




Capacity Building in EURAMET

Training on drafting proposals
(PRT, JRP, SIP and RMG) for EMPIR

2016-02-04, CEM, Spain
Tanasko Tasić, CB & MS Officer



Outline

- Rationale, Evolution and Objectives
- Capacity building instruments
- Planning and realisation
- EURAMET BoD Working Group for Capacity Building
- Role of EURAMET TCs ?

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Rationale



Many European NMIs represent the cutting edge of global measurement expertise (i.e. implementation of EMRP and EMPIR)

At the same time there are some NMIs

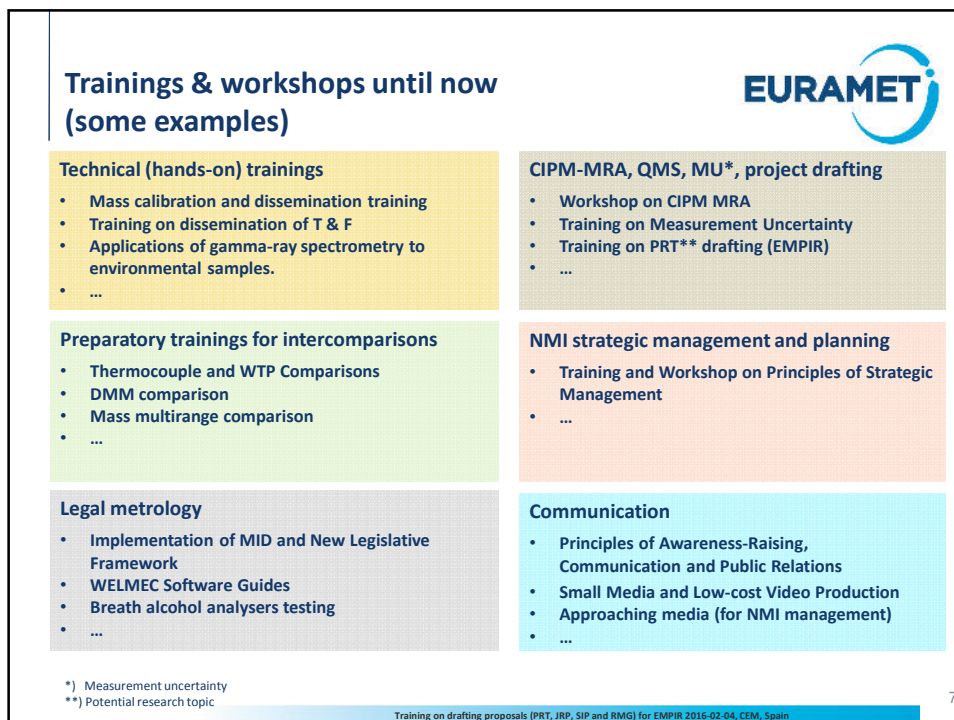
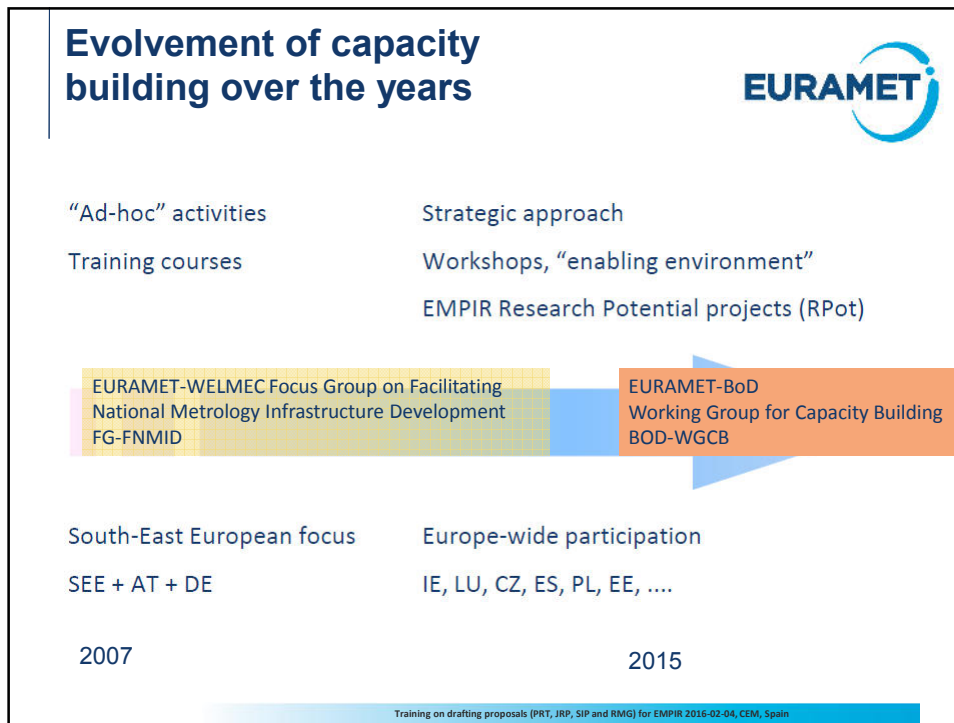
- in the early development stages,
- or less research and more service oriented,
- or small with very limited resources but have to catch-up with their stakeholders' needs.

(i.e. some do not yet have CMCs or a QMS acknowledged by EURAMET TCQ)

These NMIs need support in establishing and developing their infrastructures and in their integration into the existing EURAMET structures

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Capacity building instruments 2016 ...



EMPIR Human and Institutional Capacity Building (HI-CB)

Researcher Mobility Grants (EMRP Projects)*

- Researcher Mobility Grants (RMG)
- Early-Stage Researcher Mobility Grants (ESRMG)

Researcher Mobility Grants (EMPIR Projects)

EMPIR Research Potential Projects

CB is open to all EURAMET members and associates

*) Calls for Mobility Grants attached to EMRP Projects will end in 2016

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Human and Institutional Capacity Building (HI-CB)



Short (2-3 days) trainings focused in:

- specific technical topic (i.e. calibration, measurement uncertainty)
- Various aspects of metrology system (i.e. CIPM MRA, NMI management, communication, QMS)
- Supporting EMPIR calls (i.e. drafting proposals, project administration and finances)

EURAMET TC-IR Contact Persons Meeting 26-28 January 2016 Berlin

HI-CB: supported activities



- **Trainings & workshops**
- **Consultancy on strategic planning**
- **Identification of needs for intercomparisons**
(Intercomparisons shall be performed within EURAMET TCs!)
- **Legal metrology activities are not included**

Please note:

This will be a pilot year for HI-CB under EMPIR

Proposal for activities can come from whole EURAMET community

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Draft EURAMET HI-CB Action plan 2016							EURAMET	
	Interested NMIs	Foreseen host	Dur. (days)	Timeframe	Status	Trainer		
Calibration of resistance (daily activities on maintenance of national standards)	BA, AL, MK, ME	TUBITAK UME, INRIM	4	Sept. 2016		-		
Calibration Power Quality parameters	BA, AL, MK, ME	TUBITAK UME	2-3	Sept. 2016		-		
Calibration and calculating MU of electrical energy standards	BA, AL, MK, ME	TUBITAK UME	2	Sept. 2016		-		
Determination of hydraulic pressure	BA, MK, AL, ME, KO, RS	DMDM	2	TBD*		From other NMI		
Calibration of air temperature and humidity sensors (instruments)	ME, AL, IR, KO, LI	IMBiH	2	Oct. 2016**		INRIM		
Calibration of climatic chambers and furnaces	ME, AL, IR, KO, LI	IMBiH	2	Oct. 2016**		INRIM		
Training for system for on-site calibrations of temperature and humidity	ME, AL, IR, KO, LI	IMBiH	2	Oct. 2016**		INRIM		
Training on drafting proposals for EMPIR (PRT, JRP, RPT, SIP)	5	CEM	1	4 Feb. 2016	Reg. Open	EURAMET Secretariat		
Project administrative and financial issues	5		1	May/June 2016		EURAMET Secretariat		
Training/workshop on NMI strategic planning (follow-up)	8	DMDM	2	June 2016		External expert		
Round table and workshop for NMI communication officers	10	TBD	2			From host NMI		

*) to be defined **) to be confirmed

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EMPIR Human and Institutional Capacity Building (HI-CB)

The EURAMET logo consists of the word "EURAMET" in a bold, blue, sans-serif font. To the right of the text is a circular emblem made of two concentric blue arcs, with a small blue dot positioned at the top right of the outer arc.

Costs covered

- Logistic costs for activity organisation (i.e. renting the lecture rooms, catering, laboratory consumables)
- Trainer fees for external trainers (not staff members of an EURAMET member/associate)
- Support (if needed) for management if intercomparison exercises

Costs not covered

- Trainers' fees for trainings hosted by EURAMET members (associates) where trainers are staff of EURAMET members
- T&S for participants

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Researcher Mobility Grants The idea behind



Less experienced researcher from an emerging NMI joins an EMRP JRP-partner institution to undertake research additional to an EMRP project (the same for EMPIR)

Duration 1 - 18 months, reasonable allowance

RMG benefits

- Contribute to a world leading metrology project
- Build links to key metrology organisations and researchers
- Opportunity to publish papers with world leading scientists
- Develop key skills to apply to your own research
- Financial support to attend conferences

This professional networking significantly facilitates collaboration between involved institutions in future

JRP: Joint Research projects

Training on drafting proposals (PRT, JRP, SIP and RMG) for EMPIR 2016-02-04, CEM, Spain

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EMPR RMG 2015 call



12 EMRP projects (out of 55)
18 RMGs (adverts)
10 researchers' applications

Available 210 k€,
 expected spending 90-100 k€.

Applications coming from

- Croatia
- JRS (Italy)
- Estonia
- Serbia
- Portugal
- Poland
- Germany
- REG (UK)

Why not more applications?

- Workload & staff limitation in institutes which might send researchers
- Administrative limitations (i.e. absence from office max 1 month)
- Understanding of CB mechanism (both projects and sending institutes)
- Facilitator's lower availability

Use of RMGs should be better in 2016 !!

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Possible Hosting Projects for 2016 RMG Calls (4 July – 5 September)



EMRP call 2013

ENG	ENV
SolCell	MeTra
SmartGrid II	HIGHGAS
ThinErgy	MetEOC2
Biogas	MetroDecom
PhotoClass	MetNH3
DriveTrain	KEY-VOCs
VITCEA	MetroERM
MultiFlowMet	MeteoMet2
NNL	ATMOZ
LNG II	IMPRESS
FutureGrid	
MESaIL	
GridSens	

EMPIR call 2014

IND	RPT
3DMetChemIT	ACQ-PRO
PlanarCal	AWICaI
Strength-ABLE	ENVCRM
EMPRESS	Absorb
MIQC2	Eura-Thermal
pres2vac	
3D Stack	
ElPow	
MethPM	
MET5G	
HIT	
Innanopart	
PhotInd	
MNm Torque	

EMPIR call 2015

HLT	SIB
MetVBadBugs	FreeFORM
ReMIND	InK2
EARS II	OC18
NeuroMet	QuADC
PerfusImaging	OFTEN
MRTDosimetry	NanoMag
AntiMicroResist	FuturePhotometry
MetMRgRT	e-SI-Amp
MetrAMMI	3DNano
	MetroBeta
RPT	
UNAC-LOW	NRM
RFMicrowave	Sulf-Norm
UNAC-LOW	UHV
HUMEA	Hydrogen
TracePQM	ROCOF

Available 150 k€

For HI-CB activities and RMGs together available 150 k€

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Capacity building instruments 2016 ...



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Research potential (RPT) projects



should enable emerging NMIs them to develop their scientific and technical research capabilities in areas of national and regional strategic priority.

- stakeholders needs!
- impact this will have on the industrial competitiveness and societal needs of the region,
- and
- how the research capability will be sustained and further developed after the project ends.

The development of the research potential enabling participation in other TPs.

No funds for required infrastructure and capital equipment

PRT can focus on national needs,
JRP must combine the strategic priorities of several states, coordinated response ("smart specialisation") at the European or regional level.

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HI-CB Planning



<i>Discussion of ideas (categories) of CB activities for next year workplan</i>	Spring meeting of EMPIR Sub-Committee for Capacity Building
<i>Approval of proposed categories of CB activities</i>	Summer EMPIR Committee meeting
<i>EURAMET Secretariat collates proposals from FG-FNMID and TCs, consults TCs and experts and searches for trainers and venues for proposed activities</i>	
<i>Confirmation of proposed activities</i>	Fall EMPIR Committee meeting
<i>EURAMET Secretariat organises performance of confirmed activities</i>	

Planning



Researcher Mobility Grants (Projects EMRP call 2013 and EMPIR calls 2014 and 2015)

4 July 2016 – 5 September 2016

Research Potential Projects

Call for PRTs 18 January 2016 – 29 February 2016

Call for JRPs 16 June 2016 – 30 September 2016

Additional information on calls:

EMRP: <http://www.emrponline.eu/>

EMPIR: <http://msu.euramet.org/calls.html>

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EURAMET BoD Working Group for Capacity Building (BOD WG-CB)



Newly established (October 2015)

Assists all EURAMET members, especially the new and/or emerging EURAMET members, in the development of a national metrology infrastructure

- demand-oriented,
- recognises national, regional and European needs,
- avoids unnecessary duplication (EU's Smart specialisation)
- knowledge transfer across Europe.

Members: METAS (CH), IMBiH (BA), BEV (AT), NPL (UK), DMDM (RS), FTMC (LT), METROSERT (EE), BIM (BG), BoM (MK), NSAI NML (IE), MBM (ME), PTB (DE), HMI/FSB-LPM (HR)

All EURAMET members welcome to join!

Convenor: Ahmet Ömer Altan, UME TUBITAK (Turkey)

Guardian: Janko Drnovšek, Vice-Chairperson (GA)

First annual meeting: 6/7 October 2016 in Dublin, Ireland

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Role of EURAMET TCs



Capacity Building does not only concern the BOD-WGCB
Inputs from TCs are important and expected

26 BoD meeting conclusions, related to Capacity building.

- Capacity Building should be a standing item on the agendas of the TC-meetings
- Each TC should establish a working group for CB and deal with CB at each of its annual meetings

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Bringing (TC) inputs related to CB



CB Instrument	What	When
HI-CB	proposals for trainings	between summer and fall EMPIR Committee meeting
RMG	interest to send a researcher interest to host a researcher	in the time of RMG call preparation (Feb-May 2016)
Research potential	ideas for potential research topic (PRT) for RPT invitation to join potential consortia	in the time of PRT consideration and drafting (beginning of the year)
		But also over the whole year for all
		And now and here!

Contact EURAMET CB Officer tanasko.tasic@euramet.org

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