

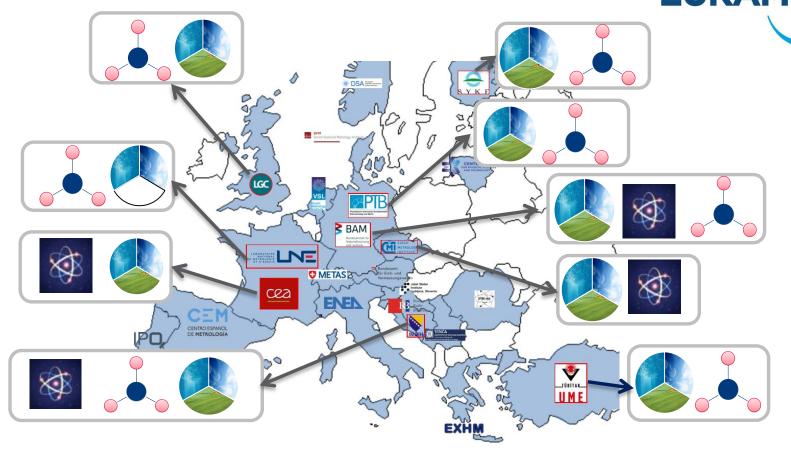
European Metrology Network for Pollution Monitoring

EMN PolMo

Sophie Lardy-Fontan (LNE) Acting Chair

GA EURAMET 31st May-2nd June 2022

A JNP to support PolMo at its initial stage

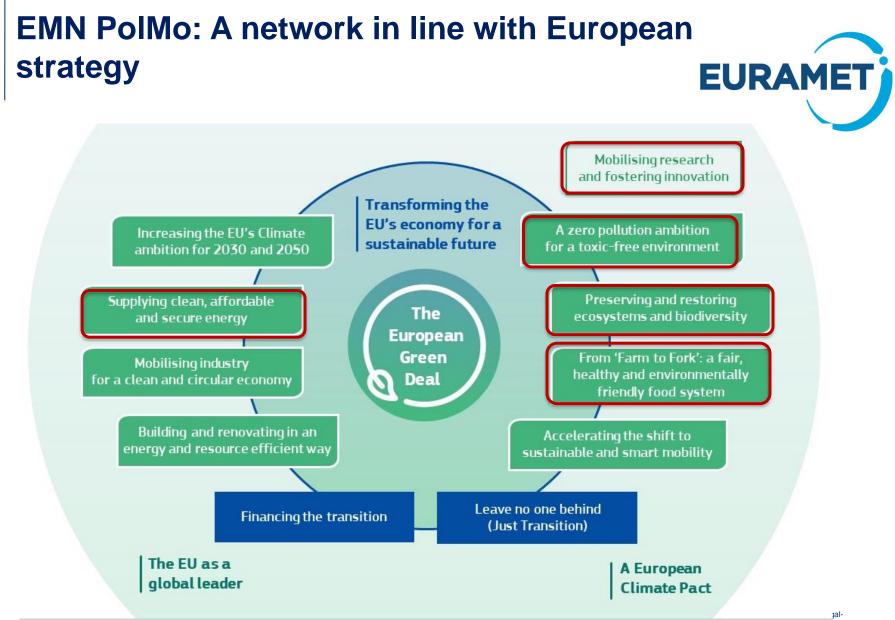


9 Euramet core partners covering all sectors related to pollution monitoring of chemical pollutants and radionuclides
1 Launched in June 2021- 3 years project
Coordinator LNE _ Raphael MAILLARD raphael.maillard@lne.fr

EMN for Pollution Monitoring







content/EN/TXT/HTML/?uri=CELEX:52019D C0640&from=ET

EU's zero pollution ambition, which is a key commitment of the European Green Deal

EMN PolMo: A network in line with global strategy



United Nations Environment Assembly of the United Nations Environment Programme

Celebrating the First Milestone Towards Establishing a Global Science-Policy Panel

PUBLISHED ON MARCH 7, 2022.

Last week, the United Nations Environment Assembly (<u>UNEA 5.2</u>) took an important step towards establishing an independent Intergovernmental Science-Policy Panel on chemicals, waste and pollution. Such a body is much needed to address the global threats posed by chemical pollution.

The IPCP sincerely thanks the <u>nearly 2100 signatories from over 90 countries</u> and all the scientists and practitioners who sent <u>letters to their Ministries</u> signaling strong support from the scientific community for establishing this body. These actions have played an important role in the preparations for the UNEA 5.2 negotiations.

The UNEA 5.2 has ended with many encouraging resolutions that mark the start of a multi-year negotiation process. The IPCP will continue to follow, engage academic scientists and experts, and provide input during the next stages of negotiations to establish the Intergovernmental Science-Policy Panel.

About IPCP:

The International Panel on Chemical Pollution (IPCP) is an international network of academic scientists from all regions of the world supporting environmental and human-health protection from chemical pollution. The IPCP accomplishes this by sharing, comparing and evaluating results of scientific research, identifying areas in which a consensus has been reached, and highlighting major uncertainties and research needs. The IPCP is open to independent academic scientists from all over the world and aims to develop a scientifically sound and balanced view of major issues of chemical pollution and to evaluate different options for chemicals management. Based on its scientific expertise, the IPCP supports political processes at national and international levels.

EMN POLMO: A network to support european regulation and policy needs



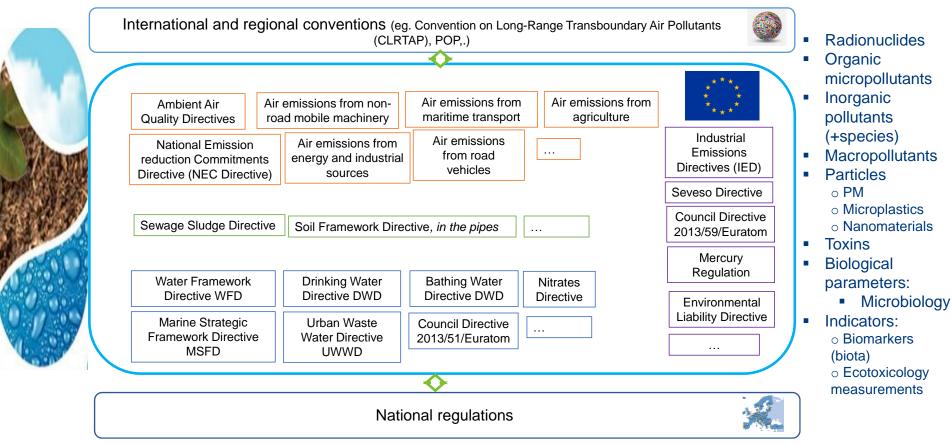
- POLMO aims to be the metrological reference for a sustainable infrastructure dedicated to support European and international regulation and directives targeting pollution monitoring.
- POLMO as unique focal point in pollution monitoring landscape aims to establish a regular and sustainable dialogue between NMIs/DIs and stakeholders.
- POLMO will establish an EU-wide metrology hub of excellence to support EU and national authorities to address current, emerging and future metrological needs and challenges related to pollution monitoring

EMN POLMO: A network to support european regulation and policy needs



- POLMO will seek to be the primary partner of the European Commission in terms of providing metrology-related policy advice for pollution regulation.
- POLMO expects to reach a position of trust and authority and to be consulted on aspects related to metrology and measurements by stakeholders like policymakers and large-scale funders, particularly by
- the European Commission,
- standardization organizations (SDO),
- European agencies (EEA, ECHA, EFSA, IAEA),
- reference networks
- Partnerships under Horizon Europe
- international organizations such as WHO, GAW.

Scope and Focus of the EMN PolMo

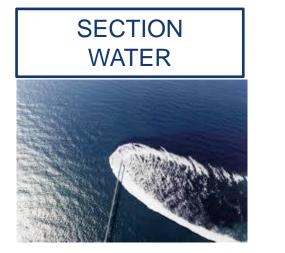


EURAMET

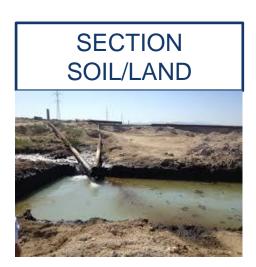
→ To develop holistic approach overpassing silo approaches to support EU regulation and policies

Proposed EMN organisation



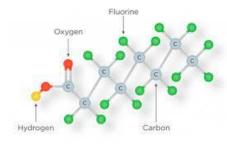






TRANSVERSAL TECHICAL THEMATICS: eg Microplastics, PFAS, sensors





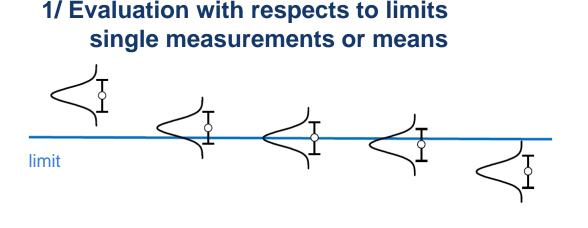


TRANSVERSAL THEMATIC: S2PD, stakeholders dialogue

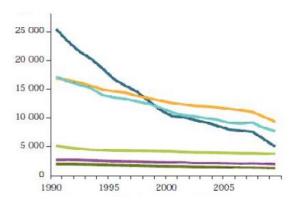
What is the qualitative character of the regulation PolMo refers to?



Basic common principles



2/Trends Analysis



3/ List of pollutants, limits, monitoring requirements and QA/QC criteria could be set at EU level (core of the directives) and/or Member States level (transposition)

What is the qualitative character of the regulation PolMo refers to?

- Traceable to SI measurements
 - Reference methods/standards
 - Minimum performances
 - Best available techniques

Best available techniques not entailing excessive costs

Common basis = ISO/IEC-17025 + Proficiency testing

Different organisation in MS

1/ Public laboratories

2/ Private commercial laboratories \Rightarrow Call for tenders

technical	cost
cost	technical

 \Rightarrow ratio technical/cost is \checkmark

Common context = 7 demand to decrease costs on monitoring

Demand for holistic approach **7**

11

Regulation: Evaluation of level of interaction (technical and or in term of stakeholders)



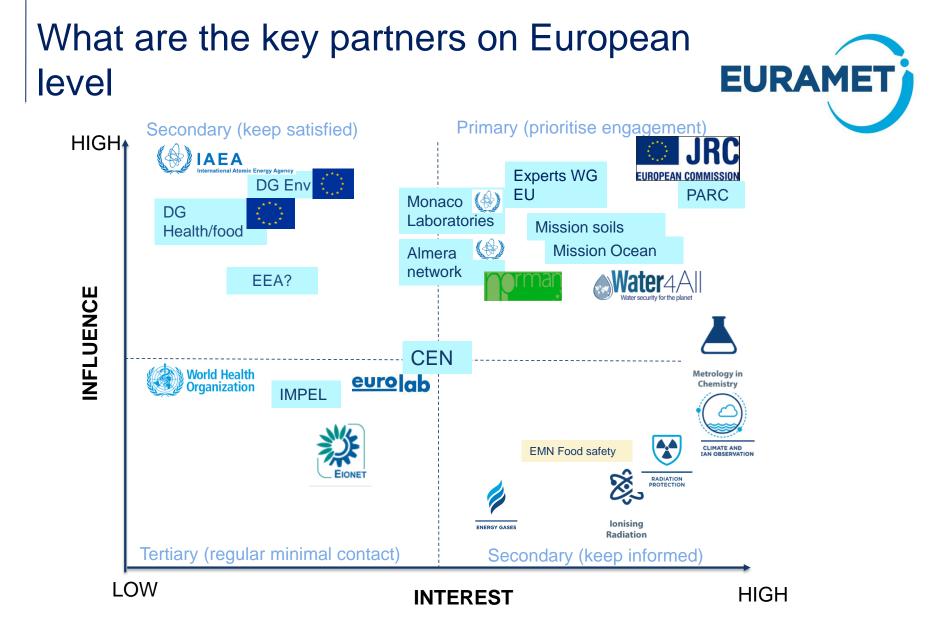
	EMN COO	EMN FOODMETNET	IN ENERGY GAS	EMN RADIATION PROTECTION	тс/мс	TC/IR	DIGITALIZATOIN		
Directive industrial emission IED	++	0	+	0	+++	0	+		
Directive(s) Air quality	+++	0	+	0	+++	0	+		
Directive (EU) 2015/2193 limitation of emissions of certain	++	0	0	0	+++	0			
pollutants into the air from medium combustion plants	TT	U	0	0	+++	0	Ŧ		
National Emissions Directive	+++	0	+	0	+++	0	+		
Bathing Water Directive	+	+	0	0	+++	0	+		
Water Framework Directive	+	+	0	0	+++	0	+		
Groundwater Directive	0	0	0	0	+++	0	+		
Marine Strategy Framework Directive MSFD	+++	+	0	+	+++	0	+		
Drinking Water Directive DWD	0	+	0	+	+++	0	+		
Urban Wastewater Treatment plan Directive UWTPD	0	0	0	0	+++	0	+		
Nitrates Directive	0	0	0	0	+++	0	+		
Regulation on minimum requirements for water reuse	0	+	0	0	+++	0	+		
Sewage sludge Directive	0	+	0	0	+++	0	+		
Soil directive (on progress)	++	+	0	0	+++	0	+		
Council Directive 2013/51/Euratom water	0	+	0	+++	0	++	+		
Council Directive 2013/59/Euratom chapter VIII	0	+	0	+++	0	++	+		
Mercury Regulation	0	++	0	0	+++	0	+		
REGULATION (EU) 2019/1021 on persistent organic pollutants	0	+	0	0	+++	0	+		
PROTOCOL to the 1979 Convention on Long Range Transboundary Air Pollution on Persistent Organic Pollutants	+	0	0	0	+++	0	+		
OSPAR convention	++	0	0	+	+++	0	+		
Barcelona convention	++	0	0	+	+++	+	+		
Bucharest convention	++	0	0	+	+++	+	+		
HELCOM	++	0	0	+	+++	+	+		

Partnerships: Evaluation of level of interaction (technical and or in term of stakeholders)



	EMN COO	IN FOODMETN	IN ENERGY GAS	IN RADIATION PROTECTIO	EMN TRACELABMED	тс/мс	TC/IR	Digitalization		
European Partnership for Chemicals Risk Assessment PARC	0	++	0	0	++	+++	0	+		
WATER4ALL	++	0	0	0	0	?	0	+		
MISSION SOILS	++	+	0	0	0	?	0	+		
MISSION WATER/OCEAN	+++	0	0	0	0	?	0	+		
European Partnership for One Health/AMR Antimicrobial Resistance (AMR)	?	+++	0	0	+++	?	0	+		
European Partnership for Clean Aviation										
European Partnership for Clean Energy Transition										
European Partnership for rescuing biodiversity to										
safeguard life on Earth	in progress*									
European Partnership for Safe and Sustainable Food Systems										
European Partnership on zero-emission waterborne transport										
European Open Science Cloud (EOSC) Partnership										
European Partnership – Towards zero-emission road transport (2ZERO)										
European Partnership driving urban transitions to a sustainable future (DUT)										
European Partnership for Blue Oceans										

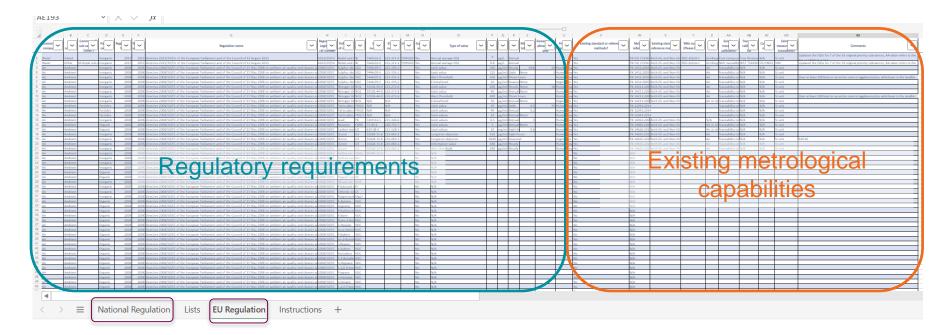
*Other EMNs/developing EMNs have established contacts to some of these Partnerships.



- More than 200 stakeholders yet identified
- Formal engagement will be launched in the next coming weeks
 - 14

SRA development: Review of the needs and existing capabilities





- More than 2000 entries at this stage ….
- Water sector >> air sector> soil sector



Organic micropollutants >> all others pollutants

Stakeholders survey will be launched in the next coming weeks

Achievements Creating impact



International conferences

- Creation of a European Metrology Network on pollution monitoring-PolMo - DNAQUA International Conference, March 2021
- Creation of a new European Metrology Network on Pollution Monitoring (PolMo) inside EURAMET - CIM, September 2021
- Joined EMNs Key note lecture Gas Analysis 2022, May 2022
- Other communications yet planned

8 communications in Metrology organisations (CCQM, TC-MC, TC-IR)

Partners' presentation in their networks regularly include PolMo