

EURAMET Vision on European Metrology Networks

General Assembly, Plenary Session

1 June 2023

Hans Arne Frøystein, Convenor GA wg EMN

Motivation and need for the European Metrology Networks

- Bridge to outside world, towards high-level European and global stakeholders
- Solve cross-disciplinary metrology challenges beyond single NMI & DI capabilities
- Strengthen scientific excellence and impact of R&D
- Create a framework for smart specialisation
- Promote knowledge transfer, technology transfer
- Complementing the TCs and R&D programmes as key EURAMET structures



The gateway to Europe's
integrated metrology community.



Engaging Stakeholders
for Mutual Benefit

Supporting
Joint Research and
Development

Advancing Europe's
Quality Infrastructure

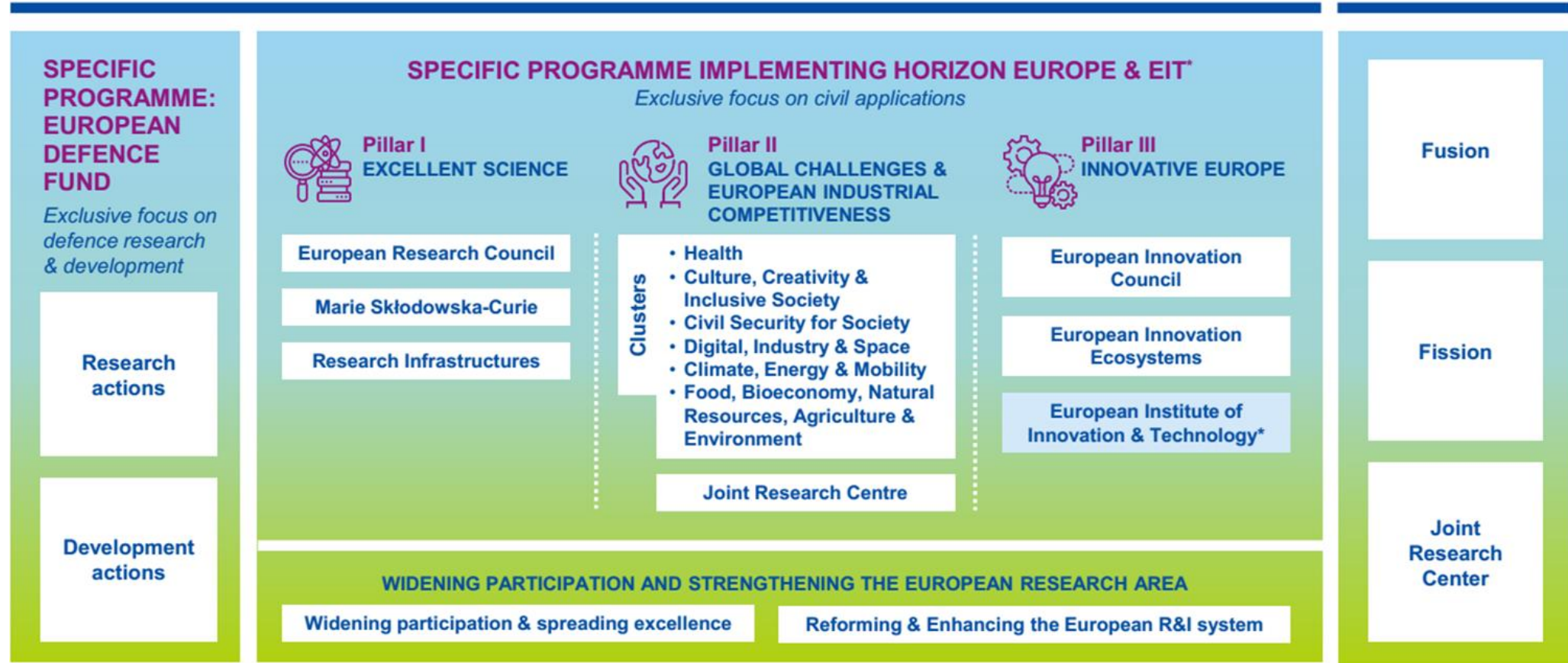
Collaborating
with European
Policy Makers and
Governments

Delivering High
Value to Members
and Associates

EURAMET's 2030 Strategy

HORIZON EUROPE

EURATOM



* The European Institute of Innovation & Technology (EIT) is not part of the Specific Programme

Overview of 49 candidate European Partnerships

HORIZON EUROPE PILLAR II - Global challenges & European industrial competitiveness

CLUSTER 1: Health	CLUSTER 4: Digital, Industry & Space	CLUSTER 5: Climate, Energy & Mobility	CLUSTER 6: Food, Bioeconomy, Agriculture, ...
Innovative Health Initiative	Key Digital Technologies	Clean Hydrogen	Circular Bio-based Europe
Global Health Partnership	Smart Networks & Services	Clean Aviation	Rescuing Biodiversity to Safeguard Life on Earth
Transformation of health systems	High Performance Computing	Single European Sky ATM Research 3	Climate Neutral, Sustainable & Productive Blue Economy
Chemicals risk assessment	European Metrology (Art. 185)	Europe's Rail	Water4All
ERA for Health	AI-Data-Robotics	Connected and Automated Mobility (CCAM)	Animal Health & Welfare*
Rare diseases*	Photonics	Batteries	Accelerating Farming Systems Transitions*
One-Health Anti Microbial Resistance*	Made in Europe	Zero-emission waterborne transport	Agriculture of Data*
Personalised Medicine*	Clean steel – low-carbon steelmaking	Zero-emission road transport	Safe & Sustainable Food System*
Pandemic Preparedness* <i>Co-funded or co-programmed</i>	Processes4Planet	Built4People	
	Global competitive space systems**	Clean Energy Transition	
		Driving Urban Transitions	

- Institutionalised Partnerships (Art 185/7)
- Institutionalised Partnerships / EIT KICs
- Co-Programmed
- Co-Funded

* Calls with opening dates in 2023-24
 ** Calls with opening dates not before 2022

PILLAR III - Innovative Europe

EIT (KNOWLEDGE & INNOVATION COMMUNITIES)	SUPPORT TO INNOVATION ECOSYSTEMS
InnoEnergy	Innovative SMEs
Climate	
Digital	
Food	
Health	
Raw Materials	
Manufacturing	
Urban Mobility	
Cultural and Creative Industries	

CROSS-PILLARS II & III

European Open Science Cloud

Approved EMNs



#	Title	Chair/Acting Chair	GA-wg Mentor
1	Advanced Manufacturing	Harald Bosse (PTB)	Martti Heinonen (VTT)
2	Climate and Ocean Observation	Emma Woolliams (NPL)	Maguelonne Chambon (LNE)
3	Energy Gases	Annarita Baldan (VSL)	Hans Arne Frøystein (JV)
4	Mathematics and Statistics	Francesca Pennechi (INRiM)	Jörn Stenger (PTB)
5	Pollution Monitoring	Nathalie Guigues (LNE)	Michela Sega (INRiM)
6	Quantum Technologies	Ivo Degiovanni (INRiM)	Maguelonne Chambon
7	Radiation Protection	Annette Röttger (PTB)	Jörn Stenger
8	Safe and Sustainable Food	Andrea Rossi (INRiM)	Hans Arne Frøystein
9	Smart Electricity Grids	Stefano Lodetti (NPL)	Martti Heinonen
10	Traceability in Laboratory Medicine	Vincent Delatour (LNE)	Michela Sega
11	Smart Specialisation in Northern Europe	Jan Johansson (RISE)	Martti Heinonen

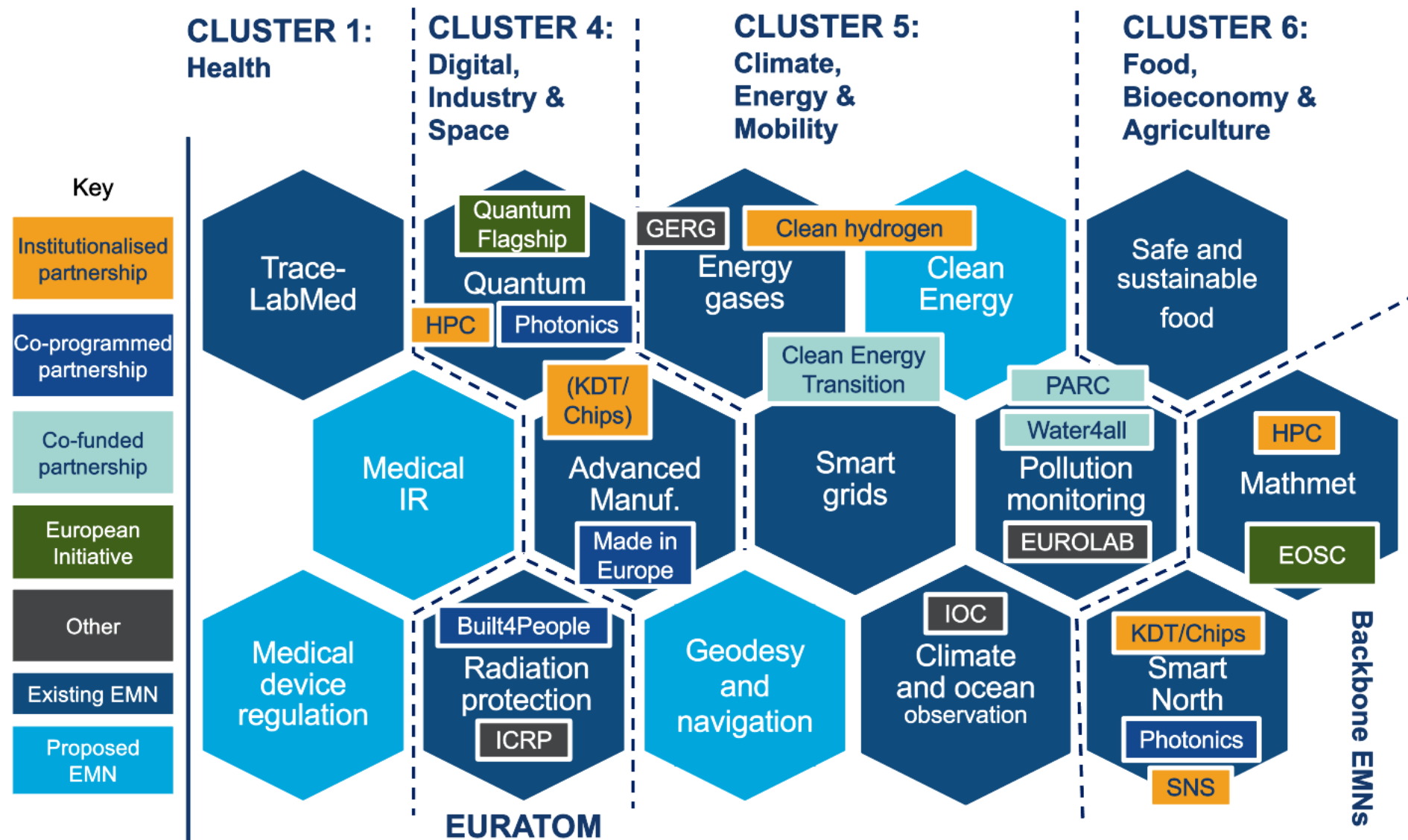


EMNs under development 2023-2024

#	Title	Contact person	GA-wg Mentor
1	Medical use of Ionizing Radiation	Jean-Marc Bordy (LNE)	Maguelonne Chambon
2	Clean Energy	Fabian Plag (PTB)	Jörn Stenger
3	Medical Devices with measuring function	Dominik Pražák (CMI)	Jörn Stenger
4	Autonomous transport	Sten Bergstrand (RISE)	Mustafa Cetintas (TUBITAK-UME)



EMNs vs. Horizon Europe Clusters and liaisons with Partnerships & Initiatives



Joint Networks Projects



Corresponding EMN	Project	Ceasing in
Energy Gases	18NET01	April 2023
Smart Grids	18NET03	April 2023
Mathmet	18NET05	May 2023
Advanced Manu	19NET01	May 2024
Quantum	19NET02	May 2024
Clean Energy*	20NET01	April 2024
TraceLabMed	18NET02	May 2024
ClimOcNet	18NET04	April 2024
Radiation Prot.	19NET03	May 2024
MIRA*	19NET04	May 2024
Safe&Sust.Food	20NET02	May 2024
Polmo	20NET03	May 2024

Projects financed through EMPIR, to support the initial development of the EMNs including i a:

- Stakeholder events, establishment of liaisons
- Strategy development
- Communication, information
- Services overview
- Knowledge transfer

After the end of JNP, other solutions to maintaining and developing the EMNs are sought

Topics	EMNs
Energy: A clean and efficient energy transition	Energy Gases, Smart Grids
Environment and oceans: Protecting our biodiversity and ecosystems	Pollution Monitoring, Climate & Ocean, Radiation protection
One health: A better health for all	TraceLabMed, Safe and Sustainable Food
Industry: An industrial strategy for a competitive, green and digital Europe	Quantum, Advanced Manufacturing
Interdisciplinary	Smart North, Mathmet