# Results of M-ERA.NET Call 2016

233 pre-proposals were submitted, requesting 194 Mio EUR funding in total.

91 pre-proposals were recommended for a full-proposal submission. 89 full-proposals were submitted.

68 full-proposals passed the full-proposal evaluation, requesting around 48.8 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 30.5 Mio EUR.

These projects are allocated to the call topics as follows:

- Integrated computational materials engineering (ICME): 2 funded projects
- Innovative surfaces, coatings and interfaces: 14 funded projects
- High performance synthetic and biobased composites: 4 funded projects
- Functional materials: 11 funded projects
- Interfaces between materials and biological hosts for health applications: 7 funded projects
- Materials for additive manufacturing: 8 funded projects

The total success rate (selected full-proposals vs total submitted pre-proposals) is 19.7 % (Fig. 1). For the different topics the rates of success vary:

| | |
|---|---|
| Integrated computational materials engineering (ICME) | 3.2% |
| Innovative surfaces, coatings and interfaces | 70.0% |
| High performance synthetic and biobased composites | 6.5% |
| Functional materials | 84.6% |
| Interfaces between materials and biological hosts for health applications | 13.7% |
| Materials for additive manufacturing | 32.0% |

The success rate for the second stage (selected full-proposals vs. total submitted full-proposals) is 51.7%.

| | |
|---|---|
| Integrated computational materials engineering (ICME) | 40,0% |
| Innovative surfaces, coatings and interfaces | 53,8% |
| High performance synthetic and biobased composites | 80,0% |
| Functional materials | 50,0% |
| Interfaces between materials and biological hosts for health applications | 43,8% |
| Materials for additive manufacturing | 57,1% |

The success rates (selected full-proposals vs total submitted pre-proposals) per organisation type are shown in Fig. 2. The success rate for research organisation is 22.1%, for SMEs 30.8%, for universities 21.6% and for large companies 43.6%.

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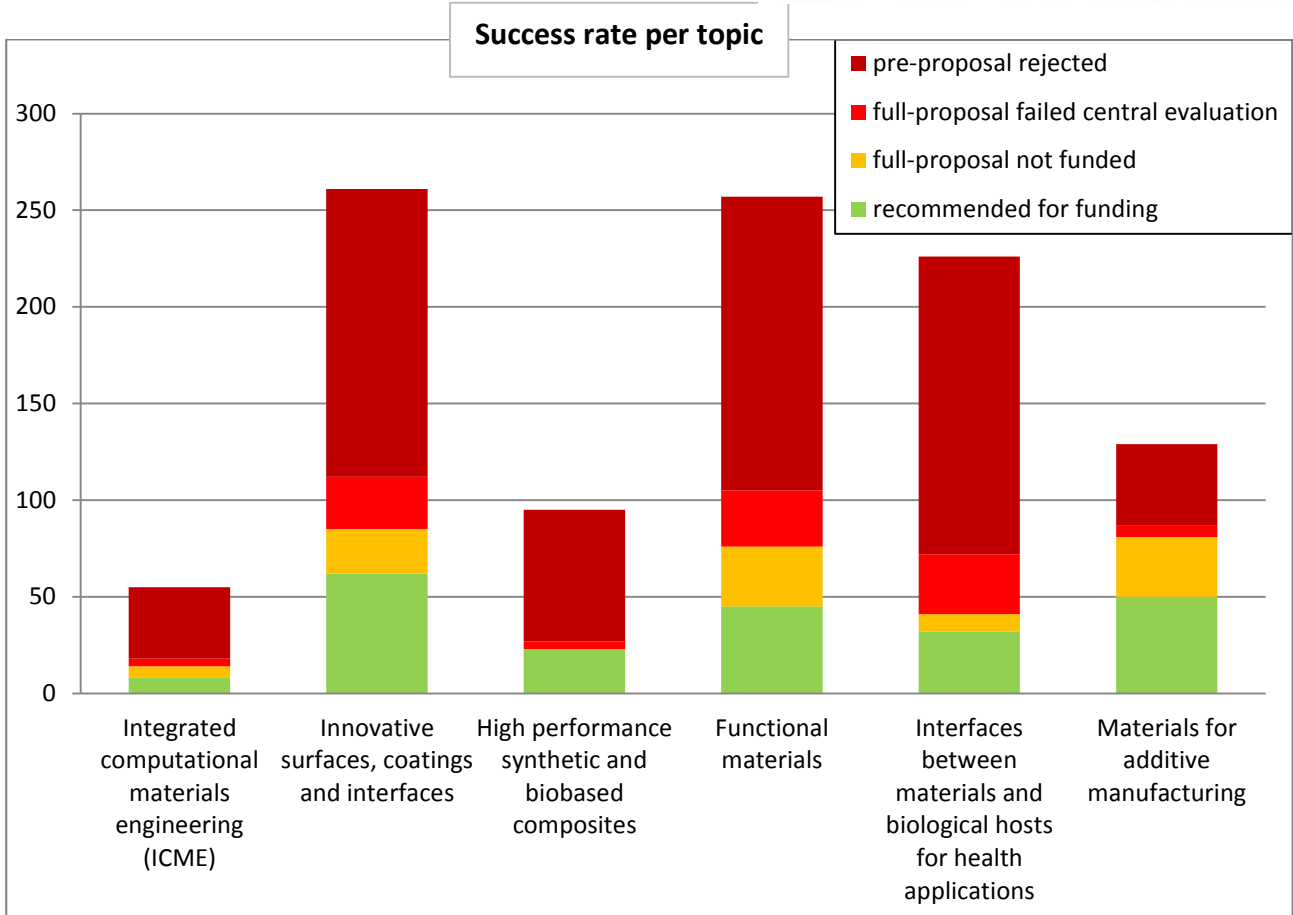
**Success rate per topic**

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

X-axis categories:
- Integrated computational materials engineering (ICME)
- Innovative surfaces, coatings and interfaces
- High performance synthetic and biobased composites
- Functional materials
- Interfaces between materials and biological hosts for health applications
- Materials for additive manufacturing

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



**Success rate per organisation type**

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

X-axis categories:
- University
- Research org.
- SME
- Large industry
- Other

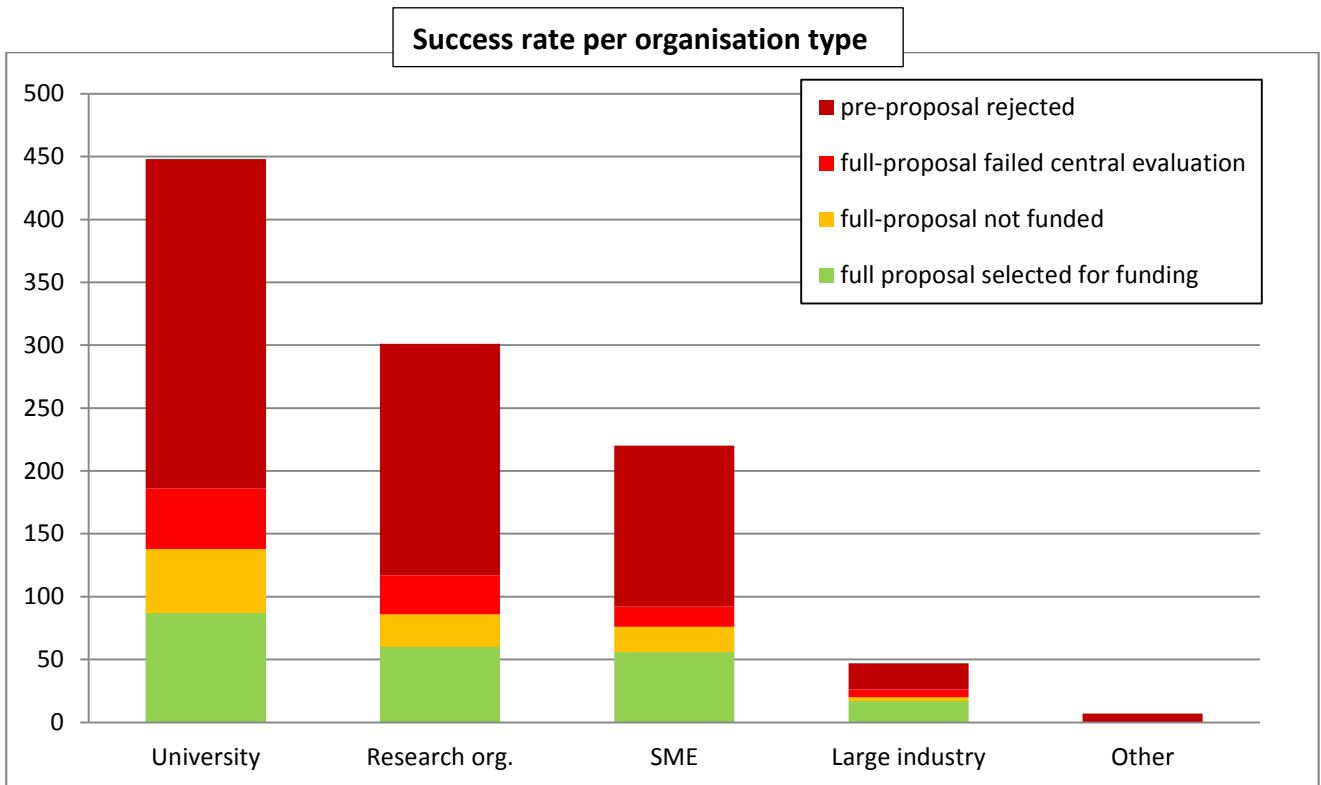**Fig 2.: Number of participations: selected full-proposals compared to rejected proposals for all organisation types.**

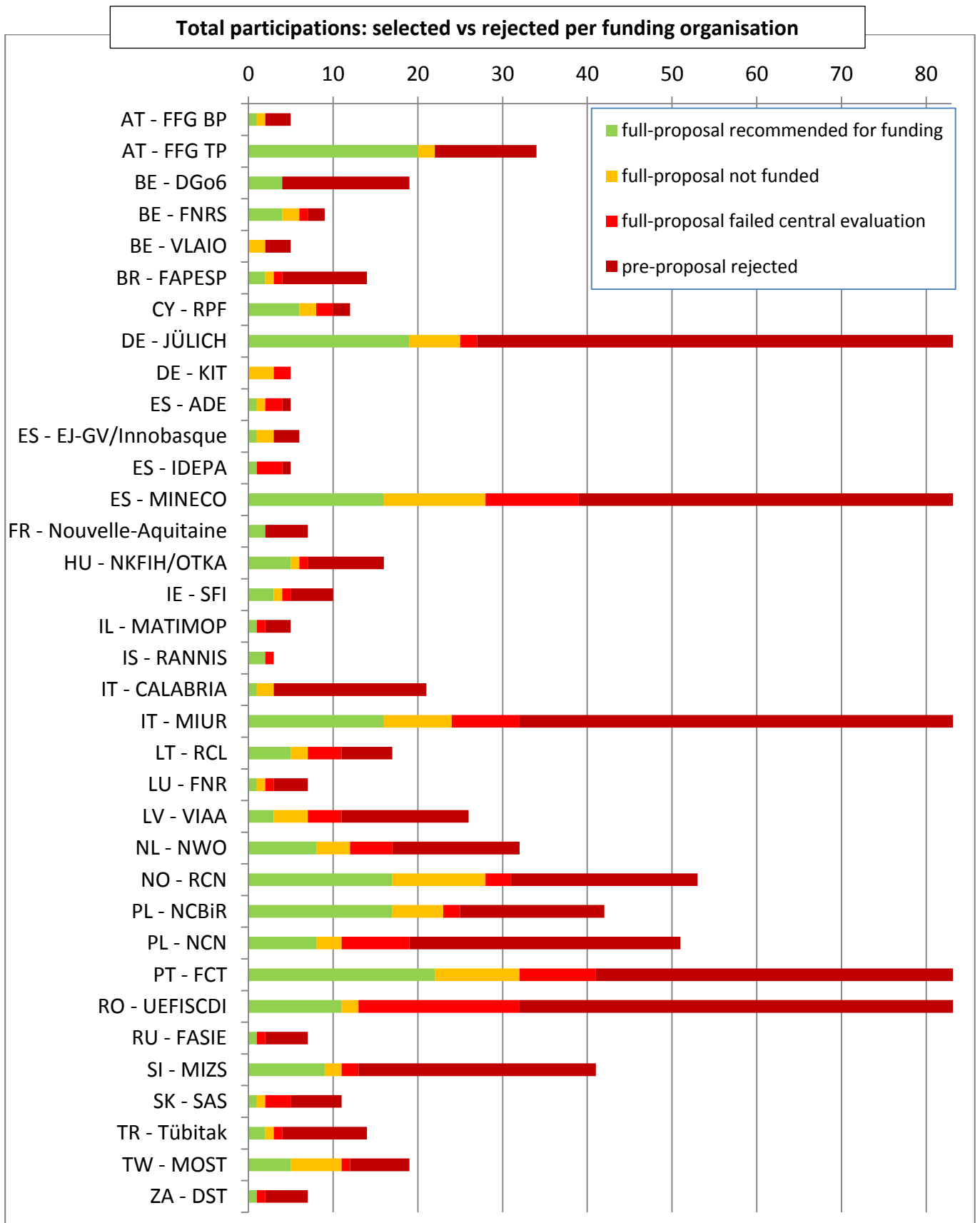**Total participations: selected vs rejected per funding organisation**

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

Funding organisations (top to bottom):
AT - FFG BP, AT - FFG TP, BE - DGo6, BE - FNRS, BE - VLAIO, BR - FAPESP, CY - RPF, DE - JÜLICH, DE - KIT, ES - ADE, ES - EJ-GV/Innobasque, ES - IDEPA, ES - MINECO, FR - Nouvelle-Aquitaine, HU - NKFIH/OTKA, IE - SFI, IL - MATIMOP, IS - RANNIS, IT - CALABRIA, IT - MIUR, LT - RCL, LU - FNR, LV - VIAA, NL - NWO, NO - RCN, PL - NCBiR, PL - NCN, PT - FCT, RO - UEFISCDI, RU - FASIE, SI - MIZS, SK - SAS, TR - Tübitak, TW - MOST, ZA - DST

**Fig 3.: Total number of participations: success rate from pre-proposal phase to selected full-proposals.**
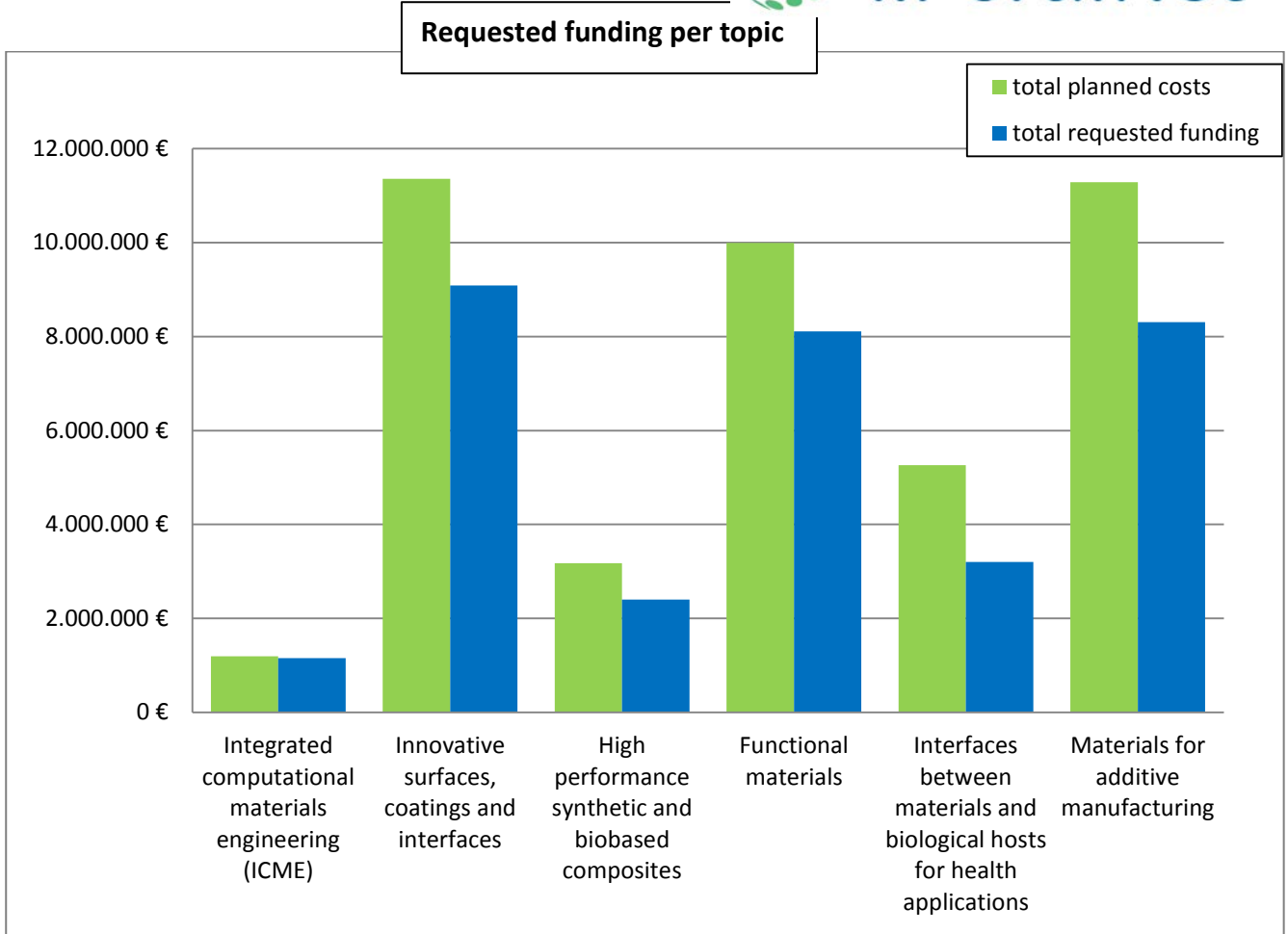
**Fig 4.: Selected full-proposals: total project volumes and requested funding (EUR) per call topic.**
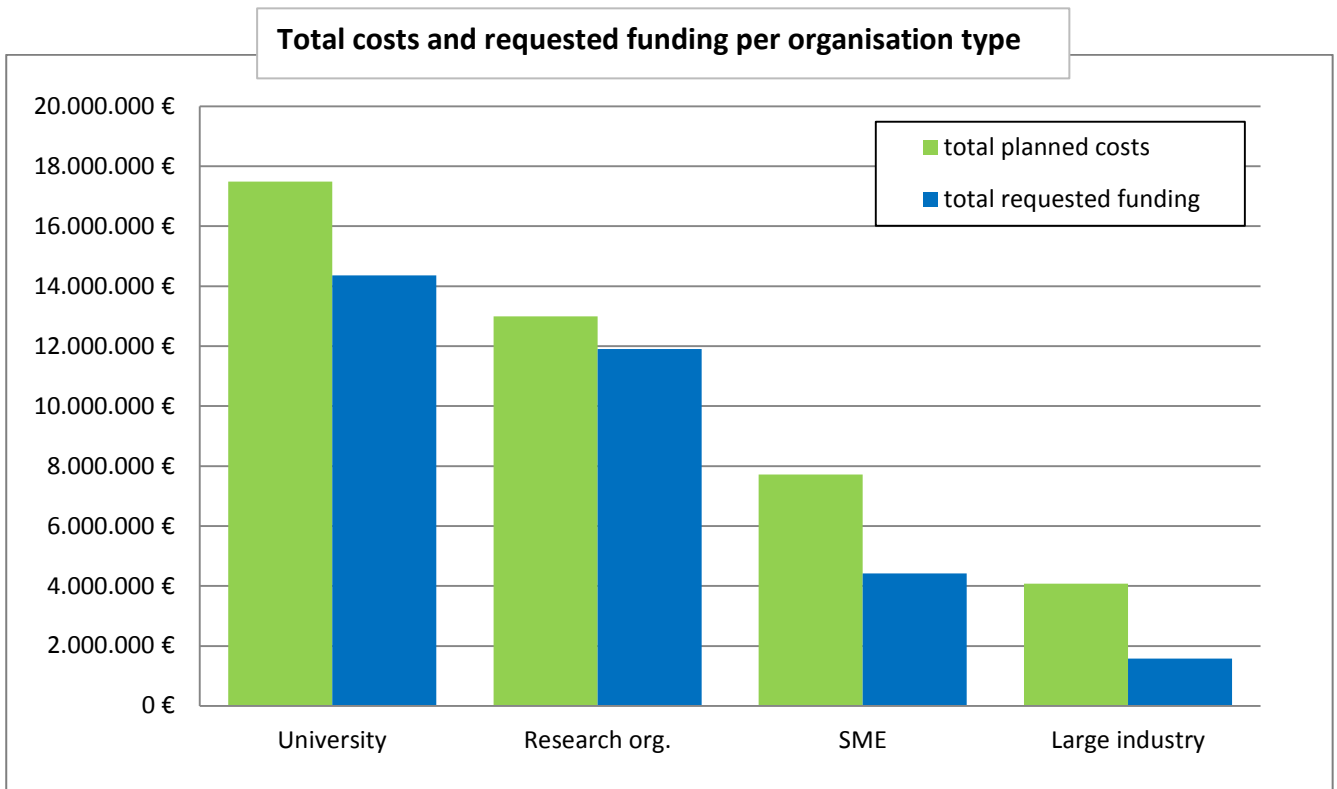


**Fig 5.: Selected full-proposals: total requested funding and total planned costs (EUR) per organisation type.**

For selected full-proposals the total project volumes and requested funding per call topic are shown in Fig. 4. For the topics "Innovative surfaces, coatings and interfaces" and "Materials for additive manufacturing" "Functional materials" 9.1 Mio EUR and 8.3 Mio EUR and 8.1 Mio EUR funding are requested.

In the selected full-proposals 14.4 Mio EUR funding are requested by universities, 11.9 Mio EUR funding by research organisations, 4.4 Mio EUR funding by SMEs and 1.6 Mio EUR funding by large industry (Fig. 5).

20 projects are coordinated by research institutions, 24 by universities and 2 by SMEs. There is no selected project coordinated by large industry (Fig. 6).

The projects start from Technology Readiness Level (TRL) 1 (basic principles observed) toTRL 5 (technology validated in relevant environment) (Fig. 7).Most of them start with TRL 2(technology concept formulated). The TRL which is targeted on the end of the project is between TRL 2 and TRL 8 (system complete and qualified) (Fig. 8). Most projects indicate an End-TRL of 4 (technology validated in lab).
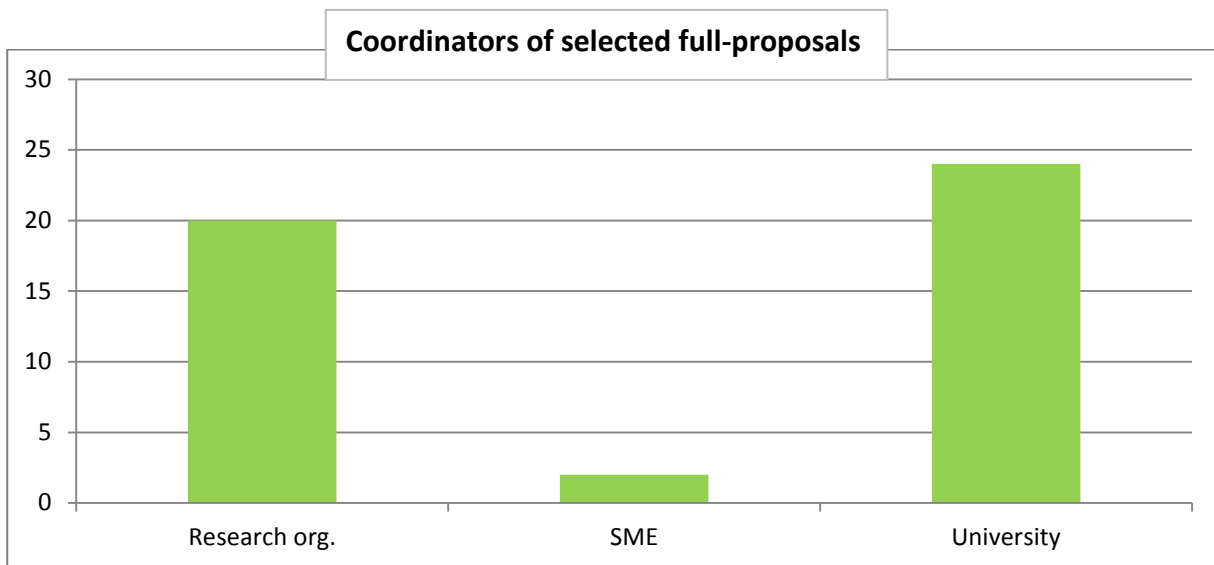


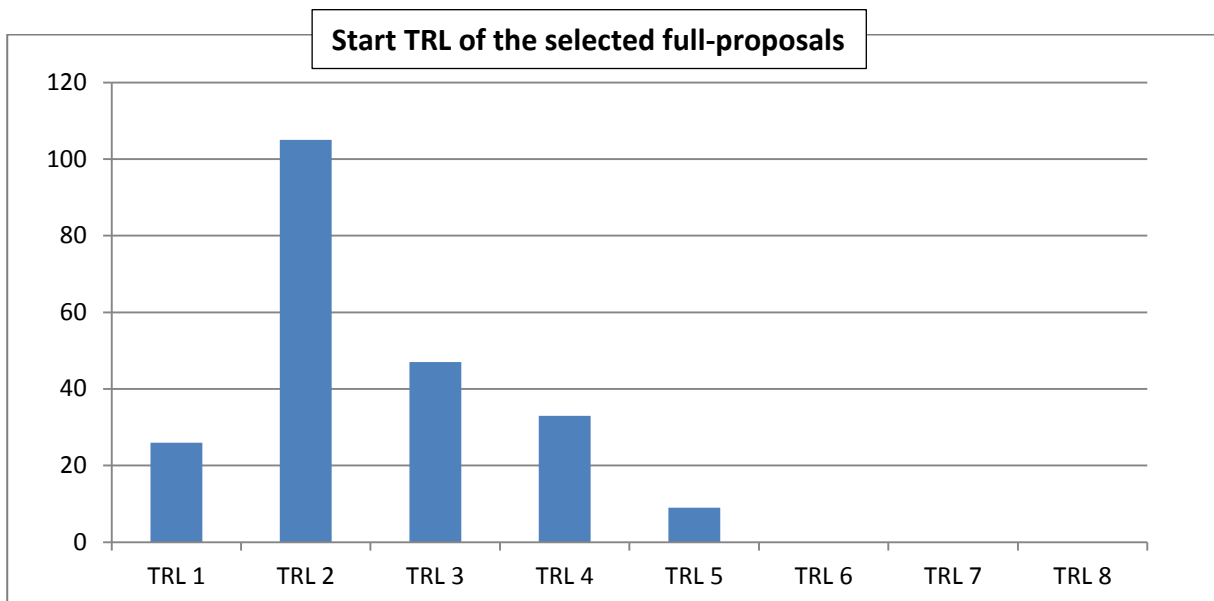**Fig 6.: Selected full-proposals: number of coordinators per organisation type.**



**Fig 7.: Selected full-proposals: number of applicants per start Technology Readiness Level.**
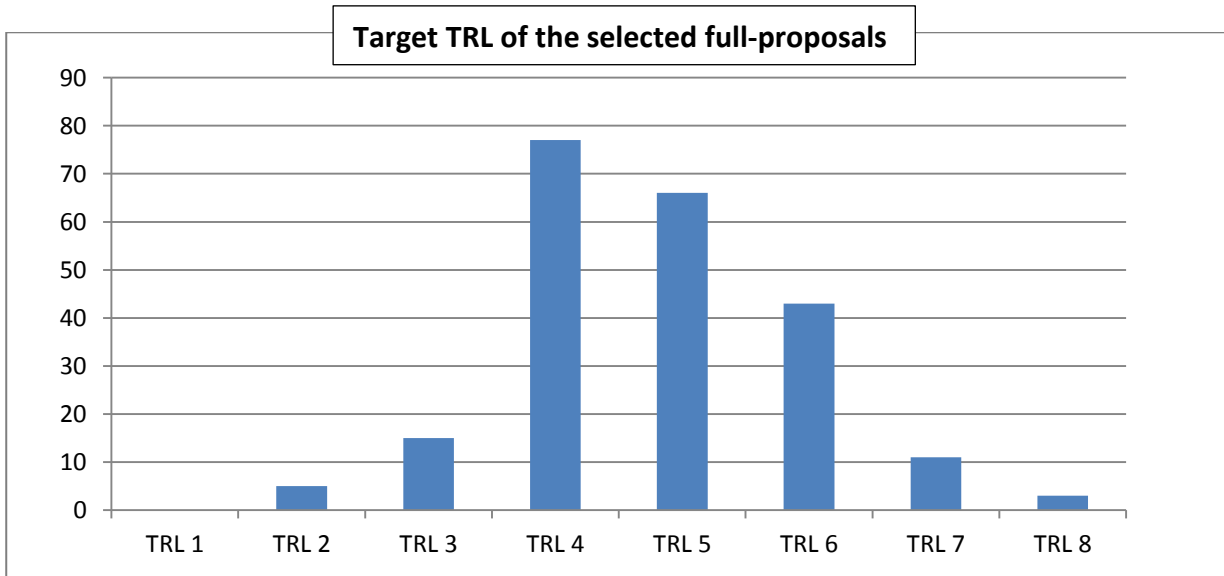
**Fig 8.: Selected full-proposals: number of applicants per target Technology Readiness Level**

More than 50% of the total funding will be granted to proposals that address issues related to low carbon energy technologies (fig. 9).
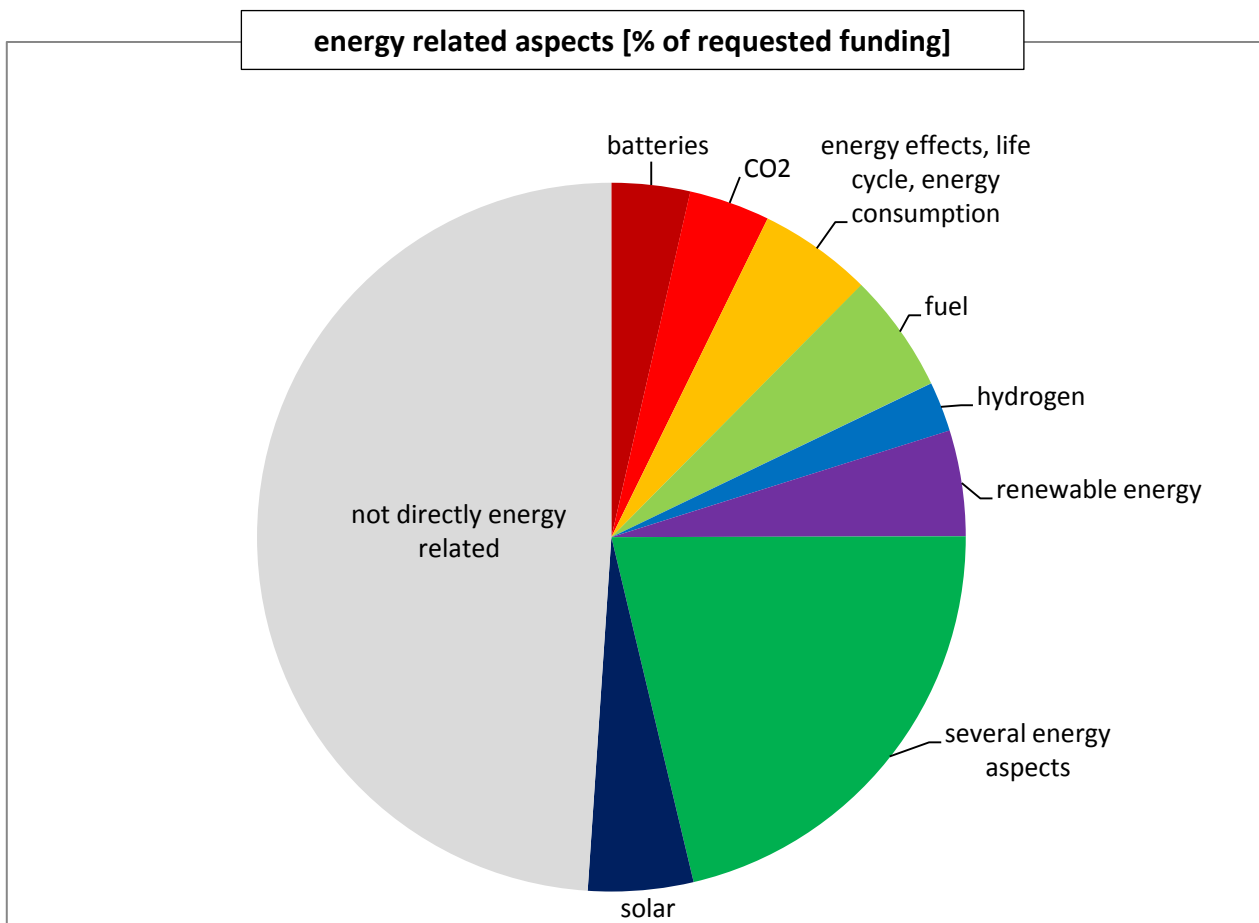


**Fig 9.: Selected full-proposals: analysis of energy related aspects**

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

Fig. 11 a) and b) shows the distribution of applicants of successful proposals per topic and per country.
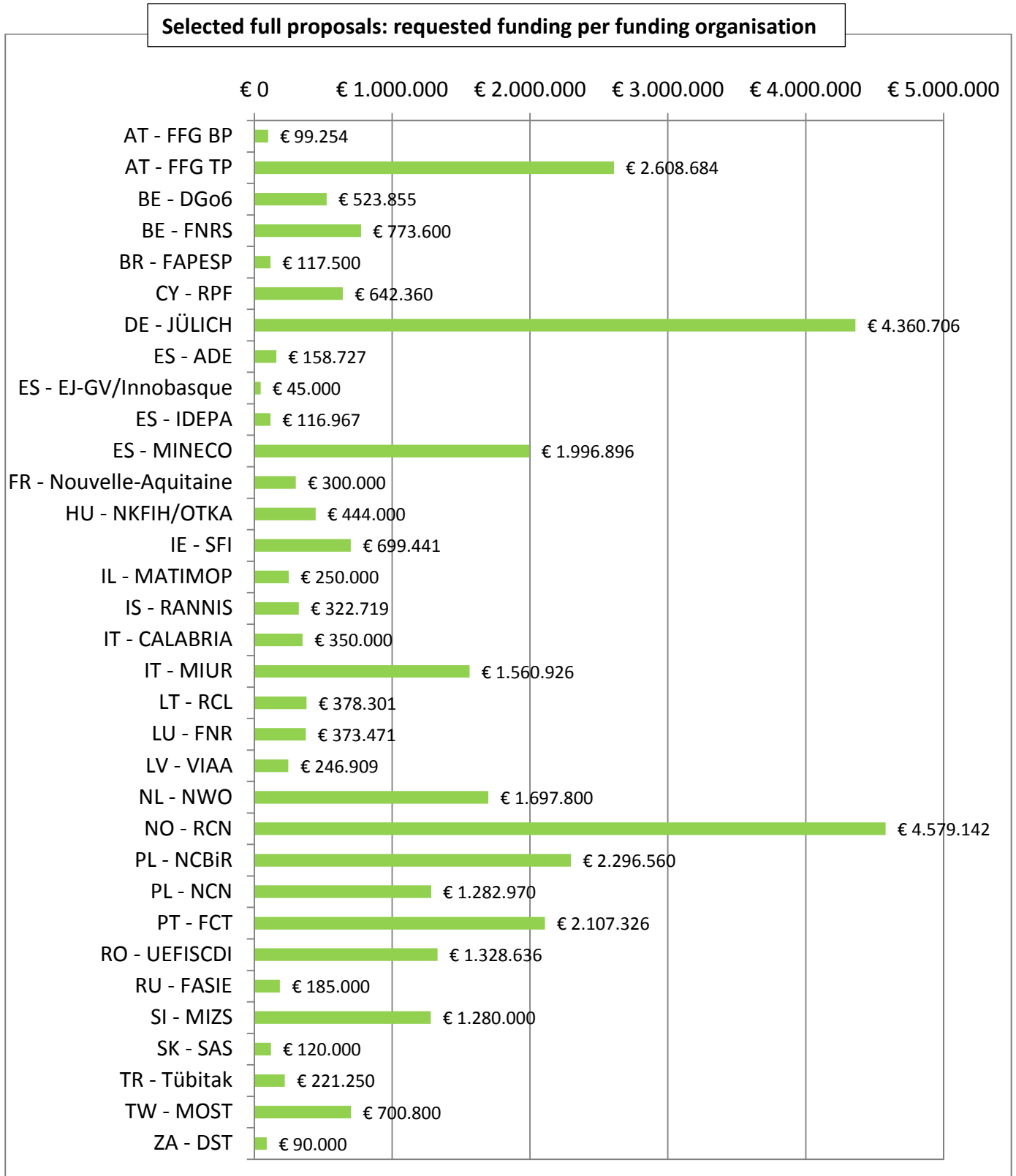
**Selected full proposals: requested funding per funding organisation**

| Funding organisation | Requested funding |
|---|---|
| AT - FFG BP | € 99.254 |
| AT - FFG TP | € 2.608.684 |
| BE - DGo6 | € 523.855 |
| BE - FNRS | € 773.600 |
| BR - FAPESP | € 117.500 |
| CY - RPF | € 642.360 |
| DE - JÜLICH | € 4.360.706 |
| ES - ADE | € 158.727 |
| ES - EJ-GV/Innobasque | € 45.000 |
| ES - IDEPA | € 116.967 |
| ES - MINECO | € 1.996.896 |
| FR - Nouvelle-Aquitaine | € 300.000 |
| HU - NKFIH/OTKA | € 444.000 |
| IE - SFI | € 699.441 |
| IL - MATIMOP | € 250.000 |
| IS - RANNIS | € 322.719 |
| IT - CALABRIA | € 350.000 |
| IT - MIUR | € 1.560.926 |
| LT - RCL | € 378.301 |
| LU - FNR | € 373.471 |
| LV - VIAA | € 246.909 |
| NL - NWO | € 1.697.800 |
| NO - RCN | € 4.579.142 |
| PL - NCBiR | € 2.296.560 |
| PL - NCN | € 1.282.970 |
| PT - FCT | € 2.107.326 |
| RO - UEFISCDI | € 1.328.636 |
| RU - FASIE | € 185.000 |
| SI - MIZS | € 1.280.000 |
| SK - SAS | € 120.000 |
| TR - Tübitak | € 221.250 |
| TW - MOST | € 700.800 |
| ZA - DST | € 90.000 |

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

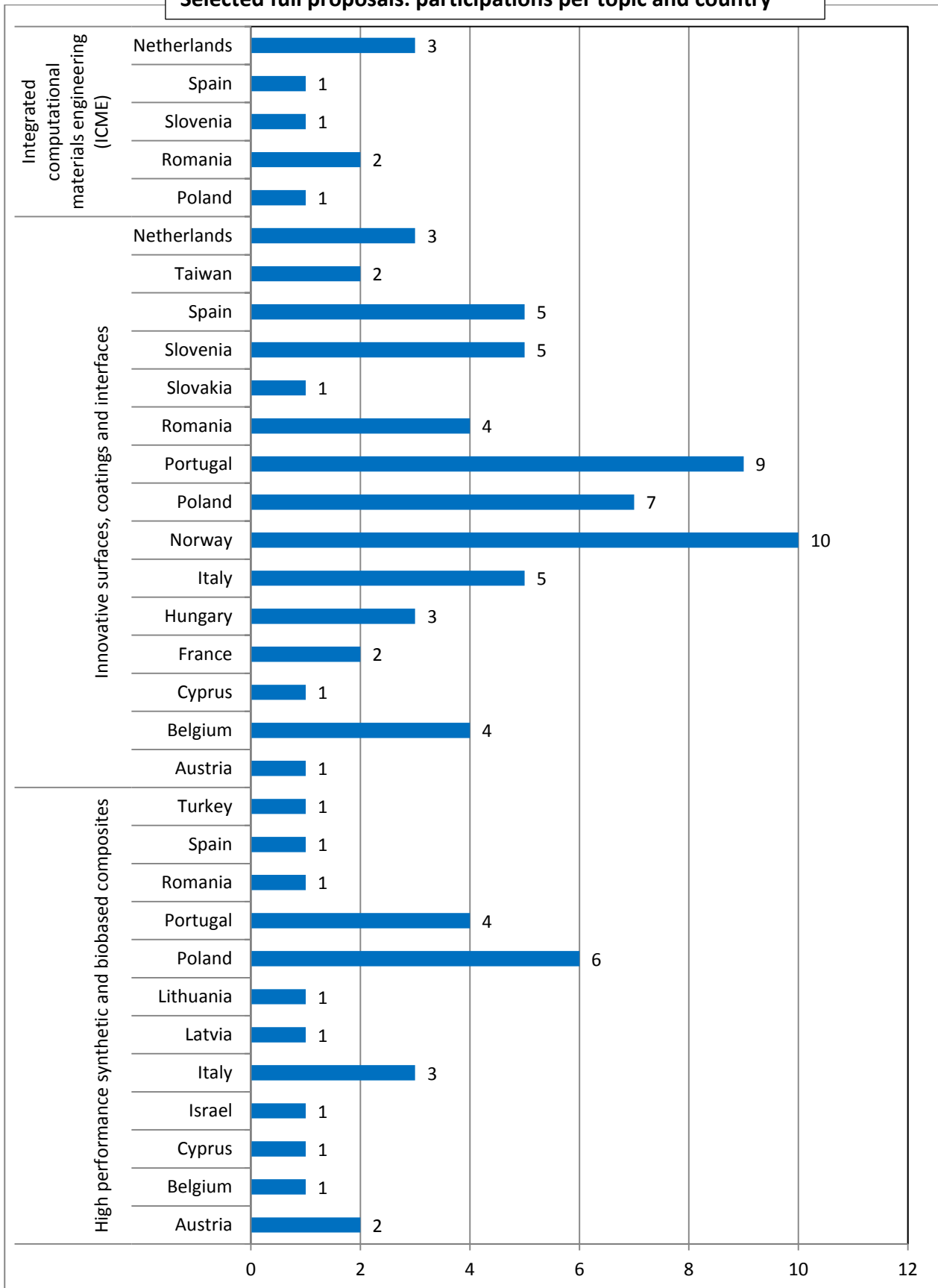**Selected full proposals: participations per topic and country**

**Integrated computational materials engineering (ICME)**

- Netherlands: 3
- Spain: 1
- Slovenia: 1
- Romania: 2
- Poland: 1

**Innovative surfaces, coatings and interfaces**

- Netherlands: 3
- Taiwan: 2
- Spain: 5
- Slovenia: 5
- Slovakia: 1
- Romania: 4
- Portugal: 9
- Poland: 7
- Norway: 10
- Italy: 5
- Hungary: 3
- France: 2
- Cyprus: 1
- Belgium: 4
- Austria: 1

**High performance synthetic and biobased composites**

- Turkey: 1
- Spain: 1
- Romania: 1
- Portugal: 4
- Poland: 6
- Lithuania: 1
- Latvia: 1
- Italy: 3
- Israel: 1
- Cyprus: 1
- Belgium: 1
- Austria: 2

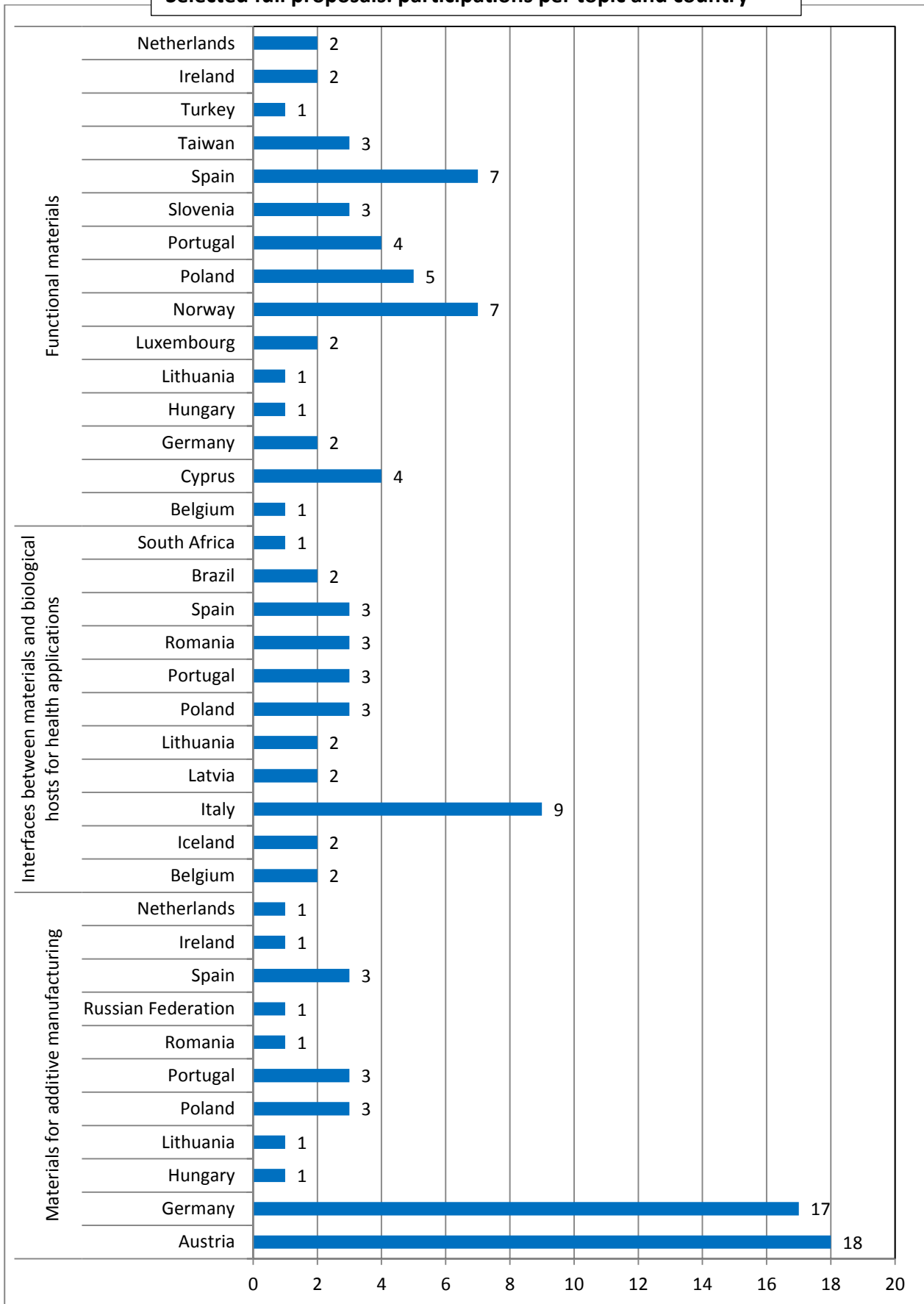**Fig. 11 a: Number of applicants in selected full-proposals per topic and country**

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