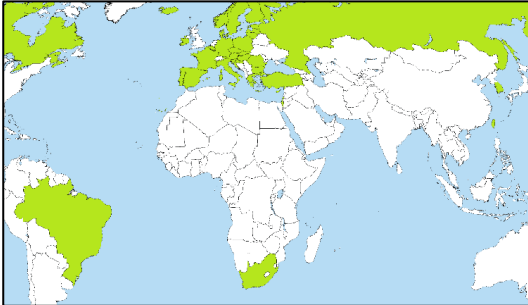# M-ERA.NET 3:

ERA-NET for research and innovation on materials and battery technologies, supporting the European Green Deal

Call 2021

Roland Brandenburg
M-ERA.NET coordinator
FFG, Austria

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Network evolution

M-ERA.NET 3 (2021-2026):
- research and innovation on materials and battery technologies, supporting the European Green Deal
- 50 nat./reg. funding organisations from 36 countries
- largest ERA-NET Cofund consortium
- 5 calls (planned)

M-ERA.NET 2 (2016-2022):
- materials research & innovation
- 43 nat./reg. funding organisations from 30 countries
- 5 calls: 172 funded projects, 125 mio € funding

M-ERA.NET (2012-2016):
- materials science and engineering
- 37 nat./reg. funding organisations from 25 European countries
- 4 calls, 93 funded projects, 71 mio € national/regional funding
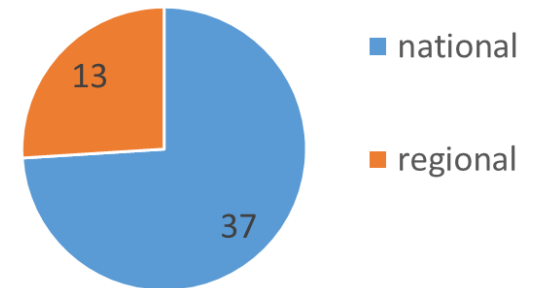
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The M-ERA.NET 3 consortium

- 50 public funding organisations
- 36 countries:
    - 25 EU member states
    - 5 assoc. countries
    - 6 non-European countries
- https://m-era.net/about/m-consortium
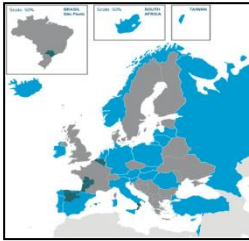
Origin of funding organisations

- EU-13: 13
- EU-14: 25
- assoc. countries: 6
- non-European: 6
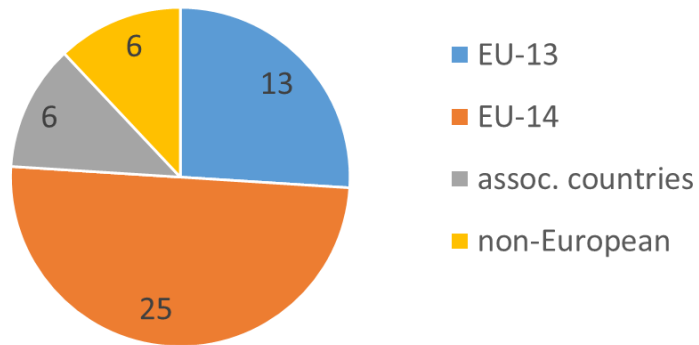
Type of funding organisation

- national: 37
- regional: 13

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Annual joint calls: variable geometry

Call 2016:
35 funding orgs.
22 Eur. countries
+ Brazil + Russia +
South Africa +
Taiwan

Call 2017:
31 funding orgs.
22 Eur. countries
+ Brazil + Korea
+ Russia + Taiwan
+ South Africa

Call 2018:
33 funding orgs.
20 Eur. countries
+ Brazil + Russia +
South Africa +
Taiwan

Call 2019:
35 funding orgs.
21 Eur. countries
+ Brazil + Canada
+ Russia + South
Africa + Taiwan

Call 2020:
28 funding orgs.
16 Eur. countries
+ Brazil + Canada
+ Russia + South
Africa + Taiwan

233 pre-prop.
89 full prop.
46 funded
projects
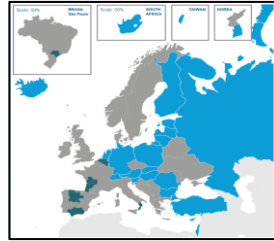
91 pre-prop.
48 full prop.
20 funded
projects

166 pre-prop.
90 full prop.
27 funded
projects
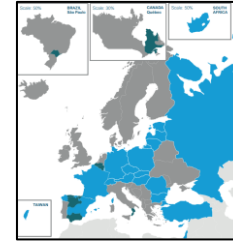
233 pre-prop.
123 full prop.
37 funded
projects

237 pre-prop.
144 full prop.
42 funded
projects

full documentation: ***https://www.m-era.net/joint-calls***

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M-ERA.NET achievements: joint calls -substantial national and regional funding for transnational RTD cooperation

Call	submitted proposals	funded projects	total funding volume	total project costs
2012	124	23	16.4 M€	21.8 M€
2013	166	26	22.9 M€	33.5 M€
2014	173	22	15.8 M€	22.9 M€
2015	156	22	16.5 M€	23.0 M€
2016	233	46	32.2 M€ (incl. 10.2 M€ EU top-up)	42.2 M€
2017	91	20	15.8 M€	21.7 M€
2018	166	27	18.2 M€	25.5 M€
2019	233	37	26.9 M€	33.7 M€
2020	237	42	32.3 M€	41.8 M€
total	**1579**	**264**	**197.0 M€**	**266.1 M€**

full documentation: https://www.m-era.net/joint-calls

funded applicants (average)

Research org.; 29%
SME; 28%
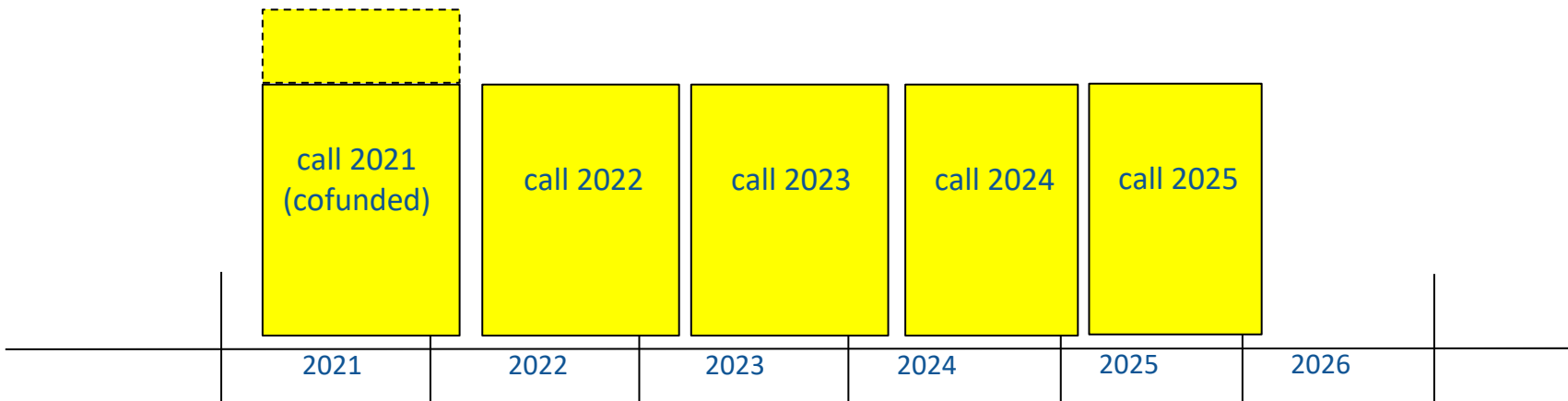Large industry; 8%
University; 35%
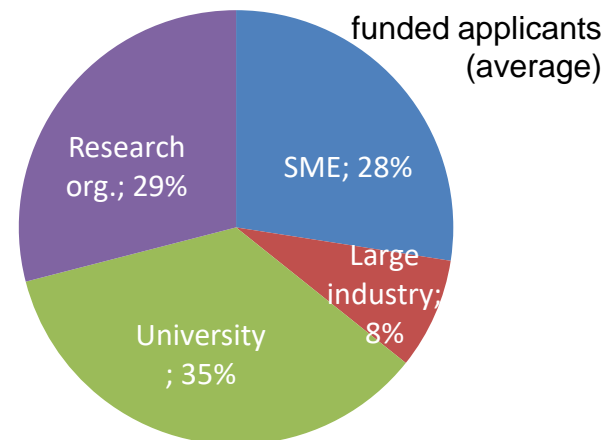
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M-ERA.NET objectives 2021-2026

- **cofunded call** ("Call 2021") -total call budget approx. 60 mio € including EU top-up funding;

- **additional <u>annual joint calls</u> without EU cofunding**

- **total public call budget > 150 million €** with additional private investment of 50 million €;

- highlight research on materials supporting the **circular economy** and relevant **Sustainable Development Goals**, in particular **SDG 7 ("Affordable and clean energy")** supporting future battery technologies, and **SDG 9 ("Industrial innovation and infrastructure")** by enhancing scientific research and upgrading the technological capabilities of industrial sectors**.**

- programmatic guidance by **"European Green Deal", Circular Economy Action Plan,** the **2030 Agenda for Sustainable Development,** the EC communication **"A clean planet for all"**

- establish a dialogue with the European and international RTD community

- raise awareness among stakeholders on potential RRI (**Responsible Research and Innovation**) issues and develop RRI-guidelines for materials research

- **monitor the funded RTD projects** emerging from the joint calls

- valorise the **results of funded projects** and promote the **take-up of the developed technologies**

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M-ERA.NET schedule 2021-2026

- ➢ duration M-ERA.NET 3: 3/2021-2/2026
- ➢ 5 calls: annual joint calls for proposals
- ➢ additional joint activities for and with the RTD community

M-ERA.NET 3

| call 2021 (cofunded) | call 2022 | call 2023 | call 2024 | call 2025 |

2021   2022   2023   2024   2025   2026

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Call 2021: participating countries

❖ **45 national/regional funding organisations participate in the M-ERA.NET Call 2021**

❖ https://m-era.net/joint-calls/joint-call-2021/participating-countries-regions-call-2021

  ➢ matrix of countries/regions & supported topics
  ➢ detailed information on national/regional programmes:
    ➢ national/regional requirements
    ➢ contacts (see also Guide for Proposers, Annex 3)

Call 2021: topics

1) **Modelling for materials engineering, processing, properties and durability**
2) **Innovative surfaces, coatings and interfaces**
3) **High performance composites**
4) **Functional materials**
5) **New strategies for advanced material-based technologies in health applications**
6) **Materials for additive manufacturing**

➢ **Guide for proposers:** Topics, horizontal objectives, eligibility criteria, national/regional contacts

https://m-era.net/joint-calls/joint-call-2021/call2021-guideforproposers.pdf

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Eligibility

1. **M-ERA.NET eligibility criteria**

2. **National/Regional eligibility criteria**

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M-ERA.NET eligibility criteria:

- ✓ minimum requirement for project consortia:
  - at least **3 partners** (all requesting funding from a funding organisation) from at least **2 different countries** (at least **2 EU member** states or H2020 **associated countries**) **participating in the M-ERA.NET Call 2021**.
  - The consortia may involve as many partners as necessary.
- ✓ All project partners must belong to a country/region participating in the M-ERA.NET Call 2021.
- ✓ Consortia **cannot include** partners from countries/regions not participating in the Call 2021
- ✓ Coordinator must request funding from a participating funding organisation
- ✓ TRLs must be appropriate for selected topics
- ✓ project duration max 36 months
- ✓ The total effort of one single partner cannot exceed 60% of the total project efforts (measured in person months) in the proposal;
- ✓ The total effort of partners from one country cannot exceed 70% of the total project efforts (measured in person months) in the proposal.
- ✓ Mandatory pre-proposal forms, written in English, submitted before deadline
- ✓ PIC (Participant Identification Code) for all partners –available via EC portal
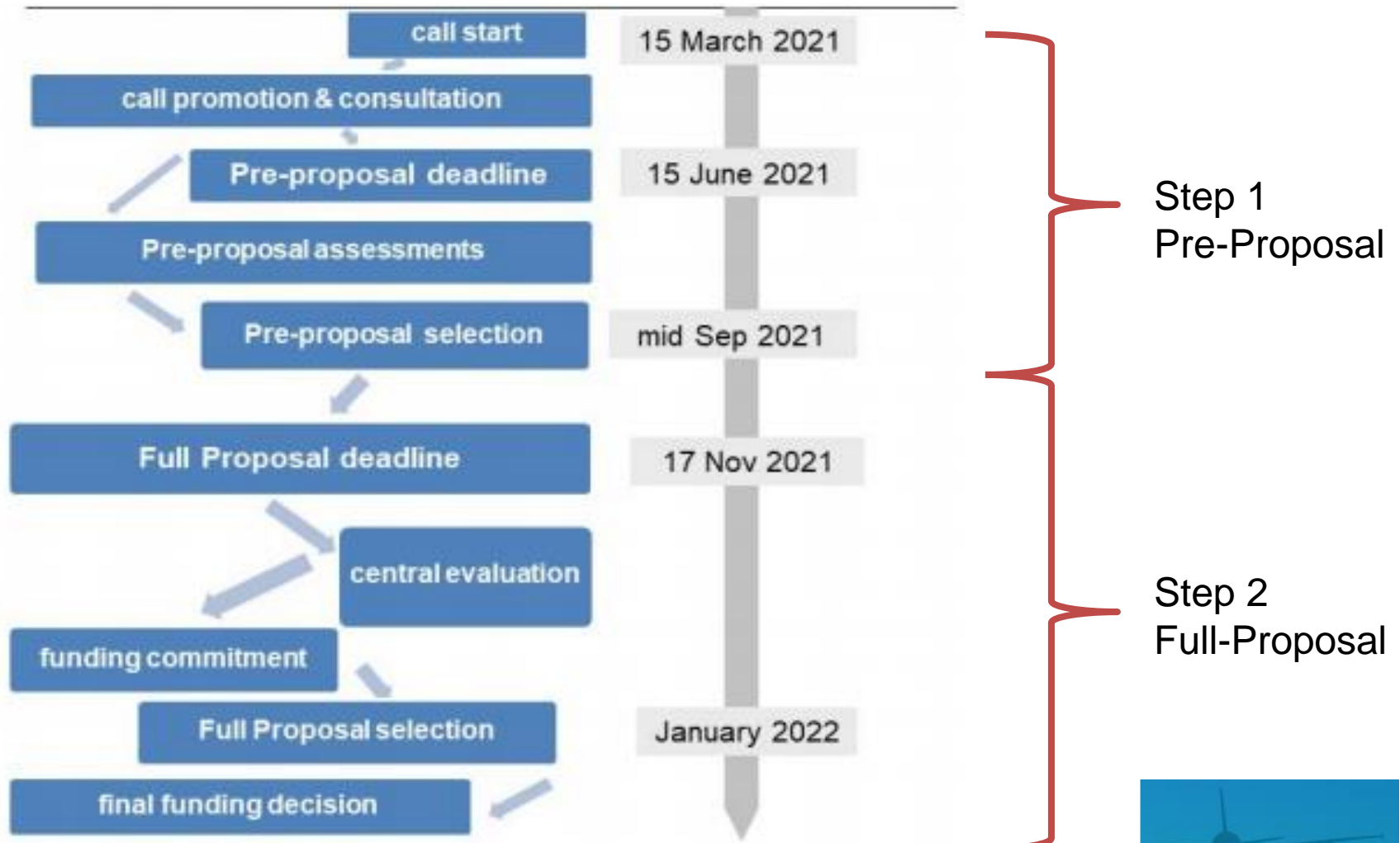
- ➢ see FAQs, Guide for Proposers

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National/Regional eligibility criteria

➢ defined by respective funding organisation –see country/region sub-pages

   ➢ https://m-era.net/joint-calls/joint-call-2021/participating-countries-regions-call-2021

➢ examples/categories:

   • type of applicants (SMEs, large companies, academic research groups, universities, public research organisations or other research organisations)
   • financial status of applicants (especially industrial applicants);
   • selected call topics;
   • range of TRLs for the selected topic
   • specific national/regional application forms (if applicable)
   • limited number of Pre-Proposals per applicant
   • consortium composition
   • potential limitation of requested budgets per pre-proposal.

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Call 2021 workflow

national/regional   M-ERA.NET

M-ERA.Net workflow	Date	Step
call start	15 March 2021	Step 1 Pre-Proposal
call promotion & consultation		
Pre-proposal deadline	15 June 2021	
Pre-proposal assessments		
Pre-proposal selection	mid Sep 2021	
Full Proposal deadline	17 Nov 2021	Step 2 Full-Proposal
central evaluation		
funding commitment		
Full Proposal selection	January 2022	
final funding decision		

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Thank you !

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