

**EMN Advanced Manufacturing
Open Stakeholder Meeting**

Torino, 24 October 2023

News from EURAMET

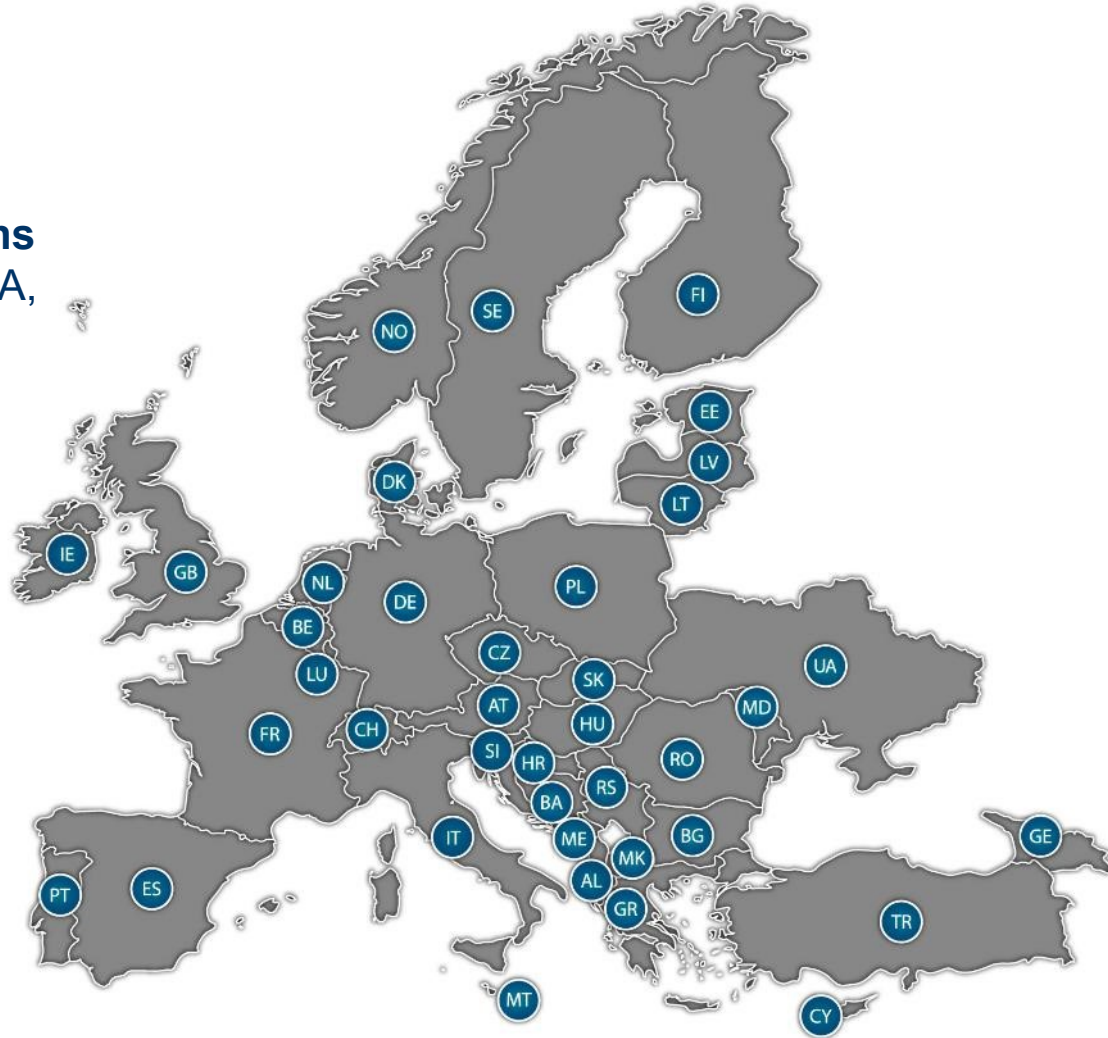
Jörn Stenger
Chairperson of EURAMET

EURAMET e.V.

The European Association of National Metrology Institutes



- **39 National Metrology Institutes**
- **76 Designated Institutes**
- **International Liaison Organisations**
(e.g. other RMOs, BIPM, OIML, IAEA, WELMEC, Eurolab, Eurachem, EA, European Partnerships)
- Securing **world-wide trust** and **acceptance** of measurements, **traceability** of measurement results **to the SI units** under the **Metre Convention**
- Developing **world-leading measurement solutions**
- Implementing **Metrology Research Programmes**
- Providing **Capacity Building**





Engaging Stakeholders
for Mutual Benefit

- Understand needs
- Impact through take-up of results

Supporting
Joint Research and
Development

- Strengthen research collaboration
- Align research to new challenges
- Deliver world-class excellence on metrology

Advancing Europe's
Quality Infrastructure

- Support the development of QI systems
- Contribute to better standardisation

Collaborating
with European
Policy Makers and
Governments

- Contribute to better regulation
- Provide inputs to relevant policies
- Elevate Metrology to decision makers

Delivering High
Value to Members
and Associates

- Underpin requirements of the CIPM MRA
- Assist members in achieving metrological capabilities
- Help bridge the gap between members

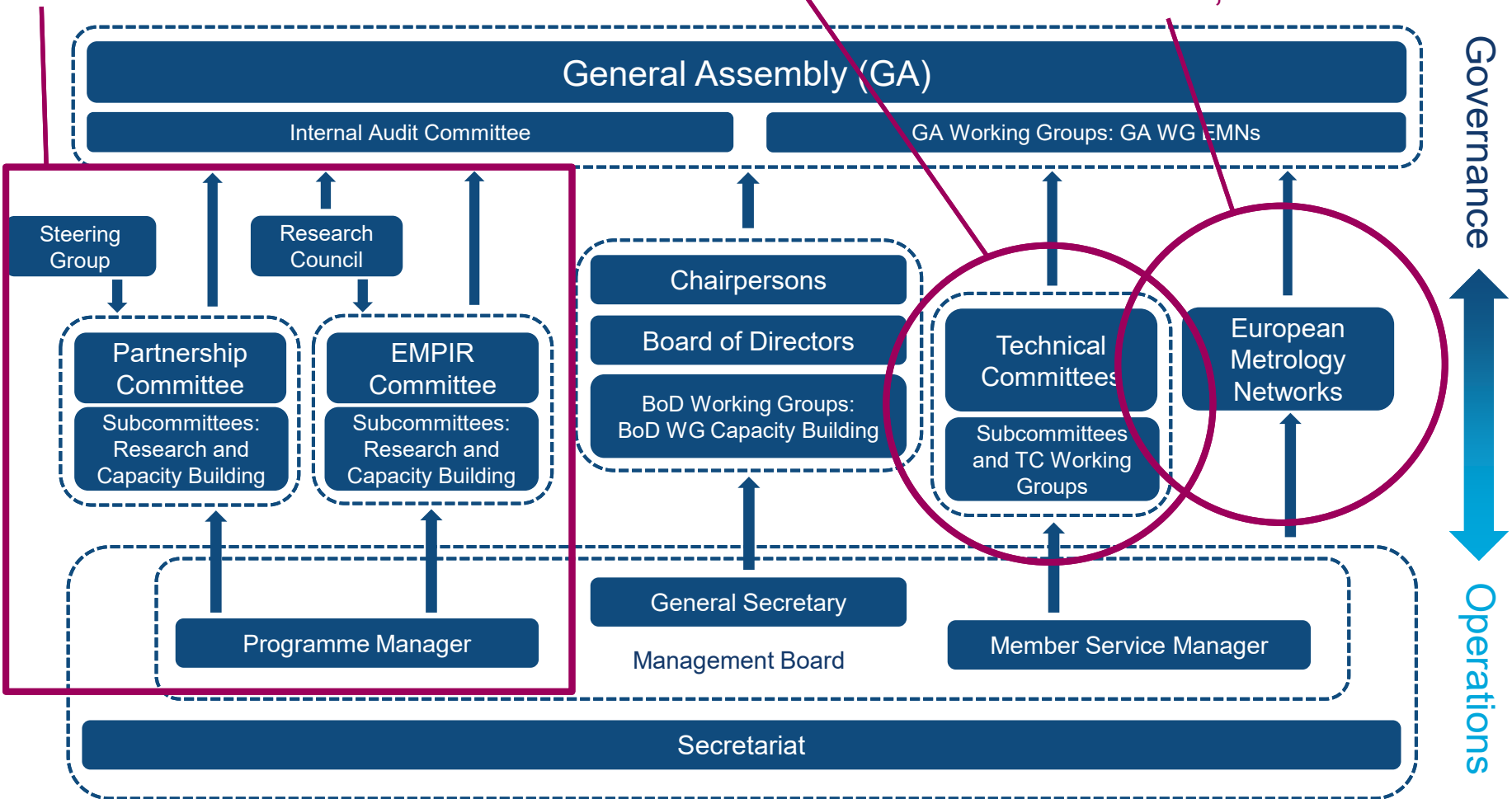
EURAMET Structure



Implement the research programs

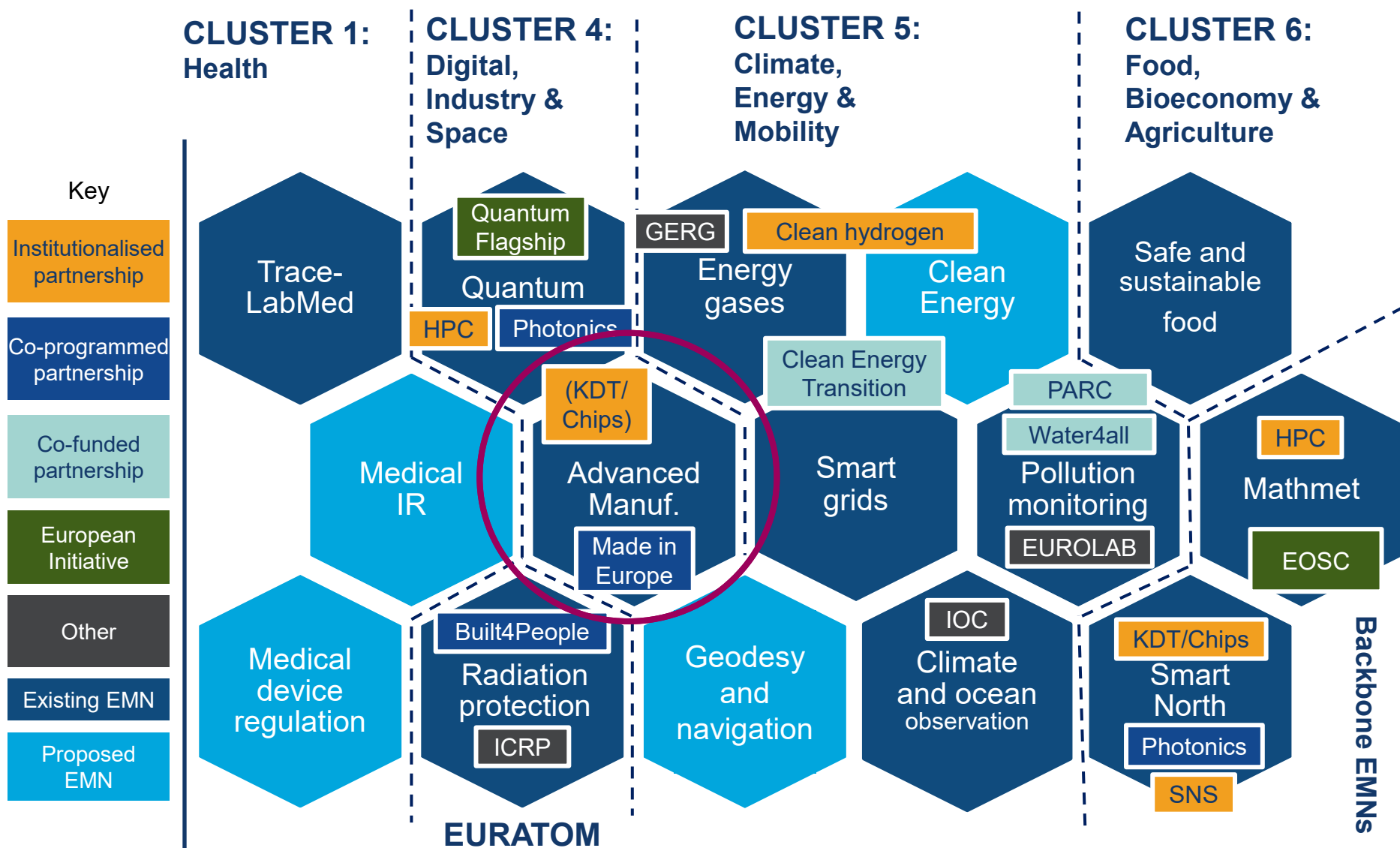
TC's govern the MRA processes

EMN's engage with stakeholders, SRA's



KDT and Made in Europe Partnerships are represented in Steering Group

EMN Liaisons with other Partnerships & Initiatives



European Partnership on Metrology



- Co-funded by EU (300 M€) and Member States (390 M€)
- Implemented by EURAMET e.V.
- General Objectives:
 - to develop a sustainable, excellent and coordinated metrology system at European level
 - to ensure that state of-the-art metrology capabilities are taken up by ecosystems
 - to increase the impact of metrology on societal challenges

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

- Normative and some form of Research Potential in each year

Discussion on Agenda for 2030 - 2040



Metrology for a stronger Europe

A European Metrology Agenda for the next decade

The European Metrology Agenda builds on the needs arising from the transition

of the energy supply, protection of the biosphere, a strong, sovereign, and competitive European industry, digital transformation, circular economy, transformation of national health systems, and resilience of the European infrastructures.

EURAMET has identified four key areas that will generate needs for comprehensive, strategic, and coordinated metrology agenda for Europe in the decade 2030 to 2040:

- 1) Green Deal
- 2) Competitive and resilient industry
- 3) Health
- 4) Cohesion and infrastructure.

Objectives of Key Area „Competitive and resilient industry“:

- New metrology capabilities and services for key enabling technologies that are strategically important for the European industrial value chains and competitiveness of Europe. Metrology for advanced manufacturing, micro- and nanoelectronics, quantum technology, and biotechnology.
- Support the digital transformation for example through methods for quality control of data in general, metadata, AI training data and algorithms.
- The SI at the point of use, by utilising quantum and digital technologies to provide primary realisations of the units within e.g. an industrial facility.
- Advanced manufacturing metrology to support design for circularity, and reliability of circulated materials, reducing the carbon and material footprint of industrial production.
- Support to quality infrastructure for circularity across the economy.

Thank you for your attention