



Call 2025 Webinar

Agenda

- Introduction – F. Quist
- General presentation of the Network – R. Brandenburg
- Presentation of the Work Programme – J. Sotelo / R. Pacios
- Presentation of the RRI guidelines – C. A. Mathiesen
- Presentation of the guide for proposers & general procedures
 - Participating countries & eligibility – R. Brandenburg
 - Schedule and workflow – L. Chaperman
 - Call documents – S.-L. Lee Müller
- Questions and answers

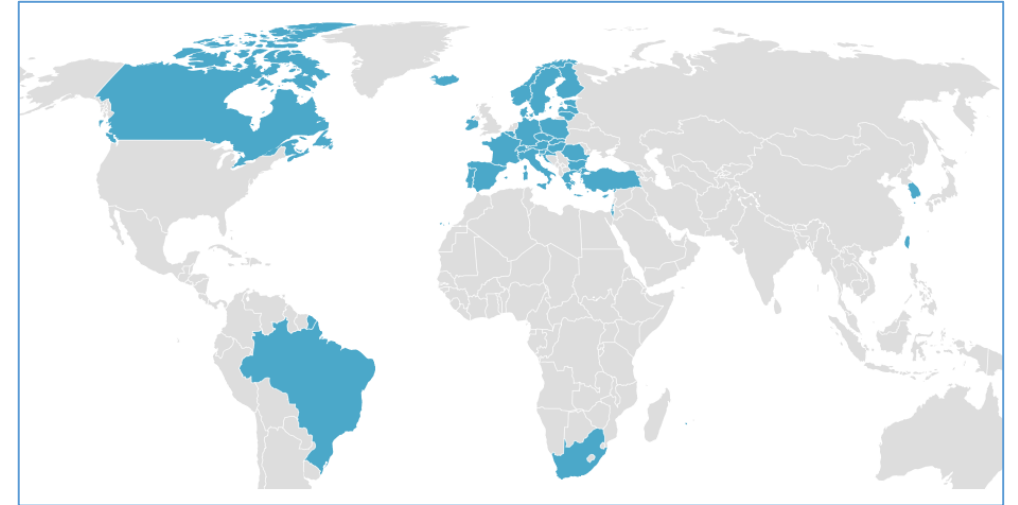


M-ERA.NET 3: ERA-NET for research and innovation on materials and battery technologies, supporting the European Green Deal

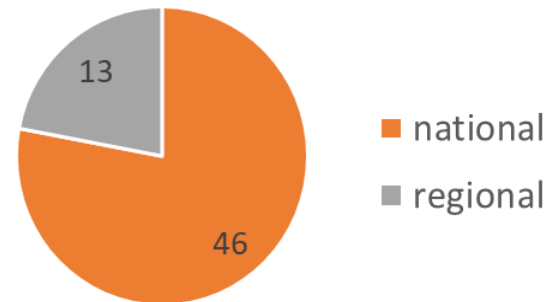
Roland Brandenburg
M-ERA.NET coordinator
Call 2025 webinar, 25 March 2025

The M-ERA.NET 3 consortium

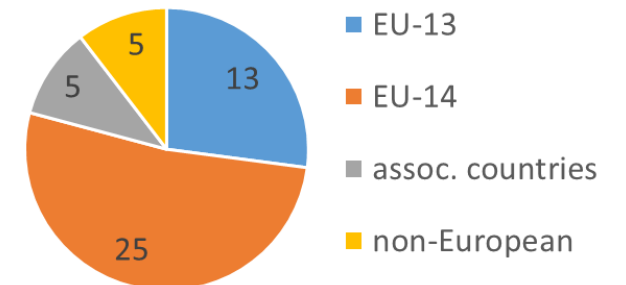
- successor of M-ERA.NET 2 (2016-2022) & M-ERA.NET (2012-2016)
- **largest ERA-NET Cofund network** (since 2012)
- M-ERA.NET 3: 2021-2026
 - 49 public funding organisations (agencies, councils & ministries)
- 35 countries:
 - **25 EU Member States**
 - **11 EU regions**
 - **5 Associated Countries**
 - **5 non-European countries**



Type of organisations

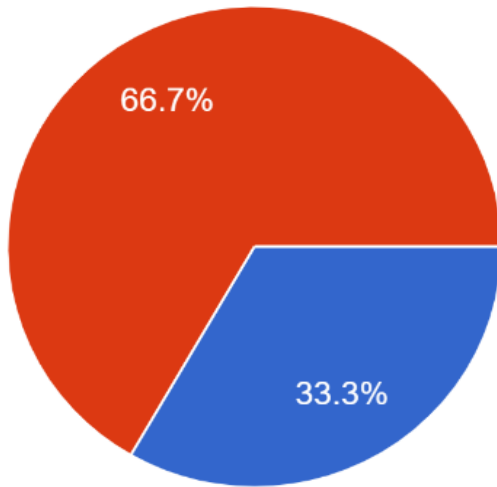


Origin of funding organisations



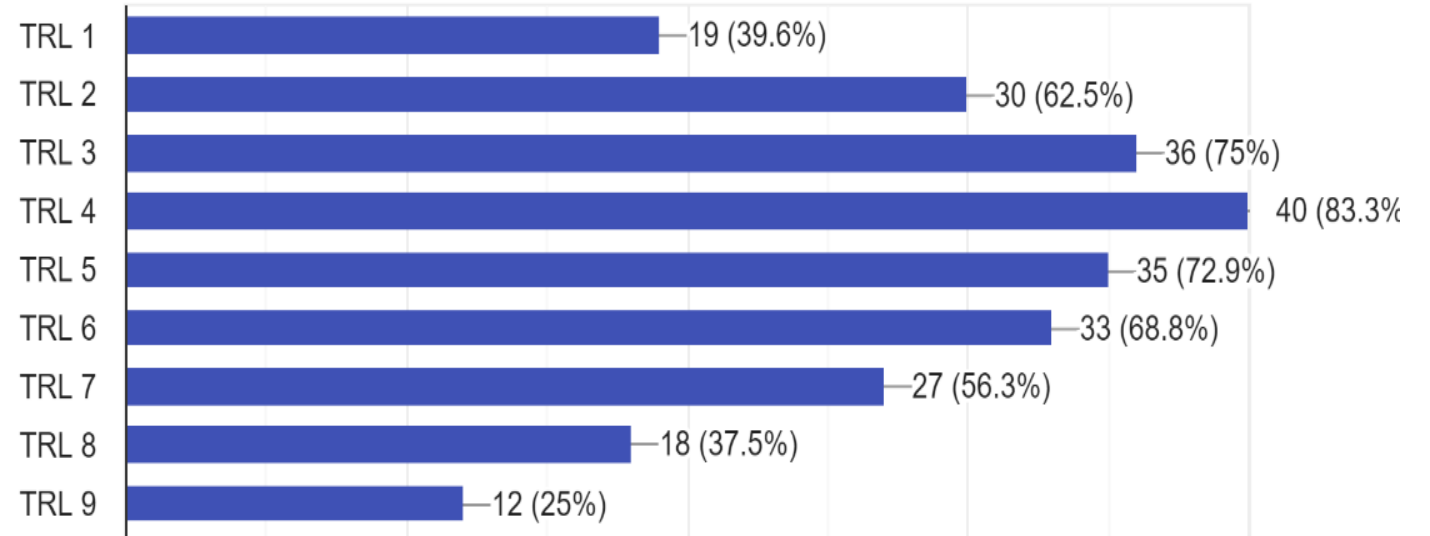
Involved national/regional funding schemes

➤ flexibility to address emerging priorities



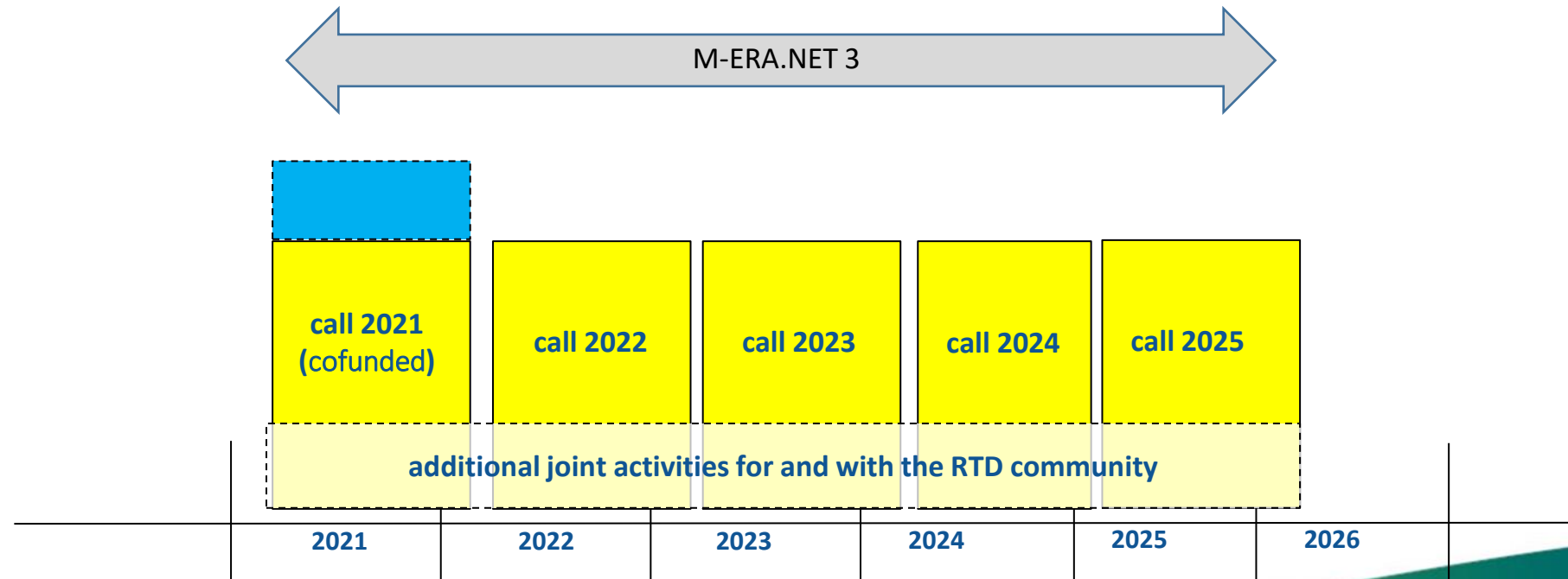
- Programme with specific thematic scope
- Programme without specific thematic scope

➤ broad overall TRL range eligible for national/regional funding



M-ERA.NET schedule 2021-2026

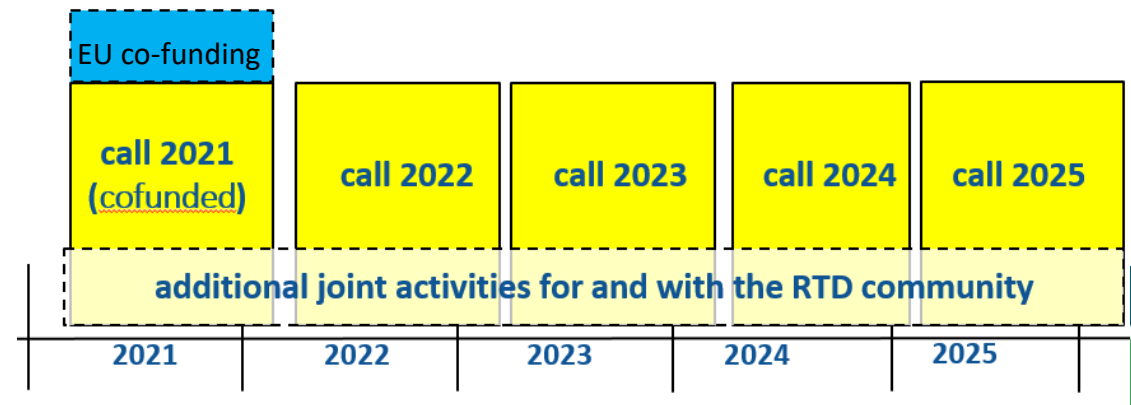
- **M-ERA.NET 3** duration: 2021-2026 (EU project)
- **5 joint transnational calls** for proposals
- additional joint **activities for and with the RTD community**



M-ERA.NET objectives 2021-2026



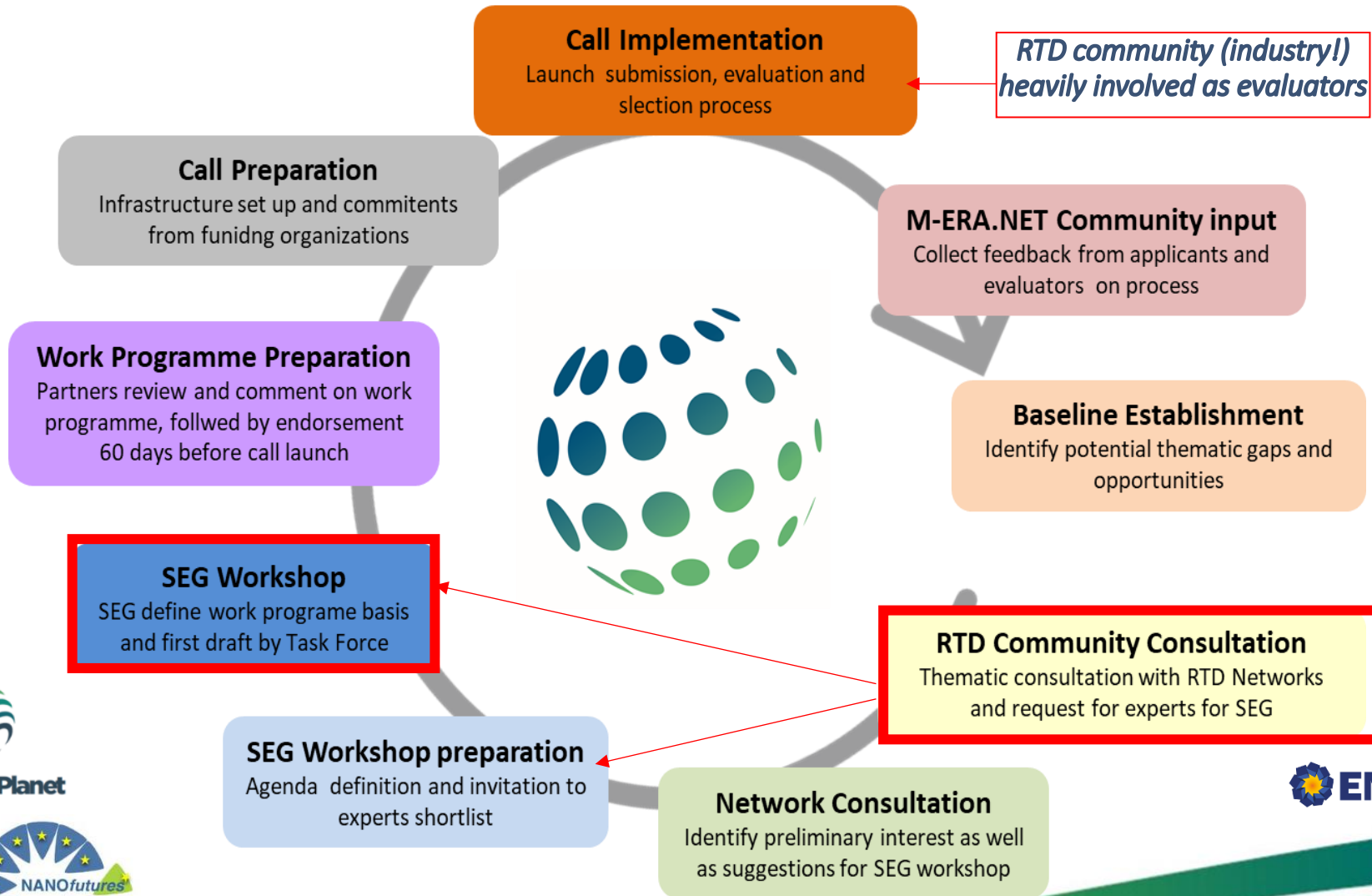
- **strengthen the European RTD community and economy** in materials research and innovation
- enhance scientific research and **upgrade the technological capabilities of industrial sectors**
- drive innovations to make **substantial contributions to EU policy priorities**
- **align** priorities and needs at **European, national and regional level**
- seek **synergies**, avoid overlaps & reduce fragmentation of efforts & funding
- **actively involve** the European and international **RTD community in joint strategic programming**: reinforce the dialogue with **relevant stakeholders**, ask for **external advice** to identify **emerging trends**
- implement **annual joint calls** with a critical mass of **public funding: > 230 mio. €**
- analyse **impact of activities on industry & academia**
- aim at **long-term benefit & commitment**
- prepare **next phase** under Horizon Europe



M-ERA.NET thematic objectives

- highlight **research on advanced materials** targeting the green and digital transition, circular economy and Sustainable Development Goals, in particular
 - **SDG 6 ("Clean water and sanitation")** by developing materials and processes for water treatment
 - **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.
 - **SDG 12 ("Ensure sustainable consumption and production patterns")** through an environmentally sound management of natural resources and reduced waste generation
- consider programmatic guidance by several European communications and roadmaps (e.g. **"European Green Deal", Circular Economy Action Plan, 2030 Agenda for Sustainable Development**, and others)
- raise awareness among stakeholders on potential RRI (**Responsible Research and Innovation**) issues and develop RRI-guidelines for materials research

Involve relevant stakeholders in the annual joint programming cycle



RTD community (industry!) heavily involved as evaluators

key players actively involved –synergies with other platforms



Thematic priorities: continuity & flexibility as needed

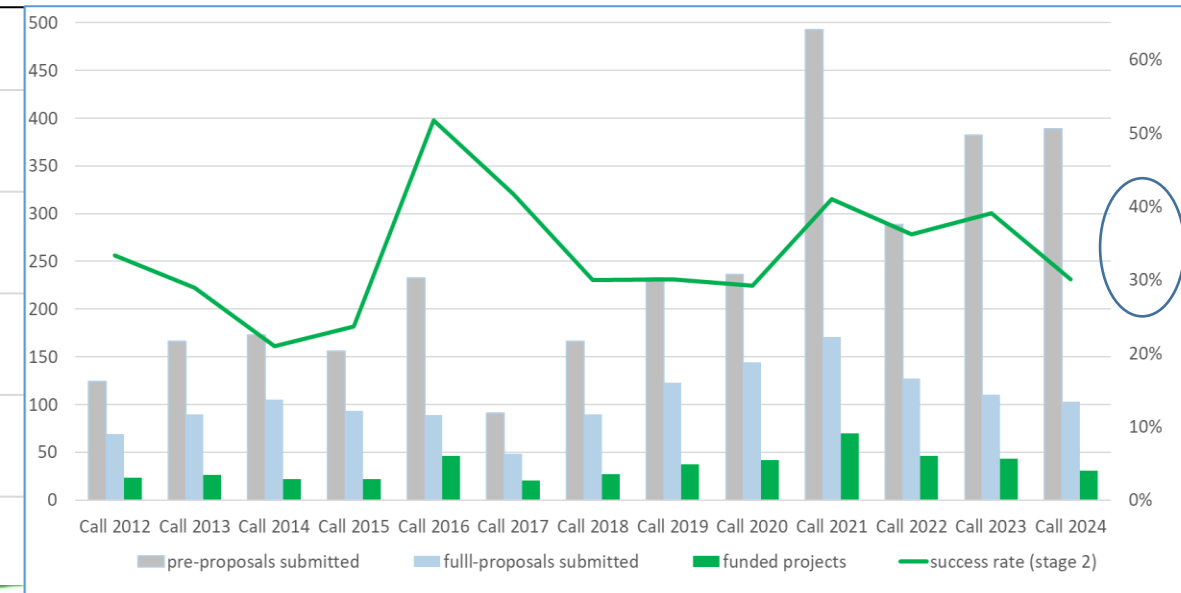
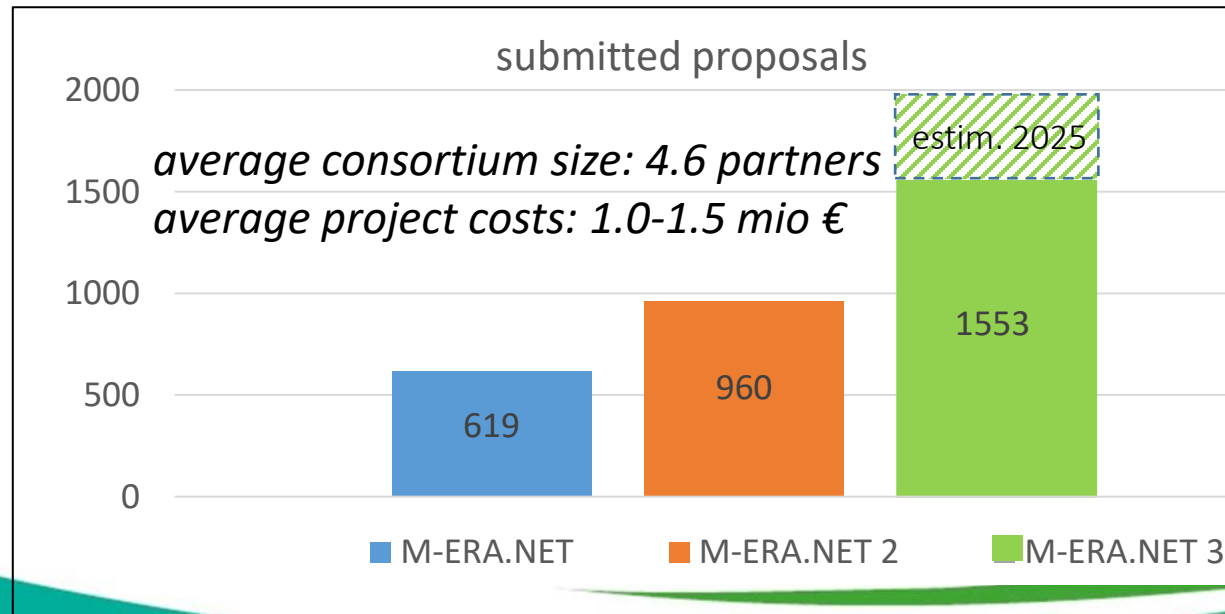
Call 2016	Call 2017	Call 2018	Call 2019	Call 2020	Call 2021	Call 2022	Call 2023	Call 2024
Integrated computational materials engineering	Integrated computational materials engineering	Multiscale modeling for materials engineering and processing	Modeling for materials engineering and processing	Modeling for materials engineering and processing	Modeling for materials engineering and processing	Materials for energy	Materials for energy	Materials for energy
Innovative surfaces, coatings and interfaces	Innovative surfaces, coatings and interfaces	Innovative surfaces, coatings and interfaces	Innovative surfaces, coatings and interfaces	Innovative surfaces, coatings and interfaces	Innovative surfaces, coatings and interfaces	Innovative surfaces, coatings and interfaces	Innovative surfaces, coatings and interfaces	Innovative surfaces, coatings and interfaces
High performance composites	High performance composites	High performance composites	High performance composites	High performance composites	High performance composites	High performance composites	High performance composites	High performance composites
Interfaces between materials and biological hosts for health applications	New strategies for advanced material-based technologies for health applications	New strategies for advanced material-based technologies for health applications	New strategies for advanced material-based technologies for health applications	New strategies for advanced material-based technologies for health applications	New strategies for advanced material-based technologies for health applications	New strategies for advanced material-based technologies for health applications	New strategies for advanced material-based technologies for health applications	Materials addressing environmental challenges
Functional materials	Multifunctional materials	Functional materials	Functional materials	Functional materials	Functional Materials	Functional Materials	Functional Materials	Functional Materials
Materials for additive manufacturing	Materials for additive manufacturing	Materials for additive manufacturing	Materials for additive manufacturing	Materials for additive manufacturing	Materials for additive manufacturing	Materials for electronics	Materials for electronics	Materials for electronics

Thematic priorities (also) covered

- **sustainability and RRI:** since 2023 a **mandatory part** in each topic → **RRI guidelines developed** by M-ERA.NET
 - **raw materials:** Call 2025 –addressed in all topics
 - **batteries:** Call 2025 – Advanced Materials for Energy, Innovative Surfaces & Coatings; was explicit focus area suggested by EC in 2020/2021 with dedicated budget;
 - **2D materials:** Call 2025 – Functional Materials, Next generation Materials for Electronics; Graphene: promotion of relevant funded projects to facilitate cooperation with the Graphene Flagship
 - **light-weight materials:** Call 2025 : Sustainable Advanced Materials for Energy
 - **modelling, AI:** Call 2025 – addressed in topics 1,2,5,6
 - **standardisation/regulatory research:** Call 2025: Sustainable Advanced Materials for Energy
- M-ERA.NET thematic scope is flexible & **adjustable to trends and needs at European, national & regional levels**

Joint Calls: reaching a wide community - increasing interest

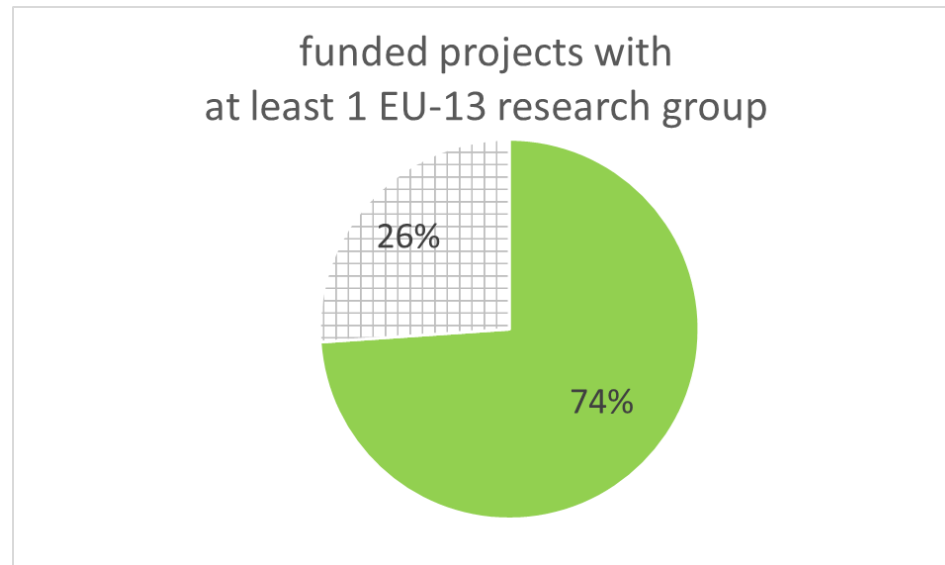
	Call	submitted proposals	funded projects	total public funding [Mio €]	total project costs [Mio €]
M-ERA.NET	2012-2015	619	93	71.6	101.2
M-ERA.NET 2	2016-2020	960	172	125.4	164.9
M-ERA.NET 3	2021	493	70	69.9	82.1
	2022	289	46	43.7	52.5
	2023	1553	190	188.7	223.1
	2024	382	43	44.1	51.4
	2025	389	31	31.0	37.1
	2025	?	?	?	?



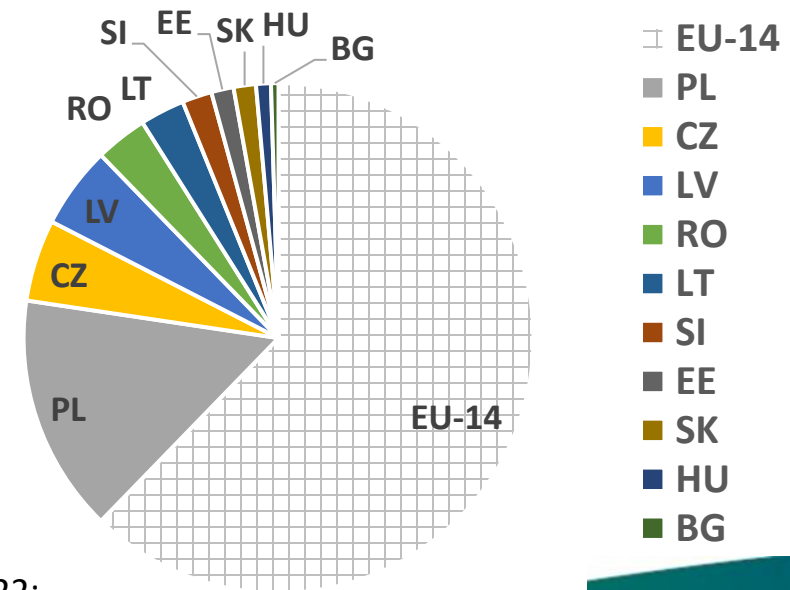
M-ERA.NET: strong performance of widening (EU-13) countries

example: Call 2022

- share of funded projects with >1 research group from a widening (EU-13) country: **74%**
- share of applicants from a widening (EU-13) country in funded projects: **38 %**
- share of coordinators from a widening (EU-13) country in funded projects: **28%**
- share of national/regional funding from widening (EU-13) countries in funded projects: **31%**

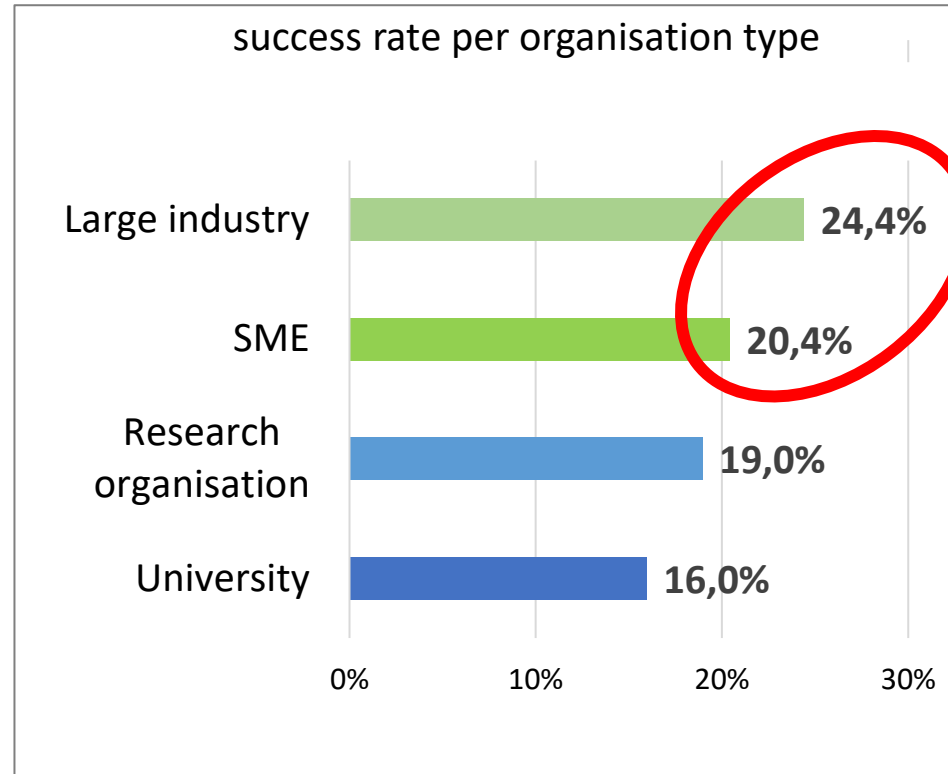
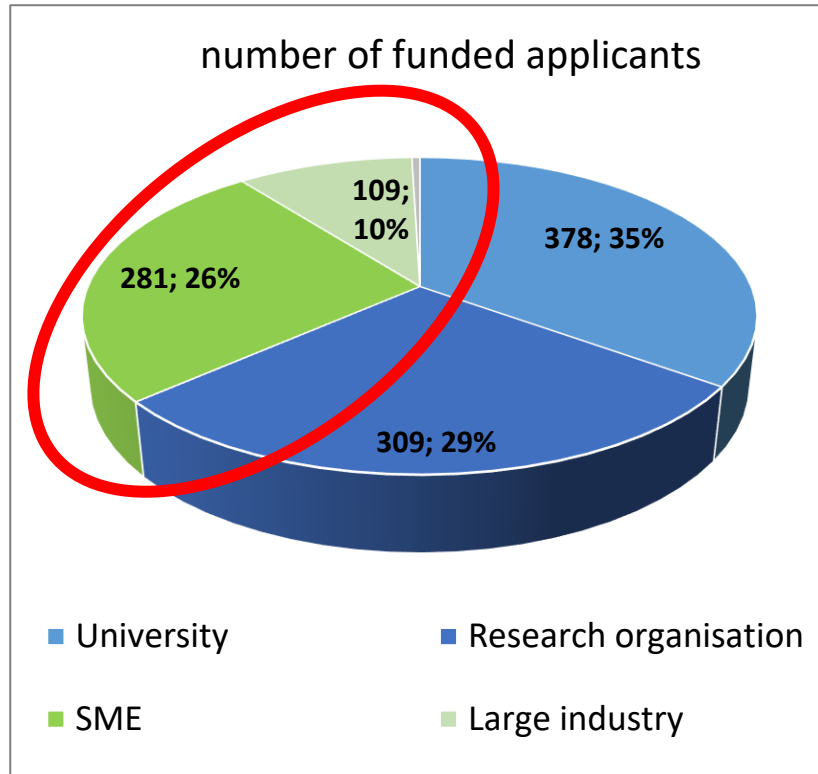


M-ERA.NET is one of the most inclusive networks.



Call 2022:
80 funded applicants from EU-13 countries

M-ERA.NET Joint Calls: strong industry participation



Industry participation (*depending on nat/reg rules*) >**36%** of all funded applicants -calls provide entry point to transnational RTD cooperation

Success rate of industry parties above average

Promotion of project results – success stories

- ✓ „Materipedia“ online database containing >330 funded projects
- ✓ **joint monitoring** of funded RTD projects & **joint assessment** of completed projects - analysis of **benefits & impact on industry & academia** –environmental, technological, economic, societal
- ✓ publication of results & **success stories**



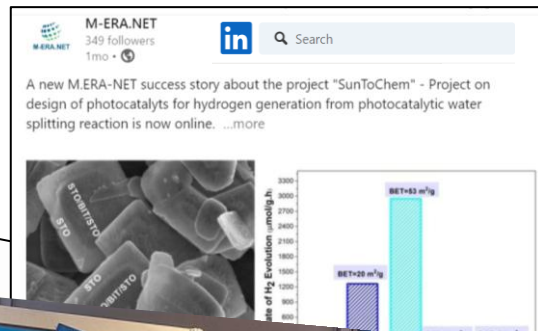
Advanced Materials & Battery Technologies for a Sustainable Future

M-ERA.NET Call 2021 success stories: enabling innovation through collaborative projects

1 April – 2 April 2025 | Dresden, Germany

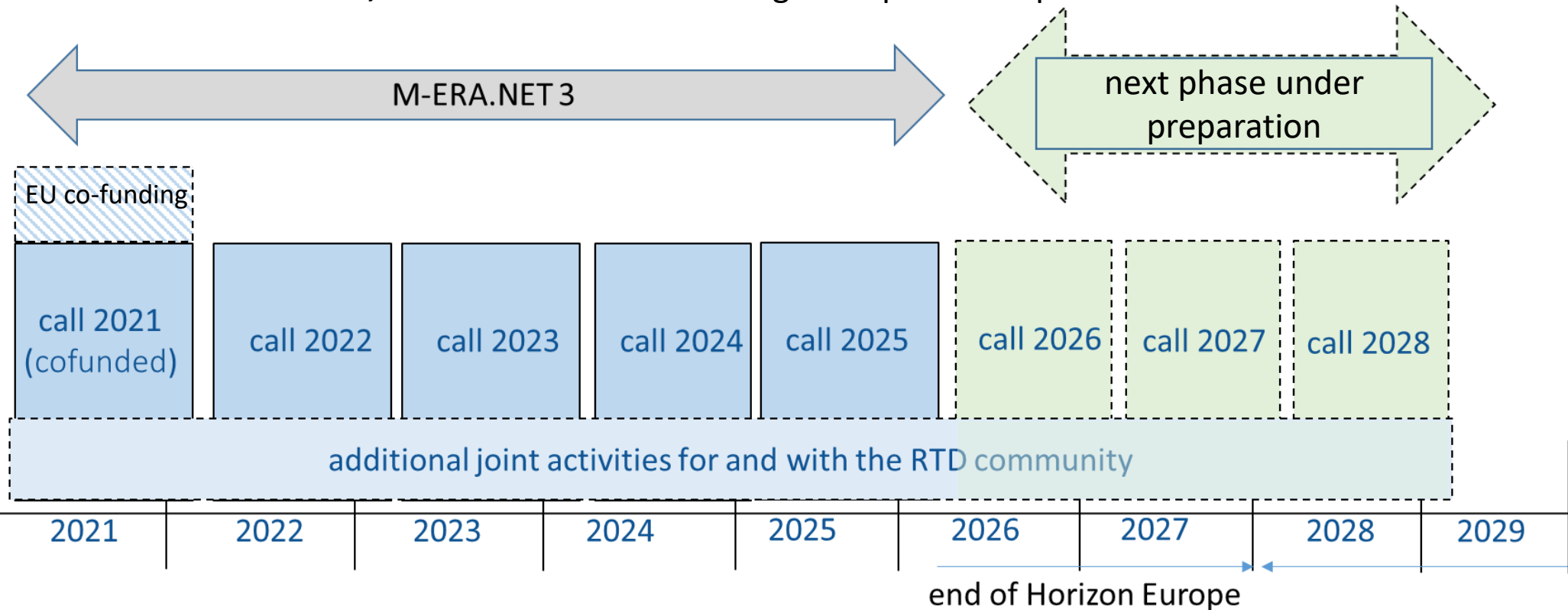
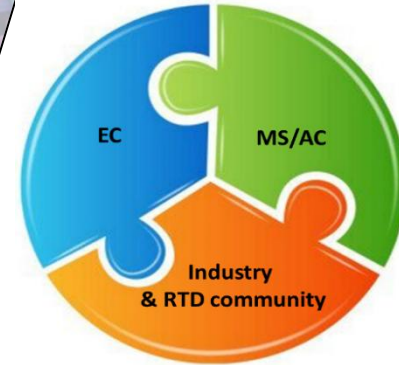


M-ERA.NET



Outlook: beyond 2026

- next phase (2026-2029) under preparation
- continue being an integral part of **European advanced materials ecosystem**
- **actively involve** relevant stakeholders to support **EU policies**, address needs at regional/national/EU levels, **tackle challenges together**
- pool resources & mobilise **large financial contributions** from EU-MS/AC & industry
- achieve **mutual benefit** - provide **opportunities and success for all involved**
- foster transfer of knowledge and capacity building across ERA
- maintain a **durable, inclusive network** and long-term partnership



Thank you !

www.m-era.net

- <https://www.m-era.net/about/voices-from-the-consortium>
 - <https://www.m-era.net/success-stories>
- <https://www.m-era.net/materipedia> (database of >330 projects)
- <https://www.m-era.net/newsletter> (currently: 6000 subscribers)
 - <https://www.linkedin.com/showcase/m-era-net>

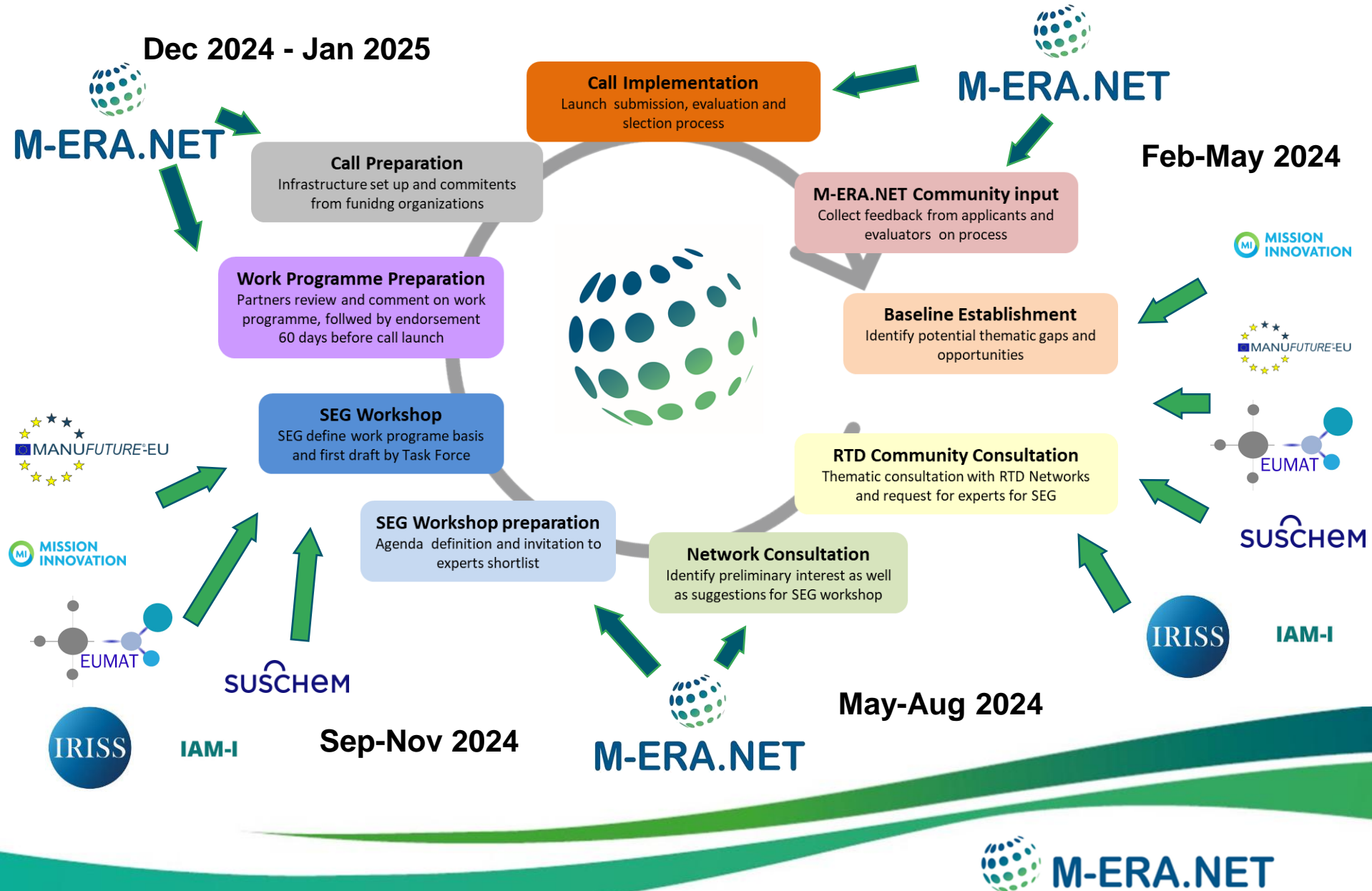




Topics and Objectives (Call 2025)

Jorge Sotelo and Roberto Pacios, AEI/FECYT
M-ERA.NET webinar
25 March 2025

Joint Programming for establishment of thematic priorities



Joint Programming for establishment of thematic priorities

Strategic Expert Group (SEG) Workshop

Málaga, Spain
12-13 November 2024



Work Programme

Main updates to Work Programme

1. Objectives and thematic priorities

1.1 M-ERA.NET mission

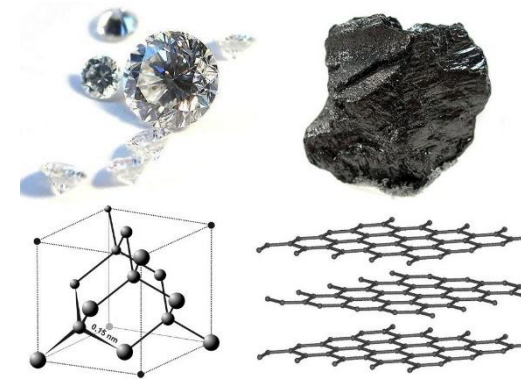
M-ERA.NET is a strong network of public funding organisations supporting and increasing the coordination and convergence of national and regional funding programmes on research and innovation related to materials and battery technologies to support the European Green Deal¹. Technological innovation is the driving force behind M-ERA.NET's contribution to achieve the environmental and growth objectives necessary for the green transition, supporting the circular economy and the Sustainable Development Goals (SDGs) set in the 2030 Agenda for Sustainable Development² by the general assembly of the United Nations.

M-ERA.NET aims to strengthen the European Research Area (ERA) on advanced materials³. With annual joint calls M-ERA.NET funds ground-breaking research, facilitates knowledge exchange, promotes sustainable solutions in the field of materials science, and fosters transnational collaboration among researchers, academia, industry and other stakeholders. In addition, efforts are directed towards consolidating strategic programming, reducing fragmentation of funding, engaging in international cooperation and facilitating the exploitation of knowledge along the entire innovation chain.

M-ERA.NET plays a pivotal role in aligning national and regional priorities with industry



Objectives and Topic Structure

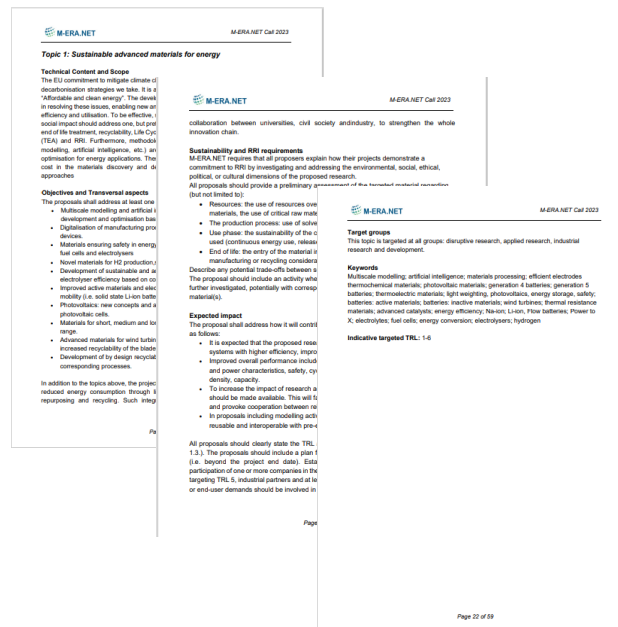


➤ Horizontal Objectives

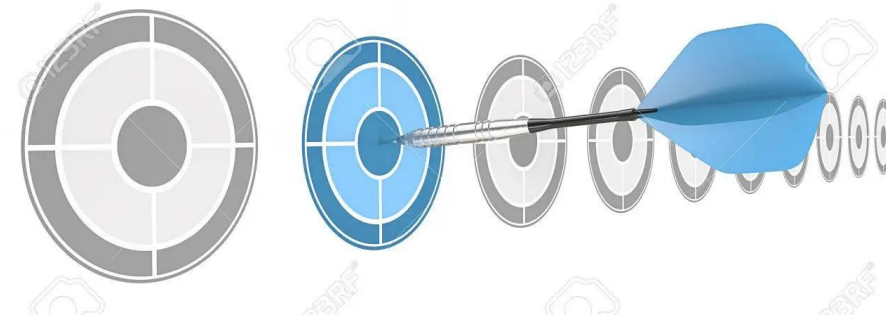
M-ERA.NET 3 Call 2025 Guide for proposers (m-era.net) – Annex 1

➤ Thematic Priorities (Topics)

- ☐ Technical Content and Scope
- ☐ Objectives and Transversal Aspects
- ☐ Expected Impact
- ☐ Sustainability and RRI requirements
- ☐ Target Groups
- ☐ Keywords (see dedicated [Annex](#))
- ☐ Indicative TRL range



Horizontal objectives



- Support the European Green Deal by increasing attention to clean energy technologies and future batteries
- Support the achievement of the United Nations' Sustainable Development Goals (SDG)
- Socio-ecological benefits in the context of RRI
- Supporting the innovation chain, strengthening interdisciplinarity and widening
- Digitalisation and data management

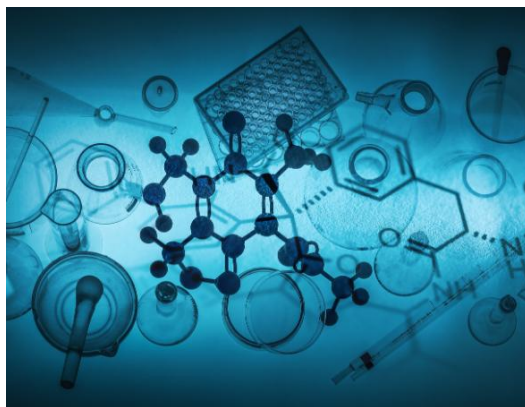
Thank you very much to all the experts!!!



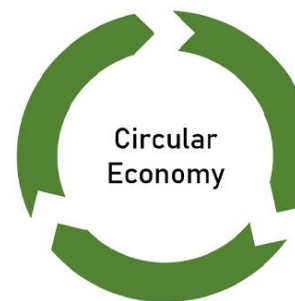
SEG Workshop in November 2024 –
Málaga (Spain)

Topics

In **red**: Changes with respect to call 2024



1. Sustainable **advanced** materials for energy **applications**
2. Innovative surfaces, coatings and interfaces
3. **High-Performance Advanced** composites **and lightweight materials**
4. Functional materials
5. Materials addressing environmental challenges
6. Next generation materials for **advanced** electronics



Topics

Summary of other most significant changes with respect to 2024 calls:

- **Sustainable magnetic materials** coverage in **Topics 1 and 6**
- **Bio-inspired structured materials** coverage in **Topics 2,3,4**
- **Lightweight materials** coverage in **Topic 3**
- **Topic 3 eliminates** the need to combine advances in **at least two functionalities/materials properties**
- **TRLs** definition/adjustments and **industrial partners involvement**
- **Keywords**

NOT CHANGED BUT EQUALLY IMPORTANT (In common with all the topics):

SUSTAINABILITY AND RESPONSIBLE RESEARCH AND INNOVATION (RRI) REQUIREMENTS

M-ERA.NET requires that all proposers explain how their projects demonstrate a commitment to RRI by investigating and addressing the environmental, social, ethical, political, or cultural dimensions of the proposed research:

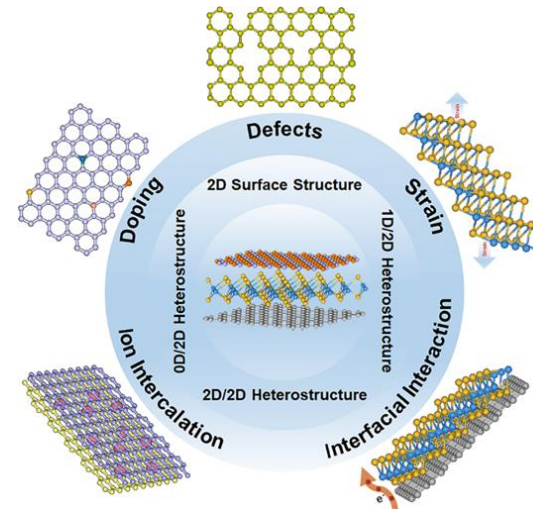
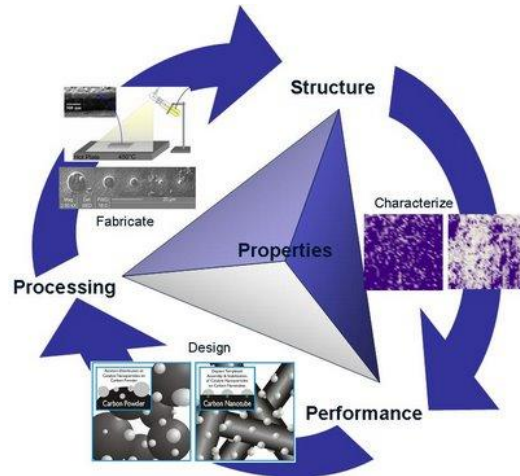
Proposals should provide a **preliminary assessment** regarding (but not limited to):

- **Resources:** the use of **environmentally friendly materials** and **green technologies**, the use of **critical raw materials**, water, etc.
- **Production process:** **energy consumption**, **use of solvents**, **hazardous elements**, **substances of concern**, etc.
- **Use phase:** the sustainability of the conditions under which the material can be used (releases to the environment, life span, etc.).
- **End-of-life:** the entry of the material into the **circular economy**, including re-use, re-manufacturing or **recycling** considerations.
- Involvement of relevant **societal stakeholders** as appropriate.

1. Sustainable materials for energy applications

TECHNICAL CONTENT AND SCOPE

The main scope is the **development of advanced materials** that can play a **key role** in enabling **new and cleaner energy storage, conversion, efficiency and utilisation**

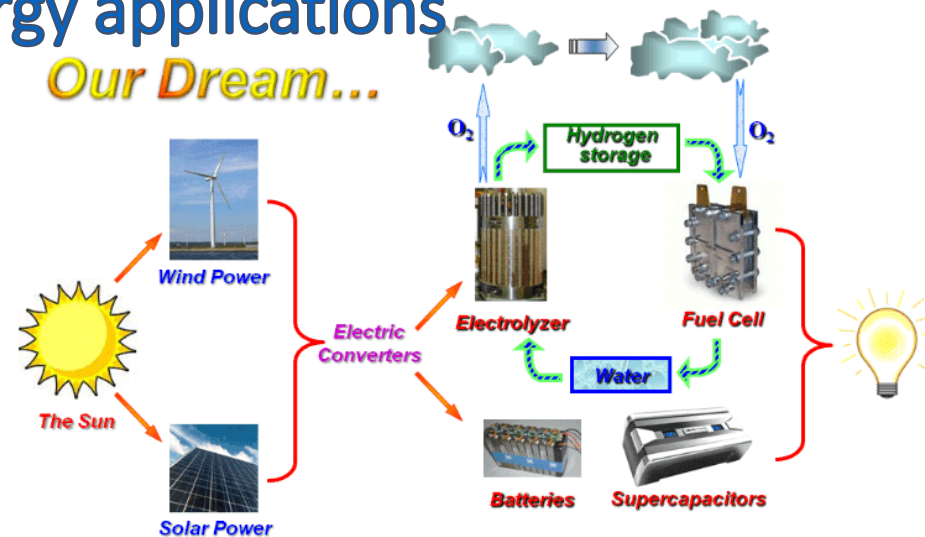


Aspects addressed:

- CIRCULARITY
- END OF LIFE TREATMENT
- RECYCLABILITY,
- TECHNO-ECONOMIC ANALYSIS (TEA),
- MATERIALS FOR SUSTAINABLE SAFE BY DESIGN (SSbD)

1. Sustainable materials for energy applications

Our Dream...



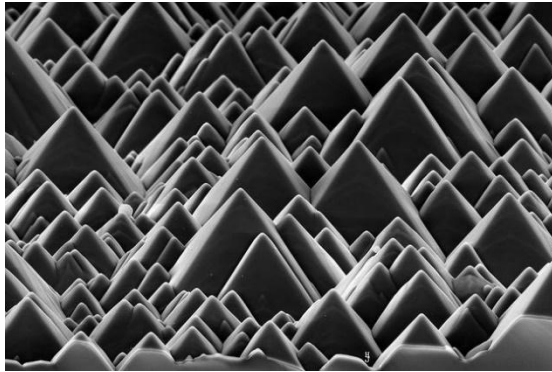
OBJECTIVES AND TRANSVERSAL ASPECTS

- **Multiscale modelling and artificial intelligence** for accelerated energy materials development and optimisation based on understanding **material behaviour**.
- **Materials for sustainable safe by design (SSbD)** in energy storage and conversion **devices**, e.g. batteries, fuel cells and electrolyzers
- Novel materials for **H₂ production**, storage, combustion, conversion and power to X.
- Development of sustainable and advanced catalysts to improve **fuel cell and electrolyser** efficiency based on computation and experiments
- Improved active materials and electrolytes **for solid state Li batteries and beyond Li-ion batteries for mobility and for stationary applications**, eg: **vanadium free redox-flow batteries**.
- **New Photovoltaics materials and architectures** for efficient and stable energy production in a broad range of applications
- Materials for short, medium and long duration thermal energy storage.
- Advanced materials low in critical elements for **magnets in energy applications** such as wind turbines and electric motors.
- **New materials concepts** for efficient energy harvesting, including thermoelectric, triboelectric, piezoelectric and hybrid technologies.
- **Substitution of CRM** and/or hazardous materials with alternative new materials in products or processes.

2. Innovative surfaces, coatings and interfaces

TECHNICAL CONTENT AND SCOPE

This call will stimulate **application driven development** of innovative surfaces, thin films, coatings, interfaces and related process technologies



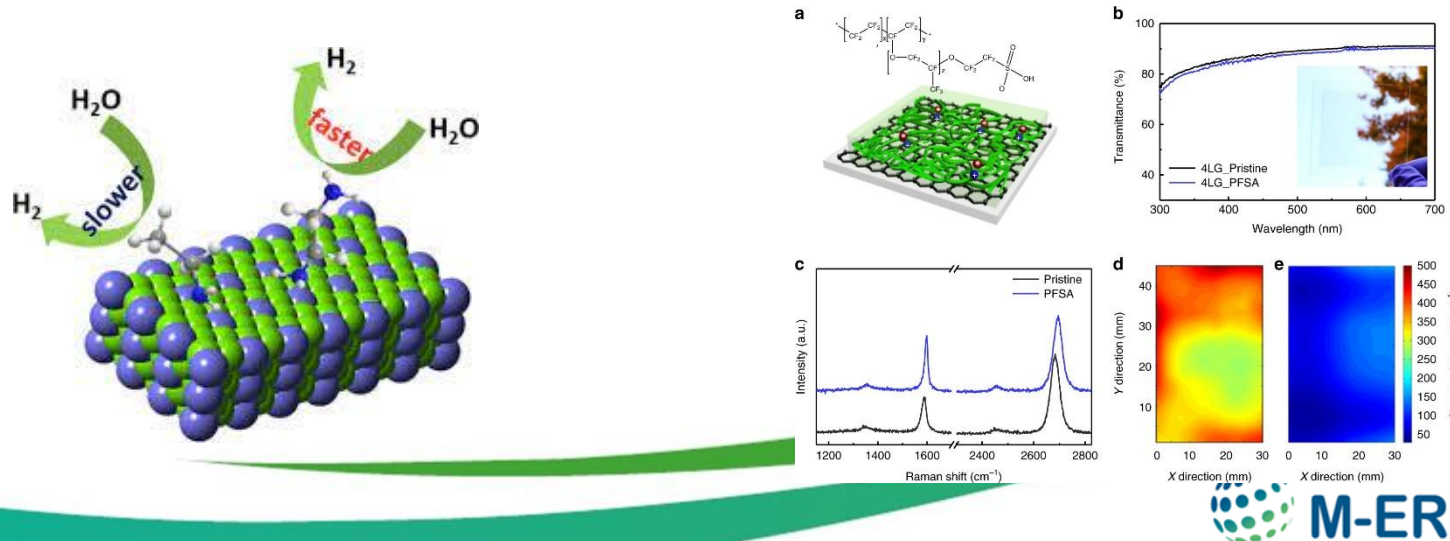
Aspects addressed:

- MINIMIZE/SUBSTITUTE HARMFUL MATERIALS (HEALTH & ENVIRONMENT) AND CRM
- CIRCULAR ECONOMY
- ENERGY EFFICIENCY: REDUCTION OF INTAKE
- GREEN PRODUCTION PROCESS/SOLVENTS

2. Innovative surfaces, coatings and interfaces

OBJECTIVES AND TRANSVERSAL ASPECTS

- Development of new materials and processing for **long-time stable antimicrobial coatings**.
- Development of **thin films and coatings** for **sensing** applications, including **biosensing**.
- **Multiscale modelling** and/or new characterisation techniques of innovative surfaces, thin films, coatings and/or interfaces.
- **Engineered functional interfaces** between **artificial and biological systems**.
- Consider aspects such as **fundamental understanding** of the mechanisms, **experimental assessment** and where applicable prototyping, up-scaling, manufacturing and validation demonstrating prototype in an operational environment with a view to final customer applications.
- Address **complementary characterisation techniques (including New Approach Methods –NAMs- and/or where relevant modelling techniques (AI, ML) and how to rationalise data for future use in modelling processes (data base)**
- Address how coatings and/or thin films will impact the **recyclability of core material**
- Ensure relevance for different partners in the value chain by stating clear concepts for application(s) in targeted industrial sector(s).

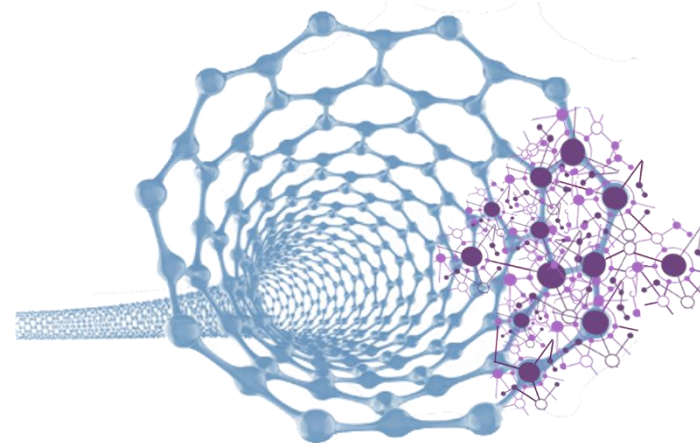
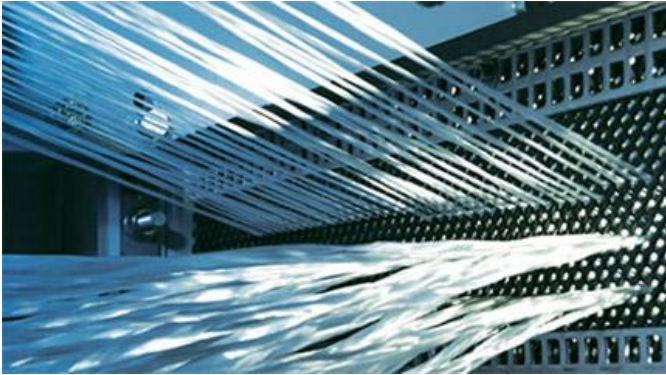


3. Advanced composites and lightweight materials

TECHNICAL CONTENT AND SCOPE

Within the scope of this call, advanced composites are defined as engineered materials (incl. hybrids) composed of ≥ 2 constituents (metallic, ceramic, mineral, synthetic, natural or bio-based...)

In parallel, here **lightweight materials** are defined as single or multi-phase materials providing similar or better performance with reduced weight vs. existing state-of-the-art materials.



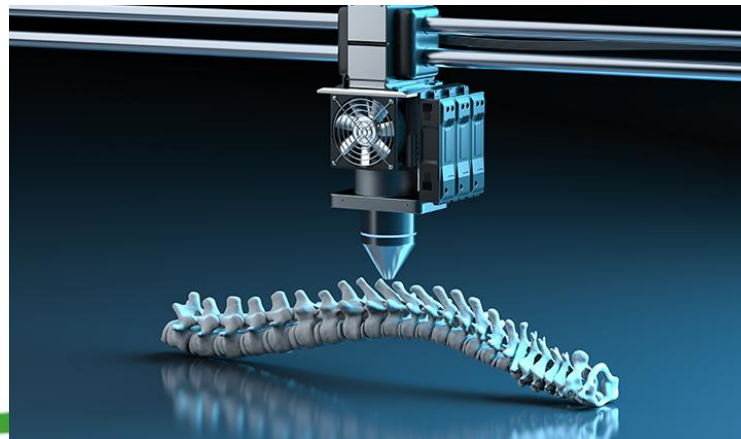
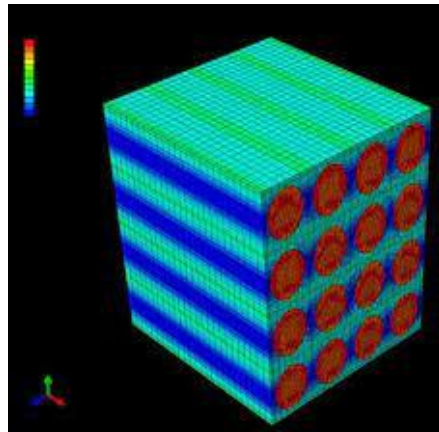
Aspects addressed:

- COST & SCALABILITY
- SUBSTANCES OF CONCERN
- RECYCLABILITY (EoL MANAGEMENT)
- CRM & VULNERABLE SUPPLY CHAINS
- BIO-BASED (RENEWABLE) CONSTITUENTS
- ADVANCED COMPUTATIONAL METHODS

3. Advanced composites and lightweight materials

OBJECTIVES AND TRANSVERSAL ASPECTS

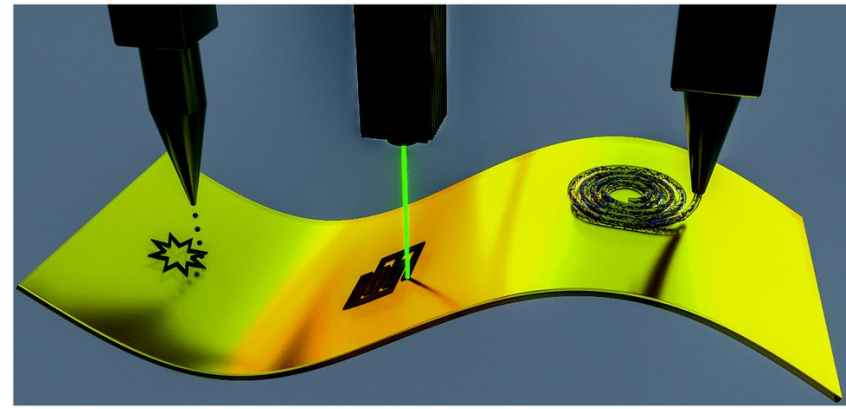
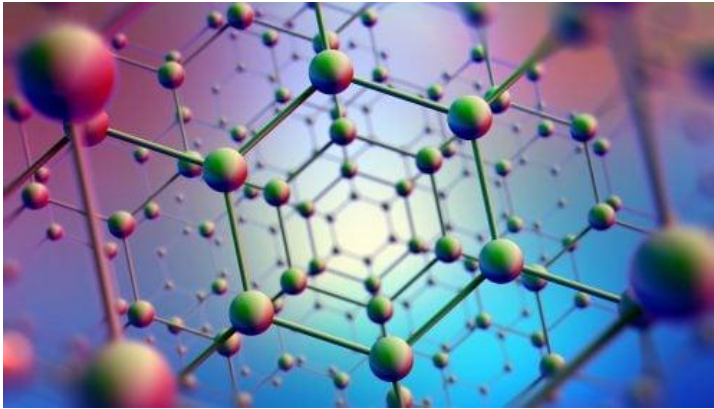
- Strength- or stiffness-to-weight-ratio.
- Durability (e.g. vs. creep, fatigue, impact, fracture, use conditions, etc.).
- **Thermal management** properties.
- **Self-healing** or repairable behaviour.
- **Self-monitoring** capabilities.
- **Electrical** or **electrochemical** properties.
- **Biocompatible, anti-microbial**, bioactive, or biologically functional.
- **Fire retardant properties** with environmentally friendly substances.
- **Processability or manufacturability.**



4. Functional Materials

TECHNICAL CONTENT AND SCOPE

Proposals submitted to this topic are encouraged to **incorporate advancements** in **materials design**, **production**, and **integration**, supported by **modelling**, characterisation, **high-throughput screening**, and **advanced manufacturing** for precise property control



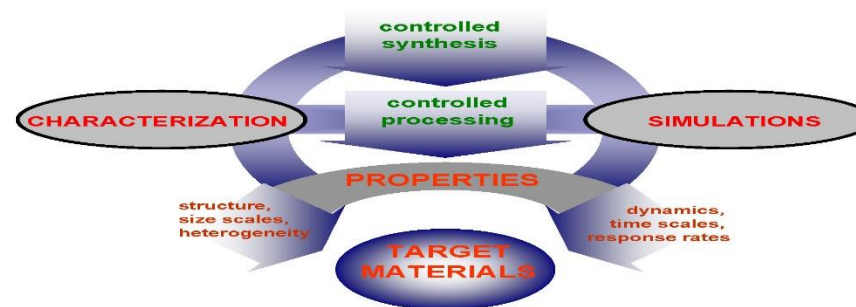
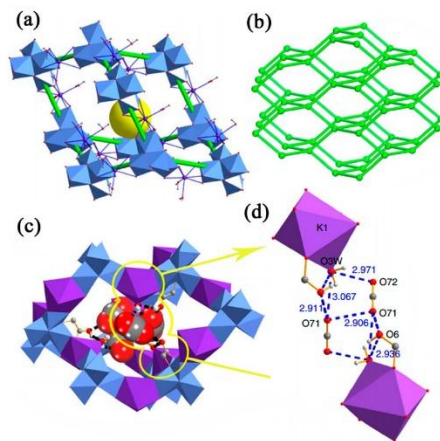
Aspects addressed:

- REPLACE HAZARDOUS & CRM
- GREEN AND SUSTAINABLE FABRICATION ROUTES
- MANUFACTURING ANALYSIS
- END OF LIFE ISSUES

4. Functional Materials

OBJECTIVES AND TRANSVERSAL ASPECTS

- Innovative functional materials, e.g. **self-healing materials**, **low dimensional materials**, **bio-based materials**, **catalyst materials**, **superconductors** and **photonic materials**.
- **Functional structures**, e.g. metamaterials, topological structures, heterostructures.
- Materials with special functions for **sensing, detection, and actuation**.
- Materials for **smart wearables, implants, theragnostics**, and other **health applications**.
- Materials for **smart and zero-energy buildings**, e.g. thermal insulation systems and efficient heat radiation or cooling solutions.
- Materials for **harsh conditions** e.g. regarding high temperatures, pressures, magnetic fields and/or radiation.
- Materials for **energy-efficient separation**, liquid/gas purification and process optimisation.
- Smart materials for **packaging, functional textiles, stretchable materials**, and others.



5. Materials addressing environmental challenges

TECHNICAL CONTENT AND SCOPE

The **objective** of this topic is:

- To address the **environmental challenges of today**
- To support the **Green Deal and the sustainable development goals (SDGs)**.
- To support the **transition towards a circular economy**.
- Addressing **design, synthesis, shaping, production, use and recovery** of advanced materials



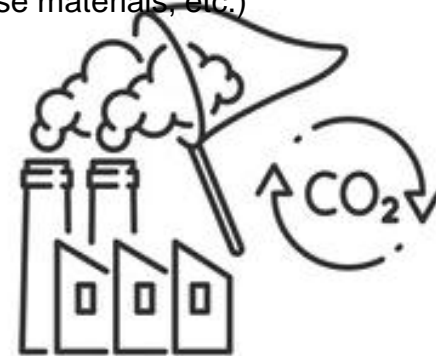
Aspects addressed:

- CRITICAL RAW MATERIALS AND HAZARDOUS SUBSTANCES (PFAS)
- SUBSTITUTION/REDUCTION OF FOSSIL BASED MATERIALS
- WASTE REDUCTION AND RECYCLING TECHNOLOGIES / END-OF-LIFE
- BIOCOMPATIBILITY, BIODEGRADATION
- **MATERIALS, PROCESSING, APPLICATION AND RECYCLING**

5. Materials addressing environmental challenges

OBJECTIVES AND TRANSVERSAL ASPECTS

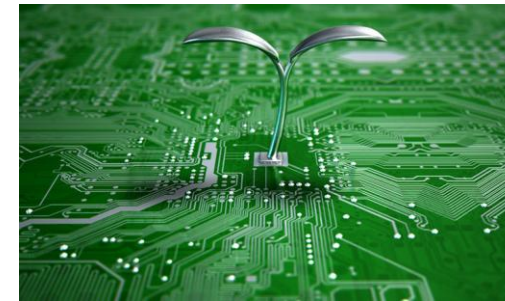
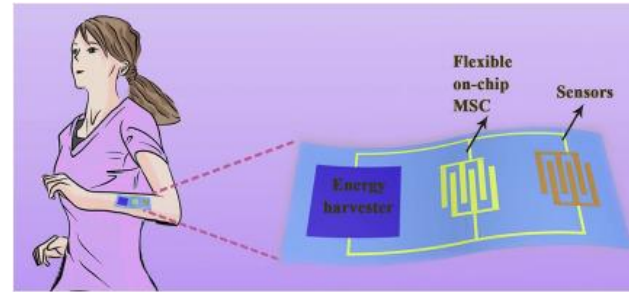
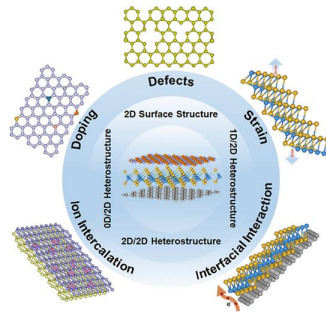
- **SSbD**, also including:
 - product and material life extension (self-healing; reparability, etc.)
 - resource optimization (materials; water; energy, etc.)
 - waste reduction
 - life cycle perspective
- **Biodegradable, bio-based materials**
 - biodegradable polymers
 - new chemistries that reduce sources of (micro)plastic (e.g. for packaging, in agriculture, etc.)
- Materials **for sensing** and **removal of hazardous substances**
- Clean and efficient materials recycling
 - designed for **easy dismantling and sorting**
 - **clean recovery and recycling technologies** (reduce hazardous side-streams from recycling, e.g. use of alternative solvents)
 - **use** of European **secondary material sources** to reduce the dependency on imported materials and to limit supply risks (recycled materials with processing compatibility with first use materials, etc.)



6. Next generation materials for electronics

TECHNICAL CONTENT AND SCOPE

The topic supports proposals on materials research and its application, with special focus on specific properties for electronics. This may include materials informatics for SSbD, biomimetic design principles, circularity of materials (e.g. magnetic, bio-based, biodegradable, etc.)



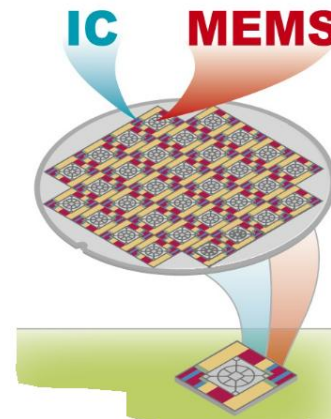
Aspects addressed:

- REDUCE ELECTRONIC WASTE
- ENHANCING RECYCLABILITY
- GREEN PRODUCTION PROCESSES
- REDUCTION OF HAZARDOUS MATERIALS

6. Next generation materials for electronics

OBJECTIVES AND TRANSVERSAL ASPECTS

- **Nanoscale materials** as alternatives to silicon (low-dimensional materials, 2D materials, heterostructures, etc.).
- Materials for **sensors, actuators, transducers, processors**.
- Materials for **thermal management in electronics**.
- **Wearable, flexible, stretchable, and/or conformable** materials for **responsible electronics**.
- **Implantable, ingestible and bioresorbable** materials.
- Materials for **ultralow-power or for high-power-control** electronics.
- Materials for **More-than-Moore electronics** (spintronics, photonics, valleytronics, quantum and neuromorphic computing, etc.).
- **Hybrid and heterogeneous integration**: combination of conventional with advanced materials.
- **High throughput manufacturing approaches** for electronic components (**printing technologies, additive manufacturing techniques, laser-induced processes, etc.**).



Thematic Priorities - TRLs



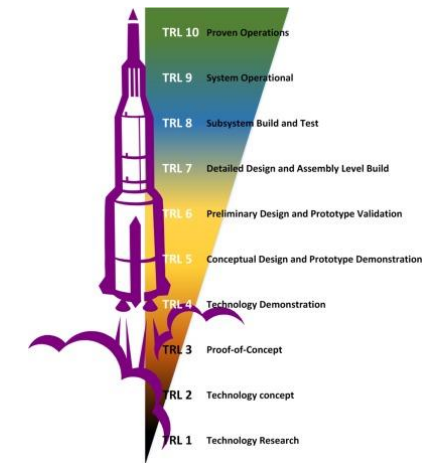
Research



Develop



Deploy



Target TRL

Plans for reaching
higher TRL at later stage



Industrial partners in the consortium

	TRL 1	TRL 2	TRL 3	TRL 4	TRL 5	TRL 6	TRL 7	TRL 8	TRL 9
Topic 1: Sustainable materials for energy applications									
Topic 2: Innovative surfaces, coatings and interfaces									
Topic 3: Advanced composites and lightweight materials									
Topic 4: Functional Materials									
Topic 5: Materials addressing environmental challenges									
Topic 6: Next Generation Materials for Electronics									



M-ERA.NET



Call 2025 webinar Responsible Research and Innovation (RRI) and sustainability

Cecilie A. Mathiesen, Task leader RRI

This presentation

- M-ERA.NET's approach to RRI
- RRI Guidelines version 1.2
- What is RRI?
- Why do we need it?
- RRI tailoring
- M-ERA.NET and sustainability
- Call text example
- How does M-ERA.NET support and evaluate RRI?
- Web resources for including RRI in your project

M-ERA.NET's approach to RRI

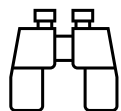
We recognise that the materials resulting from the programme need to be designed for a sustainable society in the near to medium future

- The RRI **approach** is a good approach to achieving just that
- We highlight the need to address **the social, environmental, political, cultural or ethical dimensions** of the proposed research
- **RRI offers four dimensions** that researchers, funders and technologists should engage with to maintain focus on the social context of their work

What is RRI?

The four dimensions of an RRI «mindset»:

Anticipation



Anticipate the future known and unknown **risks** associated with a science or technology;

Inclusion



Include a broad range of **stakeholders** in the development of science and technologies;

Reflexivity



Reflect on the underlying **assumptions** and **values** driving a scientific research project;

Responsiveness



Respond to **these processes** by incorporating their outcomes into the design of or course in research projects and funding programmes.



Photo: C. Mathiesen @RRI Guidelines Workshop by EuroNanoMed3 in 2019

RRI in a nutshell

(From the M-ERA-NET guidelines for Responsible Research and Innovation (RRI) in the context of materials science v 1.2)

For M-Eranet, RRI is about making sure science and new technologies help people **and the planet**. It asks scientists to think about **who might benefit or face challenges** from their work and **to prepare** for possible problems. RRI encourages **involving others**, like future users or communities, to understand their needs and concerns. It also **pushes researchers to reflect on their goals and change plans** if new issues come up. By focusing on **sustainability and fairness**, RRI helps ensure that science and innovation **supports global goals** like protecting the environment and creating a better future for everyone. Rather than providing strict rules, **RRI offers a flexible framework with techniques and tools to guide researchers in considering the ethical, environmental, and social aspects of their work.**

How can you include RRI in your proposal?

1. M-ERA.NET's philosophy is to have **RRI as an integrated part of the project** involving all project participants.
2. Developing a **shared understanding of the project's RRI aspects** as early as possible is important.
 - having conversations about their importance and potential actions
 - will evolve in a learning process throughout the project
3. Considering RRI-related issues and acting upon them, must be done as a cross-cutting part of the project or a separate work package. RRI in the project needs to be **coordinated** and should have a **lead**

Why do we need the RRI approach?

A shared responsibility

Science is separate neither from society nor the environment,
but part of them

Funders, researchers and other key groups involved in the development of science, technology and innovation should think about:

- (i) the potential directions of research being taken
- (ii) who might benefit and who might not from new inventions
- (iii) how consideration of the potential social, environmental and ethical issues can be considered throughout the science and innovation process.

RRI tailoring

RRI is not a one-size-fits-all methodology but **must be adapted** to the actual social, environmental and ethical issues raised by the **R&I activities in the proposal**/funded in the programme.

- Foundational, exploratory research will require a different approach to (RRI than) applied, high-TRL research
- Disruptive, pathbreaking research may require a more substantive approach to RRI than tentative, incremental research

M-ERA.NET and sustainability

- M-ERA.NET has fundamental commitments to sustainability in line with frameworks such as
 - the UN Sustainable Development Goals, and
 - the European Green Deal
- Thus, methods analysing the current or future ecological impacts of materials and their supply chains are appropriate
- **In sum RRI provides a framework to ask *how* research and innovation should be carried out in order to ensure that we achieve the sustainability goals in an open and inclusive way**
- **RRI methodology can contribute to increase both excellence, impact and implementation of a project.**

Sustainability and RRI in the M-ERA.NET calls

- **The specific requirements for each topic in the current call are detailed in a section labelled “sustainability and RRI requirements”.**
- **M-ERA.NET requires that all proposers explain how their projects demonstrate a commitment to RRI by investigating and addressing the environmental, social, ethical, political, or cultural dimensions of the proposed research**
- Example on next slide
- The “Expected impact” text is also important when shaping your RRI methods.

Topic 1: Sustainable materials for energy applications

Technical Content and Scope

...Sustainable advanced materials development should also address aspects such as circularity, end of life treatment, recyclability, Life Cycle Assessment (LCA), Techno-Economic Analysis (TEA) and RRI. ...

Sustainability and RRI requirements

....

All proposals should provide a preliminary assessment regarding (but not limited to):

- **Resources:** the use of resources overall, the environmental properties of the materials, the use of critical raw materials, energy, water, etc.
- **The production process:** use of solvents, hazardous elements, etc.
- **Use phase:** the sustainability of the conditions under which the material can be used (continuous energy use, releases to the environment, life span, etc.)
- **End of life:** the entry of the material into the circular economy, including re-use, remanufacturing or recycling considerations.
- **Involvement** of relevant societal stakeholders as appropriate

Describe any potential trade-offs between sustainability burdens and benefits. The proposal should include an activity where such aspects (relevant to the proposal) are further investigated, potentially with corresponding impacts on the design of the material(s)

How does M-ERA.NET support and evaluate RRI?

- **Responsibility must be shared**, RRI is a cross-cutting issue for M-ERA.NET.
- RRI is considered in development of the annual work programme and the resulting funding calls.
- RRI components evaluated by experts as integral components within the scope of all evaluation criteria (Excellence, Impact, and Implementation).
- [Responsible Research and Innovation \(RRI\) - M-ERA.NET](#)

Web resources for including RRI in your project:

- [M-ERA.NET RRI Guidelines v1.2](#)
- [toolbox | 'Toolbox' for researchers, technology developers and engineers \(cta-toolbox.nl\)](#)
is a small but fine collection of tools that are broadly addressing how you can become aware of the downstream consequences of your research.
- <https://thinkingtool.eu/> The Societal Readiness Thinking Tool guides you through the steps of including RRI in a project.
- The Digital Life Centre [offers practical advice](#) that may help develop your approach.
- Tools for public engagement: <https://www.publicengagement.ac.uk/resources> and <http://actioncatalogue.eu/>
- [RRI in M-ERA.NET \(YouTube\)](#)

Thank you!

cam@forskningsradet.no



M-ERA.NET

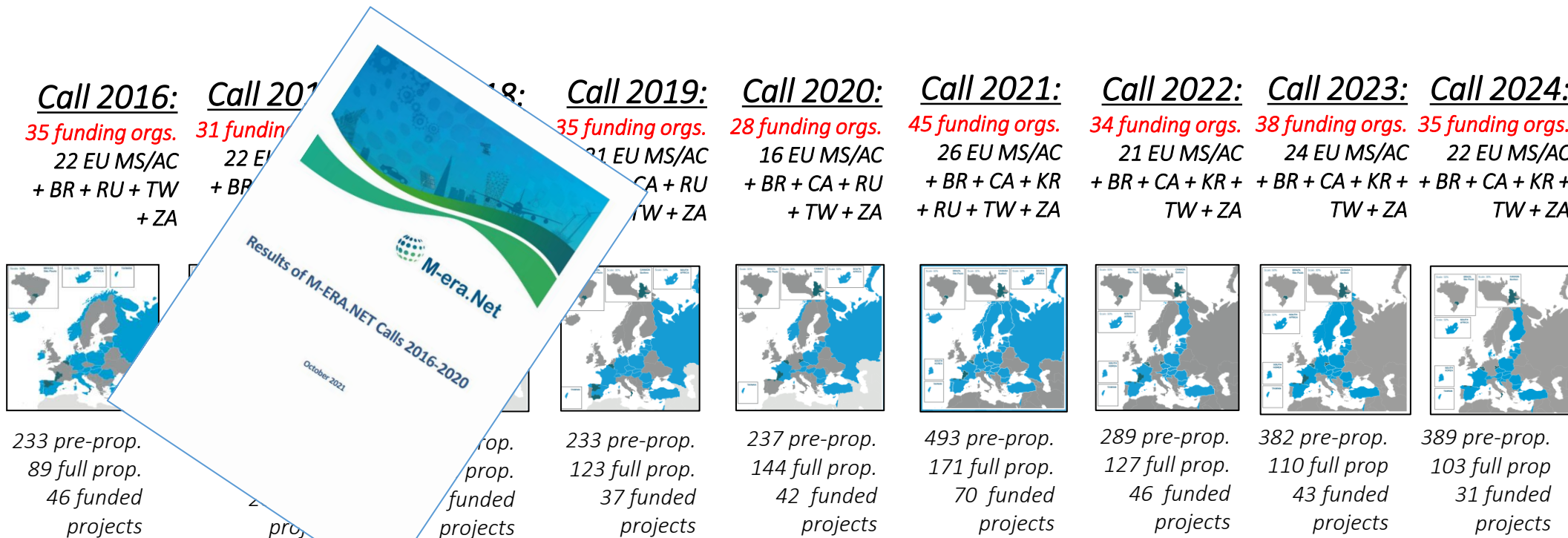




Call 2025: participating countries

Annual joint calls: variable geometry

- **Openness:** network activities (e.g. additional joint calls) are **open to additional countries/regions/organisations**



[Results of M-ERA.NET Calls 2016-2020](https://www.m-era.net/joint-calls)

<https://www.m-era.net/joint-calls>

Participating countries

- ❖ **38 national/regional funding organisations participate in the M-ERA.NET Call 2025**

- <https://www.m-era.net/joint-call-2025/participating-countries-regions-call-2025>

- ❖ 21 EU Member States

- ❖ associated countries: M-ERA.NET adopts the Association to Horizon Europe

- [https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-](https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/common/guidance/list-3rd-country-participation_horizon-euratom_en.pdf)

- [2027/common/guidance/list-3rd-country-participation_horizon-euratom_en.pdf](https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/common/guidance/list-3rd-country-participation_horizon-euratom_en.pdf)

- 6 associated countries incl. 2 new associations: CA, KR (transitional arrangement)

- ❖ + 4 third countries: CH + BR + TW + ZA

- ❖ **matrix of countries/regions & supported topics**

- detailed information on national/regional programmes:

- national/regional requirements

- contacts (see also Guide for Proposers, Annex)



Call 2025: eligibility

Eligibility

1. M-ERA.NET eligibility criteria
2. National/Regional eligibility criteria

➤ see FAQs, Guide for Proposers:

➤ <https://www.m-era.net/joint-calls/joint-call-2025>

M-ERA.NET eligibility criteria

- ✓ minimum requirement: Project consortia must consist of
 - at least **3 partners** (all requesting funding from a funding organisation listed in Annex 3) from at least **3 different countries** (at least **2 EU member** states or [Horizon Europe associated countries](#)) **participating in the M-ERA.NET Call 2025**.
 - additional further partners are allowed, including applicants not asking for funding (self-funded)
 - the coordinator must request funding from a participating funding organisation
 - a consortium may involve as many partners as necessary for the implementation of the work plan.
 - applicants affiliated to Russian institutions are excluded from Call 2025
- ✓ TRLs of planned activities must be within eligible range
- ✓ project duration: max 36 months
- ✓ total effort of one single applicant cannot exceed 60% of the total project efforts (measured in person months);
- ✓ total effort of applicants from one country cannot exceed 70% of the total project efforts (measured in p.m.).
- ✓ Mandatory proposal forms must be used, written in English, submitted before deadline. The structure of the proposal forms must not be changed; any restructuring and change of the formatting conditions of the proposal forms will result in the formal rejection of the proposal.
- ✓ PIC (Participant Identification Code) is required for all partners (available via EC portal)

National/Regional eligibility criteria

- defined by respective funding organisation –see country/region sub-pages
 - <https://www.m-era.net/joint-call-2025/participating-countries-regions-call-2025>
- 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.

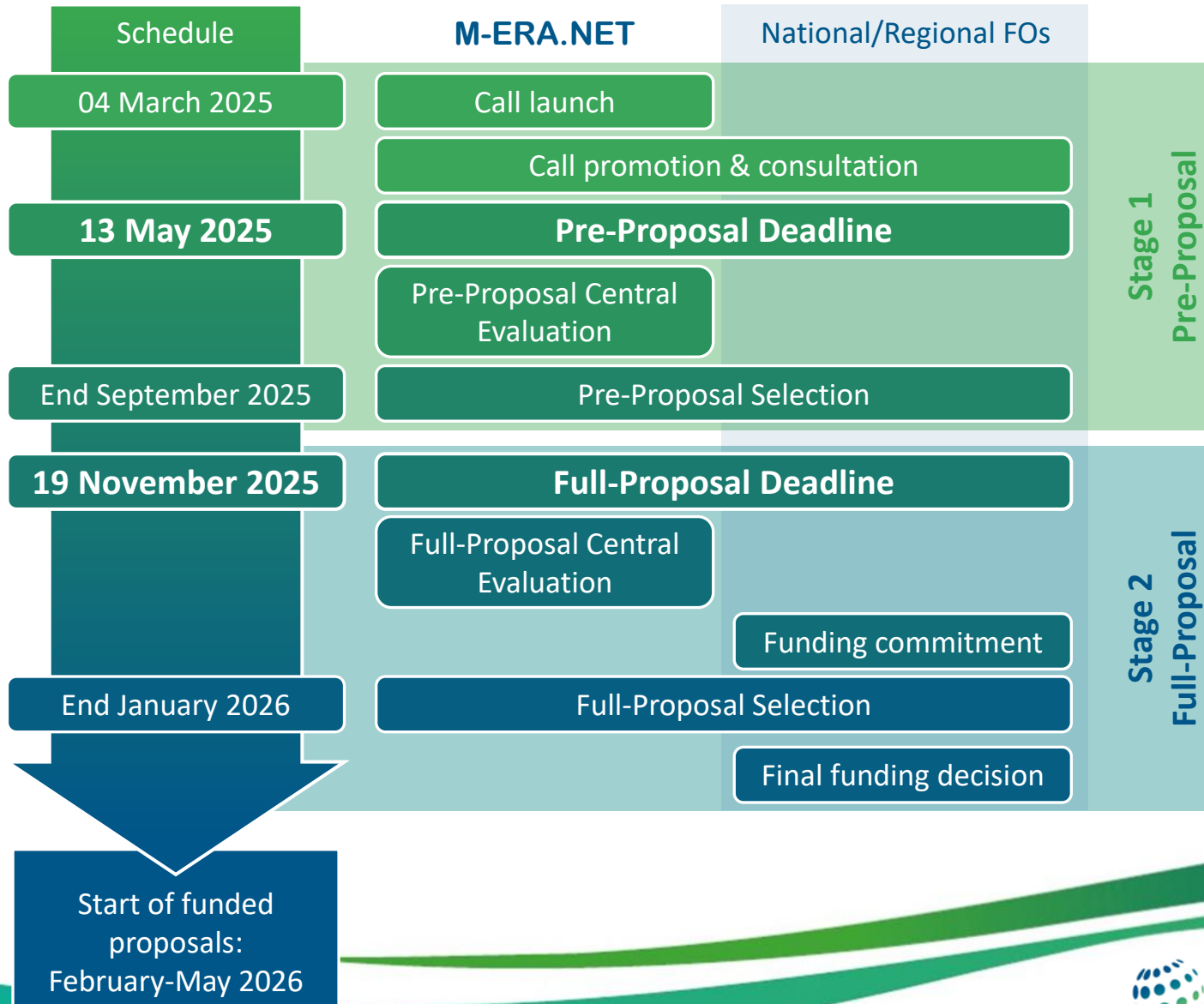


Schedules, workflow and Call 2025 Documents

Call 2025 schedule

Date	Step
4 Mar 2025	Launch of the Call 2025
13 May 2025	Deadline for submission of Pre-Proposals (12:00 noon, Brussels time)
Jun – Sept 2025	Central evaluation of Pre-Proposals
Sept 2025	Pre-Proposal Selection Meeting – selection of pre-proposals invited to full-proposal submission and feedback to applicants
19 Nov 2025	Deadline for submission of Full-Proposals (12:00 noon, Brussels time)
Nov 2025 – Jan 2026	Central evaluation of Full-Proposals
end Jan 2026	Selection Meeting – selection of full-proposals recommended for funding and feedback to applicants
Feb 2026	Contract negotiations for selected proposals on national/regional level
Feb - May 2026	Start of funded projects
May 2029	End of all funded projects
Jul 2029	Deadline for final reporting

Call 2025 workflow



Call 2025: changes from Pre- to Full-Proposal

- **Project objectives stated in the Pre-Proposal cannot be changed** *in order to allow the identification of evaluators based on the Pre-Proposal.*
- **Changes in the consortium should be avoided.** Modifications of the consortium are restricted to partners from countries already part of the Pre-Proposal consortium. It is not accepted to introduce new countries into the existing consortium. *Eligibility checks of new partners have to be done by the respective funding agency before Full-Proposal submission.*
- **In general, changes from Pre- to Full-Proposal should be avoided.** In any case, changes from Pre- to Full-Proposal stage have to be coordinated by the consortium leader with all involved funding organisations.

This means that major changes regarding content, project duration, costs, funding or consortium have to be communicated and approved by all involved funding agencies at least 2 weeks before Full-Proposal deadline. The consortium leader is responsible for coordinating and ensuring the acceptance of these changes by all the involved project partners, funding organisations and the call secretariat.

(see M-ERA.NET [Guide for Proposers](#), p.14)

Call 2025 – M-ERA.NET central evaluation

- carried out **in both stages** (Pre- and Full-Proposals)
- **national/regional** funding organisations will carry out **eligibility checks** ⇒ only eligible proposals are sent to central evaluation
- implemented according to the EC rules for ERA-NET Cofund including the appropriate evaluation criteria
- organised online (via the **M-ERA.NET evaluation tool**) by the M-ERA.NET call secretariat
- each proposal is evaluated remotely by **3 independent international evaluators** (one of which is appointed as rapporteur by the call secretariat, and will compile the peer review report)
- evaluators are appointed to proposals on the basis of **keywords** and proposals' public abstracts
- **evaluation results** (peer review report excl. scoring) are sent to applicants and respective funding organisations via feedback emails

Call 2025 – Pre-proposal step: evaluation criteria

Scoring & Threshold: *based on H2020 system*

- max. score of each main criterion is 5.0
- max. total score is 15.0
- overall threshold (applying the sum of the main scores) is 10.0
- threshold for each main criterion is 3.0
- no thresholds for sub-criteria

(see M-ERA.NET Guide for Proposers, p.54)

Main Criteria	Sub Criteria	Score (points)
Excellence	Clarity and pertinence of research objectives and hypotheses	<i>max. 1.5</i>
	Novelty, originality, position of concepts and approaches in relation to the state of the art (ambition, innovation potential, ground-breaking objectives)	<i>max. 2.0</i>
	Appropriateness of the methodology, credibility of the proposed approach and soundness of the concept, including TRL and the approach to RRI	<i>max. 1.5</i>
Impact	Relevance to the specific call topic: ability of the proposal to address the research issues covered by the chosen research theme	<i>max. 2.0</i>
	Contribution at the European or international level to the expected impacts listed in the Guide for Proposers under the relevant topic	<i>max. 2.0</i>
	Engagement of the proposed research with circularity, environmental as well as ethical, political, social and/or cultural dimensions	<i>max. 1.0</i>
Implementation	Competences, experience and complementarity of each of the consortium members and the consortium as a whole (including complementarity, balance, inter- or transdisciplinarity)	<i>max. 2.0</i>
	Quality of the collaboration (added value of the transnational cooperation)	<i>max. 2.0</i>
	Quality and effectiveness of the work plan (work packages and tasks distribution among partners)	
	Organisation and overall management of the project, including risk management	<i>max. 2.0</i>
	Overall appropriateness of the proposal budget and other resources to be committed by individual partners (overall person month balance)	<i>max. 1.0</i>

Call 2025 – Full-Proposal step: evaluation criteria

Scoring & Threshold: *based on H2020 system*

- max. score of each main criterion is 5.0
- max. total score is 15.0
- overall threshold (applying the sum of the main scores) is 10.0
- threshold for each main criterion is 3.0
- no thresholds for sub-criteria

(see M-ERA.NET Guide for Proposers, p.55-56)

Please note that the structure of the mandatory templates reflects the structure of the evaluation criteria and, therefore, must not be altered.

Main Criteria	Sub Criteria	Score (points)
Excellence	Clarity and pertinence of research objectives and hypotheses	<i>max. 1.0</i>
	Extent of the proposal's ambition and innovation potential beyond the current state of the art. Originality of the strategies to reach the project's objectives, use of novel concepts and approaches.	<i>max. 2.0</i>
	Soundness of the methodology proposed to reach the project's objectives, credibility of the proposed TRL range and coherence of the approach to RRI.	<i>max. 2.0</i>
Impact	Contribution at the European or international level to the expected impacts listed in the Guide for Proposers under the relevant topic	<i>max. 1.0</i>
	Enhancing innovation capacity and integration of new knowledge to facilitate replicability and valorization of the project results.	<i>max. 1.5</i>
	Strengthening the competitiveness and growth of companies by developing innovations meeting the needs and values of European and global markets; and, where relevant, by delivering such innovations to the markets	
	Engagement of the proposed research with circularity, environmental as well as ethical, political, social and/or cultural dimensions	<i>max. 1.0</i>
	Effectiveness of the proposed measures to exploit and disseminate the project results (including management of IPR), to communicate the project, engage with stakeholders and user groups, and to manage research data where relevant	<i>max. 1.5</i>
Implementation	Quality and effectiveness of the work plan, assessment of risks, and appropriateness of the effort assigned to work packages, and the resources overall	<i>max. 1.5</i>
	Quality of the consortium as a whole including complementarity, balance, inter- or transdisciplinarity and appropriateness of the management structures and procedures	<i>max. 1.5</i>
	Quality and relevant experience of the individual participants	<i>max. 1.0</i>
	Appropriate allocation of tasks, ensuring that all participants have a valid role and allocation and justification of the resources to fulfil that role (including overall person month balance)	<i>max. 1.0</i>



Thank you for your attention

Submission platform



M-ERA.NET Proposal Submission

My Account

Your name: Call Secretariat 2025
Username: secretariat2025

[View my proposal](#)

[Change password](#)

[Logout](#)

Call help desk

You will find your national/regional funding agency on the [M-ERA.NET](#) website.

Documents

[Keywords](#)
[Mandatory Pre-Proposal form](#)

Tutorials

[Registration tutorial](#)
[Submission tutorial](#)

Technical help desk

In case of technical problems with the submission platform, you can contact the technical support by e-mail (meranet@vdivde-it.de).

[Proposal Details](#) [Project Partner](#) [Submit](#)

Submit Proposal

[Show all information \(PDF\)](#)

Submission State

The current state of the proposal is **not submitted**.

You can now submit the proposal

[Submit this proposal](#)

Please note: With your submission you confirm that all project partner are informed of this proposal submission. After your submission a notification e-mail will be send to all project partner.

On the first two tabs, you will inform the relevant details at proposal and at partner level, respectively.

On the « submit » tab, you can see all the information relative to the proposal (PDF) and see its current **submission state**.

It is necessary to confirm the submission via the « Submit this proposal » button before the submission deadline, otherwise your proposal will be deemed incomplete.

The mandatory Pre-Proposal form and additional information on KWs are available for download

Detailed tutorials are also available in the platform

You can get additional support via email from your national/regional funding agency, from the call secretariat and from the technical help desk, depending on the subject.



Call 2025 Documents

Show-Ling Lee-Müller, PtJ
M-ERA.NET Call 2025 webinar
25 March 2025

<https://www.m-era.net/joint-call-2025>

Joint Call 2025

Announcement of the M-ERA.NET CALL 2025

The M-ERA.NET Call 2025 is launched on 4 March 2025. 38 funding agencies participate with an indicative budget of more than 38 million €.

Call Schedule:

- The Pre-Proposal Deadline is 13 May 2025, 12:00 noon, Brussels time.
- The Full-Proposal Deadline is 19 November 2025, 12:00 noon, Brussels time

The aim is to fund ambitious transnational RTD projects addressing materials research and innovation supporting the European Green Deal and the United Nations's Sustainable Development Goals (SDG).

The Call 2025 includes the following thematic areas:

- Sustainable advanced materials for energy
- Innovative surfaces, coatings and interfaces
- Advanced composites and lightweight materials
- Functional materials
- Materials addressing environmental challenges
- Next generation materials for advanced electronics

Proposal Submission

The proposal submission link will soon be available.

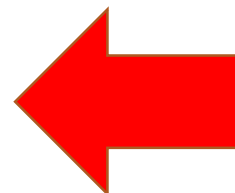
Call documents for download:

- [↓ Guide for proposer - main document](#) and [↓ Annex A to guide for proposers](#) (national / regional regulations)
- [↓ FAQ](#)
- [↓ Mandatory Pre-Proposal form](#)
- Mandatory Full-Proposal form and mandatory Annex 1 to Full-Proposal form (available October 2025)
- Final reporting template (available March 2026)



⇒ List of participating countries and regions Call 2025

including national / regional regulations



List of participating countries:

<https://www.m-era.net/joint-call-2025/participating-countries-regions-call-2025>

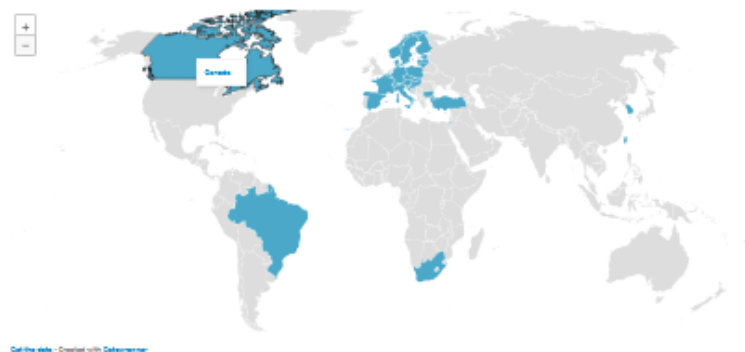
Participating countries/regions Call 2025

38 national/regional funding organisations participate in the M-ERA.NET Call 2025.

The matrix below provides an overview on national/regional eligibility of topics, organisations and types of research. Please consider these details when assembling your consortium.

It is essential that all applicants contact their respective national/regional funding organisation for detailed information!

The national / regional regulations of the participating funding organisations are compiled in the Call document [Annex A](#) to the guide for proposers.



Get the data - Created with Datawrapper

		Sustainable materials for energy applications	Innovative surfaces, coatings and interfaces	Advanced composites and light-weight materials	Functional materials	Materials addressing environmental challenges	Next generation materials for electronics	Indicative call budget (Mio €)
Austria	FFG-KLWPT	X	X	X		X		3,20
Belgium (Flanders)	VLAIO	X	X	X	X	X	X	1,00
Belgium (French Speaking Community)	F.R.S.-FNRS	X	X	X	X	X	X	0,20
Belgium (Wallonia)	SPW	X	X	X	X	X	X	1,00
Brazil (Sao Paulo)	FAPESP	X	X	X	X	X	X	0,60
Bulgaria	BNSE	X	X	X	X	X	X	0,46
Canada (Québec)	PRIMA	X	X	X	X	X	X	0,40
Croatia	MSEY	X	X	X	X	X	X	0,15
Czech Republic	TACR	X	X	X	X	X	X	1,50
Denmark	IFD	X	X	X	X	X	X	1,00

Materipedia

Register as an Evaluator for M-ERA.NET

Joint Call 2025

Participating countries/regions Call 2025

Austria: FFG-KLWPT
 Belgium: Programmes
 Brazil (Sao Paulo): FAPESP
 Bulgaria: BNSE
 Canada (Québec): PRIMA
 Croatia: MSEY
 Czech Republic: TACR
 Denmark: IFD
 Estonia: ETAG
 Finland: Programmes
 France: Programmes
 Germany (Saxony): SMWK
 Hungary: NKFIH
 Israel: Programmes
 Italy (Regione Calabria): CaR
 Latvia: LZP
 Lithuania: LMT
 Luxembourg: FNR
 Malta: XM
 Norway: RCN
 Poland: Programmes
 Slovakia: SAS
 Slovenia: MVZI
 South Africa: DSI
 South Korea: KIAT
 Spain: Programmes
 Sweden: VINNOVA
 Switzerland: SFOE
 Taiwan: NSTC
 Türkiye: Tübitak



Guide for proposers: Annex A

- Compilation of the national / regional regulations of all participating funding organisations / programmes
- Download as pdf-file
- Online: <https://www.m-era.net/joint-call-2025/participating-countries-regions-call-2025>

Each partner is requested to
contact
the respective
national/regional funding
organisation
before
Pre-Proposal submission



Austria: FFG

Name of Funding agency	FFG - Austrian Research Promotion Agency
Geographical coverage (national/regional)	National
Name of the programme/initiative	Kreislaufwirtschaft und Produktionstechnologien
Programme website	https://www.ffg.at/advanced-materials/meranet2025
Programme owner	Bundesministerium für Klimaschutz, Umwelt, Energie, Mobilität, Innovation und Technologie (BMK)
Program manager (executing funding organisation)	FFG - Austrian Research Promotion Agency
Contact person(s) (e-mail, tel.)	Name: Fabienne Nikowitz Phone: +43 (0) 57755 5081 E-mail: fabienne.nikowitz@ffg.at
Funding Commitment	3.200.000,- EUR
Anticipated number of fundable research partners	At least 1 Austrian industry partner.
Maximum funding per grant awarded to a partner	500.000,- EUR
Type of research eligible for funding: eligible TRL range	Industrial Research: TRL 2-4 Experimental Development: TRL 5-7
Funding rates (approx.)	Research organisation: Industrial Research - 85%, Experimental Development - 60% Micro/small enterprise: Industrial Research - 80%, Experimental Development - 60% Medium enterprise: Industrial Research - 70%, Experimental Development - 50% Large enterprise: Industrial Research - 55%, Experimental Development - 35%
Major eligibility criteria (e.g. types of organisations, thematic restriction, cost types and caps)	Consortium restriction: minimum 1 Austrian industry partner. Thematic restriction: KLTPT only supports only the four M-ERA.NET topics 1,2,3 and 5 Further restrictions: see under "Further guidance"
Submission of the proposal at national/regional level (schedule, cut-off dates, deadlines, etc.)	Deadline for proposal submission via FFG eCall (https://ecall.ffg.at): National pre-proposal ("Kurz Antrag"): 15 May 2025, 12:00 C.E.T. National full-proposal ("Nationale Ergänzung"): 20 November 2025, 12:00 C.E.T.
Submission of financial and scientific reports at the national/regional level	Reports are submitted on an annual basis. Further information: see under "Further guidance"
Further guidance	Further information on conditions and restrictions are given in the national call: https://www.ffg.at/advanced-materials/meranet2025

Guide for proposers: main document

1. Introduction to M-ERA.NET
2. Structure of the M-ERA.NET Call 2025
3. Call Announcement
4. Application process
5. Evaluation
6. Decision and funding procedure
7. Monitoring
8. Communication and dissemination
9. Support



be aware of the eligibility criteria

- at M-ERA.NET level
- at national / regional level

Annex 1: Topics Call 2025

Annex 2: Technology Readiness Level

Annex 3: participating Funding organisations

Annex 4.1: Pre-Proposal evaluation criteria

Annex 4.2: Full-Proposal evaluation criteria

Annex 5: RRI Guidelines

Annex 6: Checklist for proposers

Pre-Proposal template

Colour code: blue text in the templates indicates information and can be deleted by the proposers

1. Summary
2. Consortium overview
3. Excellence
4. Impact
5. Implementation
6. Ethical Issues
7. Checklist for proposers

Each partner is requested to contact the respective national/regional funding organisation before Pre-Proposal submission

*To be completed by the Project Coordinator only.
The Pre-Proposal form has a limit of 22 pages.
Refer to Guide for Proposers when filling out this form.*

Formatting conditions:

Formatting rules aim to guarantee the equity and fairness of the evaluation. Any changes to the template that would result in effectively bypassing the page limit will not be accepted.

The formatting conditions of the template are: Main body of text in Arial size 11 points. Standard character spacing and single interline spacing is to be used. Short text elements other than the body text, such as foot/end notes, captions, formulas, may deviate, but must be legible. The page size is A4, and all margins (top, bottom, left, right) must not be narrower than the original template settings (15 mm).

Attention:

- *The structure, the order and number of chapters as well as the formatting conditions of the proposal form must not be changed.*
- *The evaluation will be done solely on the information provided within the mandatory templates (no links to external sources will be considered).*

Any restructuring and change of the proposal form (especially if they result in effectively bypassing the page limit) will result in a formal rejection of the proposal.

Pre-Proposal template

1. SUMMARY



Project Acronym		<input type="text"/>			
Project Long Title		<input type="text"/>			
Project Coordinator		Name:		<input type="text"/>	
		E-mail:		<input type="text"/>	
Coordinator Organisation (full name in original language / name in English)		Original Language: <input type="text"/> English: <input type="text"/>		Country/ Region	<input type="text"/>
Address	<input type="text"/>			Tel:	<input type="text"/>
	Postal code (CEDEX)		<input type="text"/>	Fax:	<input type="text"/>
	City	<input type="text"/>		www:	<input type="text"/>
Total Project Costs (Euro)		<input type="text"/>		Requested Funding (Euro)	<input type="text"/>
Planned starting date	<input type="text"/>	Duration (in months)	<input type="text"/>	Total person months	<input type="text"/>
Call Topic (Only one Topic)	<input type="checkbox"/>	Sustainable materials for energy applications			
	<input type="checkbox"/>	Innovative surfaces, coatings and interfaces			
	<input type="checkbox"/>	Advanced composites and lightweight materials			
	<input type="checkbox"/>	Functional materials			
	<input type="checkbox"/>	Materials addressing environmental challenges			
	<input type="checkbox"/>	Next generation materials for electronics			

Please note:

- Max. duration: 36 months
- Select only one call topic

Pre-Proposal template



M-ERA.NET Call 2025

Project Summary

Including specific innovation objectives and results, needs addressed, impact and potential benefits (up to 4000 characters recommended). Whenever appropriate, indicate the TRL¹ position in the beginning of the project and after the project is finished (not mandatory).



Relevance to funding programmes

(for each of the involved national/regional funding programme)

Justify why the proposal is in line with the objectives of each funding programme and why the proposal includes the required national impact (up to 2 pages recommended).



Please note:

- Consise and inspiring summary
- Knowledge about your national / regional funding programme
- Eligibility checks of the respective funding organisations

Pre-Proposal template

2. CONSORTIUM OVERVIEW

Attention: PIC is mandatory

CONSORTIUM OVERVIEW						
Organisation	Partner name (Full name)	Coordinator (P1)	Partner 2:	Partner 3:	Partner 4:	Partner 5:
	Participation Identification Code (PIC) ²					
	TRL ³ at project start					
	TRL ³ at project end					
	Organisation Type ⁴					
	Website (http://...)					
	Region / Country					
	Organisation registration number ⁵					
	Size (Employees) ⁶					
	Turnover (K€) ⁶					
Contact Person	Title / Name					
	Telephone					
	E-mail					
Funding Organisation (FO)	Name of FO +Contact person in in FO ⁷					
	Funding Programme (full name ⁸)					

² Insert Participant Identification Code (PIC) of your organisation as used for participating on Horizon Europe. Information on how to find / get your PIC see FAQs on the Call page.

³ Technology Readiness Level (see Annex 2 in the Guide for Proposers)

⁴ HE-University, RES-Research organisation, SME-Small Medium sized Enterprise, IND-Large Company, OTH-Others. (according to national rules)

⁵ VAT number or other Registration number

⁶ Only for companies

⁷ **It is strongly recommended to contact M-ERA.NET contact person in your region/country** for further information about funding rules, prior to the submission of a Pre-Proposal (see [Participating countries & regions Call 2025](#))

⁸ Name of the funding programme for which the partner is applying

Please note:

- Be aware, of the respective national / regional funding programmes and the responsible contact person of the funding organisations. Contact them before Pre-Proposal submission.

Pre-Proposal template

3. EXCELLENCE

Describe the innovation of the project outcome(s), the originality of the proposed approach and the market needs (if applicable) addressed by the project. Please indicate the TRL at the beginning and at the end of the project.

3.1. Objectives of the project and expected results



3.2 Ambition

- *Current state of art and progress beyond the state-of-the-art*
- *Originality and/or innovation of the proposed approach*



3.3 Concept and approach

- *Overall concept and methodology*
- *Start and target TRL*
- *Approach to Responsible Research & Innovation*

Please note:

- Check your proposal with the corresponding evaluation criteria
- Be aware of the horizontal objectives of the call 2025
- Describe the specific objectives and the anticipated outcomes
- Make use of images and diagrams

Excellence	Clarity and pertinence of research objectives and hypotheses	<i>max. 1.5</i>
	Novelty, originality, position of concepts and approaches in relation to the state of the art (ambition, innovation potential, ground-breaking objectives)	<i>max. 2.0</i>
	Appropriateness of the methodology, credibility of the proposed approach and soundness of the concept, including TRL and the approach to RRI	<i>max. 1.5</i>

Pre-Proposal template

4. IMPACT

4.1 Relevance of the objectives to the call topic

- *Research issues covered by the chosen research theme*

4.2 Contribution at the European or international level to the expected impacts listed under the selected call topic

- Scientific impacts
- Economic impacts (*for low TRLs present the visions for potential industrial use*)
- Societal and environmental impacts

4.3. Sustainability and RRI

Explain how the project will engage with

- *Circularity, environmental dimensions of the proposed research*
- *Ethical, political, social and / or cultural dimensions of the proposed research*

Please note:

- Read the call topic description carefully (GfP, Annex 1)
- Address the expected impact
- Address sustainability and RRI requirements outlined in the topic description
- RRI is an important issue (GfP, Annex 5)

Impact	Relevance to the specific call topic: ability of the proposal to address the research issues covered by the chosen research theme	<u>max.</u> 2.0
	Contribution at the European or international level to the expected impacts listed in the Guide for Proposers under the relevant topic	<u>max.</u> 2.0
	Engagement of the proposed research with circularity, environmental as well as ethical, political, social and/or cultural dimensions	<u>max.</u> 1.0

Pre-Proposal template

5. IMPLEMENTATION

5.1 Consortium description

Describe the role of each partner in the project and partner's qualification in the field of proposal, including their past experiences and expertise (last 5 years).

Partner 1 (Coordinator):

Role in the project:

Team qualification in the field of proposal:

Partner 2:

Please duplicate as needed

5.2. Inter- and transdisciplinarity

Describe the complementarity and balance of the consortium as a whole

5.3. Benefit of transnational cooperation for the consortium as a whole

Explain the added value provided by the transnational cooperation (for the consortium and for each partner).

5.4. Work plan and overall management of the project

- *Work package description: Title of each WP and short description*
- *Timing of the different work packages and their components (Gantt chart or similar)*
- *Management of the project including risk management*

5.5. Cost Calculation

Total project costs per partner

Partner	Person months	Total Costs	Requested Funding
		Euro	Euro
Partner 1 (Coordinator):			
Partner 2:			
Partner 3:			
Partner 4:			
Partner 5:			
Total:			

Please note (GfP, page 15):

- total effort of one single applicant cannot exceed 60% of the total project efforts (measured in person months) in the proposal
- total effort of applicants from one country cannot exceed 70% of the total project efforts (measured in person months) in the proposal

Implementation	Competences, experience and complementarity of each of the consortium members and the consortium as a whole (including complementarity, balance, inter- or transdisciplinarity)	max. 2.0
	Quality of the collaboration (added value of the transnational cooperation)	
	Quality and effectiveness of the work plan (work packages and tasks distribution among partners)	max. 2.0
	Organisation and overall management of the project, including risk management	
	Overall appropriateness of the proposal budget and other resources to be committed by individual partners (overall person month balance)	max. 1.0

Pre-Proposal template

6. ETHICAL ISSUES

Please fill in YES or NO.

ETHICAL ISSUES ^a	YES / NO	Page
HUMAN EMBRYOS/FOETUSES		
Does your research involve Human Embryonic Stem Cells (hESCs)?		
Does your research involve the use of human embryos?		
HUMANS		
Does your research involve human beings?		
Does this activity involve interventional research (e.g. on behavioural treatments, etc.) on human beings?		
Does this activity involve conducting research on human beings (EU 536/2014 ¹⁰)? (u radiopharmaceuticals, or advanced medical devices)		
HUMAN CELLS / TISSUES (not derived from embryos)		
Does your research involve human cells or tissues?		
PERSONAL DATA		
Does your research involve processing of personal data?		
Does it involve the processing of sensitive personal data (e.g. ethnicity, genetic, biometric, philosophical beliefs)?		
If YES: Does it involve processing of special categories of data (e.g. ethnicity, genetic, biometric, philosophical beliefs)?		
Does it involve profiling, system of special categories of data (e.g. ethnicity, genetic, biometric, philosophical beliefs)?		
Does this activity involve further processing of personal data (including use of pre-existing data)?		
ANIMALS		
Does your research involve animals?		
ENVIRONMENT, HEALTH and SAFETY		
Does this activity involve the use of substances or materials further to the use of the results?		
Does this activity deal with endogenous or exogenous agents?		
Does this activity involve the use of substances or materials further to the use of the results?		
ARTIFICIAL INTELLIGENCE		
Does this activity involve the use of artificial intelligence?		
OTHER ETHICS ISSUES		
Are there any other ethical issues that should be taken into consideration?		
Please specify (max. 1000 characters)		

I CONFIRM that I have taken into account all ethics issues above.

☐

7. CHECKLIST FOR SUBMISSION (must be included in the proposal)

The proposal conforms to the call guidelines.	<input type="checkbox"/>
The provided proposal forms have not been changed in structure, order of chapters and formatting conditions.	<input type="checkbox"/>
Every project partner has been in direct contact with his/her national/regional funding agency and has checked that their collaboration and their project contributions are eligible for funding.	<input type="checkbox"/>
All project partners have checked the national/regional programme procedures and regulations. All project partners are aware of documents requested by the national/regional funding organisations.	<input type="checkbox"/>
IMPORTANT REMINDER: All consortium partners must check if applications (at Pre-Proposal and/or Full-Proposal stage) have to be submitted also to their national/regional funding organisations.	
All partners who are not eligible for 100% funding are able to provide financial resources for their own contribution.	<input type="checkbox"/>
The consortium is aware that a duly signed and stamped consortium agreement (CA) between the project partners is recommended for funded projects based on national/regional funding rules, including agreements on intellectual property rights (IPR) and agreements on scientific publications. At the time of proposal submission, it is recommended to provide the principles ruling the CA but not the CA itself.	<input type="checkbox"/>

Please go <https://www.m-era.net/joint-call-2025> to submit this pre-proposal form online.

Deadline for submission: 13 May 2025, 12:00 noon Brussels time

For further information on M-ERA.NET: please go to <http://www.m-era.net>

Please note:

- Ethical issues and the checklist must remain in the proposal.
- Page limitation: 22 pages
- No restructuring and change of the proposal form allowed
- Proposals can be saved as drafts, revised and re-submitted again before the deadline.
- Please note that it may be necessary to submit additional information to respective national/regional funding organisations!



M-ERA.NET

Call 2025: links, support, news

Links

- M-ERA.NET Call website: <https://www.m-era.net/joint-call-2025>
- Partner Search Tool: <https://www.m-era.net/joint-calls/partnersearch>
- RRI video link on the Call 2025 webpage
- Submission Tool: soon available on the Call website

Additional (regional) call webinars

- Spanish infoday (webinar) on 4 April 2025, 11:00 – 12:30 CET

News & Social Media

- Follow us on LinkedIn: <https://www.linkedin.com/showcase/m-era-net/>
- YouTube Channel: <https://www.youtube.com/@m-eranet>
- Subscribe to the Newsletter: <https://www.m-era.net/newsletter>