



EURAMET and the Role of **EMNs**

EMN Advanced Manufacturing

Stakeholder Event 11 October 2021

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EURAMET e.V.

The European Association of National Metrology Institutes



- 38 National Metrology Institutes (Members)
- 77 Designated Institutes (Associates)
- 16 international Liaison Organisations (e.g. IAEA, BIPM)
- Providing stakeholders with worldleading measurement solutions and standards
- Securing world-wide trust and acceptance of measurements, for all aspects of business and society
- Implementing Metrology ResearchProgrammes

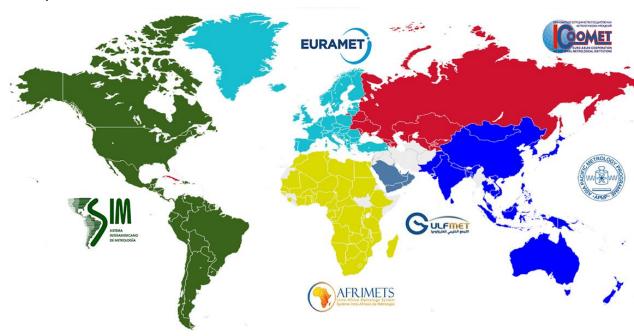


Regional Metrology Organisations (RMO)



RMOs coordinate the cooperation of National Metrology Institutes and Designated Institutes in:

- National Measurement Standards (traceability, international recognition under the Metre Convention)
- Research in metrology
- Capacity building
- Interaction with key stakeholders
- Influence on policy makers
- and others



Recent major developments



EURAMET 2030 Strategy

European Partnership on Metrology

European Metrology Networks (EMN's)













Strategic environment



The **EURAMET 2030 strategy** and the **Partnership on Metrology** respond to the strategic priorities Horizon Europe

- Green Deal
- Digital Transformation
- Health

and include

- The new SI with associated technological developments
- Regulation
- Capacity building

European Partnership on Metrology



- Successor programme to EMPIR
- New strategic objectives
 Sustainable metrology networks, regulation
- 300 M€ EU contribution
- Seven Call cycles 2021 to 2027
 Green Deal, Health, Digital Transformation, Fundamental Metrology, Integrated European Metrology, Industry needs, Prenormative, CB

- \rightarrow "Trilogue" of EU Parliament, Council and Commission finalised
- → Formal co-decision expected in autumn
- → "ahead-of-contract implementation" this year

European Metrology Networks



Objective: Create sustainable structures in areas of strategic importance for the future of European metrology

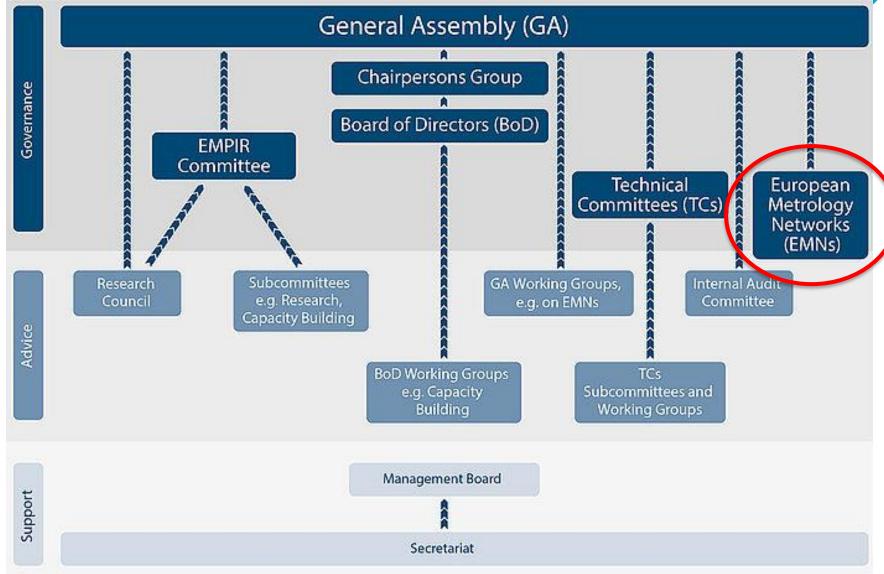


The Networks...

- cover areas of major strategic importance, with a European dimension
- establish close links with a wider stakeholder community, including other European Partnerships
- strive for scientific excellence
- develop and coordinate a common metrology strategy & infrastructure to support innovation, public policy, and regulation

EMNs are integral part of EURAMET





EMNs and TCs



Technical Committees	Metrology Networks
Focus on interactions between Euramet members	Focus on interactions with a specific group of stakeholders
Govern the MRA processes, link to other RMOs	Co-ordinate the work of the members to ensure that we make the best use of the limited resources

Both

- are considered as sustainable structures
- cooperate strongly to mutually benefit from technical expertise and stakeholder engagement

Approved EMNs



Title	Chair/Acting Chair	
Advanced Manufacturing	Harald Bosse (PTB)	new
Climate & Ocean Observation	Emma Woolliams (NPL)	
Energy Gases	Annarita Baldan (VSL)	
Mathematics and Statistics	Markus Bär (PTB)	
Quantum Technologies	Ivo Degiovanni (INRIM)	
Radiation Protection	Annette Röttger (PTB)	new
Smart Electricity Grids	Gert Rietveld (VSL)	
Laboratory Medicine	Rainer Stosch (PTB)	
Smart Specialisation in Northern Europe	Jan Johansson (RISE)	

EMNs considered in 2022/23

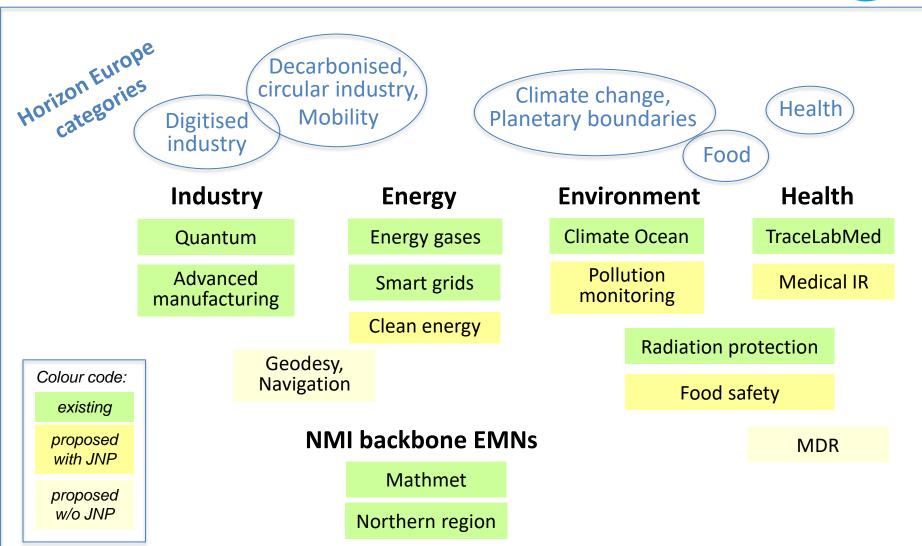


Possible EMNs	Contact Person
Medical use of Ionising Radiation	Valentin Blideanu (LNE)
Clean Energy	Fabian Plag (PTB)
Food Safety	Andrea M. Rossi (INRIM)
Pollution monitoring	Raphaël Maillard (LNE)
Smart Specialisation in Latin Region	Carmen Garcia Izquierdo (CEM)
Medical device regulation	Dominik Prazak (CMI)
Geodesy, Navigating, Timing and Positioning	Sten Bergstrand (RISE)

EMN Landscape

Thematic categories





Conclusion



- EURAMET has identified Green Deal and digital transformation as top priorities
- The Metrology Partnership programme aims at benefits for industrial stakeholders (esp. SMEs)
- ➤ EMN Advanced Manufacturing is the EMN with the clearest focus on stakeholders from industry (esp. stakeholders on European level)
- EMN Advanced Manufacturing is a key for addressing metrology supporting digital transformation and Green Deal issues of industrial processes and products