Results of M-ERA.NET Call 2019

233 pre-proposals were submitted, requesting 145 Mio EUR funding in total.

126 pre-proposals were recommended for a full-proposal submission. 123 full-proposals were submitted.

101 full-proposals passed the full-proposal evaluation, requesting around 65 Mio EUR funding.

Depending on national/regional budgets and rules the national/regional funding organisations finally **selected 37 full-proposals for funding** corresponding to requested funding of 26.9 Mio EUR. This is the highest amount of selected full-proposals for funding M-ERA.NET has ever achieved in a non-cofunded call.

These projects are allocated to the call topics as follows:

- Functional materials: **13** funded projects
- High performance composites: **6** funded projects
- Innovative surfaces, coatings and interfaces: **10** funded projects
- Materials for Additive Manufacturing: **4** funded projects
- Modeling for materials engineering and processing: no project to be funded
- New strategies for advanced material-based technologies in health applications: **4** funded projects

The total success rate (selected full-proposals vs total submitted pre-proposals) is 15.9 % (Fig. 1). For the different topics the rates of success vary:

Functional materials	16,0%
High performance composites	15,0%
Innovative surfaces, coatings and interfaces	18,2%
Materials for Additive Manufacturing	15,4%
Modeling for materials engineering and processing	0%
New strategies for advanced material-based technologies in health applications	23,5%

The success rate for the second stage (selected full-proposals vs. total submitted full-proposals) is 30.1 %.

Functional materials	32,5%
High performance composites	31,6%
Innovative surfaces, coatings and interfaces	31,3%
Materials for Additive Manufacturing	23,5%
Modeling for materials engineering and processing	0%
New strategies for advanced material-based technologies in health applications	44,4%

The success rates (selected full-proposals vs total submitted pre-proposals) per organisation type are shown in Fig. 2. The success rate for universities is 14.2%, for research organisation is 16.6%, for SMEs 17.1%, and for large companies 17.5%.
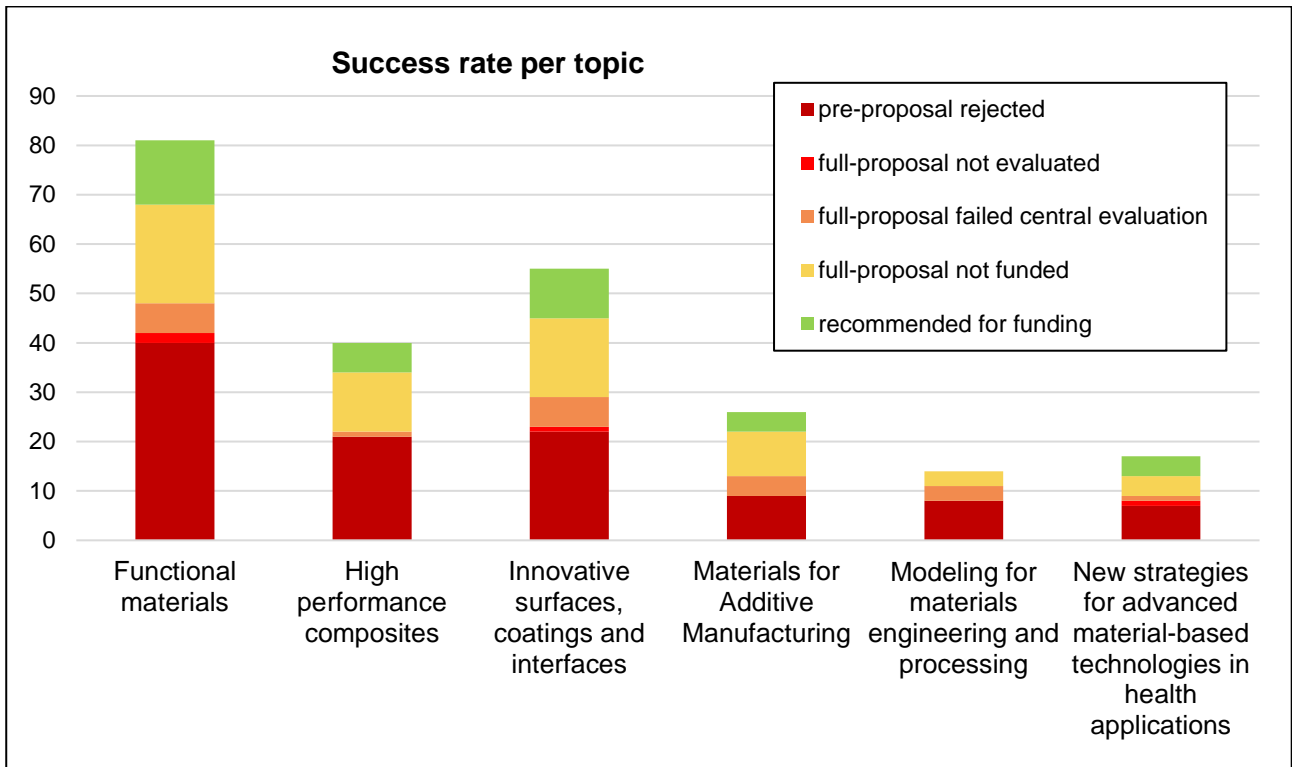
Fig 1: Number of participations: selected full-proposals compared to rejected pre-proposals for all six call topics.

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.
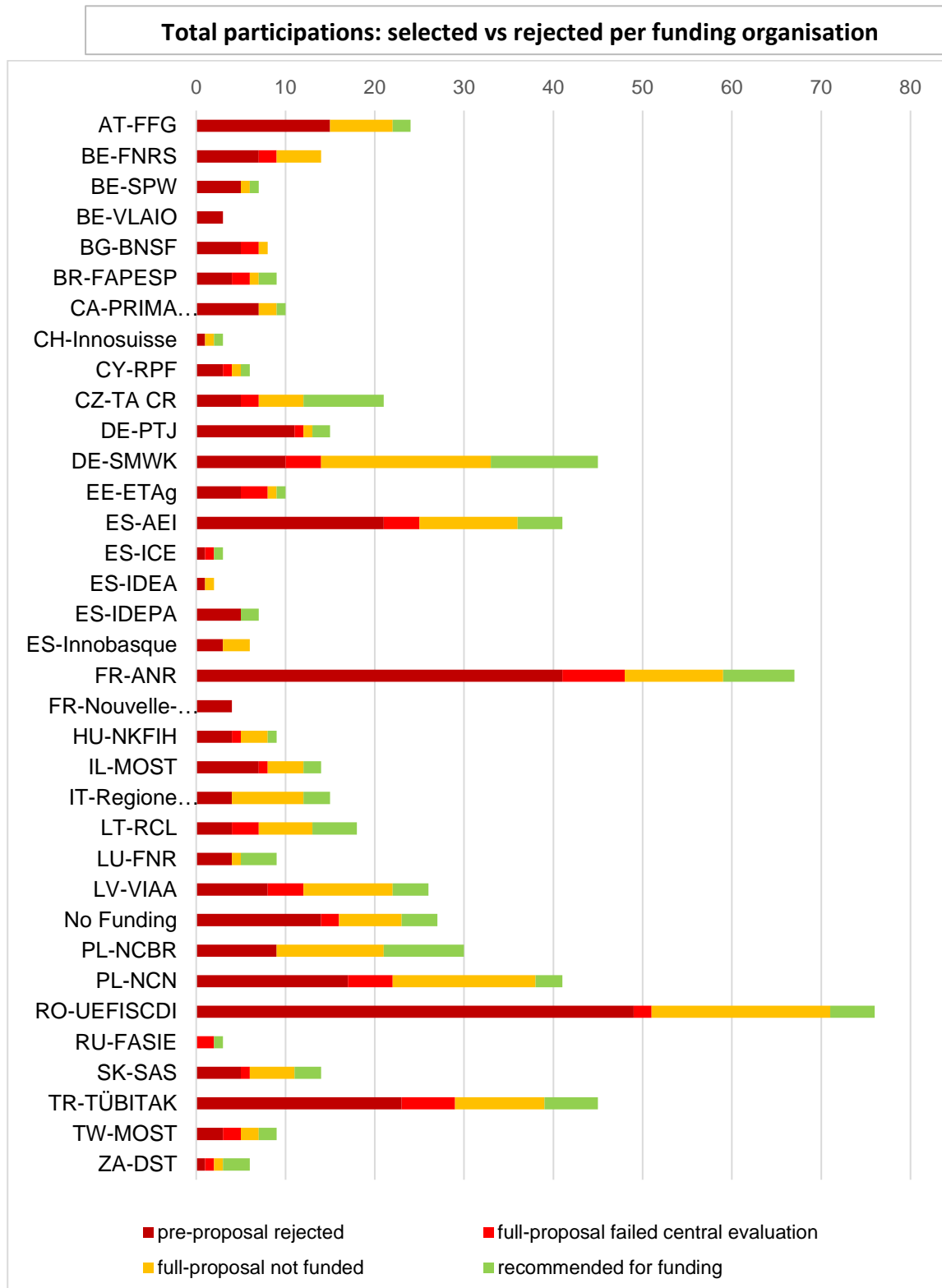

Total participations: selected vs rejected per funding organisation

Legend:
- ■ pre-proposal rejected
- ■ full-proposal failed central evaluation
- ■ full-proposal not funded
- ■ recommended for funding

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

The total project volumes and corresponding requested funding per call topic are shown in Fig. 4.

The topic with the highest amount of requested funding is "functional materials" with 8.9 Mio EUR. This is followed by the topic "innovative surfaces, coatings and interfaces" with 7.7 Mio EUR. For the topics "High performance composites", "Materials for Additive Manufacturing" and "New strategies for advanced material-based technologies in health applications" 3.7 Mio EUR, 3.6 Mio EUR and 3.1 Mio EUR funding are requested, respectively. Unfortunately not a single project could be funded in the topic "Multiscale modelling for materials engineering and processing .

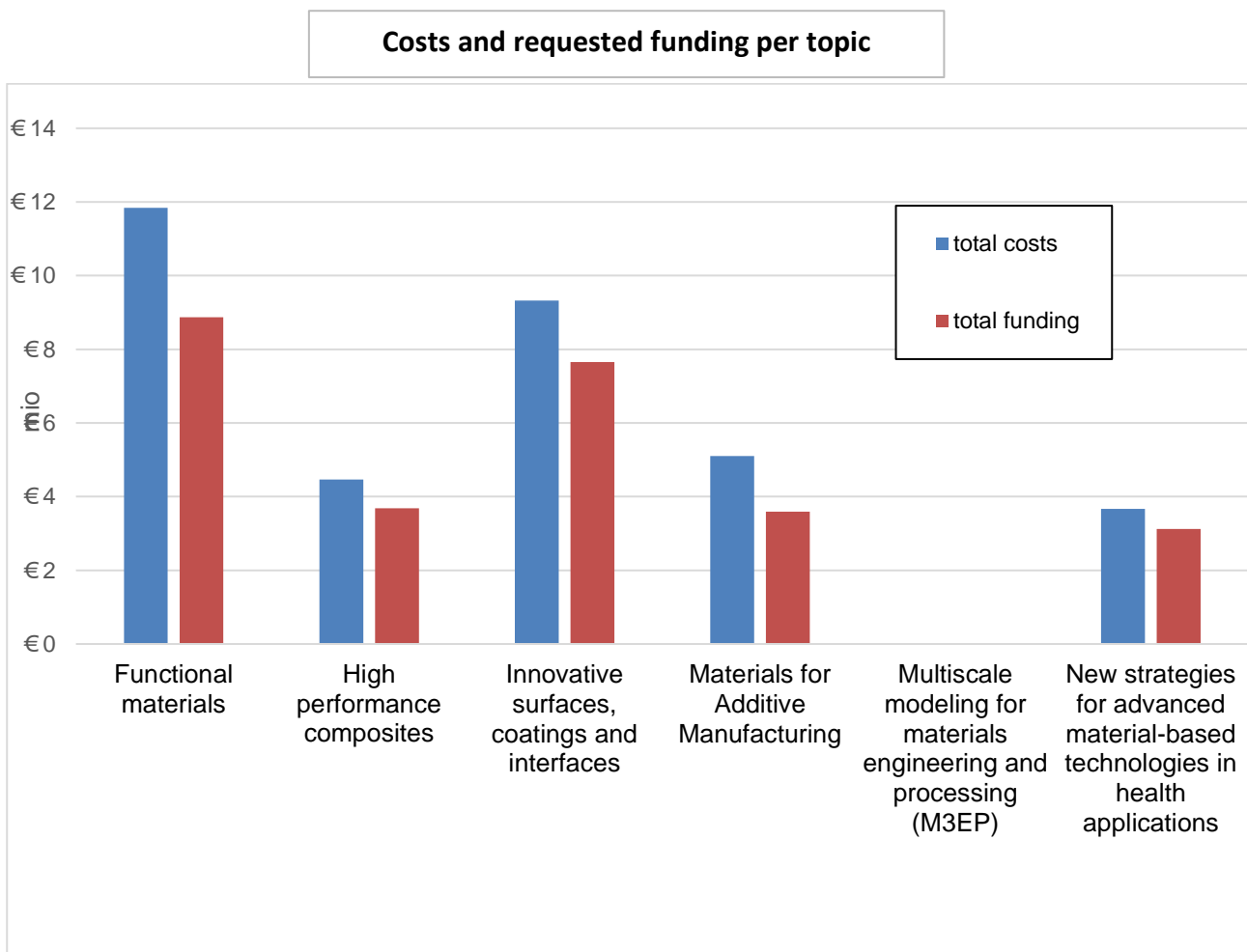**Costs and requested funding per topic**

Fig 4.: 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 5.

In the selected full-proposals research organisations (11.8 Mio EUR) and universities (10.3 Mio EUR) request the highest amount of funding. A small ratio of 18 % of the total funding is requested by enterprises: 3.6 Mio EUR funding by SMEs and 1.3 Mio EUR funding by large enterprises.

Total costs and requested funding per organisation type
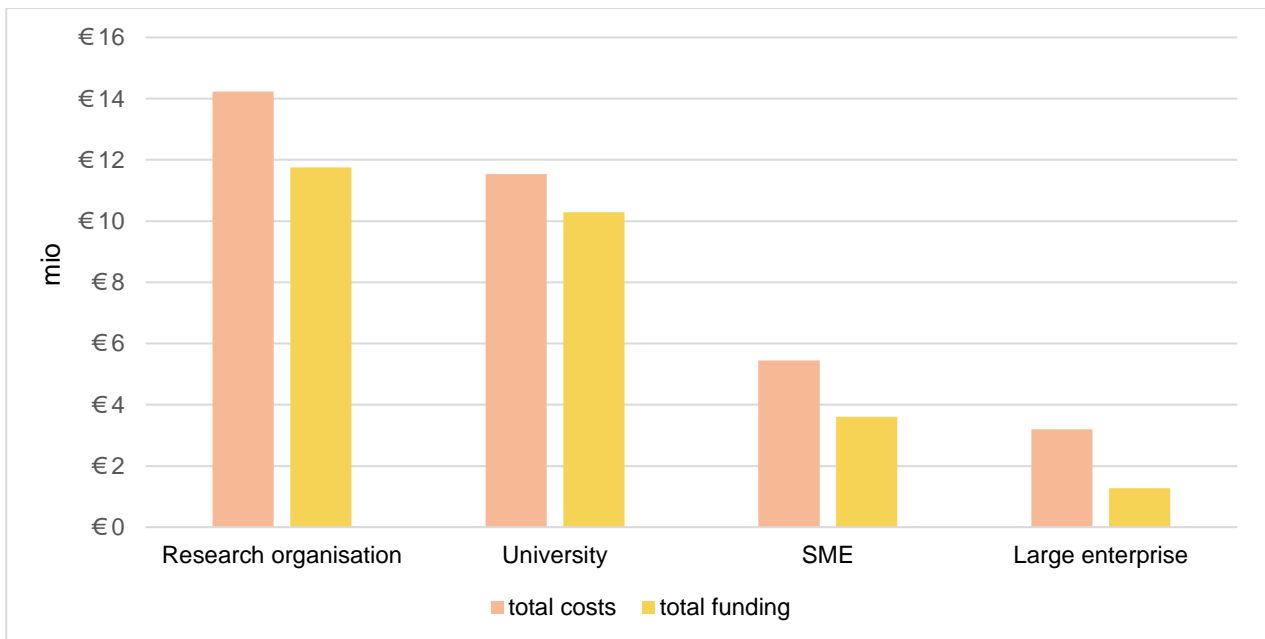
Fig 4.: Selected full-proposals: total requested funding and total planned costs (EUR) per organisation type.

Out of 37 recommended projects, the majority of the coordinators are from research organisations (16 projects) and universities (16 projects). Four projects are coordinated by SMEs and one project is coordinated by a large company (Fig. 6).

Coordinators of selected full-proposals
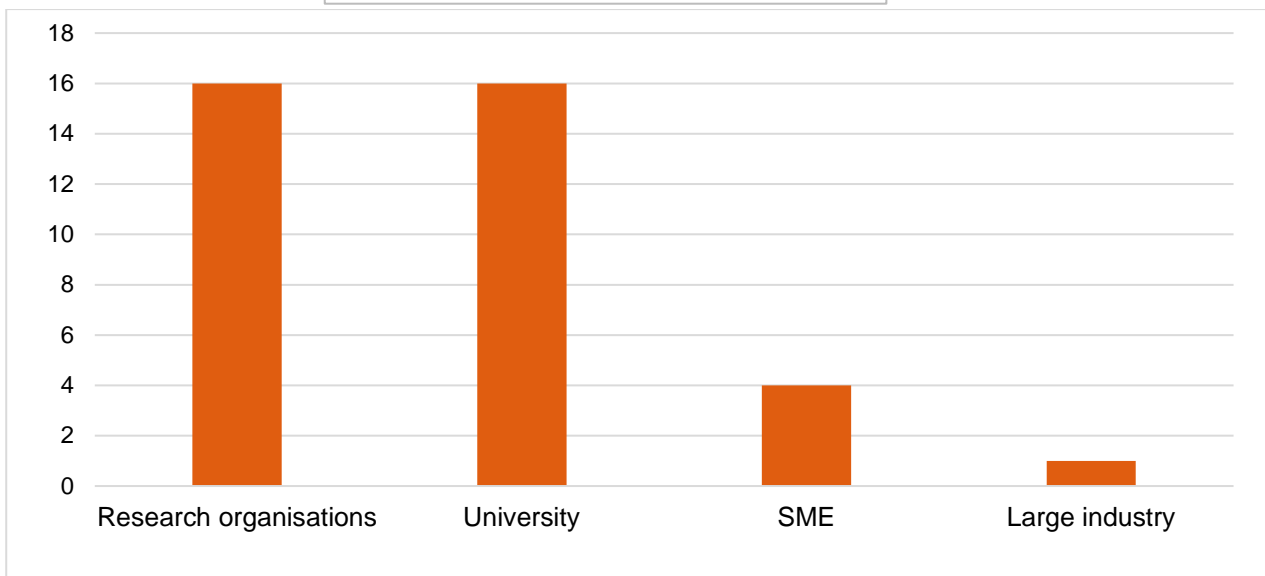
Fig 5.: Selected full-proposals: number of coordinators per organisation type.

The selected projects start from Technology Readiness Level (TRL) 1 (basic principles observed)) to TRL 5 (technology validated in relevant environment) (Fig. 7).

Most of them start with TRL 2 (technology concept formulated) or TRL 3 (experimental proof of concept).
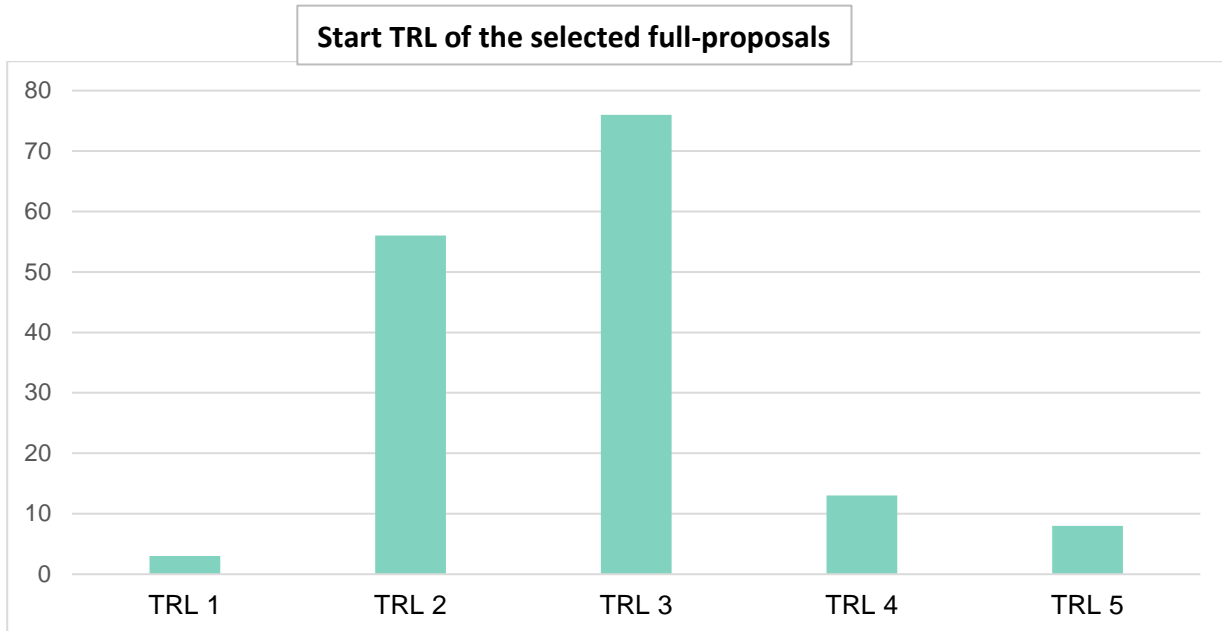
Start TRL of the selected full-proposals

Fig 6.: 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. 8.

Most projects indicate a two or three step advance of the TRL, resulting in a broad distribution of the End-TRL of between TRL 4 (Technology validated in lab) and TRL 6 (technology demonstrated in relevant environment).
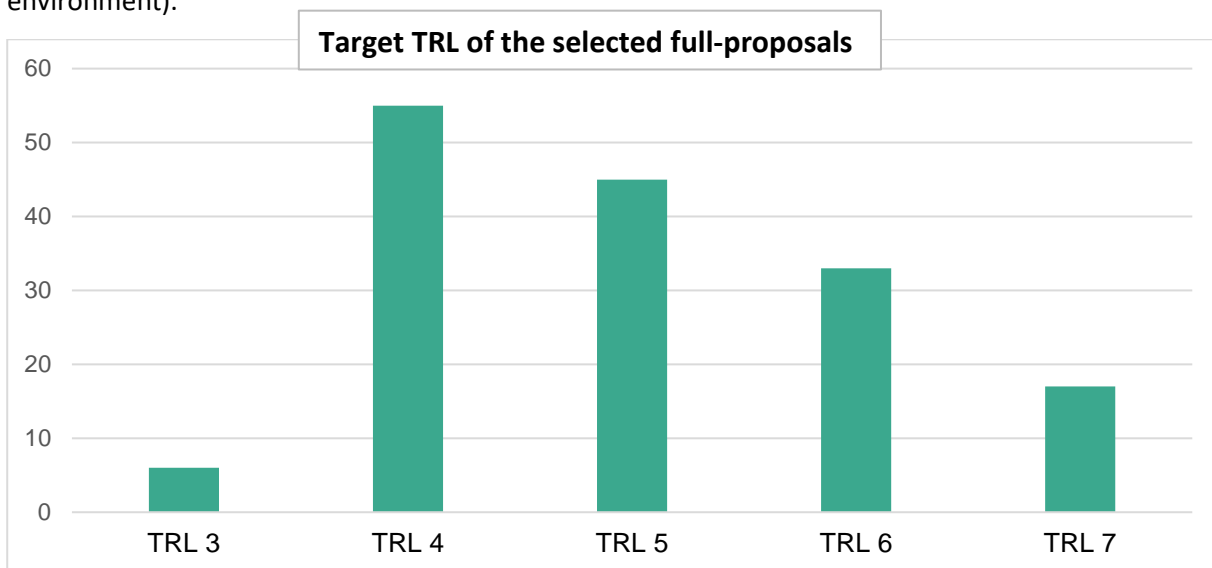
Target TRL of the selected full-proposals

Fig 7.: 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.

Selected full proposals: requested funding per funding organisation

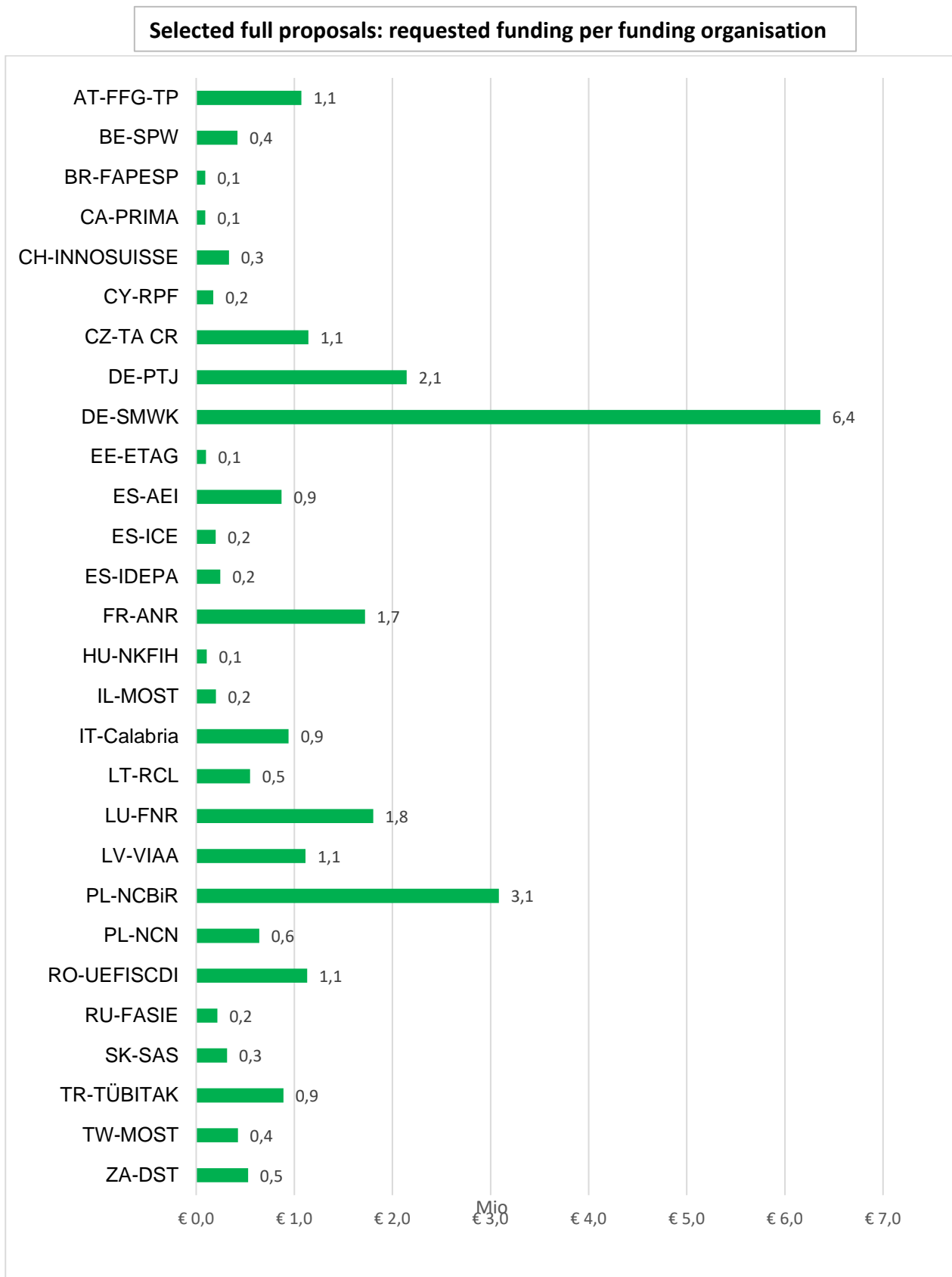| Funding organisation	Requested funding (Mio €)
AT-FFG-TP	1,1
BE-SPW	0,4
BR-FAPESP	0,1
CA-PRIMA	0,1
CH-INNOSUISSE	0,3
CY-RPF	0,2
CZ-TA CR	1,1
DE-PTJ	2,1
DE-SMWK	6,4
EE-ETAG	0,1
ES-AEI	0,9
ES-ICE	0,2
ES-IDEPA	0,2
FR-ANR	1,7
HU-NKFIH	0,1
IL-MOST	0,2
IT-Calabria	0,9
LT-RCL	0,5
LU-FNR	1,8
LV-VIAA	1,1
PL-NCBiR	3,1
PL-NCN	0,6
RO-UEFISCDI	1,1
RU-FASIE	0,2
SK-SAS	0,3
TR-TÜBITAK	0,9
TW-MOST	0,4
ZA-DST	0,5

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

Fig. 11 shows the distribution of applicants of successful proposals per topic and per country.

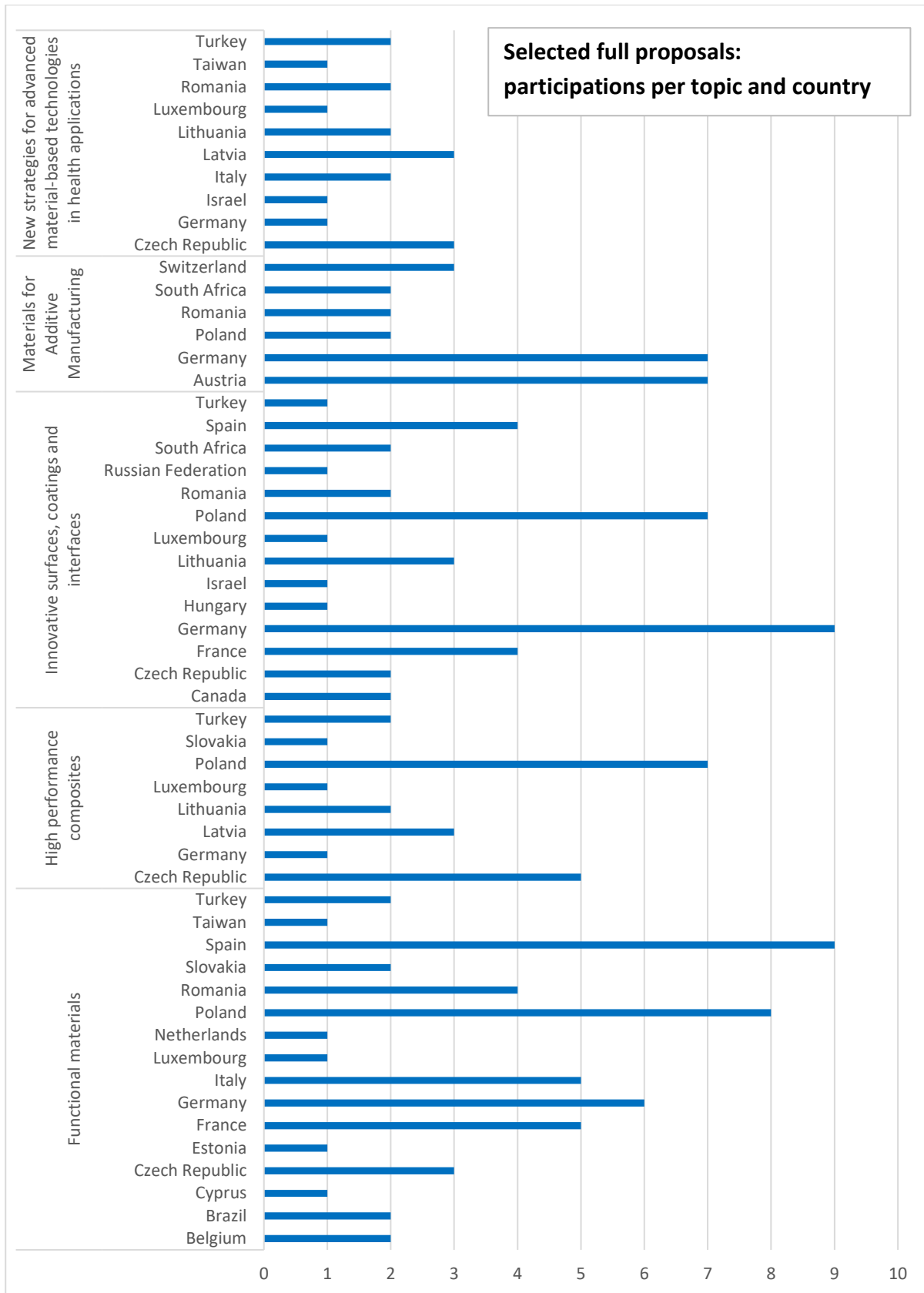**Selected full proposals: participations per topic and country**

Fig. 11: Number of applicants in selected full-proposals per topic and country