

TC-IM highlights

EURAMET GA Croatia

June 2014

From the last EURAMET General Assembly 2013

- ✚ TC-IM provided a full paper on possible activities for TC-IM (April 2013)
- ✚ Be presented at the last GA
- ✚ BoD agreed on the first priorities the following topics
- ✚ Proposition to implement new activities
 - ◆ ensuring best practices across EURAMET
 - ◆ raising / proving value of EURAMET
 - ◆ supporting BoD/GA

A - Ensuring best practice across EURAMET

1	Best practice in technology transfer for NMIs/DIs	1&2
2	Structure & distribution of competences in European metrology	1&2
3	Conformity assessment. To identify common subjects to be developed	2
4	Knowledge transfer	2&3

B - *Raising profile / proving value of EURAMET*

5	Possible studies on general EURAMET member overview	1&2
6	To develop some courses	2&3
7	To perform foresight studies	1
8	EURAMET Guides	1&2
9	Key stakeholders information	1&2
10	Survey of industry needs	1&2
11	Building of existing services (connection with CMCs ?)	2&3

to be
precised

C - Supporting the BoD

12	Pre-normative R&D	2
13	Exploitation of JRP impact in term of follow-up after its ending	2&3
14	CIPM MRA	1&2
15	Capacity building : regional concept of offering services	1&2

- ✚ **For each topics, to be defined**
 - **targets / objectives**
 - **outcomes**
 - **constitution of the different groups**
 - **timetable / action plan**
 - **feedback to BoD**

Proposal from TC-IM Contact Persons

⇒ CIPM MRA

Christian B. / Robert E. / Ionel U.M. / Rado L. / Maria Luisa R. / Robert W. / Omer A. / Ian S.

⇒ smart specialisation

Marc P. / Maria Luisa R. / Ian S. / Maguelonne C./

⇒ foresight studies

José R. / Maguelonne C./

⇒ conformity assessment

Miruna D. / ?

⇒ guides and e-learning

José R. / Erkan D. / FR / UK / FG on math & stat ?

➤ Towards a sustainable CIPM MRA

- CIPM MRA is already 15 years of implementation
- EURAMET presented a draft paper to the JCRB “Towards a sustainable CIPM MRA”. The paper proposes the three step process to move forward in the development of the CIPM MRA towards a more sustainable system

=> to define the needs (What kind of functionalities do we need from the KCDB? To which level are the services of a member institute reviewed and backed-up by comparisons?)

=> simplify the system (CMC declaration : simplification of services categories, limited set of key services, ...)

=> improve the efficiency (web based tool for the handling, management and review of the CMC entries. Explore new schemes for the organisation of key comparisons, ...)

- EURAMET considers as a priority to work on this subject
- A TC-IM group has been formed, leaded by Christian Boch, Director of METAS/CH
- Goal => to prepare a paper which will be presented at the EURAMET General Assembly in June 2014
(see agenda .TB08.08) and during the plenary session (see agenda G08.07) : By Beat Jeckelmann

“Making the CIPM MRA sustainable: MRA Phase II”.

The TC-IM group analysed the whole mechanisms, the time consuming for CMC review and inter-laboratory comparisons, and elaborated some proposal to be commented for a possible “evolution” of the CIPM MRA

- ✚ **Panorama of smart specialisation** (Structure & distribution of competences in European metrology) (Lead : Marc Pieksma / VSL)

⇒ *European metrology capacity landscape 2020 - 2030*

- **Objective**

- ▶ to get an European landscape on traceability
- ▶ to try to identify some “excellence” niche
- ▶ to give the possibility to more countries” to better participate in R&D programme
- ▶ to see where to go
 - which fields / sectors to develop
- ▶ other ?

TC-IM to set up a quick survey amongst the different countries concerning their future needs (to be distributed e.g. within TC-IM)

- What country/NMI do you represent?
 - What are the main (current and or future) national needs in your country regarding metrology?
 - What metrology (sub)fields does your national metrology institute want to strengthen through international, collaborative R&D?
 - What initiatives should be taken (European Metrology Centres, EURAMET Task Groups, etc.)?
- => questionnaire sent to TC-IM contact persons to get a First idea. A few answers. But it will be interesting in particular to see what could be proposed in “Capacity Building” actions in the frame of EMPIR, in particular for emerging countries.
- A second proposal was to try to get a European landscape on traceability. TC-IM group will work in 2014 on these two items.

- ***E-learning***

- development of a training course, which can be available for Euramet community, with examples
- This draft course has been possible mainly due to the effort and time of our colleagues from EIM, UME and CEM. In particular : Kostas Athanassiadis (GR), Erkan Danaci (TR) and **José Robles (ES)**

⇒ 6 modules

⇒ 15 thematic units

Thematic units can include one or several lessons. Some lessons include questions and at the end of each lesson a comprehension tests is presented



- Module 1: Metrology and its impact on Society
- Module 2: General concepts. International System of units
- **Module 3: Statistics and uncertainty evaluations**
- Module 4: Theory of measurement and instrumentation
- Module 5: Introduction to Quality
- Module 6: Metrology Laboratories

e-Learning

2013 - 2015

- Next step / to be done
 - ⇒ module 3 : Statistics and uncertainty evaluations
 - ⇒ volunteers ?



Conformity assessment

Lead : Miruna Dobre SMD/BE

- TCs provide technical guides which are sometimes neither followed nor promoted, whereas EURAMET's guides should be recognized and implemented by all countries.
- Another point could improvement of relationship with Conformity assessment bodies, and to see what are the possible common actions / best practices which can be proposed (legal metrology, accreditation, standardisation)
 - ⇒ to identify common subjects to be developed for regulation / conformity assessment bodies (security and safety of consumers)
- TC-IM group can worked on a first area, accreditation : a mapping on that point should be made and then an action with EA would then be a second step..

e.g.

- ✚ studies of metrology impact on economy, science, Society
- ✚ on metrology and education (how metrology is implemented in the curricula (school, university) and programmes to propose to Government some actions (e.g. high technology, how can metrology support it by education ? etc.)

- not yet start....

My warm thanks to all the TC-IM Contact Persons !!

✚ Next TC-IM Chair : Robert Edelmaier / BEV – Austria



My warm thanks also to all TC Chairs

- TCC meetings
- Hans Bjerke (NO)
- Salvador Barrera (DK)
- Andreas Bauch (DE)
- & all present TC-Chairs



• **Questions ?**