



G13.07.04

Overview on horizontal activities of EURAMET TCs

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TC-Chairs Business: Important issues on agenda 2018/19

EURAMET Comparisons

- Strategic planning of comparisons
- Hybrid comparisons
- Silent comparisons
- Comparison Toolbox

• CMC related matters:

- Validity and vitality of published CMCs
- Broad-Scope CMCs ("representative CMCs")

• Support of (new) DIs

- to come to CMCs published in KCDB

Calibration and Technical Guides

- TC-project database
 - general review of rules and database
 - getting status of all projects updated

• Relation EMNs and TCs

- discussion at 17th TCC-workshop in Feb. 2019
- workshop TC Chairs & EMN Chairs on Th 23 May
- see also G13.10

Capacity Building

- see G13.04.05
- workshop for new TCCs in Aug.

EURAMET

Input to JCRB

- consultation of TCCs on all relevant CIPM MRA matters
- and other matters ...



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Interlaboratory Comparisons (only EURAMET)



тс:	Initiated (since GA 2018)	Ongoing	Completed
AUV	1	1	1
EM	3	6	4
F	5	14	2
IR	2	8	5
L	0	4	2
М	3	23	1
MC	4	10	1
PR	2	7	2
Т	3	19	2
TF	1	2	0

Strategic planning of comparisons



Recommendations from the Working Group on the Implementation and Operation of the CIPM MRA (23 Aug 2016):

Rec. 1a: The strategy documents of the CCs must clearly define the long-term timetable for KCs (including the repeat cycle). The RMO TCs should also plan regional KCs and SCs strategically, to reflect the needs of the RMO."



EURAMET KCs:

• Follow the planning of the corresponding CC KCs

EURAMET SCs:

- Gap Analysis: which services are not covered by KCs?
- Risk assessment: could evidence other than SC be used?
- Prioritisation: How many CMCs are covered by the planned SC?







Strategic planning of comparisons Conclusions from TCC discussions



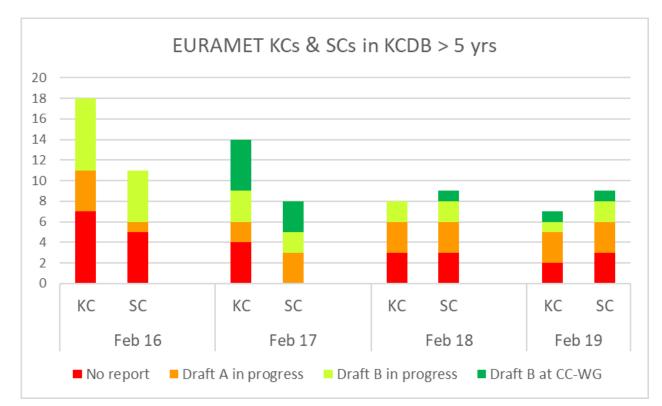
- The recommendation to reduce the number of participants in CC-KCs will naturally increase the workload for RMO TCs for comparisons
- Strategic planning to focus on really needed EURAMET KCs/SCs is important
- All TCs are in an intensive internal discussion process
- Written strategic plans are in preparation in some TCs
- 10-year plans are in preparation or existing in most TCs
- In some TCs, the extra burden for additional EURAMET KCs/SCs is not considered as very high
- TC-IR concluded that a 10-years plan is not needed CCRI-comparisons are covering most needs of EURAMET NMIs/DIs; workload for extra EURAMET KCs & SCs is small, they are decided ad-hoc

"Silent comparisons"

= KCs/SCs in KCDB for > 5 years without conclusion



- At JCRB meetings a list of KCs/SCs lasting for more than 5 years is provided
- RMOs are requested to give follow-up to those "silent comparisons"
- EURAMET Secretariat and TCCs are pushing pilots since many years, more or less successfully



Support from Delegates & NMI directors is needed, providing required staff resources to conclude KCs/SCs in reasonable time

CMC related matters



Validity and vitality of published CMCs

- CIPM MRA-G-02: "... in addition to the 5-year review of the supporting QMS, <u>CMCs</u> published in the KCDB <u>undergo continual monitoring</u> to ensure their validity ..."
- TC-Q Guideline for annual reporting of the QMS of NMIs/DIs was reviewed to emphasize on responsibility of NMIs/DIs to report issues with published CMCs
- Practice of TC for regular re-evaluation of published CMCs was discussed:
 - including consideration of unsatisfactory results in KCs/SCs
 - different approaches, but happening in all TCs
 - discussions to be continued to conclude on general concepts

Broad-Scope CMCs ("representative CMCs")

- Amendment in CIPM MRA-D-02 (Sept. 2018) is supporting representative CMCs
- TC-IR is proposing a far-reaching approach describing CMCs as "capability" (rather than services), which reduces number of CMCs dramatically: see G13.08.03
- TC-MC bottom-up approach addressing service categories





TC:	reviewed (intra-RMO)	new published	Withdrawn (deleted or greyed-out)
AUV	4	2	
EM		276	27
F	8	11	6
IR	83		68 + 110 ⁽¹⁾ + 98 ⁽²⁾
L	16	16	
М	3	3	
MC	154		29 + 82 ⁽¹⁾
PR	45	45	4
т	54	18	7
TF	0	0 / 27 (2)	0 / 9 ⁽³⁾

Notes:

- (1) 110 (IR) + 82 (MC) CMCs from JRC-Geel are currently greyed out
 - (2) ENEA, greyed-out on 20 May
 - (3) still in inter-RMO review, but expected to be finished soon

13th EURAMET GA-PS, 22/23 May 2019, Borås (SE)

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Guidelines on the Use of GPS

Calibration and Technical Guides

- are currently reviewed and brought to new design
- LaTeX template has been developed

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



Calibration & Technical Guides



Published since GA 2018: revised or new

- No. 12 Evaluation of Vector Network Analysers, Version 3.0, 03/2018 (EM)
- No. 19 Determination of Uncertainty in Gravimetric Volume Calibration, Version 3.0, 09/2018 (F)
- No. 22 Calibration of Autocollimators, Version 1.0, 07/2017 (L)
- No. 23 Calibration of Angular Encoders, Version 1.0, 02/2018 (L)
- No. 24 Calibration of Solid Anemometers, Version 1.0, 02/2019 (F)



Concluding remarks



- TCs are the backbone for the cooperation between NMIs/DIs
 - **CIPM MRA**
 - Knowledge transfer between NMIs/DIs
 - EMPIR: strategic input, PRTs, JRPs, ...
 - Discussions on EMNs among others
- TC-work is <u>not</u> the attractive and fancy "M€-business" ...
- ... but just hard work, often almost invisible
- It requires enthusiastic and engaged people to do this job
- The engaged work of our TC-Chairs cannot be valued enough

A big thank to all TC Chairs for the very productive and most pleasant cooperation