

The European Partnership on Metrology– current status

RPT online workshop

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Research Programmes



CREATING IMPACT BY ADVANCING MEASUREMENT SCIENCE

EURAMET's European Metrology Research Programmes (EMRP and EMPIR) are fostering international collaboration, driving research excellence, addressing society's grand challenges, including health, energy and the environment, and contributing to Europe's economic turnover



<https://www.euramet.org/metrology-for-societys-challenges/>

EURAMET's European Metrology Research Programme at a glance

Total investment
423.6 M€
across **119** projects

Pooling expertise of
24 NMIs and DIs from
46 European countries
23 plus the NMIs from Australia, Brazil, Canada, China, Japan, Mexico, New Zealand, the Republic of Korea and the Russian Federation

2 537
articles in peer-reviewed journals

1 186
training activities

228
businesses and **50** other organisations

236
academic research groups

5 368
presentations at conferences

1 223
contributions to

68
contributions to draft standards and published standards

310
technical committees and working groups of standards organisations

Supported the development of improved instruments and machines with projected sales of
352.8 M€

840 presentations at workshops and seminars, reaching an audience of
33 000 people

140
published newsletters and press releases

260
number of articles in trade and popular press

The European Partnership on Metrology– Draft General Objective



To Create, by 2030, a sustainable and effective system for metrology at European level that ensures Europe has a world-class metrology system that:

- Provides metrology solutions, fundamental metrological reference data and methods, offering fit-for-purpose solutions supporting and stimulating European innovation and responding to societal challenges.
- Supports and enables effective design and implementation of regulation and standards that underpin public policies that address societal challenges

The European Partnership on Metrology– Draft Specific Objectives



1. That the national contributions to the Partnership should enable the development of sustainable European Metrology Networks that provide metrological solutions for

- i. innovative technologies and
- ii. public policy and regulation for key societal challenges.

These networks should have a strong stakeholder focus and significant role in the development of the strategic research and innovation agenda for the partnership.

The European Partnership on Metrology– Draft Specific Objectives



2. That the European Union contributions to the Partnership should fund Joint Research Projects that aim to Increase and accelerate innovation through effective use of metrology solutions, capabilities and infrastructure. With the result that an average of 50 M€ of European turnover from new or significantly improved products and services can be attributed to the Metrology Partnership and its predecessors each year.

The European Partnership on Metrology– Draft Specific Objectives



3. That supporting activities associated with the Partnership should increase the role of metrology in design and implementation of public policy and regulation for key societal challenges. This should be demonstrated by the numbers of:

- roles on European and international policy, regulation and standards committees directly related to addressing social challenges
- contributions to European and international standards directly related to EU

Budget Ambition – 700 M€



- 210 M€ of EU money for internal funded partners
- 140 M€ of EU money for external funded partners
- We need to demonstrate national cofunding of 350 M€ in an “auditable” way i.e. some form of Finance Statements

Funding Structure



National Contribution (350 M€)	Union Contribution (350 M€)
90 % as in-kind contributions, demonstrated by Horizon Europe style finance statements, covering activities that:	20 % as funding to Joint Research Project calls in fundamental scientific metrology. Developing new capacity in measurement that drives innovation. About 45 % of this funding would be aimed at external partners so the best academic research can be brought in and applied to metrology.
<ul style="list-style-type: none"> • Develop and support the networks • Contribute research outputs aligned with the Strategic Agenda's of the European Metrology Networks and Euramet's Technical Committees • Maintain confidence in the services offered by the European Metrology System • Build capacity in the distributed system and train metrologists to ensure they can deliver at the local level. 	70 % as funding to Joint Research Project calls in applied metrology. Developing new capacity in measurement responding to the priorities of Horizon Europe. About 40 % of this funding would be aimed at external partners so the early adopters in industry and public services can participate and shape the outputs to meet their needs.
10 % as cash contributions. 8 % for the administration of the partnership and 2 % for supplementary activities such as Mobility Grants	10 % as funding to Joint Research Project calls in to support Standardisation and Regulation. Developing new capacity in measurement following identified needs from Standardisation Bodies and Regulators.

What about Associated Countries?



- Rules for association to Horizon Europe are unknown at present. (Brexit complicates the discussions!)
- Hope is that Associated Countries will bring their own country's joining fee which will increase the overall 350 M€ budget.
- For now, you need to be talking to your ministry that is negotiating the Association Agreement.

MSU Workshop on Time Recording



In response to questions about eligible costs from both participants and the MSU a workshop was held in October to discuss best practice for time recording, for aggregating time records for reporting purposes, and to share examples of real-world applications of H2020 rules. This was an opportunity for organisations less confident or able to easily demonstrate time commitments to discuss their concerns or issues and for EURAMET finance officers to feedback on possible ways forward so that organisations can develop or improve their capabilities in recording and processing time records accurately and efficiently.

A recording will be made available soon.

Full year results



- Full year data is due in February – but those that did not implement robust time recording until part way through the year may only be submitting data for part of the year.
- The template for full year data will be issued soon. It will include a template for describing the technical work done. This will be collected by the MSU, collated and sent to the EMNs and TCs with instructions on approving that the work described aligns with European priorities for metrology.

Preliminary call plan under discussion



2021	Green Deal
2022	Health, Integrated European Metrology
2023	Fundamental, Industry
2024	Green Deal
2025	Health, Integrated European Metrology
2026	Fundamental, Industry
2027	Green Deal

- Normative and some form of Research Potential in each year
- “Integrated European Metrology” replaces SI with a focus on joint capabilities and infrastructures

Green Deal Call scope 2021 (draft)



The “European Green Deal”, launched in December 2019, sets out the comprehensive, highest-priority objectives of the European Union to tackle climate and environment-related challenges¹. The Green Deal requires progress in:

- Increasing the EU’s Climate ambition for 2030 and 2050
- Supplying clean, affordable and secure energy
- Mobilising industry for a clean and circular economy
- Building and renovating in an energy and resource efficient way
- Accelerating the shift to sustainable and smart mobility
- From ‘Farm to Fork’: a fair, healthy and environmentally friendly food system
- Preserving and restoring ecosystems and biodiversity
- A zero-pollution ambition for a toxic-free environment

The Horizon Europe Clusters “5. Climate, Energy and Mobility” and “6. Food, Bioeconomy, Natural Resources, Agriculture and Environment” in Pillar 2 “Global challenges and European Industrial Competitiveness” are closely related to the Green Deal.

The Green Deal is also intended to be a key pillar of the post-Covid-19 economic recovery plan for Europe.

Timetable 2021



2021 Stage 1 call for GRD, NRM, RPT	13 Jan to 22 Feb	
2021 Stage 2 call for GRD, NRM, RPT	22 Jun to 4 Oct	
Partnering meetings	1 Jul to 9 Jul	Teams or Hybrid
2021 EMPIR RMG call	6 Jul to 7 Sep	
2021 Call for small collaborative projects (TBC)	6 Jul to 7 Sep (TBC)	
2021 Review conference	14 Nov to 19 Nov	Monaco or Teams

All dates are draft dates, as the underlying rules are subject to amendment by EC

Budget and features



- All numbers are draft numbers, as the underlying rules are subject to amendment by EC

	Joint Research Projects TP Green Deal	Joint Research Projects TP NRM	Joint Research Projects TP RPT
Indicative budget (EU Contribution)	23.0 M€	5.0 M€	2.0 M€
Average EU Contribution per project	3.0 M€	0.8 M€	0.5 M€
Maximum EU Contribution per project	3.5 M€	1.0 M€	0.6 M€
Expected EU Contribution to the external funded partners (% of total EU Contribution)	45 %	40 %	20 %

Next steps



- DG RTD are preparing their proposal for the Partnership, their response to the impact assessment and a draft of the Decision. This will be published when the Horizon Europe budget is agreed.
- EC are placing some emphasis on relationships between the partnerships. We have approached some of interest to us and some others have approached us. We need to analyse the portfolio and ensure we are talking to the ones closest to our interests.
- Euramet is now updating its 5 year strategy and will consult Delegates on that, EMN resources and the link to the Partnership in a meeting at the end of the year.

Questions?

