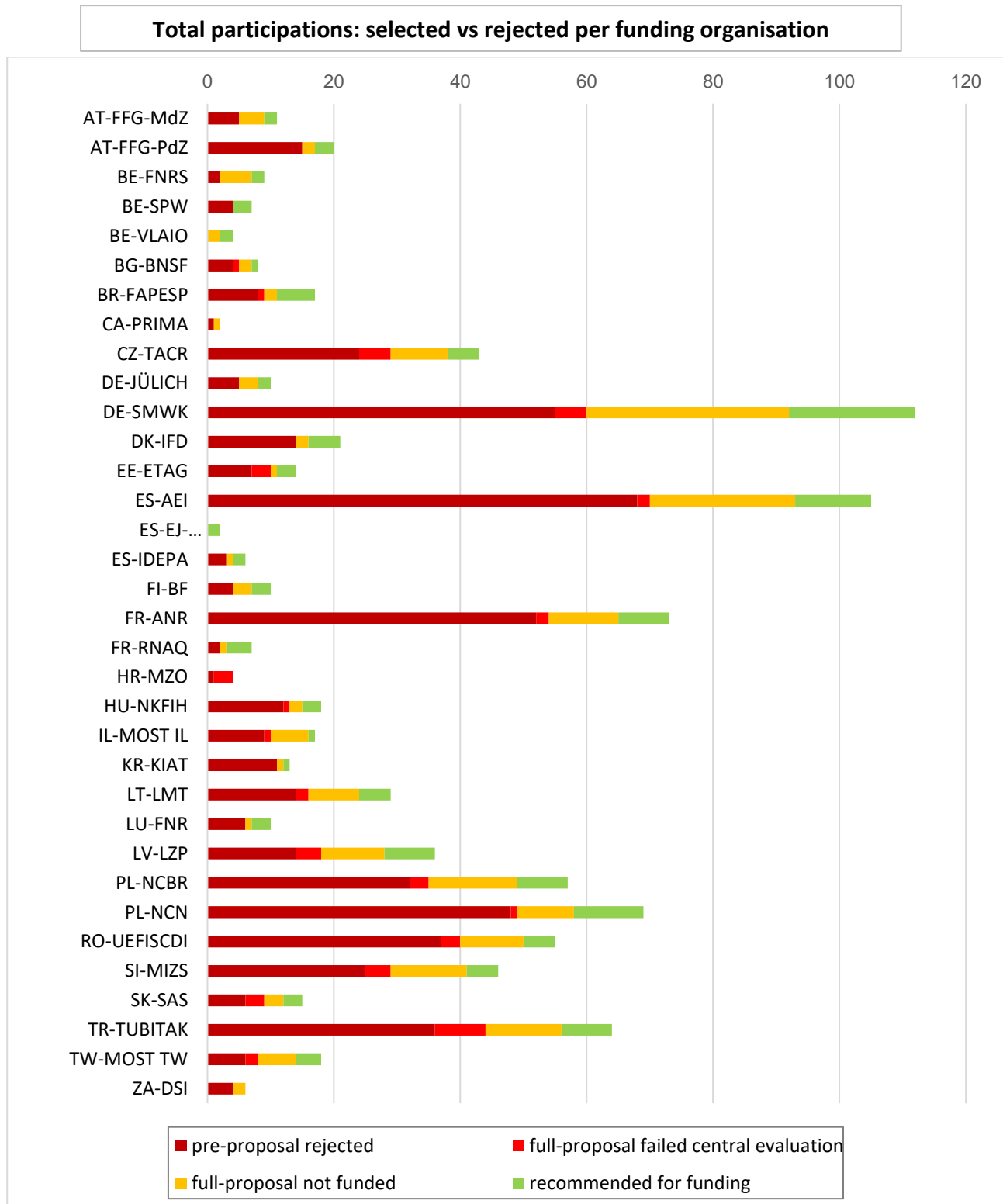


Fig 3.: Total number of participations: success rate from pre-proposal phase to selected full-proposals.

With 11 of the EU-13 (widening) countries (except Malta and Cyprus) participating in the Call 2022, 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; 38% of the funded applicants and 28% of the project coordinators come from EU-13 countries; 31% of the total project funding is contributed by funding agencies from EU-13 countries.

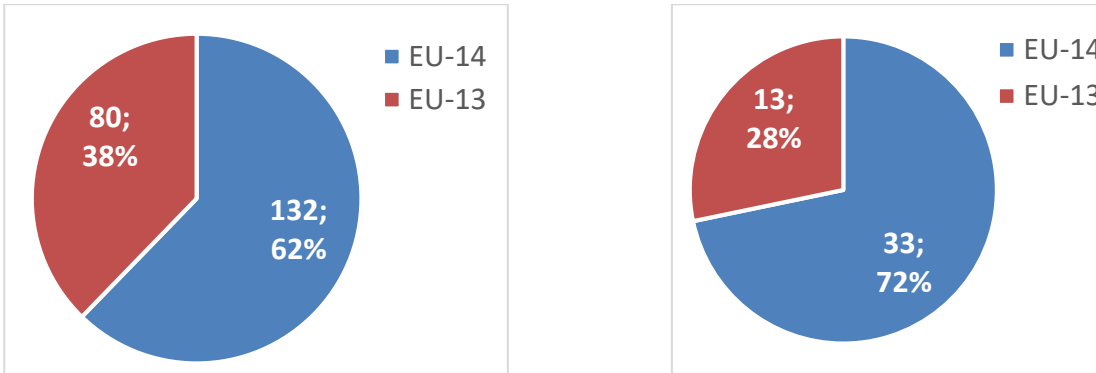


Fig 4a-b: Number of funded applicants (a) and coordinators (b) in selected full-proposals.

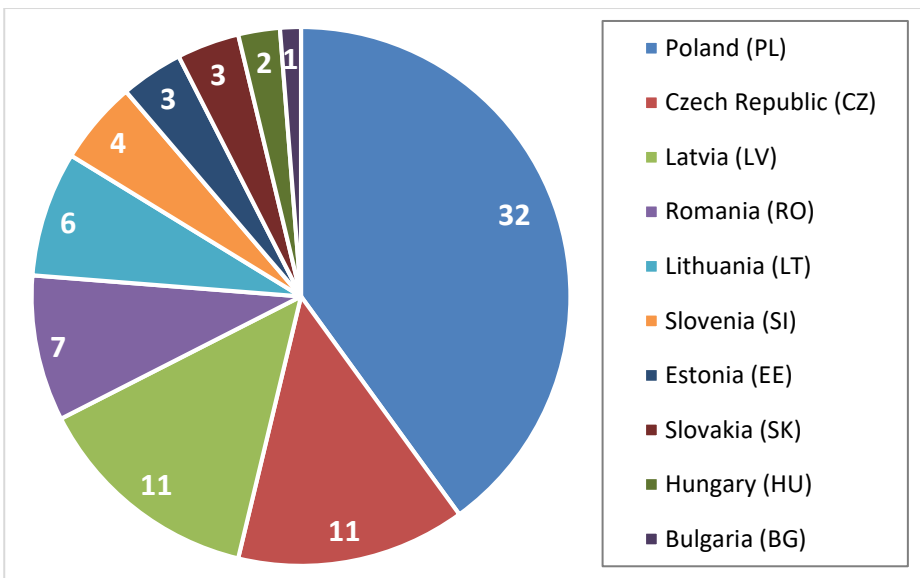


Fig 4c: Number of participants from EU-13 countries per country in selected full-proposals.

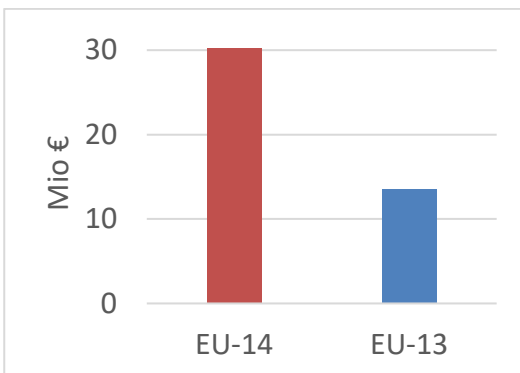


Fig 4d: Total requested funding for selected full-proposals.;

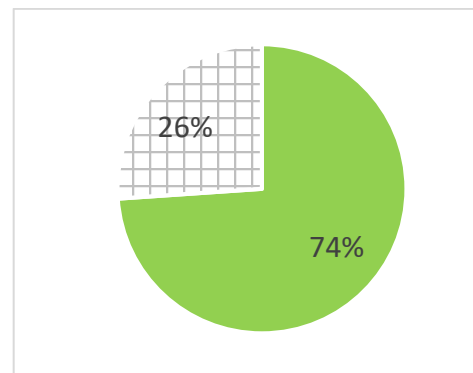


Fig. 4e: 74% of the funded projects include at least 1 research group from EU-13 countries.

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 “Materials for energy” with 10.5 Mio EUR. This is followed by the topic “High performance composites” with 9.6 Mio EUR. For the topics “Innovative surfaces, coatings and interfaces”, “Functional materials”, “New strategies for advanced material-based technologies for health applications” and “Materials for electronics” 8.9 Mio EUR, 8.5Mio EUR, 3.2 Mio EUR and 3.0 Mio EUR funding are requested, respectively.

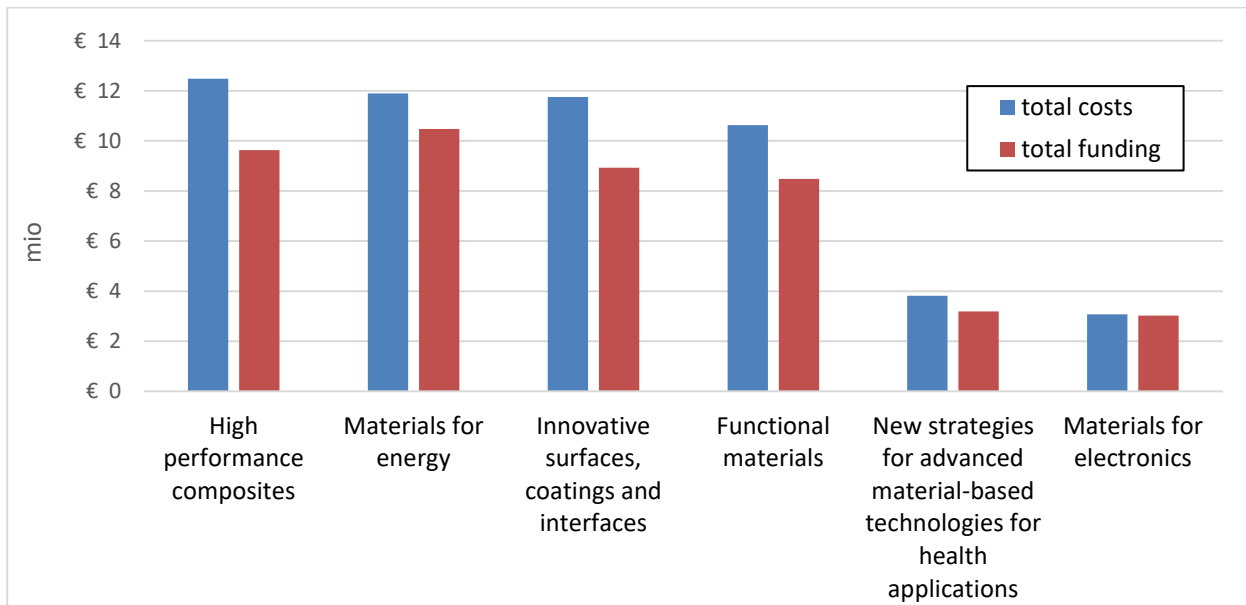


Fig 5.: Selected full-proposals: total project volumes and requested funding (EUR) per call topic.

The distribution of total project costs and requested funding per organisation type is shown in Fig 6. In the selected full-proposals universities (18.2 Mio EUR) and research organisations (16.7 Mio EUR) request the highest amount of funding. A small ratio of 20.2% of the total funding is requested by enterprises and other organisations: 7.3 Mio EUR funding by SMEs, 1.5 Mio EUR funding by large enterprises and 64.000 EUR funding by others.

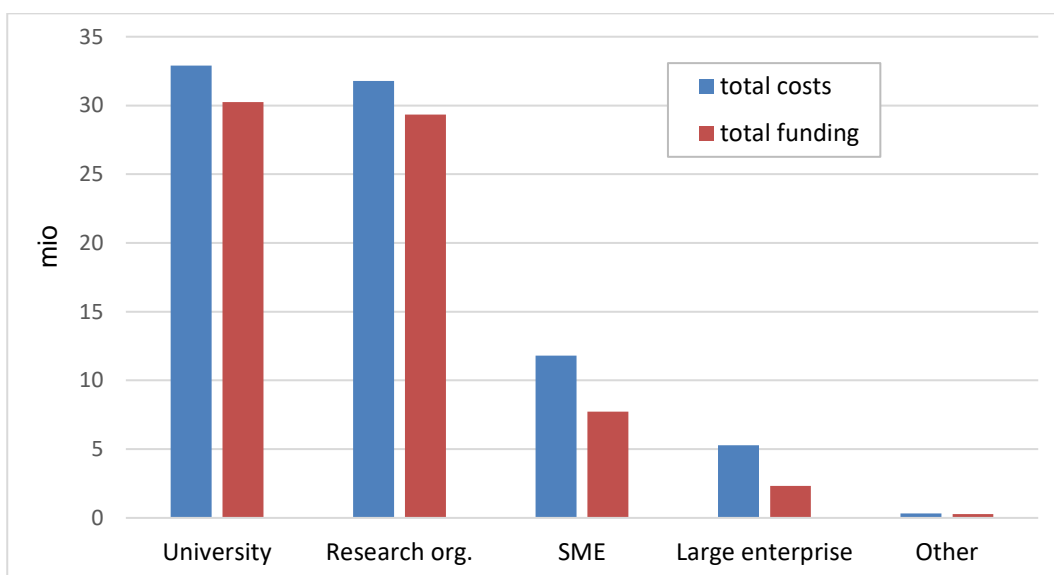


Fig 6.: Selected full-proposals: total requested funding and total planned costs (EUR) per organisation type.

Out of 46 recommended projects, the majority of the coordinators are from universities (22 projects) and research organisations (21 projects). One project is coordinated by a large company and two projects are coordinated by SMEs (Fig. 7).

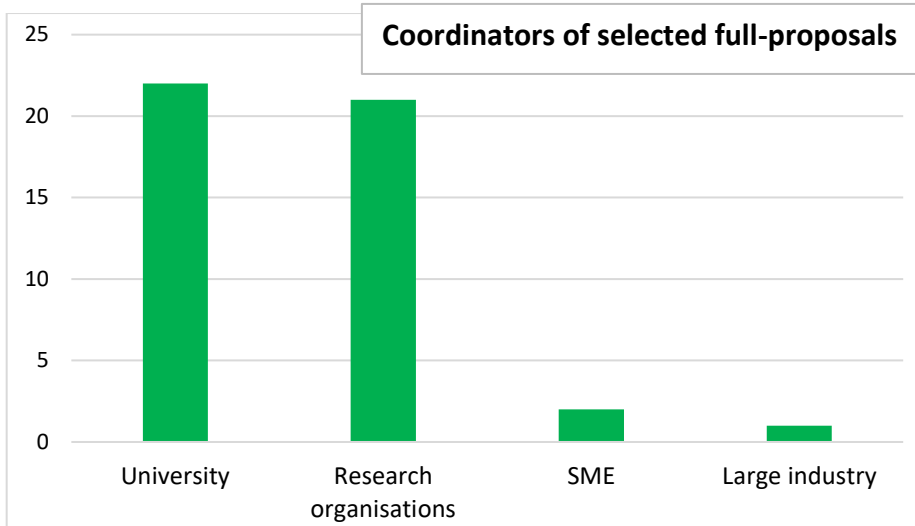


Fig 7: Selected full-proposals: number of coordinators per organisation type.

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).

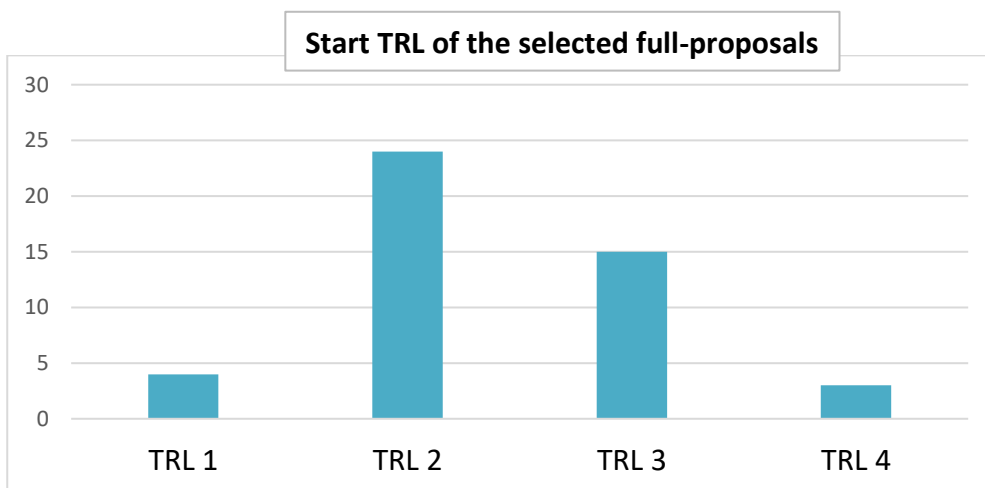


Fig 8: Selected full-proposals: number of applicants per start Technology Readiness Level.

The TRL targeted on the end of the project are between TRL 3 and TRL 7 (system prototype demonstration in operational 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 6 (technology demonstrated in relevant environment).

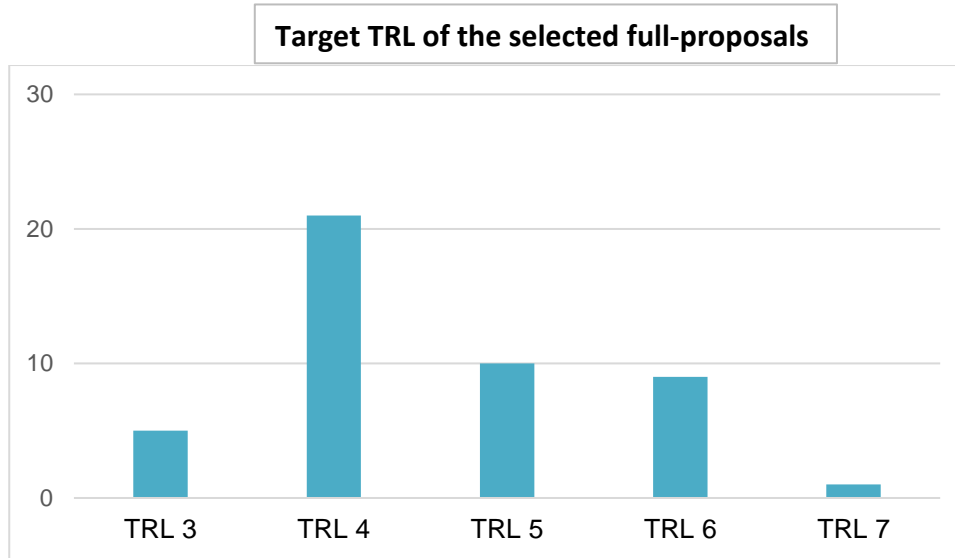


Fig 9.: Selected full-proposals: number of applicants per target Technology Readiness Level

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

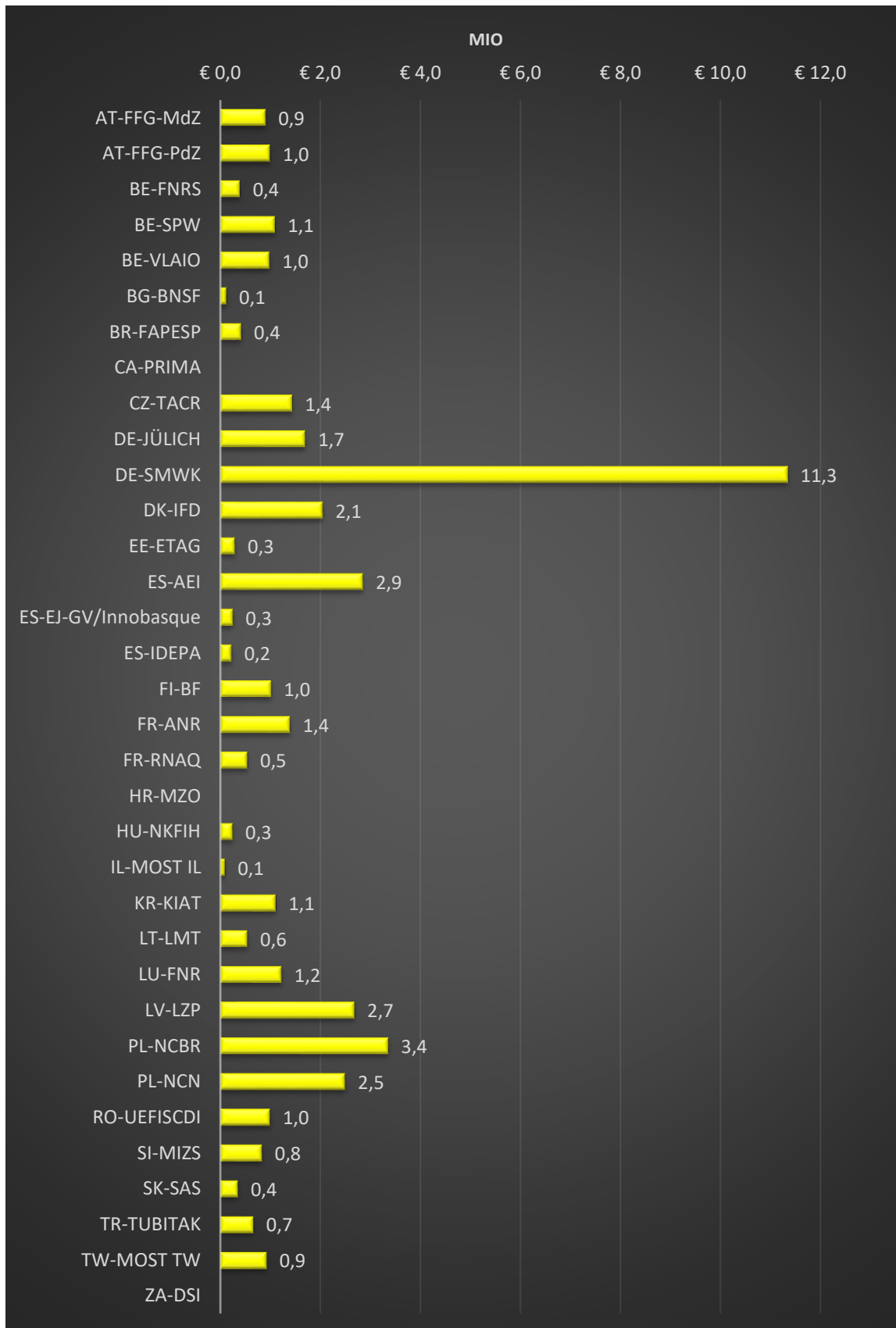


Fig 10: Select full-proposals: requested funding per funding organisation (EUR).