

## **News from EURAMET**

29<sup>th</sup> COOMET Committee Meeting  
Dresden, Germany  
3 – 4 April 2019

Wolfgang Schmid  
Member Service Manager

# OUTLINE

- Update on membership and organisation
- TC and CIPM MRA related activities
- Joint Research and European Metrology Networks
- Liaison Activities

# EURAMET Membership



## Recent changes:

- **Croatia:**  
DZM as new NMI (replacing HMI)
- **Lithuania:**  
VMC stops as DI; CMCs pass to FTMC (NMI) and LEI (DI)
- **Portugal:**  
IH-LQPM as new DI for chemistry (sea water, sediments)

## ▪ **Members:**

37 European NMIs

## ▪ **Associates:**

78 DIs

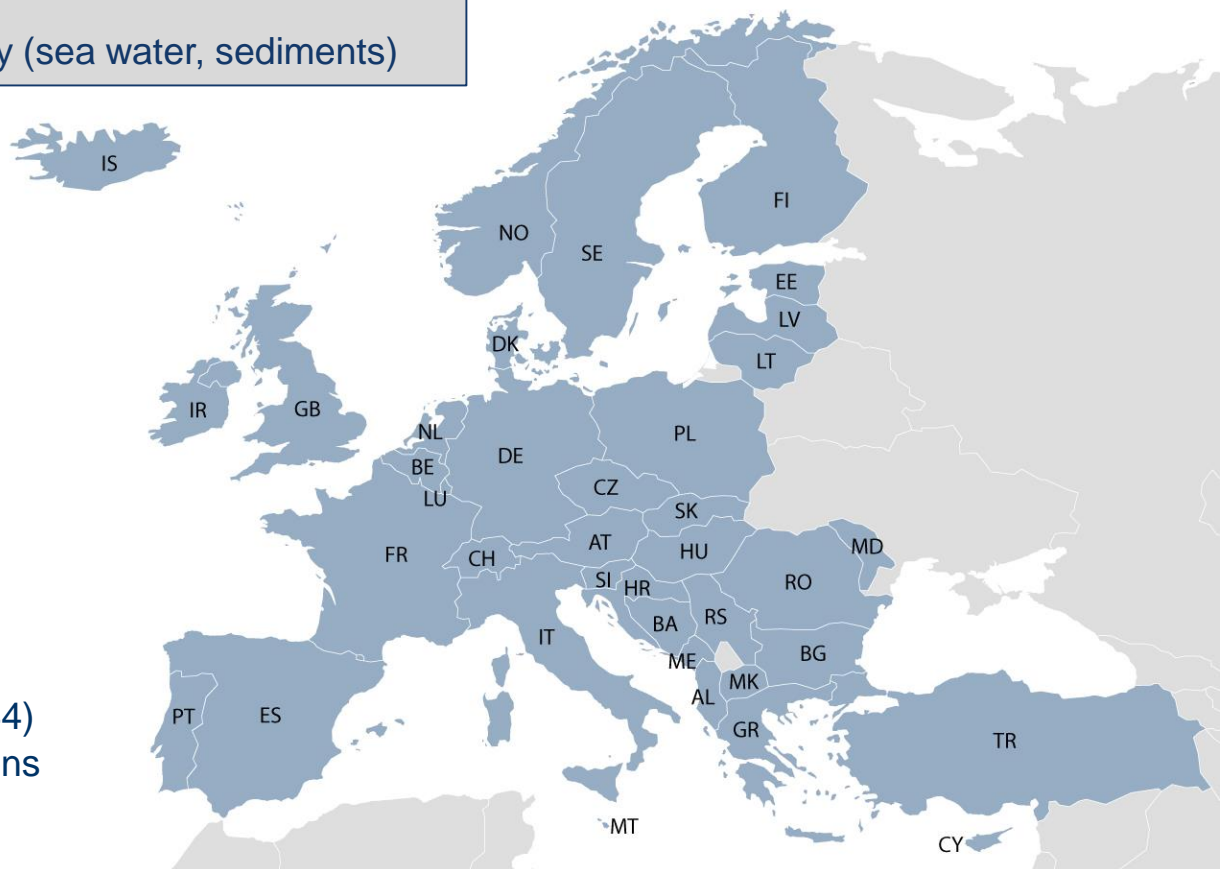
1 NMI applying for membership

## ▪ **Liaison Organisations:**

RMOs & BIPM

NMIs beyond Europe

KMA (Kosovo under UNSCR 1244)  
regional/international Organisations



# 12<sup>th</sup> EURAMET General Assembly

28 to 31 May 2018, Bucharest, Romania



- **Hans Arne Frøystein** (JV, Norway) took over as **EURAMET Chair** (2018 – 2021)
- Re-election of BoD-Members
- **HMI/DHMZ-SOUL**  
New DI from Croatia for chemistry (environmental gases) accepted as Associate (A-DI)
- **EMPIR follow-up:**  
First outline paper describing the cornerstones programme
- **“European Metrology Networks”:**  
(EMN) were introduced as new structural element in EURAMET
- The first six EMNs were approved
- **General Assembly 2019:**  
Borås, Sweden, 21 to 24 May





# EURAMET Chairpersons



## CHAIRPERSON

**Hans Arne Frøystein**

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## VICE-CHAIRPERSON (GA)

**Dr Maria Luisa Rastello**

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E-mail: [vicechairperson@euramet.org](mailto:vicechairperson@euramet.org)  
[About Maria Luisa >>](#)



## VICE-CHAIRPERSON (EMPIR)

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[About Erkki >>](#)



## PAST CHAIRPERSON

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[About Beat >>](#)

# Board of Directors



Name	Institute	Country	Position
Frøystein, Hans Arne	JV	Norway	Chairperson
Rastello, Maria Luisa	INRIM	Italy	Vice-Chairperson (GA)
Ikonen, Erkki	VTT	Finland	Vice-Chairperson (EMPIR)
Jeckelmann, Beat	METAS	Switzerland	Past-Chair
Chambon, Maguelonne	LNE	France	Member
Džemić, Zijad	IMBiH	Bosnia - Herzegovina	Member
Edelmeier, Robert	BEV	Austria	Member
Klenovský, Pavel	CMI	Czech Republic	Member
Stenger, Jörn	PTB	Germany	Member

# Technical Committee Chairs



TC	TC-Chair	Institute	Country
AUV	Robinson, Stephen	NPL	United Kingdom
EM	Callegaro, Luca	INRIM	Italy
F	Milota, Petra	BEV	Austria
IM	Dobre, Miruna	SMD	Belgium
IR	Ankerhold, Ulrike	PTB	Germany
L	Bosse, Harald	PTB	Germany
M	Spohr, Isabel	IPQ	Portugal
MC	Andres, Hanspeter	METAS	Switzerland
PR	Kück, Stefan	PTB	Germany
Q	Stoll-Malke, Kai	PTB	Germany
T	Del Campo, Dolores	CEM	Spain
TF	Whibberley, Peter	NPL	United Kingdom

## New TC Chairs to start in May 2019

Markus Zeier, CH

Isabelle Care, FR

Emilia Prieto, ES

Fredrik Arrhén, SE

Sophie Vaslin Reimann, FR

## Management Board

General Secretary – Duncan Jarvis  
Member Service Manager – Wolfgang Schmid  
Programme Manager – Dagmar Auerbach

### Member Services Activities

Activities relevant to  
membership e.g. the GA

Support to TCs and TC  
Chairs including TC-Q  
secretary

Relationships with other  
RMOs and the JCRB

### Overhead Activities

General administration and  
IT infrastructure including  
website

Communication activities

Internal quality system

Finance and legal advice

### Programmes

Programme call, selection  
and reporting activities

Impact support

Interface with the EC

Research Council

Capacity Building

Network support

**Contact the Braunschweig office**  
**+49 531 592 1960**

**Contact the Teddington  
office**  
**+44 20 8943 6666**



- Update on membership and organisation
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## Discussed topics (among others)

- European Metrology Networks (EMNs) and interaction with TCs
- Strategic planning of comparisons
  - EURAMET procedure existing (approved in 09/2018)
  - long term plans for EURAMET KCs/SCs are existing
  - TCs are currently in internal discussion processes and are developing strategies
- Hybrid comparisons
  - APMP concept was discussed in detail (TC-L Chair Harald Bosse presented)
  - all TCs started internal consultation process after meeting
  - concept was considered as good and useful
  - JCRB should discuss frame for use: typical situation, limitations, documentation, ...
- Re-evaluation of published CMCs
  - process started to understand practice of each EURAMET TC / CC
  - discussion will be continued (TC-internal and among TC Chairs + BoD)
- Capacity Building
- Calibration and Technical Guides

# Calibration & Technical Guides



Calibration and Technical Guides are currently reviewed and brought to new design

<https://www.euramet.org/publications-media-centre/>

# Capacity Building in EURAMET Overview



- Capacity Building activities
  - Training courses: annual programme } 200–250 k€/yr EMPIR members
  - Researcher Mobility Grants
  - Research Potential Projects (EMPIR) } 1 - 2 M€/yr EMPIR EU funding
- BoD Working Group for Capacity Building (BOD-WGCB)
  - giving strategic advice on CB activities
  - next annual meeting in October 2019
- Capacity Building is supported by
  - Capacity Building Officer: Tanasko Tasic
  - EMPIR funds
- CB strategy drafted

*Vision: An efficient, balanced and integrated European metrology infrastructure which meets national and European needs.*
- Close cooperation with BIPM CB&KT programme and with other RMOs to achieve synergy effects
- See EURAMET website for more information:  
<https://www.euramet.org/knowledge-transfer/capacity-building/>

# Summer school of thermal metrology

## EIM, Thessaloniki, 17-21 Sep 2018



Structured programme – concentrated covering of all important sub-areas!

- General metrology, CIPM, CCs, CCT
- EURAMET, RMOs, NMIs, DIs,
- EURAMET TC for Thermometry
- Units, uncertainties
- Contact and non-contact thermometry
- Humidity
- Thermophysical quantities
- Lab sessions (7 in parallel)
- Summary & a view in future



44 students from 32 countries

- 36 from EURAMET NMIs and DIs
- **8 guests from all other RMOs**

28 lecturers

- 22 from EURAMET
- 1 from COOMET / 1 from BIPM
- 4 from other institutions.

Possitive side effects:

Good relationship developed between students and lecturers  
Inter-RMO collaboration in practice

High engagement in the preparation from TC-T community and host EIM



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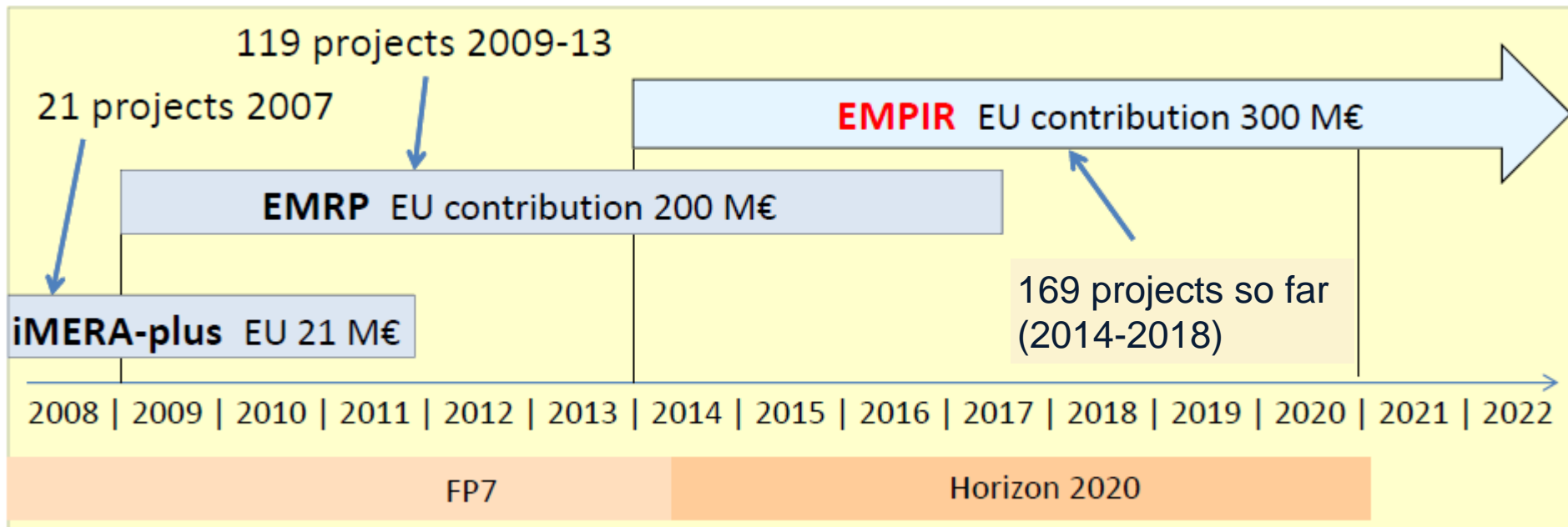
# Research Programmes



Implemented by EURAMET

## Current programme EMPIR:

- Annual calls between 2014 and 2020
- Thematic calls on
  - Fundamental science
  - Grand challenges
  - SI traceability
  - Innovation in industry
  - Standardisation
  - Capacity building
  - Support for EMNs



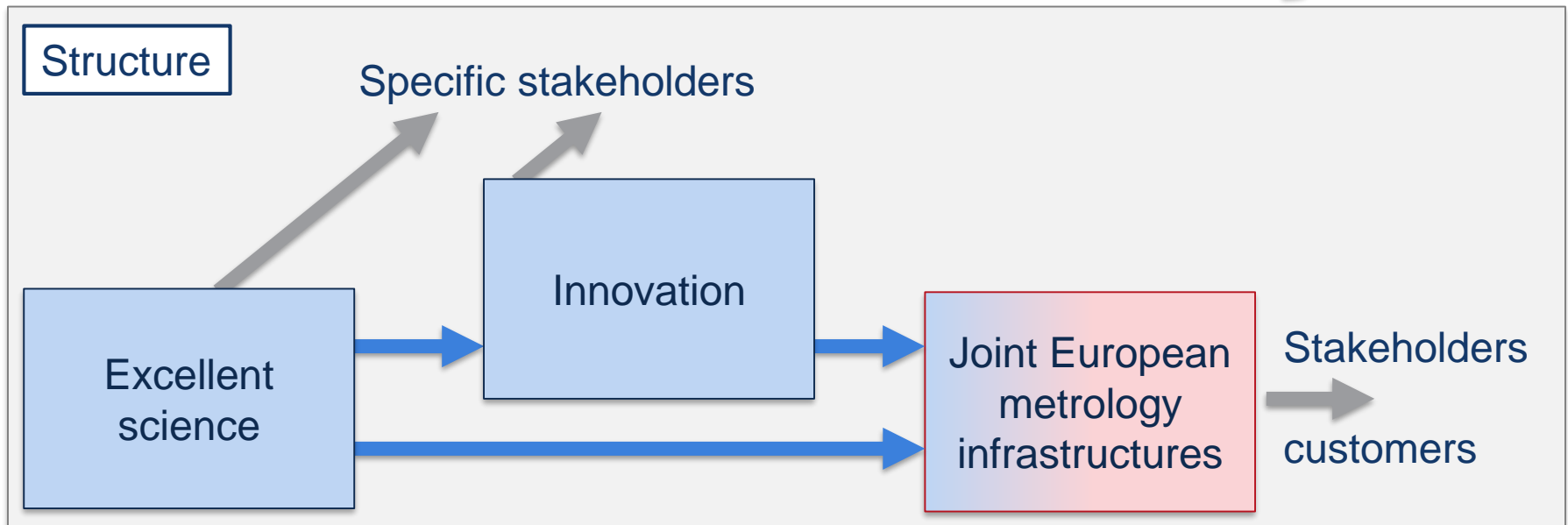
# Next programme – possible profile



Discussions with EC about EMPIR follow-up programme have started.

New programme, running as Art. 185 initiative, should:

- Build on achievements of EMRP /EMPIR
  - Contribute to sustainable coordinated metrology infrastructures
  - Strive for scientific excellence
  - Underpin EU regulation
- } → EMNs



## Overall objective

The overall objective is to create sustainable structures in areas of strategic importance for the future of European metrology.

### EMNs will ...

- cover an area of major strategic importance, with **European dimension**;
- consist of a core network of NMIs/DIs with a **clear commitment** to contribute to the network;
- establish close links to a wider **stakeholder community**;
- strive for **scientific excellence**;
- plan the activities based on a **strategic agenda**;
- establish a **knowledge, technology transfer and promotion plan**;
- plan for **sustainable structures**;
- develop and coordinate **common infrastructure** if needed

# First European Metrology Networks starting



- At the EURAMET GA in 2018 the first 6 “European Metrology Networks” (EMN) were approved.
- They are now in process of establishment. Some EMNs are receive financial support for their establishment, through EMPIR
- Further proposed EMNs are under development

No	Title	Champion
1	Mathmet	Markus Bär (PTB)
2	Quantum Technologies	Ivo Degiovanni (INRIM)
3	Laboratory Medicine	Rainer Stosch (PTB)
4	Smart Electricity Grids	Gert Rietveld (VSL)
5	Energy Gases	Annarita Baldan (VSL)
6	Climate and Ocean Observation	Emma Woolliams (NPL)

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# Cooperation with WELMEC

## “European Cooperation in Legal Metrology”



### Letter of Intent EURAMET – WELMEC

- Evaluate the options for enhanced future cooperation:  
Joint WELMEC EURAMET WG established
- EURAMET provides secretariat services for WELMEC since September 2017



### Strategy for a future collaboration between EURAMET and WELMEC

- Increased visibility
- Increased influence and better regulation
- Increased capacity

### WELMEC as legal entity

- WELMEC is preparing for being established as legal entity (e.V.)
- Inauguration in October 2019 envisaged
- Collocated secretariat with EURAMET



# Cooperation with COOMET



- 12-09-2017 1<sup>st</sup> Meeting COOMET – EURAMET delegations:  
- review of draft MoU  
- preparation of action plan
- 09-04-2018 Signing of MoU (during COOMET CM)
- 14-03-2019 2<sup>nd</sup> Meeting COOMET – EURAMET delegations



## Memorandum of Understanding

Between

The European Association of National Metrology Institutes, EURAMET e.V., (in the following referred to as "EURAMET"), represented by the EURAMET Chairperson,

and

The Euro-Asian Cooperation of National Metrology Institutions (in the following referred to as "COOMET"), represented by the COOMET President,

## Preamble

EURAMET is the European Association of National Metrology Institutes. It coordinates the cooperation of National Metrology Institutes (NMI) of Europe in fields like Research in metrology; Traceability of measurements to the SI units; Knowledge exchange & infrastructural support in Metrology; International recognition of national measurement standards and of the Calibration and Measurement Capabilities (CMC) of its members. Among these tasks, EURAMET is responsible for the elaboration and execution of European Metrology Research Programmes.

COOMET is an organisation for the Euro-Asian cooperation of National Metrology Institutions (from the countries of Central and Eastern Europe, Asia and nearby countries) and is open to the National Metrology Institutions of countries from other regions to join it. The principal fields of cooperation within COOMET include: Realisation of the CIPM MRA; Establishment and maintenance of the national primary measurement standards of SI units; Solution of problems on general metrology, including problems of the theory of measurement and uncertainties, system of units, terminology; Coordination of issues on legal metrology between member countries; Creation and implementation of Quality Management Systems in NMIs; Support in developing basic metrological infrastructure of COOMET member countries; Raising proficiency level and work with young metrologists.

## Whereas:

- COOMET and EURAMET are two Regional Metrology Organisations within the Joint Committee of Regional Metrology Organisations of the Metre Convention (JCRM).
- Both organisations fully recognise each other's objectives and realise the complementarity of their activities.

# Cooperation with COOMET



## Elements of cooperation (MoU & action plan):

- Annual meetings of EURAMET & COOMET delegations
- Annual action plan
- Mutual invitation to TC meetings
- Mutual information on planning of KCs / SCs
- Cooperation in Capacity Building (*e.g. related to CIPM MRA and BIPM CBKT*)
- Facilitating EMPIR participation of COOMET members
- EURAMET to participate in “International Competition of Best Young Metrologist”

## Achievements:

- 1) Good mutual participation in TC meetings
- 2) Active participation of COOMET members in EMPIR
- 3) Mutual participation in inter-comparisons is benefitting both organisations
- 4) COOMET members made good use of EURAMET's Capacity Building programme

# Cooperation with COOMET



## Plans for future cooperation:

- a) Continue in line with current cooperation, and intensify where appropriate
- b) New focus on cooperation in Capacity Building (CB)  
envisage joint CB activities

## Actions agreed at meeting of delegations in March 2019:

### **Action 2/1:**

*COOMET and EURAMET TCs shall make an enquiry on joint CB activities which would benefit both organisations.*

### **Action 2/2:**

*Analyse the TC proposals for joint CB activities. They shall be further discussed at the meeting of the EURAMET BoD Working Group for Capacity Building (BOD-WGCB) in October 2019; a few appropriate activities shall be identified and implemented..*

**Thank you for your attention !**