



# The European Partnership on Metrology & EMPIR

June 2023  
Maguelonne Chambon  
EURAMET Vice-Chairperson  
Research

**METROLOGY  
PARTNERSHIP**



# European Partnership on Metrology



**Objective:** To create, by 2030, a world-class sustainable and coordinated system for metrology at European.

- A robust, **sustainable, excellent and coordinated** European Metrology Infrastructure
- To ensure state-of-the-art metrology R&D taken up by **innovators**
- **To increase impact** of metrology (industry, Society..)
- Address **European and global challenges**, including:
  - European Green Deal
  - UN Sustainable Development Goals
  - The Digital transition, European Industry strategy, KET
  - Better Health for All



**Budget ambition  
up to now  
~ 690 M€**

- 390 M€ from Member States
- 300 M€ EC funding
- 23 countries
- UK situation

**=> still to be followed**

**Further information: <https://www.euramet.org/partnership>**

# European Partnership on Metrology



## Developments from last GA up to now



### Contract amendment has to be done during summer 2022

- FFPA and MGA have been agreed with EC in September
- Contribution agreement for call 2021 signed
- All contracts for call 2021 have been emitted by MSU and signed (October), and all funded beneficiaries are getting pre-financing.
- 16 JRPs of Call 2021 officially started 😊



**EU Pillar  
assessment  
successful**

# European Partnership on Metrology

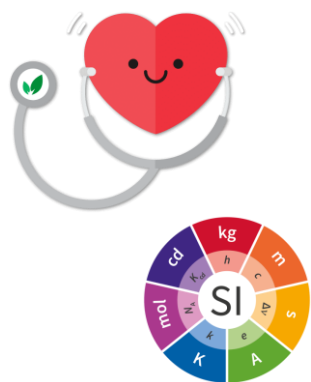


## Developments from last GA up to now - **Calls**



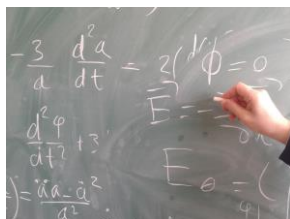
### Call 2022

- Full process finalised
- 27 JRPs selected and agreed by the Partnership Committee (25 + 2 considering UK situation)
- JRP grant agreement prepared, waiting for the CA signed by EC



### Call 2023

- Phase 1 finalised
- 93 PRTs received, 59 SRTs proposed & will go to EPM committee (56 for vote)
- UK situation still to be followed up



## Call sequence

2021	Green Deal (10 JRPs) & Normative (6 JRPs)
2022	Health (7 JRPs), Integrated European Metrology (7 JRPs), Digital transformation (2 JRPs), Normative (7 JRPs), Rpot (4 JRPs)
2023	<b>Fundamental, Industry, Normative, RPot + CSA-CB → on track</b>
2024	Green Deal, Digitalisation, ...
2025	Health, Integrated European Metrology, ....
2026	Fundamental, Industry, ....
2027	Green Deal, ....

### Some ideas for call scopes 2024 & 2025

- A new CSA call for communication and transverse support in 2024 ?
- A dedicate call only for regulation in 2025 (and not NRM)?

Participant Portal: <https://www.metpart.eu>

- STAIR-EMPIR platform
  - Standardisation needs
    - Initiated for EMPIR programme in 2015
  - Chair : **Robert Gunn** / NPL with the support of Eveline Domini & Dagmar Auerbach



# Partnership on Metrology – Some JRPs

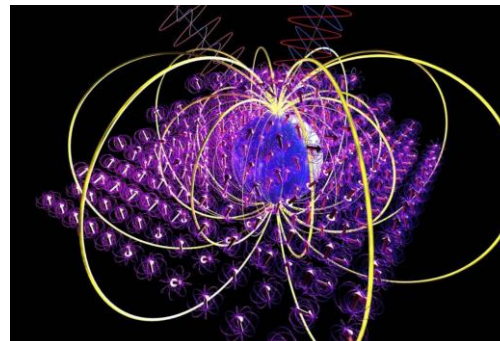


## 2021

- Carbon capture and storage
- Hydrogen supply chain
- Earth biosphere
- Emerging wireless standards
- Emerging EMC standards

## 2022

- Innovative nanotherapeutics
- Assessment of image-based AI systems for disease detection
- Genomic for diagnosis of early cancer detection
- Quantum based traceability of the Pa
- New generation of lamps for radiometry and photometry
- Trustworthy virtual experiments and digital twins
- Standardisation of hydrogen fuel sampling for heavy duty  $H_2$  transport
- Radiation protection dosimeters





## 3 meetings of the Steering Group (June, October 2022 & March 2023)

- Objectives
  - Better align the R&D priorities with the stakeholders needs and facilitate synergies in HE.
  - Identify R&D areas which contribute to the functioning of the internal market and Unions climate neutrality goal.
  - Advise the Partnership on priorities for the future work programmes.
- Meetings
  - First input on what metrology needs they see ahead in view of the preparation of upcoming Work Programmes
  - Discussion about regulatory needs and open consultation event on regulation call.





# Events



- 2022-11-21
  - [Quantum metrology, the present and the future](#)
- 2022-11-02 to 2022-11-04
  - [MathMet conference](#)
- 2022-10-05 to 2022-10-06
  - [Metrology for Industry \(Call 2023\): Open consultation on Metrology for Radiation Protection](#)
- 2022-09-26 to 2022-09-30
  - [BIPM-WMO Metrology for Climate Action Workshop](#)
- 2022-09-19 to 2022-09-20
  - [IMEKO TC6: First International Conference on Metrology and Digital Transformation](#)
- 2022-07-08 to 2022-07-08
  - [Open consultation on Metrology for Semiconductor Technologies](#)

# Events



- [Workshop: Comprehensive traceability for force metrology services](#)  
**24 February 2023**
- [Enabling reliable fuel consumption measurements](#)  
**20 February 2023**
- [Measurement solutions for Energy Gases Stakeholder workshops](#)  
**21 & 22 March 2023**
- [Workshop on Metrology for Biofuel Industry - 2nd BIOFMET Stakeholders' Workshop](#)  
**28 & 29 March 2023**
- [EMN for Radiation Protection: PIANOFORTE Needs and Information Sharing](#)  
**10 May 2023**
- [Measurements supporting the global food system](#)  
**15 May 2023 supporting the WMD**
- [EMN Advanced Manufacturing Capacity Building Workshop](#)  
**16 & 17 May 2023**

# Partnership Sub-Committees



## **EPM Chair**

Maguelonne Chambon (FR)

## **EPM Deputy chair**

Marc Pieksma (NL)

**Programme Manager : Dagmar Auerbach**

## **Sub-Committee members elected during 2022 summer time**

### **SC-R**

Dolorès del Campo (ES), Erkki Ikonen (FI), Rado Lapuh (SI), Filippo Levi (IT), Jörn Stenger (DE), Jiri Tesar (CZ)  
+ EPM Chair & Deputy Chair

### **SC-CB**

Paul Hetherington (IE), Erkki Ikonen (FI), Rado Lapuh (SI), Petra Milota (AT)  
+ EPM Chair & Deputy Chair



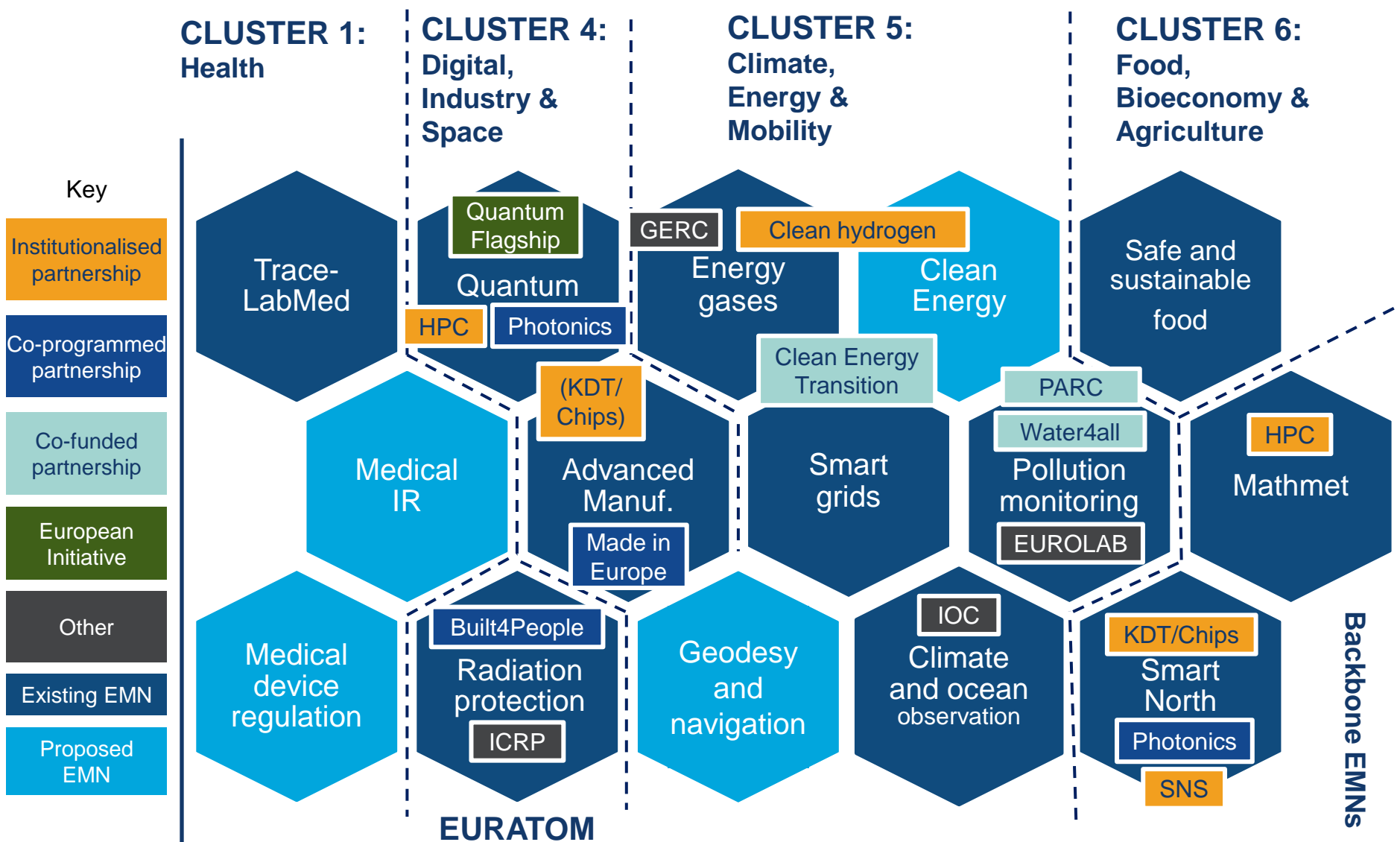
# Partnership – updated information



**New election of a EPM Deputy chair**  
Peter Pavlasek (SK)



# Importance to strengthen liaisons with other EU Partnerships & Initiatives



The EMPIR initiative is co-funded by the European Union's Horizon 2020 research and innovation programme and the EMPIR Participating States

- Last EMPIR JRPs will be completed by end of 2024
- Last Mid-Term Reviews performed
- EMPIR → more than 240 JRPs finalised

