

M-ERA.NET 3:

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

Roland Brandenburg 6 October 2022



Network evolution



M-ERA.NET 3 (2021-2026):

- ERA-NET COFUND (H2020) for research and innovation on materials and battery technologies, supporting the European Green Deal
- 50 nat./reg. public funding organisations from 36 countries
- largest ERA-NET Cofund consortium



M-ERA.NET 2 (2016-2022):

- ERA-NET COFUND (H2020) for materials research & innovation
- 43 nat./reg. public funding organisations from 30 countries



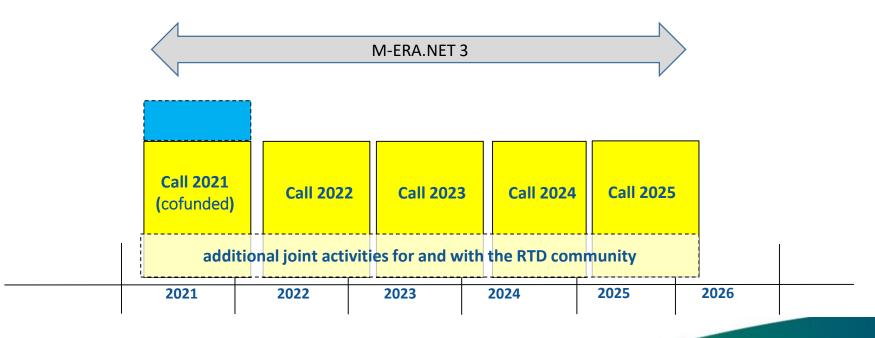
M-ERA.NET (2012-2016):

- ERA-NET (FP7) for materials science and engineering, including international cooperation
- 37 nat./reg. public funding organisations from 25 European countries



M-ERA.NET schedule 2021-2026

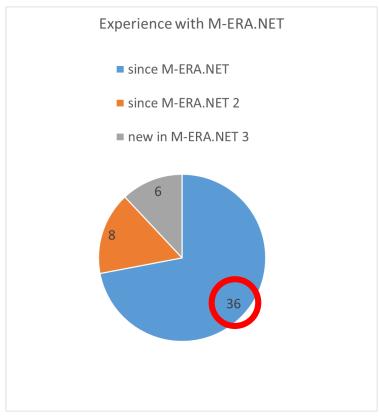
- ➤ duration **M-ERA.NET 3**: 3/2021-2/2026
- ➤ M-ERA.NET 3 Vision & Policy for joint programming
- > annual joint calls for proposals
- > additional joint activities for and with the RTD community





A diverse, expanding and experienced partnership

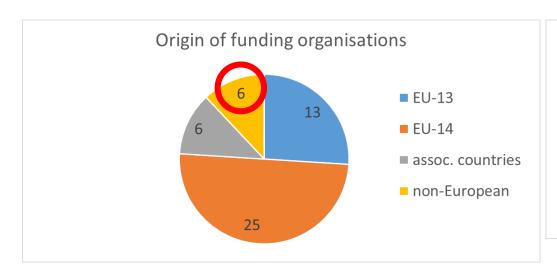
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		2012		2014		2016				2020	2021	2022	2023	2024	2025
AT	FFG	2012	2010	2011	2013	2010	2017	2010	2013	2020	2021	LULL	2023	2021	2023
BE	FWO														
BE	VLAIO														
BE	FNRS														
BE	SPW														
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BR	FAPESP														
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FI	AKA														
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FR	ANR														
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GR	GSRT														
HR	MZO														
HU	NKFIH														
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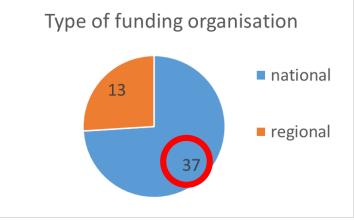




The M-ERA.NET 3 consortium

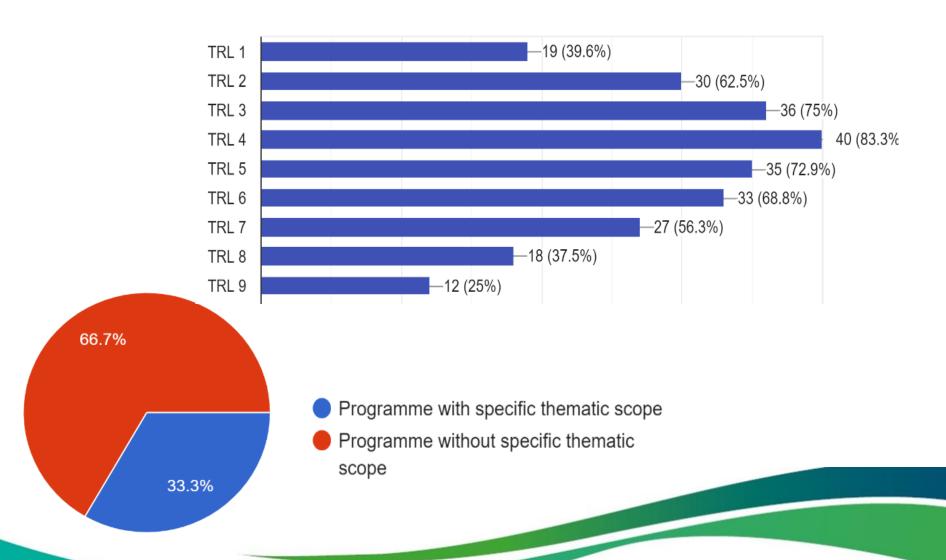
- 50 public funding organisations
- 36 countries:
 - 25 EU member states
 - 5 assoc. countries
 - 6 non-European countries
- https://m-era.net/about/m-consortium







Involved national/regional funding schemes





M-ERA.NET objectives 2021-2026

- ✓ cofunded call ("Call 2021") -total call budget approx. 70 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
 - o to identify emerging trends and
 - o to meet priorities and needs at European, national and regional levels
- 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



Annual joint calls: variable geometry

Call 2016:

35 funding orgs. 22 EU MS/AC + Brazil + Russia + South Africa Taiwan

233 pre-prop.

89 full prop.

46 funded

projects

<u>Call 2017:</u>

31 funding orgs. 22 EU MS/AC + Brazil + Russia + South Africa + Soyan Korea + Taiwan



91 pre-prop. 48 full prop. 20 funded projects

Call 2018:

33 funding orgs. 20 EU MS/AC + Brazil + Russia + South Africa Taiwan



166 pre-prop. 90 full prop. 27 funded projects

Call 2019:

35 funding orgs. 21 EU MS/AC + Brazil + Canada + Russia south Africa + Taiwan



233 pre-prop. 123 full prop. 37 funded projects

Call 2020:

28 funding orgs. 16 EU MS/AC + Brazil + Canada + Russia + South Africa + Taiwan



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

Call 2021:

45 funding orgs. 26 EU MS/AC + Brazil + Canada + Russia + South Africa + South Korea



493 pre-prop. 171 full prop. 70 funded projects

Taiwan participation in M-ERA.NET calls since 2012



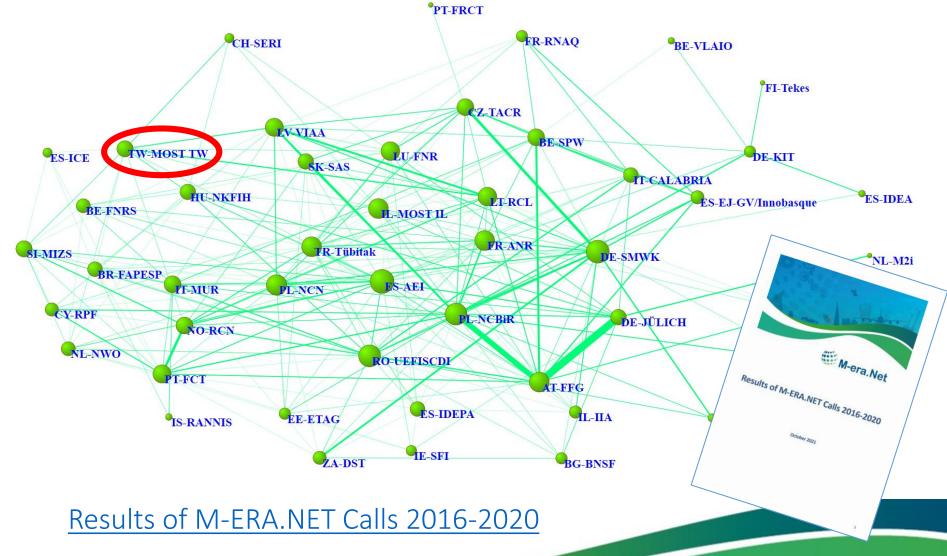
M-ERA.NET joint calls 2016-2020: Taiwan participation

M-ERA.NET 2									
Call	subm	nitted	funded						
	# applicants	# proposals	# applicants	# projects	total funding [EUR]				
2016	19	13	5	3	€ 700 800				
2017	12	8	2	1	€ 600 000				
2018	16	12	3	2	€ 470 000				
2019	12	9	2	2	€ 424 388				
2020	12	8	1	1	€ 200 000				
	71	50	13	9	€ 2 395 188				

M-ERA.NET 3										
Call	subm	nitted	funded							
Call	# applicants	# proposals	# applicants	# projects	total funding [EUR]					
2021	21	17	3	3	€ 520 000					
2022	20	18								

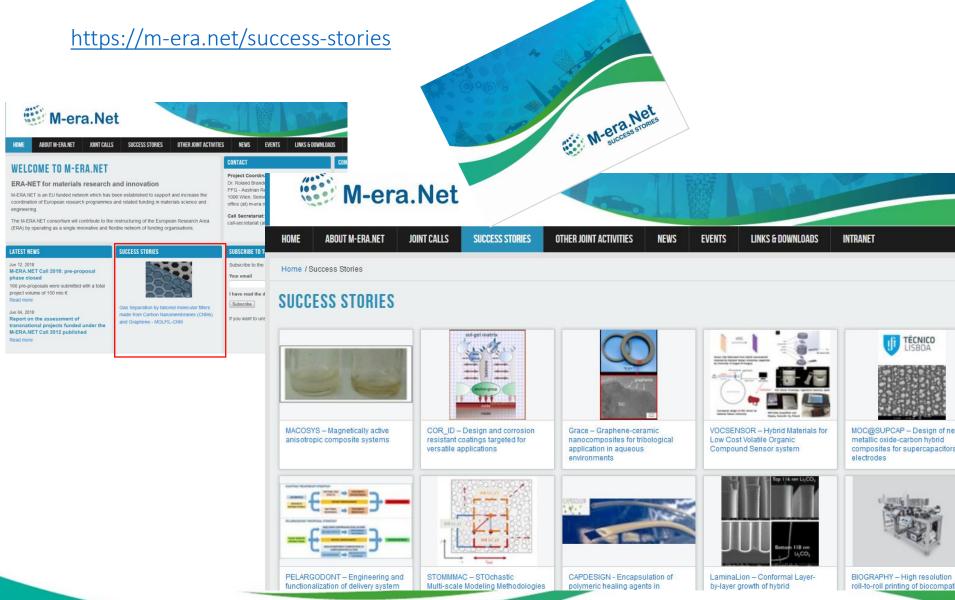


Facilitating transnational networking





Dissemination of results: funded projects





M-ERA.NET joint activities (I)

- programme surveys among the entire network to identify common approaches and mutual learning needs
- international cooperation: participation in joint calls:
 - o Taiwan (MoST/NSTC): Call 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022
 - o Brazil (FAPESP): Call 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022
 - South Korea (KIAT): Call 2015, 2017, 2021, 2022
 - o South Africa (DST): Call 2016, 2017, 2018, 2019, 2020, 2021, 2022
 - o Canada/Québec (PRIMA): Call 2019, 2020, 2021, 2022
 - o (Russia (FASIE): Call 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021)
- > cooperation with RTD community: identify stakeholders incl. active networks with relevant thematic scope



M-ERA.NET joint activities (II)

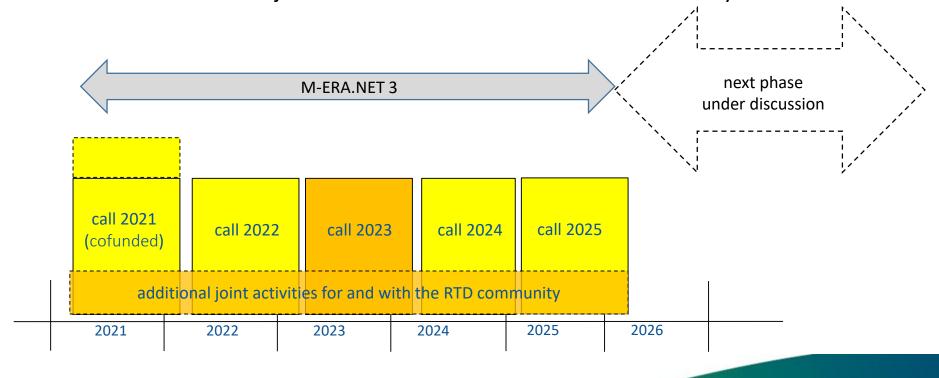
- database of research clusters & competence centres
- project monitoring & assessment: joint analysis of submitted proposals & funded projects
- Responsible Research & Innovation: guidelines for RRI (published 2022)
- dissemination and events:
 - website, Twitter, newsletter
 - publication of success stories
 - o participation in national and international events (e.g. exhibition booth @Industrial Technologies 2022, TW Infoday, ...)

https://m-era.net/other-joint-activities



Outlook: 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





Thank you!

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www.m-era.net

