

# G08.07.03 DIs in EURAMET Position paper: Status & next steps

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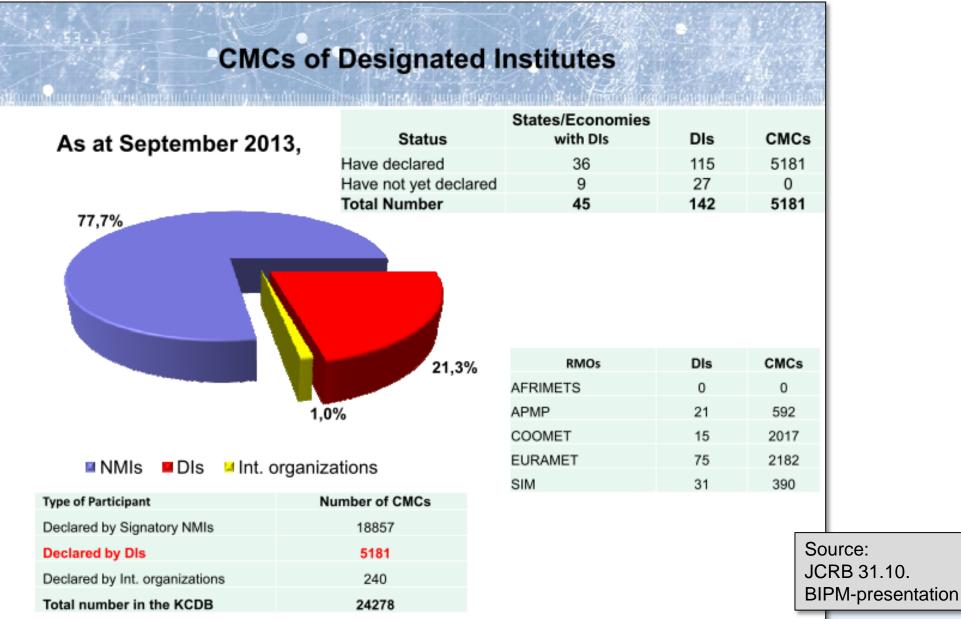
8th General Assembly – Plenary Session

Cavtat, Croatia, 3 June 2014

8<sup>th</sup> General Assembly - Plenary Session Cavtat, Croatia, 3 - 5 June 2014

## **Role of DIs within the CIPM MRA**





## NMIs and DIs in the CIPM MRA







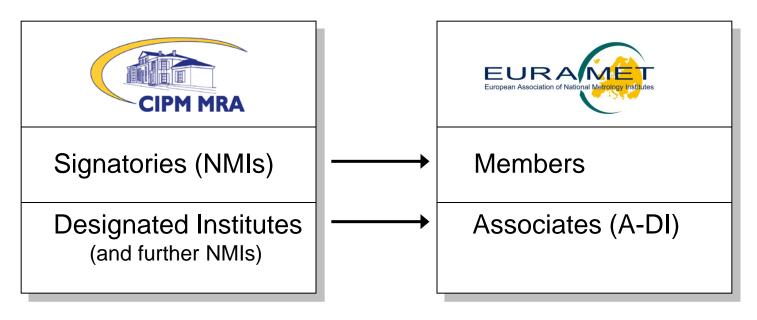
#### NMIS AND OTHER DESIGNATED INSTITUTES

#### 1. The current situation

1.1 Paragraphs 1.4 and 1.5 of the CIPM MRA introduced the concept of "designated institutes" as responsible for certain national standards and associated services that are not covered by the activities of the "traditional" NMI. As the importance of metrology grows in chemistry, medicine and food, so traditional concepts of traceability to the SI are less clear than in physics and engineering and it is rare to find all these competencies in a single, clearly identifiable NMI.

## NMIs and DIs within EURAMET





#### **CIPM-MRA**

introduces concept of "Designated Institutes" (DI) as responsible for national standards not covered by the "traditional" NMI

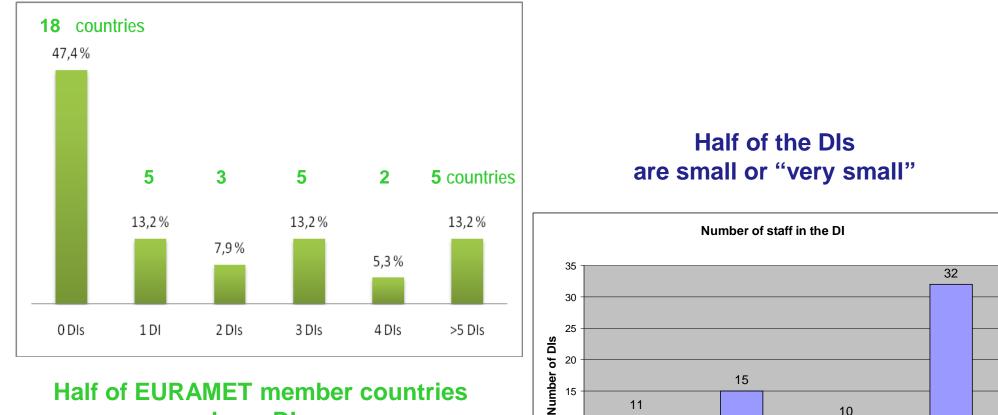
#### EURAMET

requests a formal <u>registration of a DI</u> as <u>Associate</u> before carrying out the measures related to the CIPM MRA

- participation in EURAMET KCs and SCs
- review of the QMS by the EURAMET TC-Q
- review of the CMCs by the concerned EURAMET TC

## **DIs in EURAMET**





11

3 or less

4 to 6

Staff

10

5

0

#### Half of EURAMET member countries have **DIs**

Status: March 2011 See EURAMET Guide 11

10 and more

10

7 to 9

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## **DIs per metrology area (EURAMET)**



Metrology Area	AUV	EM	F	IR	L	Μ	MC	PR	Т	TF	Total
Number of DIs	2	7	8	16	8	10	18	4	10	6	89
having CMCs	2	7	6	13	6	8	8	4	9	6	69
	100%	100%	75%	81%	75%	80%	44%	100%	90%	100%	
having TC/SC-CP	2	5	6	16	3	5	6	2	6	4	55
	100%	71%	75%	100%	38%	50%	33%	50%	60%	67%	

<u>Note:</u> DI's which are activie in several metrology areas are registered for each of these fields (therefore the total number is larger than 68)

- Highest number of DIs in Ionising Radiation (IR) and Chemistry (MC)
- Only 44% of the DIs in MC have CMCs:
  - many of them are new and just started with the CMC process
  - inter-regional CMC review in MC is complicate and takes much time



Feb 2013Discussion paper on "Role of DIs within the CIPM MRA"initiated by TC-MC at its annual meetingwith support from Robert Kaarls (CIPM Secretary and CCQM past president)

#### B20.10.03 Discussion Paper Role of DIs within the CIPM MRA

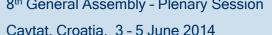
W. Schmid, M. Sega, J. Drnovsek, B. Güttler, R. Kaarls, R. Brown Version 29-08-2013 – For information

#### Objective of the paper:

The objective of the paper is to summarise the role of DIs within the CIPM MRA, their duties and responsibilities, as well as their interactions within national metrology systems and their NMIs. It emphasises the importance and value of DIs, acting at the same metrological level and under the same strict requirements as NMIs. These activities are much broader in scope and conceptually different and more demanding than just calibration activities. The paper aims to facilitate the operations of DIs, designation processes at a national level, managing processes at the RMO (EURAMET) level and interactions with BIPM (and CIPM). The paper is based on existing EURAMET and BIPM documents, EURAMET guestionnaires and is actually a compilation of current good practices and experiences of operation.









The paper gives guidance and recommendations to

#### 1. National authorities

on the decision process for the designation of a DI and its sustainable operation.

#### 2. DIs

on their role in the CIPM MRA and EURAMET's expectations to them.

#### 3. NMIs

for an effective cooperation with DIs within the national metrology system.

#### 4. EURAMET TC's and authorities

for the effective integration of DIs to the activities of EURAMET



- Feb 2013 Discussion paper on "Role of DIs within the CIPM MRA" was initiated by TC-MC at its annual meeting with support from Robert Kaarls
- Mar 2013 BoD/TCC-meeting: Paper was discussed and updated
- May 2013 EURAMET GA: Paper presented and discussed
- June/July Paper updated with comments from GA
- Aug/Sep reviewed and endorsed by BoD

- Sep 2013 Paper presented to 31<sup>st</sup> JCRB (Beijing)
- Mar 2014 Paper was discussed at 32<sup>nd</sup> JCRB (BIPM)

### **JCRB Feedback**



RMOs welcomed EURAMET DI paper and supported statements

Minor comments were received from APMP and SIM

RMOs suggested to further develop paper to a JCRB position paper

JCRB Action 32/8:

EURAMET to collaborate with the BIPM to produce a generalized version of the paper "Role of DIs within the CIPM MRA" for wider use by the other RMOs and for possible adoption by the JCRB.

## **Feedback from EURAMET DIs**



Dec 2013 Paper was sent to A-DIs, asking for their comments Delegates were informed on this step

Jan/Feb 2014 Numerous and detailed responses were received (33 out of 72 A-DIs)

Ca	Total	
A	Full acceptance (no / minor comments, or emphasising on specific statements)	25
В	Acceptance, in principle (specific comments / suggestions for changes)	6
С	Conditional acceptance (major specific comments)	2
D	Refusal	0
То	33	

### Feedback from EURAMET DIs: Some aspects which are emphasised upon 1) NMIs and DIs should be considered at same metrological level /

- NMIs and DIs should be considered at same metrological level / treated equally in terms of criteria of operations (QMS, research)
- 2) When DI is part of the large institute, general management should be aware of the specific role of the DI
- 3) DIs in private sector need special attention and considerations for sustainability reasons
- 4) Importance to assure/guarantee financial stability
- 5) Emphasising on responsibility and competence of designating authority
- 6) DI to maintain active relationships with both NMI and designating authority
- 7) Have clear rules if number of DIs is growing / prevent fragmentation / request for a critical mass of a DI
- 8) Role of NMI towards DI should not be overemphasised
- 9) Involvement of DIs into metrology system has benefits (promotion of metrology)

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#### Revised version was prepared considering comments from A-DIs, SIM, APMP

#### TB08.8.08.01 Discussion Paper Role of DIs within the CIPM MRA

W. Schmid, M. Sega, J. Drnovsek, B. Güttler, R. Kaarls, R. Brown Version 27-05-2014, Updated by Schmid, Sega, Drnovsek, including suggestions from EURAMET DIs and RMOs (JCRB)



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#### Next steps:

- after GA Conclude internal review
- 16 June Send paper to EURAMET Delegates (for review) and A-DIs (for information)
- 18 July Receive feedback from TC-Chairs and Delegates (NMI & DI comments)
- 31 July Prepare updated version (final draft)
- August Send final draft to Delegates for approval
- September Publish as EURAMET Guide

Send to JCRB and RMOs

Initiate work with BIPM to prepare JCRB position paper



# THANK YOU FOR YOUR ATTENTION

8<sup>th</sup> General Assembly - Plenary Session

Cavtat, Croatia, 3 - 5 June 2014

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