

# **Report of the EURAMET TC-Quality 04/2023**

Davor Zvizdić  
TC-Quality Chair



Quality

# Contents



- Overview of the TC-Q
- Last TC-Q meeting and outcomes
- Current trends in TC-Q
- Issues

# Overview of TC-Q



- 37 contact persons (+ 4 Observers IAEA, Kosovo, Israel and Kazakhstan)
- Cyprus, Malta, Ukraine has not appointed TC-Q CPs or observers yet
- Regular annual meetings since 2004
- Permanent secretary: Silvie Hoffmanova
- Steering Committee: 16 persons

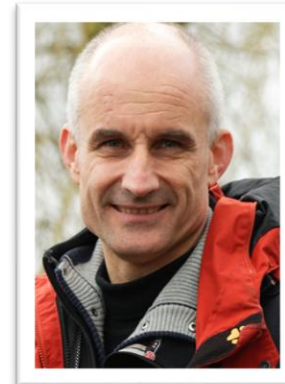
# TC-Q Steering Committee



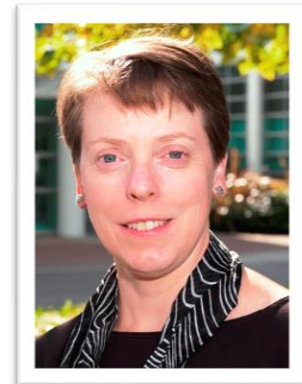
Davor Zvizdić  
Croatia



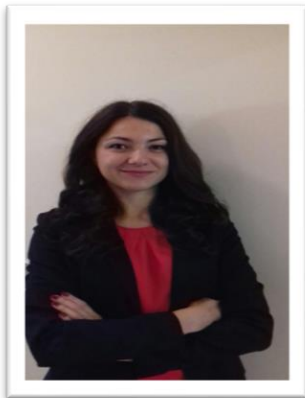
Silvie Hoffmanova  
EURAMET



Rado Lapuh  
Slovenia



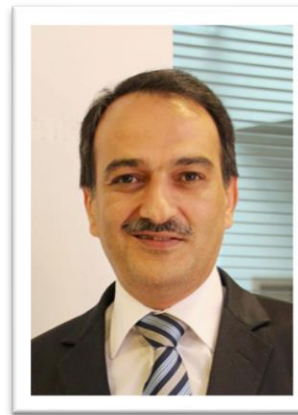
Fiona Redgrave  
United Kingdom



Tamara Djekić  
Serbia



Kai Stoll-Malke  
Germany

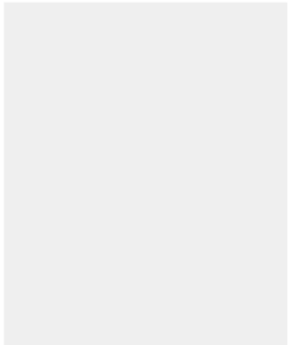


Enver Sadıkoğlu  
Turkey



Dionisios Kiriakidis  
Greece

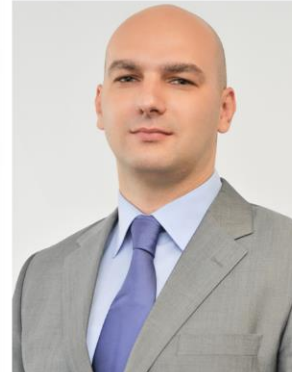
# TC-Q Steering Committee



Luigi Iacomini  
Italy



Véronique  
Maurer-Derrien  
Switzerland



Haris Memić  
Bosnia and  
Herzegovina



Cock Oosterman  
Netherlands



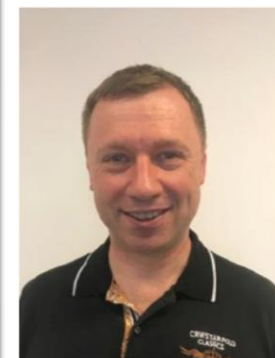
Fernanda Saraiva  
Portugal



David Fleming  
Ireland

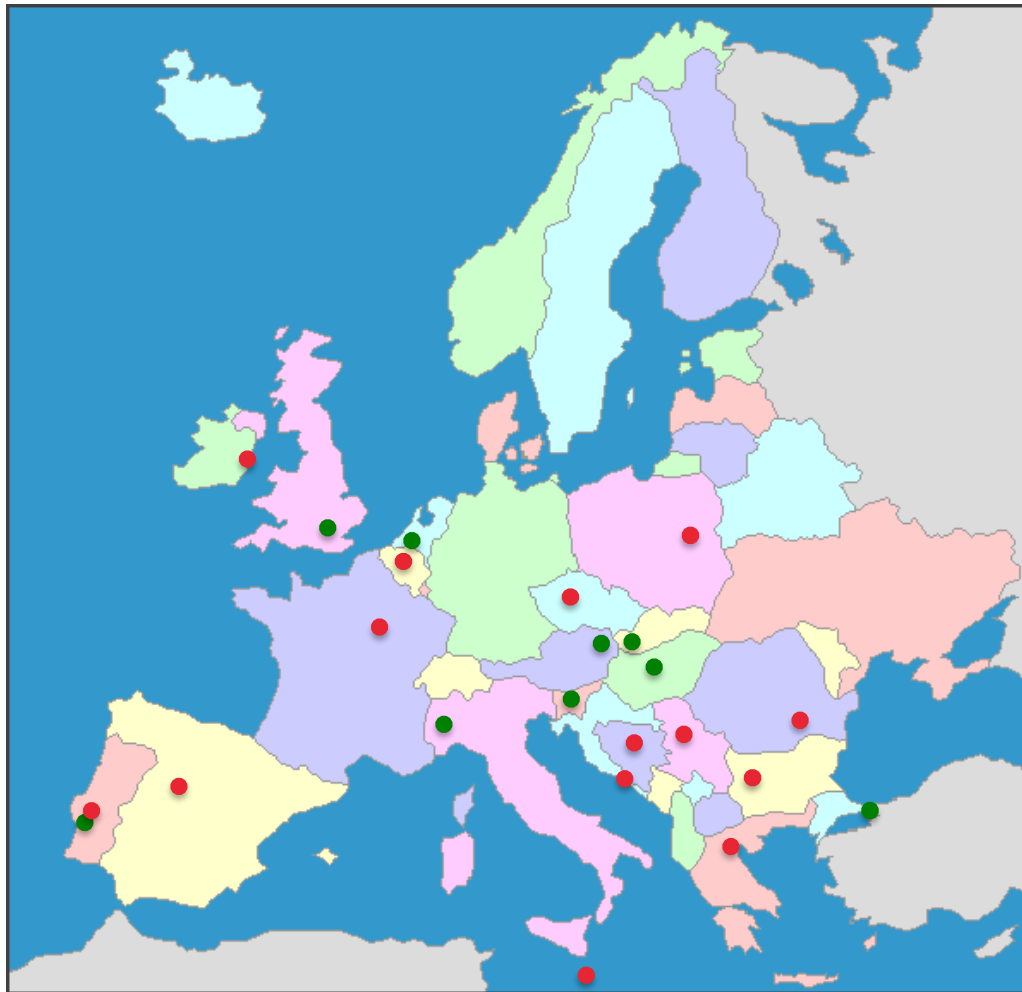


Karl Haussteiner  
Austria



Jaroslav Mucha  
Czechia

# TC-Q meetings



2003	Istanbul (TR)
2004	Lisbon (PT)
2005	Bucharest (RO)
2006	Valetta (MT)
2007	Madrid (ES)
2008	Sofia (BG)
2009	Thessaloniki (GR)
2010	Brussels (BE)
2011	Belgrade (RS)
2012	Warsaw (PL)
2013	Sarajevo (BA)
2014	Dubrovnik (HR)
2015	Prague (CZ)
2016	Sarajevo (BA)
2017	Dublin (IE)
2018	Paris (FR)
2019	Ljubljana (SI)
2020	virtual
2021	virtual
2022	Lisbon (PT) hybrid
2023	Bern (CH) hybrid

**21 meetings in total !**

# TC-Q structure and its operations



- Structure of TC-Q is based on a Chairperson, Secretary,
- Steering Committee (SC) and a Plenary Meeting
- SC membership is on a voluntary basis
- Members of SC are proposed by the TC-Q chair and approved by the TC-Q Plenary meeting
- TC-Q operates by consensus whenever possible
- During voting the majority is requested, with a quorum of TC-Q chair and one third of TC-Q contact persons

Terms of reference: available on the TC-Q website

# What is TC-Q ?



The Technical Committee for Quality (TC-Q) is the EURAMET operational instrument to share and develop knowledge on ISO/IEC 17025 and on its implementation in The National Metrology Institutes (NMIs).

# What is TC-Q ?



TC-Q has no formal auditing or judgement authority.

By asking how an NMI's Quality System is implemented, and by offering feedback on best practice, TC-Q has become the EURAMET way of doing Quality System review by peers.

TC-Q was established by the EUROMET General Assembly in May 2005, in continuation of the activities of the previous EUROMET Quality System Forum (QS-Forum).

# QUALITY MANAGEMENT SYSTEM (QMS) REVIEW PROCESS



It is the procedure for reviewing the quality management systems of:

- EURAMET NMIs and
- Designated Institutes (DIs)

within the framework of the review of calibration and measurement capabilities declared by EURAMET Member NMIs and DIs for **the purpose of recognition under the global CIPM Mutual Recognition Arrangement.**

# REQUIREMENTS FOR TECHNICAL ASSESSORS



- Section 3.2 of the [QMS Review Procedure](#):  
Technical assessors shall come from a laboratory which is at least on the level as the assessed laboratory or
- meet the criteria given in [“Guide for on-site visits by peers in the framework of CIPM MRA” \(G-TCQ-PRC-006\)](#) and
- meet the requirements of A3 of CIPMMRA-G12 document (see [Documents on the CIPM MRA - BIPM](#))

Regarding assessors/experts, the Assessment Reports (accreditation or peer review) as well as Annual Reports (ARs) should contain the sentence:

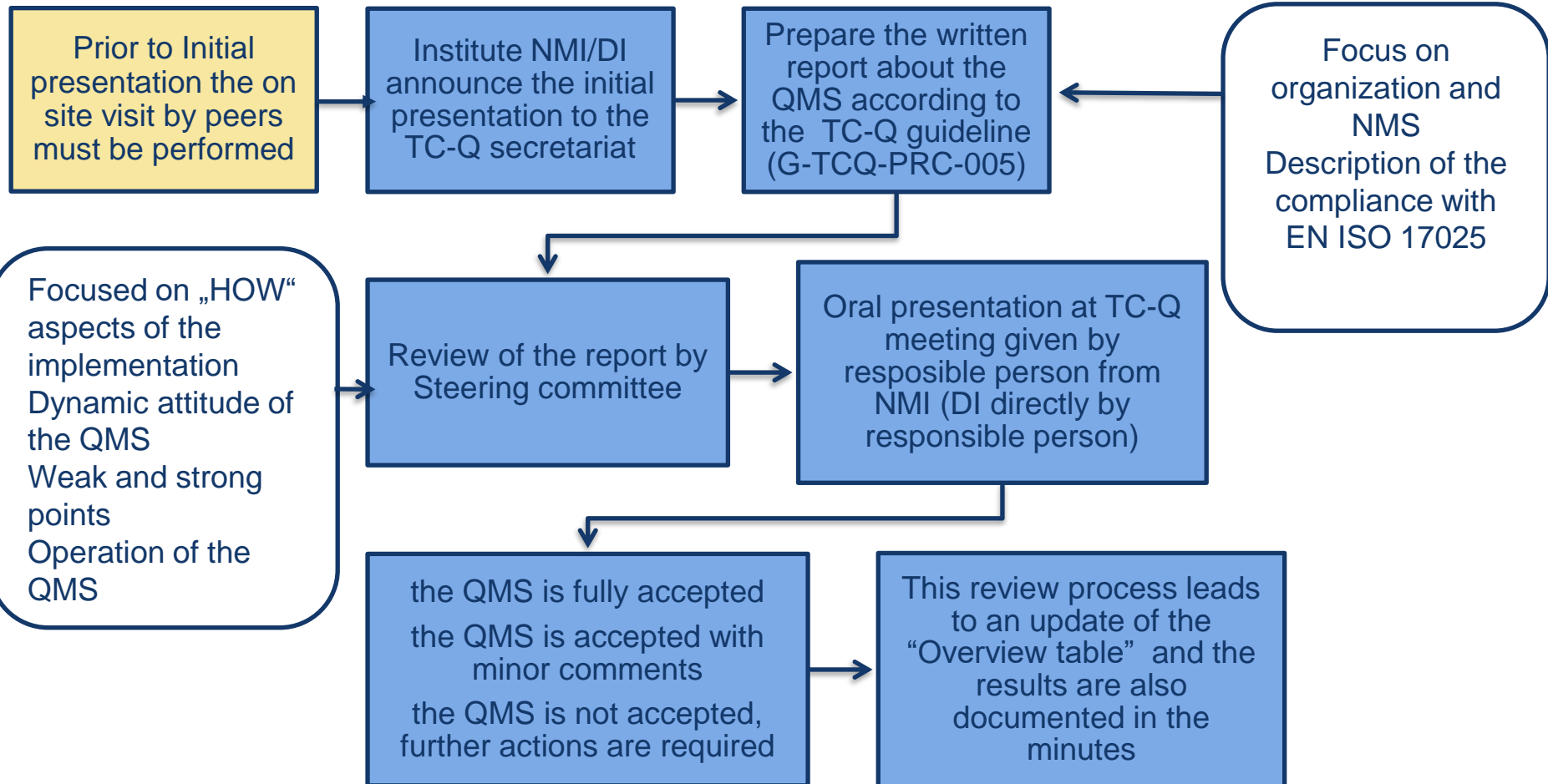
**„This report is in compliance with Appendix 3 of CIPM MRA-G-12”**

# THE MAIN REVIEW STEPS FOR EVERY NMI AND DI

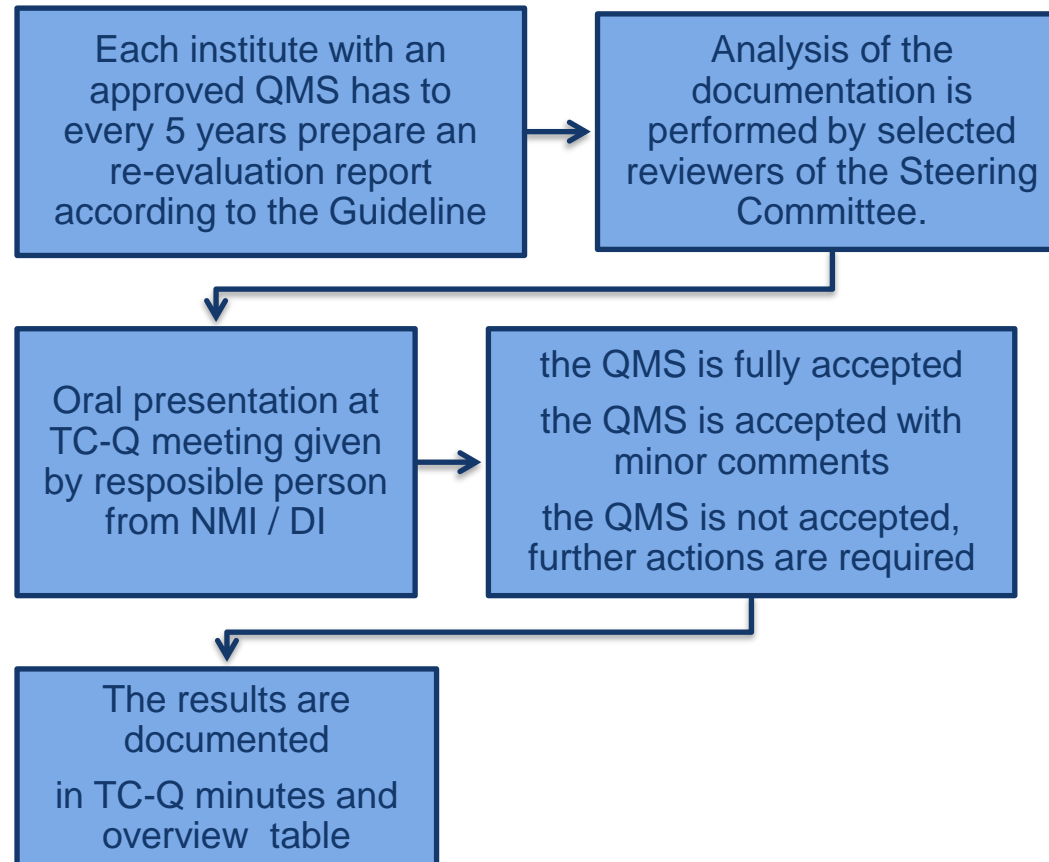


- Initial QMS Evaluation
- QMS Re-evaluation
- QMS Annual reporting

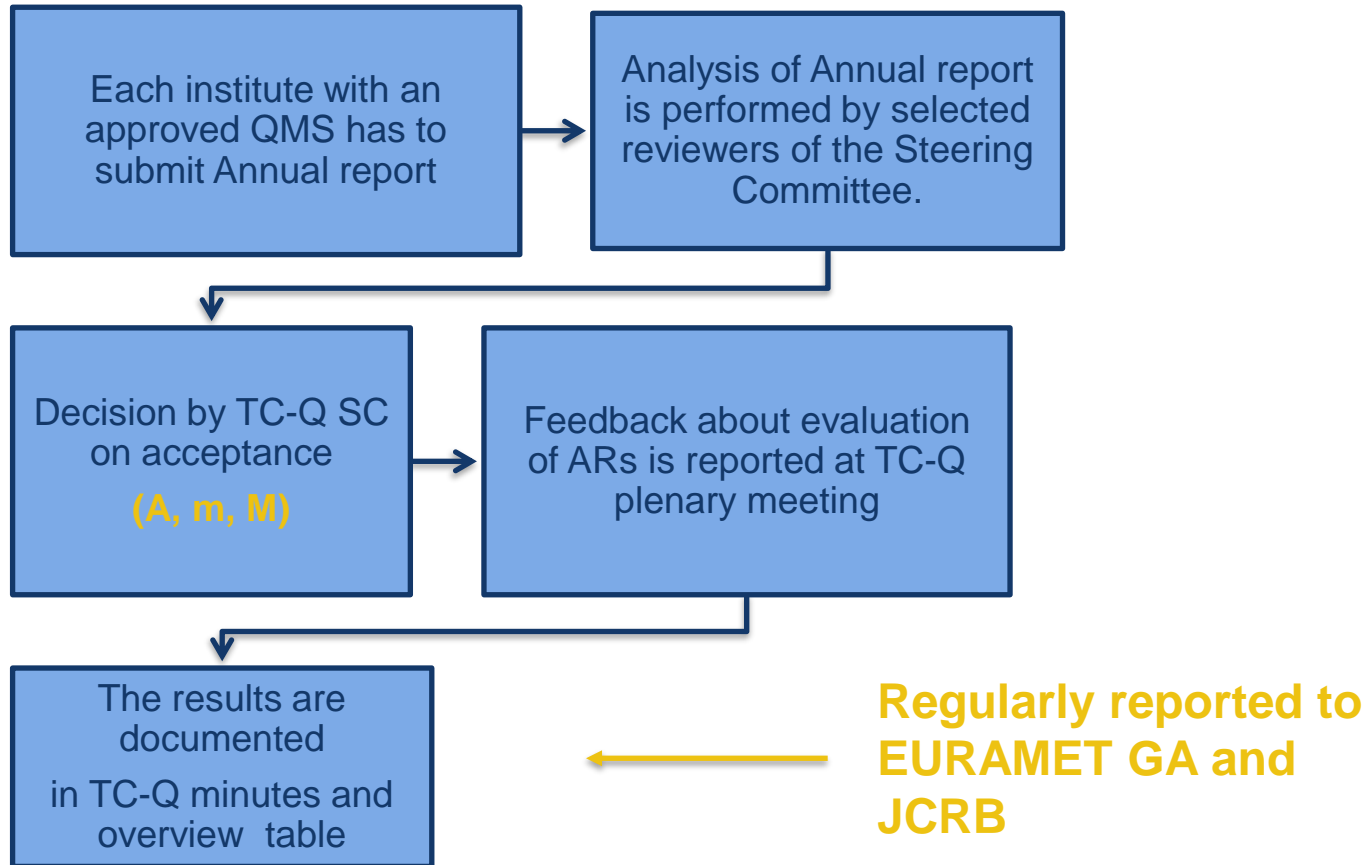
# Initial QMS Evaluation



# QMS Re-evaluation



# QMS Annual reporting



**A** - the QMS is fully accepted

**m** - the QMS is accepted with minor comments

**M** - the QMS is not accepted, further actions are required

# Peer Reviews



Mandatory on-site visits by peers are organised in EURAMET projects:

<https://www.euramet.org/technical-committees/tc-q/tc-q-projects/>

The screenshot shows a web browser window with the address bar displaying "https://www.euramet.org/technical-committees/tc-q/tc-q-projects/". The page title is "PROJECTS TC-Q". Below the title is a table with the following columns: SUBJECT, REG. NO., STARTING, TITLE, COORDINATING INSTITUTE, STATUS, COLLABORATION TYPE, and KCDB. The table contains 13 rows of project data.

SUBJECT	REG. NO.	STARTING	TITLE	COORDINATING INSTITUTE	STATUS	COLLABORATION TYPE	KCDB
Q	1510	2020-09-01	<a href="#">On-site visit by peers in IAEA</a>	PTB	completed	Consultation	
Q	1499	2020-01-19	<a href="#">On-site peer review LGUL (Luxembourg) in the area of gravity</a>	METAS	in progress	Consultation	
Q	1497	2019-12-20	<a href="#">On-site peer review ILNAS (Luxembourg) in Mass and Time &amp; Frequency</a>	LNE	completed	Consultation	
Q	1493	2019-12-01	<a href="#">On-site peer review of National Institute of Metrology of the Republic of Moldova (INM-MD)</a>	UME	ongoing	Consultation	
Q	1482	2019-08-27	<a href="#">On-site peer review of IMBiH (Bosnia and Herzegovina)</a>	UME	ongoing	Consultation	
Q	1465	2019-02-26	<a href="#">On-site peer review of General Directorate of Metrology (DPM, Albania)</a>	UME	in progress	Consultation	
Q	1458	2018-11-01	<a href="#">On-site peer review of STUK</a>	STUK	completed	Consultation	
Q, T	1438	2018-04-19	<a href="#">On-site peer review at NSAI NML, Ireland</a>	NSAI NML	completed	Consultation	
Q	1430	2018-07-01	<a href="#">Peer Review of LCOE's QMS</a>	LCOE	completed	Consultation	
Q	1427	2017-12-12	<a href="#">On-site peer review IMBiH pressure</a>	IMBiH	ongoing	Consultation	
Q	1420	2017-11-01	<a href="#">Peer Review of LNE-SYRTE's QMS</a>	LNE-SYRTE	completed	Consultation	
Q	1419	2017-04-10	<a href="#">Peer Review of NSAI NML's Acoustics Laboratory</a>	NSAI NML	ongoing	Consultation	
Q	1417	2017-10-01	<a href="#">Peer review of QMS of LNE-INM (CNAM)</a>	LNE-LCM/CNAM	completed	Consultation	
Q	1408	2016-10-24	<a href="#">Peer Review of INM (Romania)</a>	INM-RO	completed	Consultation	

# TC-Q is a platform for sharing of knowledge and experience



- 2013 Measurement of customer satisfaction
- 2014 IT tools for various QMS processes
- 2015 Guidelines on borderline CIPM MRA activities and use of ISO Guide 34
- 2016 Revision of the ISO/IEC 17025 standard
- 2017 Risk assessment related to management
- 2018 No Workshop (WS) possible
- 2019 Transition to ISO/IEC 17025 (online Workshop)
- 2020 Onsite visits by Peers (postponed due to Corona crisis)
- 2021 DCC requirements from the perspective of Quality Management
- 2022 No WS possible due to high number of presentations
- 2023 No WS possible due to high number of presentations

# Format of the TC-Q meetings



- Review of actions from the previous meeting
- TC Chair report
- News from EURAMET
- Feedback from JCRB meetings
- Initial presentations
- Re-evaluation presentations
- Feedback on review of Annual Reports
- Reports on TC-Q projects
- Workshop
- Laboratory visits (not applicable in online meetings)

**12<sup>th</sup> TC-Q Meeting Agenda**  
12-13 April 2017, Dublin, Ireland  
Document No: TCQ\_12\_06  
Draft: 2017-04-03

**Time**  
Wednesday 12 April 0900 to 17h00  
Thursday 13 April 0900 to 14h00  
NSAI, 1 Swift Square, Northwood, Santry, Dublin, Ireland

**Place**  
TC-Q Contact Persons  
Invited Guests

**Participants**  
TC-Q Contact Persons  
Invited Guests

PART I, Wednesday 12 <sup>th</sup> of April, 2017 (0900 – 12h30)				
Time	Ref	Item	Document	By
0900	1.	Welcome and opening of the meeting		TC-Q Chair, ICR General Director
0910	2.	Approval of agenda	TCQ_12_06	AS
0915	3.	From previous meeting		
	3.1.	Minutes of 11th TC-Q meeting	TCQ_11_04	AS
	3.2.	Table "status of review"	TCQ_04_04	Sara Hoffmann
	3.3.	Overview table	TCQ_05_01	Sara Hoffmann
	3.4.	Report on TC-Q Chair's actions between the meetings		Oliver Seidinger
0940	4.	News from EURAMET		Wolfgang Schmitz
1000		Tea / Coffee break		
1020	5.	QMS initial presentation		
1025	5.1.	Estonia, AS Mahonist	TCQ_12_04	
1100	6.	QMS periodical re-evaluations		
1110	6.1.	Netherlands, VSL	TCQ_12_11	
1130	6.2.	MEA	TCQ_12_12	
1230		Lunch		
PART II, Wednesday 12 <sup>th</sup> of April, 2017 (13h00 – 17h30)				
1300	6.3.	Sweden, GGM	TCQ_12_13	
1320	6.4.	FRYCOM, BOM	TCQ_12_14	
1340	6.5.	Germany, PTB	TCQ_12_15	
1420	6.6.	Germany, BAM	TCQ_12_16	
1440	6.7.	Germany, BVL	TCQ_12_17	
1500	6.8.	Germany, USA	TCQ_12_18	
1530		Tea / Coffee break		
1530	6.9.	United Kingdom, NPL	TCQ_12_19	
1600	6.10.	United Kingdom, LGC	TCQ_12_20	
1620	6.11.	United Kingdom, NCS	TCQ_12_21	
1640	6.12.	United Kingdom, NMPO	TCQ_12_22	
1700	6.13.	United Kingdom, NGL	TCQ_12_23	

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Phone: +49 531 502 580 Fax: +49 531 502 589 Email: secretariat@euramet.org  
www.euramet.org

Quality

# Last TC-Q meeting and outcomes



Hybrid EURAMET TC-Q Meeting in METAS,  
Switzerland

Date: 28th – 30th March 2023

**81 participants from 36 countries**

# Last TC-Q meeting and outcomes



## Re-evaluation presentations from 27 laboratories

- Austria – BEV, E+E, EAA,
- France – LNE, LNE-CETIAT, LNE-CNAM, LNE-IRSN, LNE-LADG, LNE-LNHB, LNE-LTFB, LNE-SYRTE, LNE-TRAPIL,
- Montenegro – MBM,
- Portugal – IPQ, IST/LPSR,
- Spain – CEM, CIEMAT, IO-CSIC, INTA, ISCIII, LCOE, ROA,
- Switzerland – METAS, IRA, PMOD/WRC, MBW,
- Bosnia and Herzegovina - IW.

# Last TC-Q meeting and outcomes



TC-Q SC reviewed **106** annual reports from **35** countries

- **full** confidence was given to **34** NMIs/DIs on the spot,
- **minor** additional information was requested from **71** NMIs/DIs
- **major** complementary information was requested from **1** institutes



# Last TC-Q meeting and outcomes



- TC-Q decided to change AR Template by adding sentence about conformity with CIPM-MRA G-12 App-3 (or G-TCQ-PRC-006 Guide for on site visits by peers, clause 2.3, which directs to compliance to G-12 App 3 anyway).
- TC-Q decided to form a Task Group (TG) for ILC Reporting (TG-ILCR) in the AR Template. The TG is chaired by Enver Sadikoglu from UME.



# Last TC-Q meeting and outcomes



- TC-Q plenary decided to organize the online extraordinary TC-Q meeting in 3 Q. or 4 Q. 2023 to enable GEOSTM to present the Re-evaluation presentation. TC-Q plenary will be informed at least 2 months in advance.



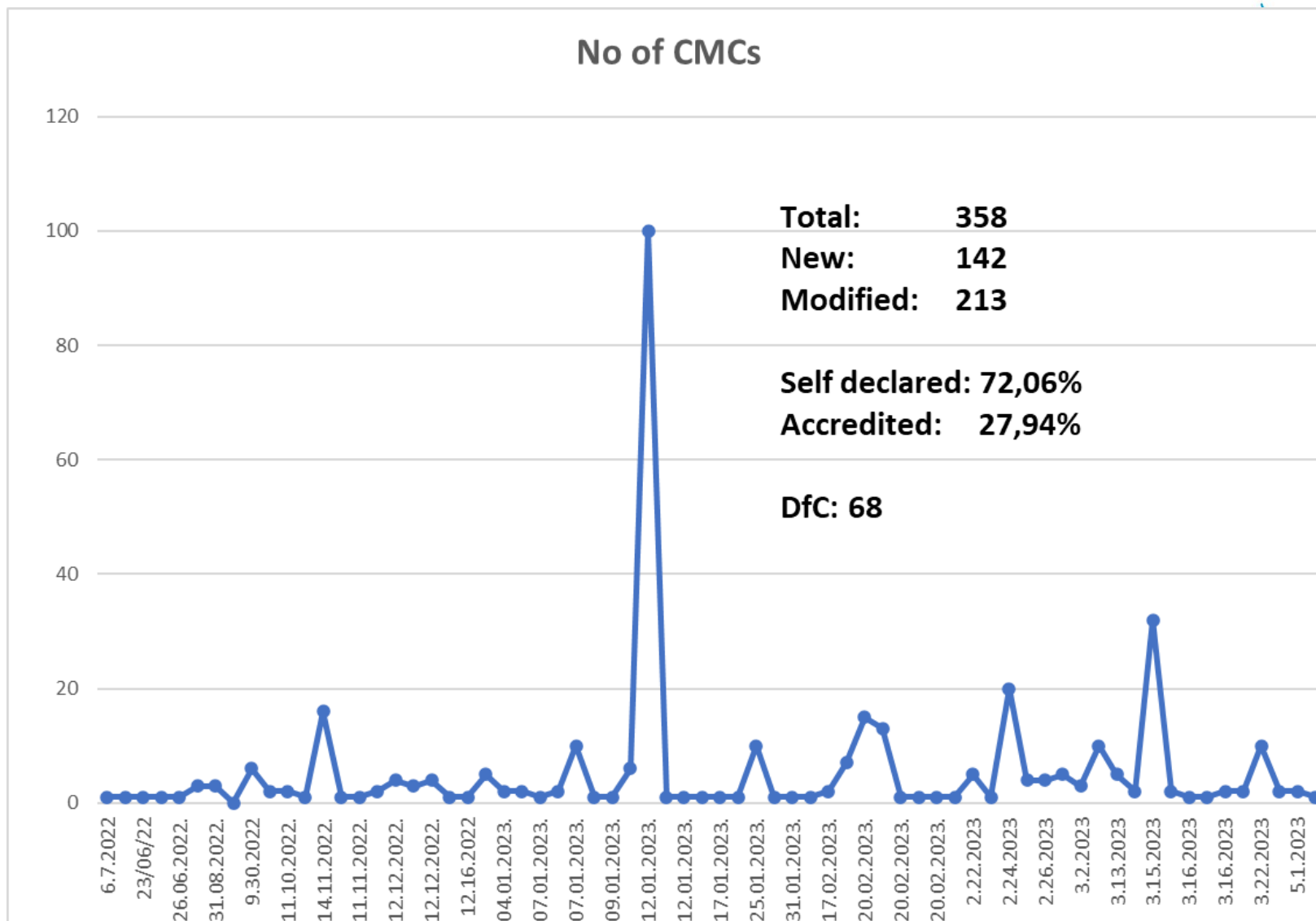
# Major activities in 2023 and 2024



- Mainstream work:
  - ✓ Evaluation of Annual Reports and feedback to NMIs and DIs,
  - ✓ Declarations of coverage of CMCs
  - ✓ Evaluations of Initial presentations,
  - ✓ Evaluations of Re-evaluation presentations,
  - ✓ Approval and Reports on TC-Q projects,
  - ✓ Reports to TC-Q, GA, JCRB, EA-LC, etc.

# Declarations for Coverage of CMCs

## 5.2022 to 5.2023



# Major activities in 2023 and 2024



- **Additional work:**
  - **Cooperation and support to Ukraine and Georgia** to facilitate the transition to EURAMET and to subsequently attain TC-Q QMS Confidence.
  
- **Preparation for IT support:**
  - Automation of peer-Review project approval,
  - On–line form of Part 1 of Declaration for Coverage of CMCs (ongoing). Possibility for cooperation with BIPM.
  - Construction of Part 2 of Declaration for Coverage of CMCs (ongoing). Possibility for cooperation with BIPM.

# New EURAMET Members and Liason organizations



- **On 7<sup>th</sup> November 2022**, the **EURAMET GA** accepted the applications of **Ukraine (ME)** and **Georgia (GEOSTM)** to become members of the association.
- As of **1<sup>st</sup> February 2023**, EURAMET started running **Ukraine (ME)** and **Georgia (GEOSTM)** **CIPM MRA related activities**.
- **LNEC-UHM** (Laboratório Nacional de Engenharia Civil – Unidade de Hidráulica Metrológica – Portugal ) was accepted as **Associate (A-DI)** in EURAMET.
- **KazStandard** (Kazakhstan Institute of Standardization and Metrology) was accepted as **Liaison Organisation** in EURAMET.

# New TC-Q Contact Persons



- Italy      Luigi Iacomini (INRIM)  
e-mail: [l.iacomini@inrim.it](mailto:l.iacomini@inrim.it)

Replaces Ezio Dragone  
(TC-Q CP and SC member)

Next meeting:

April 2024 in VSL, The Netherlands

# Outlook – expected Re-evaluation presentations



- Albania – DPM,
- Belgium – SMD,
- Finland – MIKES, Aalto, MIKES-FMI, FGI-GG, STUK,
- Greece – EIM, IRCL/GAEC-EIM, EXHM/GSCL-EIM,
- Hungary – BFKH,
- Ireland – NSAI NML,
- Italy – INRIM, ENEA-INMRI,
- Slovenia – MIRS, MIRS/SIQ/Metrology, MIRS/UL-FE/LMK, MIRS/UM-FS/LTM, MIRS/IJS/F-2,O-2, MIRS/IMT/LMT, MIRS/NIB/FITO, MIRS/ZRS Koper/LAB-IZO, MIRS/ZAG/SM 480
- Türkiye – UME, TENMAK-NÜKEN,
- Bosnia and Herzegovina – LABSAGAS
- Croatia – DHZM-SOUL.



**Thank you for your attention !**