

# 16<sup>th</sup> EURAMET GA – Plenary Session Minutes



Final  
Online meeting, 31<sup>st</sup> May – 1<sup>st</sup> June 2022

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<b>Time</b>	Tuesday 31 <sup>st</sup> May 2022 <b>9h00 to 18h00 CEST</b> Wednesday 1 <sup>st</sup> June 2022 <b>9h00 to 13h00 CEST</b>
<b>Place</b>	Hybrid meeting (BEV, Vienna, Austria / Microsoft Teams)
<b>Participants</b>	EURAMET Delegates Representatives of EURAMET Associates and Liaison Organisations TC-Chairs, incoming TC-Chairs, EMN-Chairs and JRC Representative, Working Group Convenors Research Council Staff of EURAMET Secretariat (for support)

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## **Minutes:**

<b>Keeper:</b>	Julien Vuillemin-Toledo    EURAMET Member Service Manager
<b>Approved</b>	By participants of the plenary session, as of 1 <sup>st</sup> August 2022
<b>Distribution</b>	Delegates and Alternates of EURAMET Members Representatives from EURAMET Associates Representatives from Liaison Organisations TC-Chairs EMN-Chairs BOD-WG Convenors Research Council Invited Guests to the GA EURAMET Secretariat
<b>Note</b>	Documents to which reference is made in these minutes and PowerPoint presentations given during the meeting are available on the EURAMET website under "General Assembly" (direct link: <a href="https://www.euramet.org/publications-media-centre/event/16th-euramet-general-assembly/">https://www.euramet.org/publications-media-centre/event/16th-euramet-general-assembly/</a> )

These minutes will not give summaries of the presentations at the meeting.

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## **1<sup>st</sup> Day of the Plenary Session – 31<sup>st</sup> May 2022**

### **G16.01 Welcome address**

Chairperson Jörn Stenger welcomed the participants of the 16<sup>th</sup> EURAMET General Assembly (GA) Plenary Session, organised as a hybrid meeting to allow maximum participation under COVID-19 risks and restrictions. He thanked BoD Member and Director of BEV Metrological Services at BEV Robert Edelmaier and the BEV President Mr. Wernher Hoffmann for hosting the event. After a brief welcome address, they gave the floor to Mr. Georg Konetzky, the Director General for national market strategies, and representing the Minister of Economic Affairs Mr. Martin Kocher. He described the importance of metrology to support fair trade and improve the quality of life, and the necessity for ongoing research, development and innovation to ensure economic growth, competitiveness and resilience for the European industry.

### **G16.02 Opening and adoption of the agenda**

Jörn Stenger opened the Plenary Session of the 16<sup>th</sup> EURAMET GA. The agenda was adopted without changes.

### **G16.03 Report from the Working Session Delegates Only**

The working session for Delegates had been organised the day before (30<sup>th</sup> May 2022) the plenary session. Jörn presented the most important results, informing on:

- Developments of collaborations with liaison organisations and actions put in place to support countries suffering from the Russian invasion of Ukraine.
- Membership changes with the acceptance of LNEC-UHM as a new Portuguese Designated Institute (DI), the continued status of KMA (metrology institute of Kosovo) as an LO, and the invitation of KazStandard (metrology institute of Kazakhstan) to apply as a LO in EURAMET.
- The election of Miruna Dobre (SMD, Belgium) as Vice-Chairperson (GA) for a first term running from 06/2022 to 05/2025. He took the opportunity to thank Maria Luisa Rastello (INRIM, Italy) for her commitment and support to EURAMET during her two terms in that position.
- Gregor Dudle (METAS, Switzerland), JT Janssen (NPL, United Kingdom), Aigar Vaigu (Metrosert, Estonia), were re-elected for a further term, and Hans Arne Frøystein was elected for a 1<sup>st</sup> term in the BoD, running from 06/2022 to 05/2024. He thanked Jan Johansson for his term as a BoD member.
- Jacco de Pooter was re-elected as TC-IR Chair for the period 06/2022 to 05/2024:

Jörn thanked the outgoing TC Chairs:

TC-IM	Miruna Dobre (SMD, Belgium)
TC-MC	Sophie Vaslin (LNE, France)
TC-Q	Kai Stoll-Malke (PTB, Germany)
TC-T	Dolores del Campo (CEM, Spain)

- Martti Heinonen (VTT, Finland) was re-elected for a second term of office as Member of the Internal Audit Committee for the period from 06/2022 to 05/2025.
- The GA approved the “EURAMET Byelaws” and “EURAMET Rules of Procedure, which were amended following the signature of the agreement (FFPA) between EU and EURAMET for the Partnership programme implementation on 31<sup>st</sup> March 2022.
- The GA approved the establishment of two new EMNs on “Safe and Sustainable Food” and “Pollution Monitoring”.
- The GA prolonged the Term of the GA WG on EMNs for 3 years to further support the EMNs development.
- Regarding the internal organisation, the GA took note of a healthy financial situation, good quality management practices, and services provided to members as well as the progress made towards KPIs despite the pandemic, which had slowed down or prevented some related activities (e.g. physical CB training sessions).
- The EURAMET GA 2023 will take place in Tallinn, Estonia from Tuesday 30<sup>th</sup> May to Friday 2<sup>nd</sup> June 2023.

## **G16.04 EURAMET Activities**

### **G16.04.01 General Secretary’s overview**

General Secretary Mikko Merimaa gave an overview of EURAMET Activities over the last year (GA 2021 to GA 2022). These highlights summarised the work of the whole EURAMET Community, including BoD, Committees, Work Groups, EMNs, TCs and related SCs, and the Secretariats (in Braunschweig and Teddington – MSU).



All the areas illustrated above were then presented in detail over the plenary session. Mikko thanked all his colleagues for their excellent work.

#### **G16.04.02 Member Services and updates on organisation**

Member Service Manager Julien Vuillemin-Toledo presented further details of recent developments of memberships and Chairs (Vice-Chairperson (GA), TCs, BoD and IAC members). He highlighted in particular the contributions of his colleagues from the Secretariats (Braunschweig and MSU – Teddington), Technical Committees (TCs, also G16.08), European Metrology Networks (EMNs, also G16.09) and growing collaboration with Liaison Organisations (also G16.06. and G16.07).

#### **G16.04.03 Capacity Building**

Former Vice-Chairperson GA Maria Luisa Rastello, and CB Officer Tanasko Tasic gave a general update based on Capacity Building developments. They informed that CB are recovering from the COVID-19 restrictions with the 1<sup>st</sup> face-to-face training in June 2022, and the MSA and RMG schemes developing according to plan. They also reported that the first courses to be placed onto the BIPM-EURAMET e-learning platform are under development. Finally, they highlighted the overall good satisfaction (4.51 / 5.00 mark) of members recorded during a recent CB survey on services provided; replies provided valuable information for continuous improvement of the Knowledge Transfer and CB services offered, in support of the implementation on the EURAMET 2030 strategy.

Finally, as former TC-IM Chair Miruna Dobre gave an overview of TC-IM projects supporting Knowledge Transfer within our metrology community.

#### **G16.04.04 Communications Strategy and Overview 2021 - 2022**

BoD Member Gregor Dudle and Communications Officer Anne Trumpfheller gave an overview of the EURAMET Communication strategy, illustrated by a selection of implementation actions in 2021 and 2022.

### **G16.05. EURAMET STRATEGY 2030**

#### **G16.05.01 Strategy Status**

Jörn reviewed the implementation status of EURAMET 2030 Strategy along its 5 pillars:

##### **1. Engagement of stakeholders**

Foster stakeholder dialogue, develop long-term partnerships, increase the impact, complete the landscape of EMNs and operate them as the primary tool for stakeholder involvement

##### **2. Further develop co-operation in R&D**

Deliver world-class fundamental metrology research, develop our core competences, respond to challenges associated to Green Deal, digital transformation, regulation, redefined SI units

##### **3. Supporting quality infrastructure in Europe and internationally**

Develop a joint harmonised metrology infrastructure, contribute to better standardisation and technical rules, develop cooperation with bodies involved in regulation, esp. WELMEC

#### 4. Increase influence with European policy makers and nat. Gov's

Contribute to better regulation, work towards a new relationship with the EC, provide policy advice

#### 5. Deliver high value to members and associates

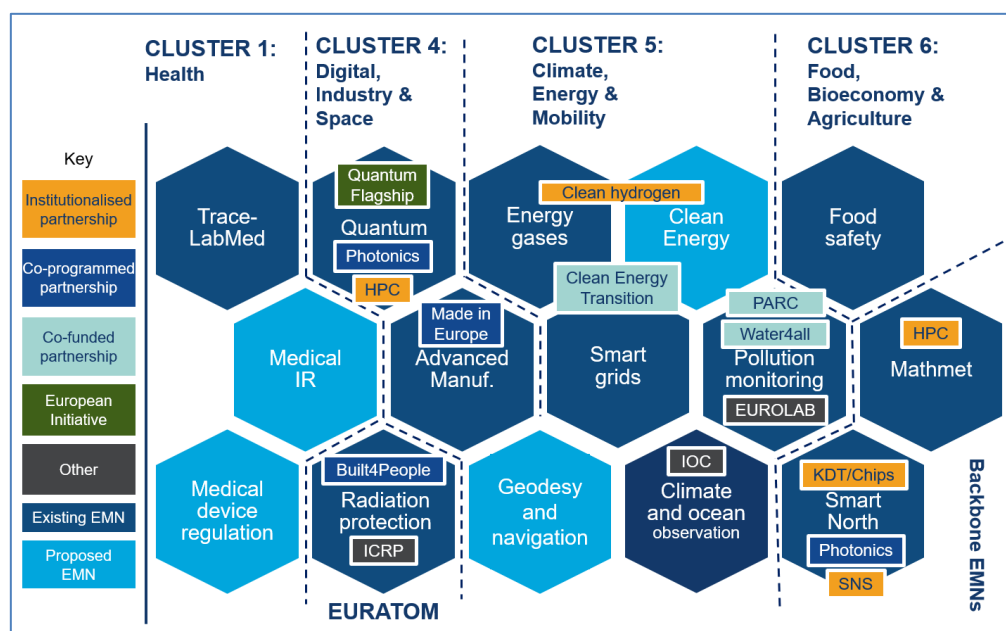
Move to a fit-for-purpose and truly coordinated metrology infrastructure in Europe, assist members in achieving metrological capability where needed, support participation of NMIs and DIs in MRA, facilitate the integration of member NMIs and DIs into EURAMET's activities

He reported on key developments:

- Ongoing activities in CB (G16.04.03), communication (G16.04.04), and in TCs (G16.08)
- Ramping-up of the European Metrology Partnership (EPM) Calls supporting contributions towards Green Deal, DT, Health, ...
- Further Development of EMNs and their operations, engaging with key metrology stakeholders (see also G16.05.02)
- Extending collaborations and activities towards a better regulation in Europe (see after G16.05.03)
- Progressing on Digital Transformation undertakings in metrology (see also G16.05.04 and G16.09.01).

#### G16.05.02. Stakeholder Engagement

Mikko recalled the EURAMET 2030 Strategy objective to better engage stakeholders. He highlighted the support of EMN developments and coordinated activities with TCs to better liaise with higher-level stakeholders such as European Partnerships and other initiatives like the Quantum Flagship Initiative under Horizon Europe (see illustration below), and Ministries.



### G16.05.03 Regulation

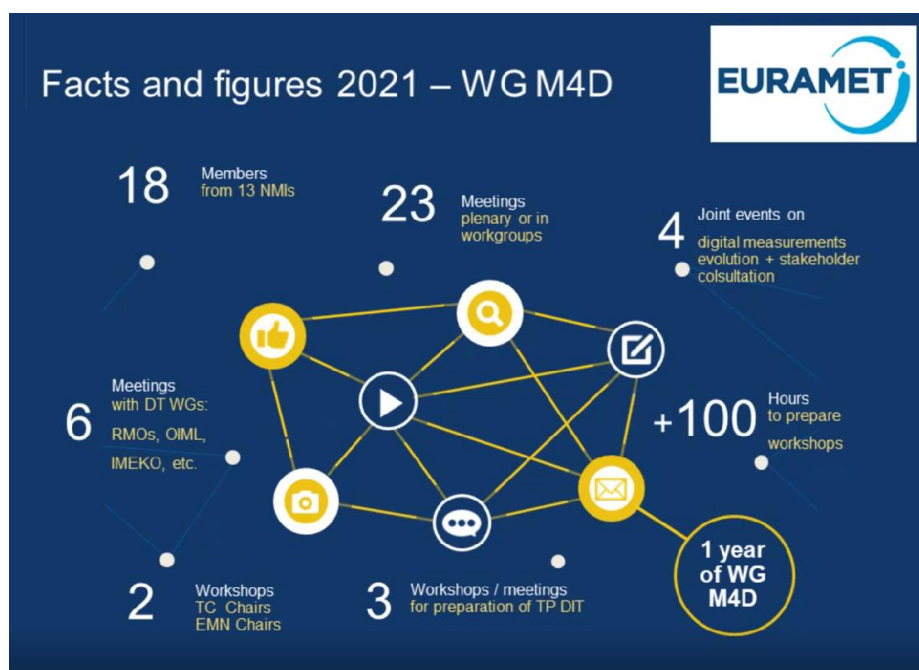
Jörn recalled the EURAMET 2030 Strategy objective to support regulation, mentioned the four EMNs that are strongly linked to regulation, and reported about recent activities carried out in that respect:

- Lol with the International Commission on Radiological Protection, ICRP
- Increased engagement with other European Partnerships
- JS participation in RLMO Round Table (OIML) to encourage inter-RMO cooperation and harmonization
- Seats in Steering Group of EPM representing regulation
- EPM proposals under TP Digital Transformation to underpin regulation

### G16.05.04 Digital Transformation

As former TC-IM Chair in charge of coordinating all Digital Transformation activities within EURAMET, Miruna Dobre introduced topic. She then left the floor to WG M4D (TC-IM Working Group Metrology for Digitalisation) Convenor, Louise Wright, who gave an overview of developments. The working group piloted an overall “digital transformation” strategy, with several implementation projects / activities (slide after):

- Project 1448, on Digital Calibration Certificates (DCCs)
- EMPIR Project 1449, on good practice in Research Data Management
- Project 1551, on challenges and opportunities in Sensor Network Metrology



These activities included orientation events or workshops to identify trends and needs related to Digital Transformation, as well as key topics to progress on in the short term (e. g. uncertainty evaluation for machine learning, trustworthy principles of sensor network metrology). She finally highlighted the active



collaboration of WG M4D with other regional and international organisation (e. g. ad-hoc task group of OIML, BIPM, SIM, APMP, European Open Science Cloud) to support worldwide synergies and progress on the topic.

The meeting continued with a series of presentations from the BIPM, RMOs and other Liaison Organisations. The content of the presentations can be found from the PP-slides and other documents which are available on the EURAMET website.

## **G16.06 MRA with BIPM and RMO reports**

### **G16.06.01 BIPM**

Presentation by Martin Milton, Director of the BIPM

### **G16.06.02 AFRIMETS**

Presentation by Wynand Louw, Head of AFRIMETS Secretariat

### **G16.06.03 APMP**

Presentation by Fang Xiang, APMP Chairperson and Jinyuan Li with the Secretariat of APMP

### **G16.06.04 GULFMET**

Presentation by Amina Hassan Al Bastaki, Chairperson of GULFMET

### **G16.06.05 SIM**

Presentation by Claire Saundry, SIM President

## **G16.07 Liaison Organisations**

### **G16.07.01 Introduction**

Jörn Stenger gave a brief introduction to welcome the LO presenters and informed the participants about the signature of renewed MoUs with EUROLAB and NCSLi at the end of the session.

### **G16.07.02 EUROLAB**

Presentation by Paolo Moscatti, EUROLAB President

### **G16.07.03 NCSLi**

Presentation by Craig Gulka, NCSLi executive Director

### **G16.07.04 OIML**

Presentation by Roman Schwartz, OIML President

### **G16.07.05 WELMEC**

Presentation by Pavel Klenovsky, WELMEC Chair

## **G16.08 TC Highlights**

### **G16.05.01 Overview of TC activities and main developments**

Miruna Dobre introduced the TC Highlights session, summarising TC activities and related developments in 2021. Then, all TC Chairs gave brief overviews with further details, which can be found in their annual reports (please consult the individual TC reports among the meeting documents for further details). This general presentation (also part of the meeting documents) showed a good level of activity despite the ongoing pandemic. This was made possible thanks to the effective use of IT tools within EURAMET and active collaboration with other RMOs and the BIPM.

## **2<sup>nd</sup> Day of the Plenary Session – 1<sup>st</sup> June 2022**

Jörn welcomed the participants and started by thanking the guests for having organised a very pleasant dinner the evening before.

## **G16.09 Important developments amongst EURAMET Members & Associates**

### **G16.09.01 Digital Calibration Certificates (DCC) at BEV: Metrology needs interoperability**

Petra Milota and Pedro Santos da Costa, representing the Physico-Technical Testing Service (PTP) of BEV, introduced this session with a presentation of activities carried out in the Austrian metrology institute to support the development and implementation of Digital Calibration Certificates. They highlighted the importance of IT governance to support digital transformation and an accelerated yet sustainable shift to eServices in all fields including metrology. In that sense, they reminded on the necessity for interoperability, emphasising the benefits and key elements at stake to support it.

### **G16.09.02. Other developments**

Marcin Mikiel, Alternate of GUM (Poland) informed the participants of the support provided to Ukrainian colleagues: welcoming researchers and their families, providing training, etc. He thanked the EURAMET Secretariat and community for their support for Ukraine and other countries impacted by the war in Ukraine.

## **G16.10 EMN Highlights**

### **G16.10.01 Overview of EMNs' Developments**

The convenor of the GA WG on EMNs, Hans Arne Frøystein, gave an overview of the development of the EMNs, highlighting in particular the establishment of the two new ones on "Safe and Sustainable Food" and "Pollution Monitoring", which had been approved the day before. Together with the first 9 established EMNs (Mathmet, Quantum Technologies, Laboratory Medicine, Smart Electrical grids, Energy Gases, Climate and Ocean Observation, SmartNorth, Radiation Protection and Advanced manufacturing) they formed a sound group of networks addressing the Horizon Europe challenges. Hans added that other EMNs were in preparation with the potential to complete the current landscape and better achieve EURAMET objectives. Finally, Annarita Baldan (EMN Chair Smart Electricity grids),



Ivo Degiovanni (EMN Chair Quantum Technologies) and Jan Johansson (EMN Chair SmartNorth) shared experienced in their respective EMN development and connection with Stakeholders.

The proposers of the most recently established EMNs presented the scope and objectives of their networks.

### EMN “Pollution Monitoring”

Sophy Lardy-Fontan (LNE, France)

### EMN “Safe and Sustainable Food”

Andrea Mario Rossi (INRIM, Italy)

**Note:** their presentations can be found among the meeting documents.

## **G16.11 EMPIR & the Partnership on Metrology – Status**

EMPIR Chair Maguelonne Chambon gave an overview on the development status of the EMPIR research programme and its successor, the European Partnership on Metrology.

She first highlighted the great success and impact of EMPIR that will still run until 2024 (highlighted in the slide below).

## Research metrology programmes



**Achievements:** 12 years of calls. EMRP fully completed (2009 – 2013). EMPIR calls finalized (2014-2020); last JRPs to be ended by 2024. One billion of euros invested (500 M€ by EC, 500 M€ by MS).  
Implementation by EURAMET

- 20 to 28 European countries involved
- around 380 joint research projects (JRPs) implemented
- topics
  - grand challenges : health, environment, energy
  - international system of units (SI) realization and dissemination
  - new technologies and fundamental
  - normative
  - capacity building RD projects
- co-funded by EURAMET Member States and EC
- Academia, universities, industries in JRPs





She then gave an update on the European Partnership on Metrology. After recalling the main objectives and ambitions of the new metrology research programme, she informed the participants that 23 countries had already joined the programme. The 1<sup>st</sup> Partnership Committee meeting would happen on 1<sup>st</sup> and 2<sup>nd</sup> June 2022.

She presented the call plan (see below) with further information on the programme day-to-day implementation on the “participant portal” <https://www.metpart.eu>.

## EPM – Call topics and schedule



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



- Normative (& regulation) each year
- Research Potential (CB) the first 5 years
- “*Integrated European Metrology*” = SI development with a focus on joint capabilities and infrastructures



12

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

Related PP-slides can be consulted among the meeting documents for further details.

### **G16.12 Dialogue with the BoD**

Jörn opened the dialogue with the BoD, inviting the participants to ask any questions, comments or suggestions they had.

Marc Pieksma (VSL, The Netherlands) addressed the lower number of countries participating in the Partnership compared to EMPIR, and shared his observation that some EURAMET members do not participate in EMNs. He asked the BoD about their view about it. Maguelonne confirmed that at the current time some countries had not yet confirmed their participation but expected they would in the near future. With regards to EMNs, Hans Arne encouraged country representatives to consider joining more EMN according to their national strategy or metrology needs and the resources available.

Pavel Klenovský (CMI, Czech Republic) asked about the distribution of responsibilities among BoD members. They individually described their priorities and tasks:

- Gregor Dudle, in charge of communications' aspects with the support of Anne (Communications Officer).
- Maguelonne Chambon as EMPIR Chair responsible for the EMPIR program and the Partnership Program (she was elected as Partnership Chair, in charge of the European Partnership Program for the 2022 to 2025 term), with the support of Dagmar as Program Manager.
- Robert Edelmaier, assuring supervision of QMS related aspects with the support of Enver Sadikoglu as EURAMET Quality Manager.
- JT Janssen, in charge of STAIR-EMPIR, with the support of Dagmar as Programme Manager, and supporting the EMN Development as member of the GA WG on EMNs.
- Isabel Godinho, working with IEC
- Hans Arne, supporting the development of the EMN as Convenor of GA WG on EMNs.
- Jan Johansson, supporting the EMN Development as member of the GA WG on EMNs, and Chair of EMN Smart North.
- Maria Luisa Rastello, as Vice-Chairperson GA acted as Guardian of the BoD WG on Capacity Building, as liaison within the EA Advisory Board, with the support of Tanasko, Julien and Mikko. Miruna, as new Vice-Chairperson GA will continue these activities and intends to extend the involvement of DIs in EURAMET.
- Jörn, as EURAMET Chairperson takes an overall role for EURAMET.

TC-T Chair Steffen Rudtsch asked about the medium to long-term development plan of EURAMET with regards to the current situation in Ukraine. Jörn commented that EURAMET is committed to give support to all countries suffering from the Russian invasion, in line with its rules and in support of the CIPM MRA.

Emma Woolliams, the Chair of the EMN on Climate and Ocean Observation, asked about the use of SRAs developed so far. Hans Arne commented that these Research Agendas described the metrology research challenges in various fields and paved the way to the EPM, describing scopes of research calls in which NMI, DIs, EMNs and their stakeholders should embark with the support of funding mechanisms of the Partnership or other national / European instruments.

Davor Zvizdić asked about the future of EURAMET beyond the Partnership. Jörn expects a stronger integration of EURAMET and initiatives in close cooperation with the EU, but it is too early to identify any possible funding route. In view of recent events like COVID and the war in Ukraine with dramatic consequences a prediction should be expressed with caution. JT Janssen expects governments to better understand metrology and the benefits it brings to society such as related to European regulations, which may contribute options for funding.

Finally, Pavel suggested to further promote and disseminate EURAMET calibration guides in all EURAMET countries and related regulatory, standardisation or accreditation institutions. Miruna confirmed that she intends to support this area of EURAMET activities.

### **G16.13 Chairs Handover**

Jörn thanked Jan Johansson for his commitment as BoD member and contributions to the EMN development, in particular as Chair of the EMN SmartNorth. He then thanked Isabelle Care, Markus Zeier and Jacco de Pooter for their renewed commitment as TC Chairs in respectively TC-Flow, TC-EM and TC-IR. He wished all the best to all new Chairs, Robert Gunn (TC-IM), Teemu Näykki (TC-MC), Davor Zvizdić (TC-Q), and Steffen Rudtsch (TC-T). Erkki Ikonen as past EMPIR-Chair was warmly thanked for his 6-year term and support to the EMPIR research programme. Finally, Jörn thanked Maria Luisa Rastello, who is retired, for her great commitment and contributions to EURAMET not only as Vice-Chairperson (GA) during the past 6 years, but also as TC PR Chair, supporter of EMNs (Quantum Technologies, Safe and Sustainable Food), the EURAMET-EA cooperation, and a scientist.

Jörn, then thanked the participants for their time and support to the GA, and in particular the BEV colleagues (Robert, Petra, Veronika, Dominique, Petro, Elisa) who hosted and co-organised the event. He expressed a great gratitude to Duncan for his contribution to EURAMET and EMPIR, and for his support to the Partnership proposal. Finally, he thanked the EURAMET Secretariat, and in particular Kirsten and Jutta.

Following that handover part, Jörn announced that the 17<sup>th</sup> EURAMET GA 2023 would take place in Tallinn, Estonia from Tuesday 30<sup>th</sup> May to Friday 2<sup>nd</sup> June 2023.

With no other business to be discussed, the General Assembly was closed.

## ANNEX: List of Participants

Name	Institute	Country	31 May	1 June
Achkar, Joseph	LNE-SYRTE	France	Online	Online
Albastaki Zainal, Amina	GULFMET		Online	Online
Amer, Mohamed	AFRIMETS		Online	Online
Aru, Mari	Metrosert	Estonia		
Auerbach, Dagmar	EURAMET			
Baldan, Annarita	VSL	Netherlands	Online	Online
Belic, Cedomir	DMDM	Serbia		
Bender, Jutta	EURAMET			
Bergstrand, Sten	RISE	Sweden		
Bosnjakovic, Alen	IMBiH	Bosnia and Herzegovina		
Bouyer, Philippe			Online	Online
Callegaro, Luca	INRIM	Italy	Online	Online
Campos-Acosta, Joaquin	IO-CSIC	Spain		
Care, Isabelle	LNE-CETIAT	France		
Cataliotti, Francesco S.				
Cetintas, Mustafa	UME	Turkey	Online	Online
Chambon, Maguelonne	LNE	France		
Damitz, Thomas	EURAMET		Online	Online
de Pooter, Jacco	VSL	Netherlands		
Degiovanni, Ivo Pietro	INRIM	Italy	Online	Online
del Campo, Dolores	CEM	Spain		
Dobre, Miruna	SMD	Belgium		
Dolfi, Daniel			Online	Online
Dudle, Gregor	METAS	Switzerland		
Džemic, Zijad	IMBiH	Bosnia and Herzegovina		
Edelmaier, Robert	BEV	Austria		
Frøystein, Hans Arne	JV	Norway		
Godinho, Isabel	IPQ	Portugal		
Grenon, Thomas	LNE	France		
Gudelis, Arunas	FTMC	Latvia	Online	Online
Gulka, Craig	NCSLi			
Gunn, Robert	NPL	United Kingdom		
Habibi, Stilian	DPM	Albania		
Hasi, Marsela	DPM	Albania		
Heinonen, Martti	MIKES - VTT	Finland		
Hetherington, Paul	NSAI NML	Ireland	Online	Online

Name	Institute	Country	31 May	1 June
Hoffmanova, Silvie	EURAMET		Online	Online
Holiastou, Myrto	EIM	Greece	Online	Online
Ikonen, Erkki	MIKES - VTT	Finland		
Imkamp, Dietrich				
Jahn, Kirsten	EURAMET			
Janssen, JT	NPL	United Kingdom		
Johansson, Jan	RISE	Sweden		
Kamensky, Maros	SMU	Slovakia	Online	Online
Kanakrieh, Omar	GULFMET		Online	Online
Klenovský, Pavel	CMI	Czech Republic		
Koeber, Robert	JRC	Belgium	Online	Online
Kopac, Samo	MIRS	Slovenia	Online	Online
Kowal, Aleksandra	INTiBS	Poland	Online	Online
Lapuh, Rado	MIRS	Slovenia		
Lardy-Fontan, Sophie	LNE	France		
Li, Jinyuan	APMP		Online	Online
Liesch, Claude	ILNAS	Luxembourg		
Loizides, Loizos	MCIT	Cyprus	Apologies	Apologies
Low, Wynand	AFRIMETS		Online	Online
Mangutova-Stoilkovska, Biana	BoM	North Macedonia		
Marina, Ludmila	LATMB	Latvia		
Merimaa, Mikko	EURAMET			
Mikiel, Marcin	GUM	Poland		
Milota, Petra	BEV	Austria		
Milton, Martin	BIPM		Online	Online
Moscatti, Paolo	EUROLAB aisbl			
Mustafa, Merita	BoM	North Macedonia		
Nagyné-Szilágyi, Zsolia	BFKH	Hungary	Online	Online
Naujalis, Evaldas	FTMC	Lithuania		
Novosel, Brankica	DZM	Croatia		
O'Connor, Daniel	NPL	United Kingdom	Online	Online
Ólafsson, Jóhann	HMS	Iceland	Apologies	Apologies
Pachinger, Dietmar	BEV/E+E	Austria	Online	Online
Petersen, Jan C.	DFM	Denmark	Online	Online
Pianih, Alexei	INM-MD	Moldova	Online	Online
Pieksma, Marc W.H.	VSL	Netherlands		
Piree, Hugo	SMD	Belgium	Online	Online
Plumeri, Stéphane	LNE	France		
Popa, George-Florian	INM-RO	Romania	Online	Online



Name	Institute	Country	31 May	1 June
Rama, Petrit	DPM	Albania		
Rambeka, Brian	EURAMET		Online	Online
Rastello, Maria Luisa	INRIM	Italy	Online	Online
Redgrave, Fiona	EURAMET			
Rempoutsika, Georgia	EIM	Greece		
Rethmeier, Jan	EURAMET			
Robles, José Á.	CEM	Spain	Online	Online
Rossi, Andrea	INRIM	Italy	Online	Online
Röttger, Annette	PTB	Germany	Online	Online
Rudtsch, Steffen	PTB	Germany		
Sadikoglu, Enver	UME	Turkey	Online	Online
Samuelson, Geir	JV	Norway		
Santo, Claudia	SIM		Online	Online
Saundry, Claire	SIM		Online	Online
Schwartz, Roman	OIML		Online	Online
Semaniak, Jacek	GUM	Poland	Online	Online
Spasova, Snezhana	BIM	Bulgaria		
Spires, Lonnie	NCSLi			
Stenger, Jörn	PTB	Germany		
Stoll-Malke, Kai	PTB	Germany		
Tasic, Tanasko	EURAMET			
Teemu, Näykki	MIKES-SYKE	Finland		
Testa, Nikola	MCCAA-SMI	Malta	Online	Online
Trumpfheller, Anne	EURAMET			
Vaigu, Aigar	Metroser	Estonia		
Vaslin-Reimann, Sophie	LNE	France		
Vuillemin-Toledo, Julien	EURAMET			
Vukoslavovic, Goran	MBM	Montenegro		
Wooliams, Emma	NPL	United Kingdom	Online	Online
Xiang, Fang	APMP		Online	Online
Yovcheva, Antoaneta	BIM	Bulgaria		
Zamfir, Nicolae-Victor			Online	Online
Zeier, Markus	METAS	Switzerland		
Zelenka, Zoltan	BEV	Austria		
Zobaj, Eugen	DHMZ-SOUL	Croatia	Online	Online
Zvizdić, Davor	FSB-LPM	Croatia		