




Experience from past calls

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

2016-02-04, CEM, Spain
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Introduction

- My focus will be on experience from TP Research Potential
- But many things are similar

Plenty of information coming from Duncan Jarvis, Fiona Redgrawe (MSU) and Corinna Kroner (PTB) is included

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Outline



- Research potential PRT and JRP
- Researcher mobility grants

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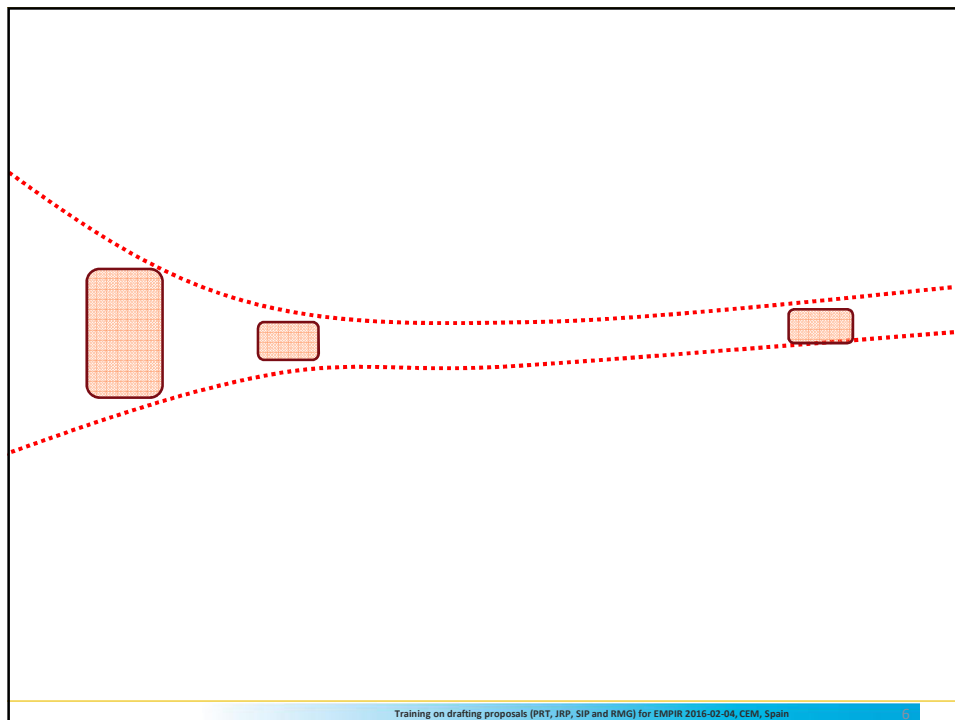
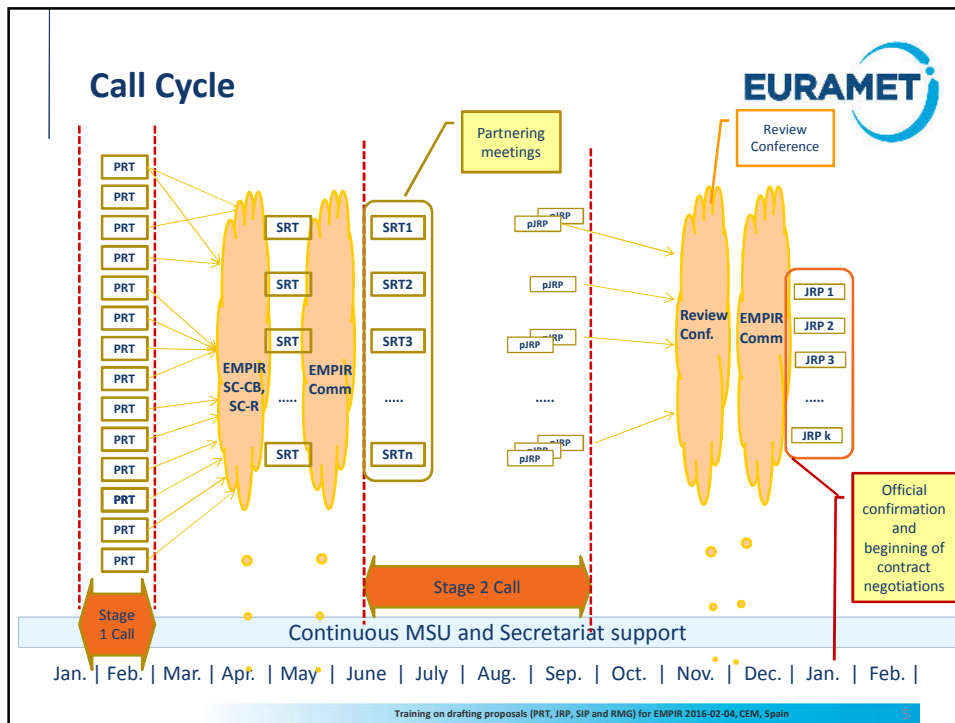
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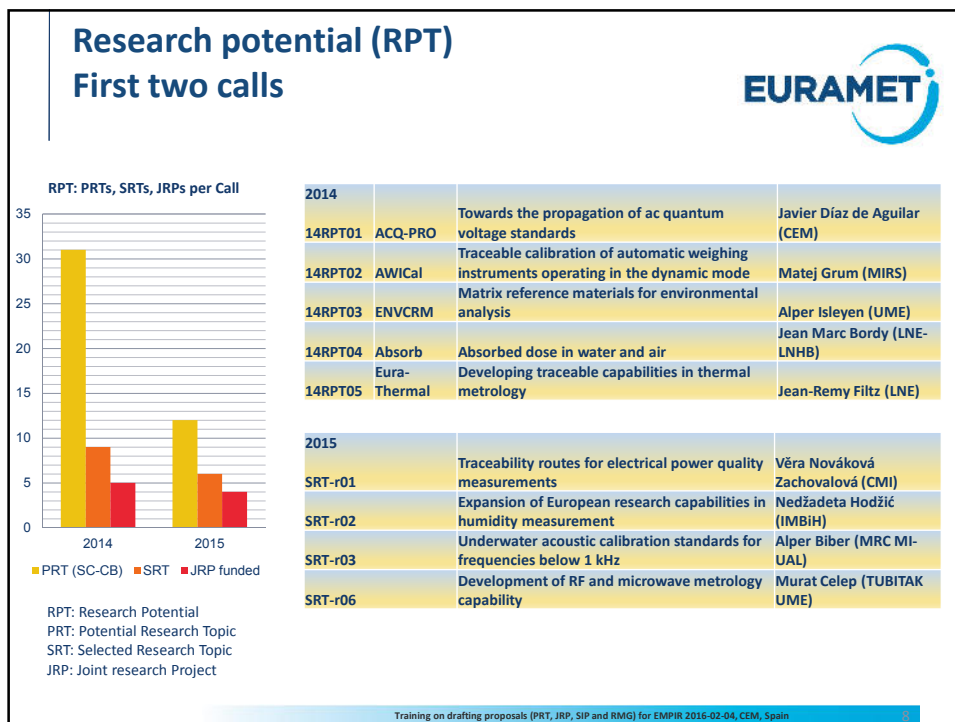
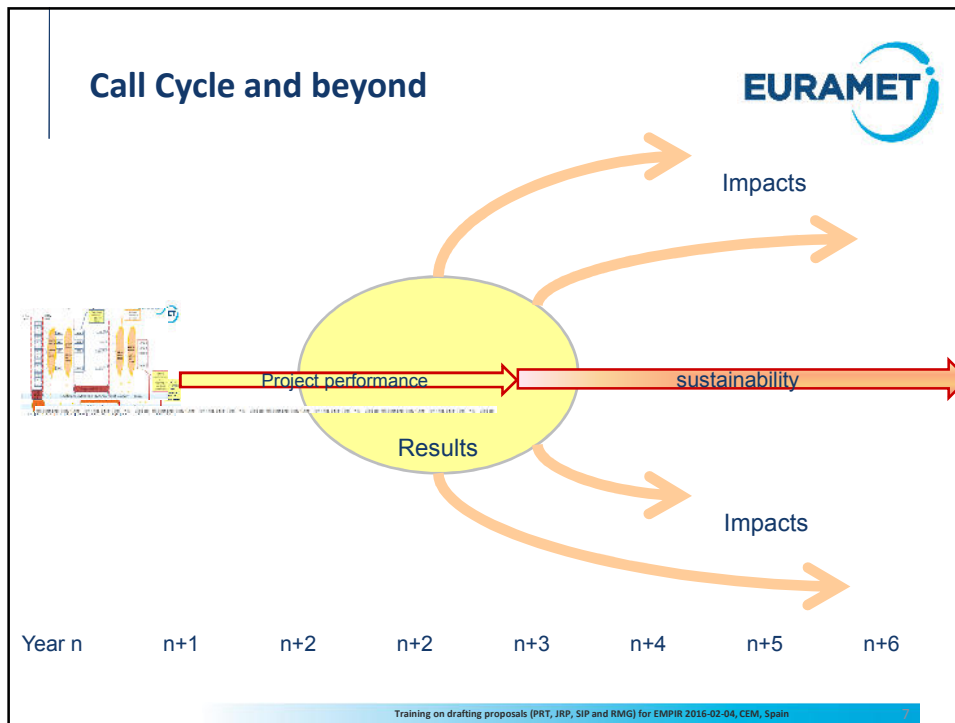


- **Research potential PRT and JRP**
- Researcher mobility grants

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PRT Ideas



- CB discussed within the BOD-WGCB (before in FG-FNMID)
- PRT ideas for all TP are also discussed within the TCs (TGs, joint bodies, i.e. standardisation bodies)
- But : Anyone can submit the PRT!

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Evaluation



- Selected research topics (at Stage 1 call) are prepared (from submitted PRTs) within EURAMET (EMPIR SC-Research, SC-CB, MSU)
- JRP proposals (at Stage 2 call) are evaluated by external referees

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Experience from past RPT calls



PRT Stage:

Institute focused (several measurement fields in one national institute, based on preliminary analysis) – [not supported in the JRP stage]

One individual field in one or more institutes; different levels of research

Emerging/niche field where enhancing the capacity of regional/European metrology is needed (new regulations or developments). Parallel developments in several NMIs, vision of network or distributed measurement centers.

Experience from past RPT calls



PRT Stage:

Proposers were not following closely the Guide 2, especially as regards explanation of the need for the proposed research (focusing rather in the solution than the problem to be solved).

But also as regards length of particular chapters

Not clearly identified partnerships/European dimension

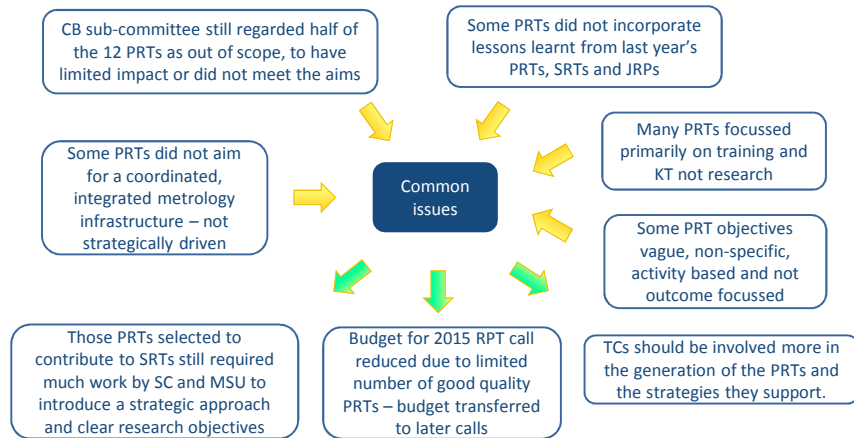
Some PRT ideas focusing in development of very small capacities

Proposers have rarely used offered support from the MSU and EURAMET Secretariat.

2015 RPT PRTs



Some improvements to the 2015 submitted PRTs compared with 2014. An improved call scope, and PRT related training events in Sarajevo and Tallinn, helped reduce the number of inappropriate PRTs submitted this year. There are still a number of issues however.....



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FNMID FG Meeting Vienna, 17-18 September 2015 (Fiona Redgrave, MSU)

PRT



Guide 2: Submitting a Potential Research Topic

You should read and follow this guide during writing and submitting your PRT

Guide 3: Prioritising Potential Research Topics

Reading the guide helps to better understand the process and criteria for prioritisation of PRTs

<http://msu.euramet.org/downloads/>

Basic questions PRT evaluators ask themselves when reading PRTs



- Does a PRT have a clearly specified scientific, metrological or technological challenge/problem/ opportunity been identified?
- Is this justified?
- Why does it need to be addressed by a collaborative European approach rather than a national one?
- What is the scale of this need?
- What is the likelihood of the European metrology research community effectively addressing the challenge /problem /opportunity taking account of the progress required beyond the current state of the art?
- How significant will the impact be for stakeholders if the proposed topic was successfully addressed?

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Deficiencies that minimise chance that a PRT is supported (Guide 3)



- poor fit with scope,
- lack of critical mass,
- limited metrology
- limited research,
- lack of European dimension,
- Primarily training/KT,
- limited progress beyond the state of the art,
- limited rationale,
- limited or unclear objectives,
- limited stakeholder support,
- limited SDO support,
- poor standardisation links,
- insufficient budget

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Recommendations



Stakeholder needs

Strategy

Objectives

Impact

Collaborative approach

Coordination

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JRP Stage (2014 comments)



Several RPT JRPs were well structured, included research, technical developments that went beyond the current state of the art outside the JRP, and any training was specifically related to the research

At least one coordinator looked at an existing JRP protocol to see what was required and incorporated this information in the RPT JRP

Any legal entity validation issues were resolved

The majority of coordinators addressed issues raised by the MSU and in a timely manner.

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JRP Stage (2014 comments)



A number of RPT JRPs were not strategically driven and would not lead to an improved, coherent and more integrated European metrology system

Some RPT JRPs were essentially training and KT projects and included little or no research – the MSU had to work hard to try to rectify this

Some RPT JRPs included poorly defined objectives and activities

One RPT JRP had well described need, objectives etc but the activities did not match and would not deliver the desired impact and outcomes

At least one JRP included a series of ‘mini projects’ that were not defined and the consortium were reluctant to explain what would be done

One coordinator was very slow to respond and did not return the first set of revisions until a couple of weeks before the project was due to start

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JRP stage, guidance for referees



Guide 6: Evaluating EMPIR Projects

Form 6c: JRP Evaluation

<http://msu.euramet.org/downloads/>

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What EURAMET will not support

Some examples

- Establishment of primary realization without proven needs (in the country or region)
- Pure national approach in a RPT project
- Duplication of capacities
 - in NMI and DI of a country
 - in a region with little demand in each country

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Conclusion

Stage 1 call is open till 29 February 2016

There is still enough time to make use of information you hear today for drafting your PRTs for this year calls

Please share this information with your colleagues

Consult colleagues that have already coordinated the project

Consult available documentation

There will be additional training for potential JRP coordinators during partnering meetings.

Attend the partnering meetings.

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2016 Partnering meetings



23.06.-24.06.2016	Partnering Meetings, RPT, Istanbul
27.06.-30.06.2016	Partnering Meetings, Paris
28.06.-01.07.2016	Partnering Meetings, Berlin
04.07.-05.07.2016	Partnering Meetings, Teddington

Distribution of meetings based on topics and not on TPs

EMPIR Participant Portal

Call information
Partnering service
...

<http://msu.euramet.org/>

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Preparations for partnering meeting



Information about available resources for the projects (ManMonths)

Information about own labour costs

Discuss your effort with the national coordinating body (NMI, in order that the sum of commitments in particular projects and calls do not exceed the annual national commitment)

Have in mind with whom you would like to collaborate in consortium

PIC and URF

be sure that your institution is registered and validated

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Outline



- PRT, JRP
- **RMG**

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Researcher Mobility Grants The idea behind



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

No „rocket science“

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 participating institutions in future

JRP: Joint Research projects

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EMPR RMG 2015 call



Initial interest for 27 RMGs
(2 application from this group)

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

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

There were no applications for advertised RMGs on 8 projects in field of energy (3), dimensional metrology (3), thermometry (1) and reflectometry (1)

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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The process



Facilitator:

Tries to establish pairs “project-researcher”

- Finds projects willing to host researcher
- Finds researcher willing to go for a grant

Agrees on advert with the project coordinator (help from MSU)

Call dates: 4 July 2016 - 5 September 2016

Evaluation by the Referees: September 2016

Evaluation by the Consortia: September 2016 - October 2016

Results: end of October 2016

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More details on RMG

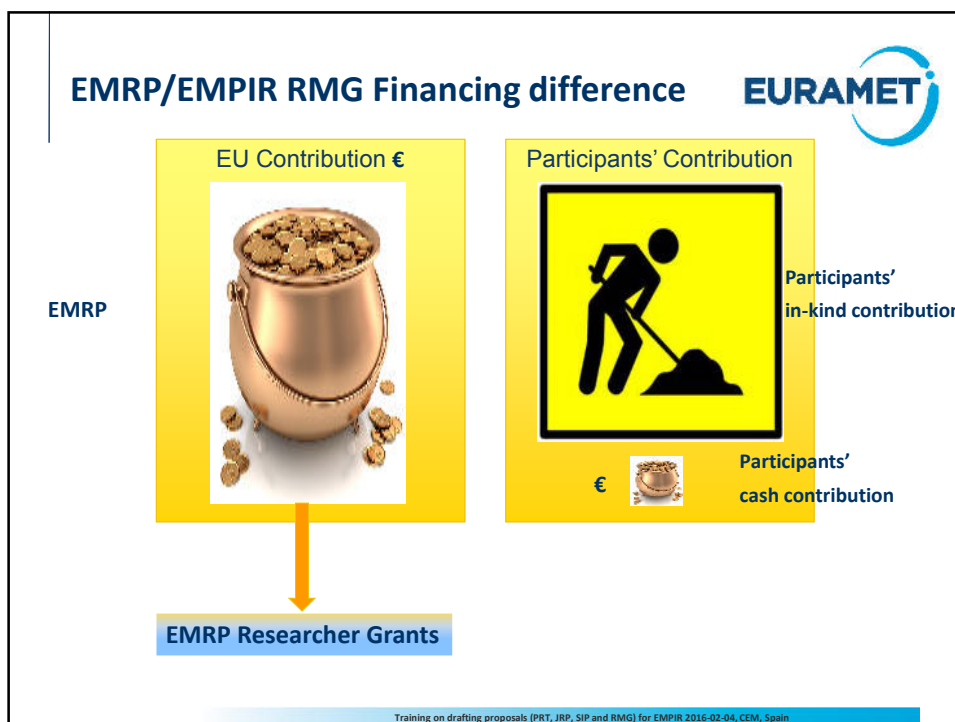
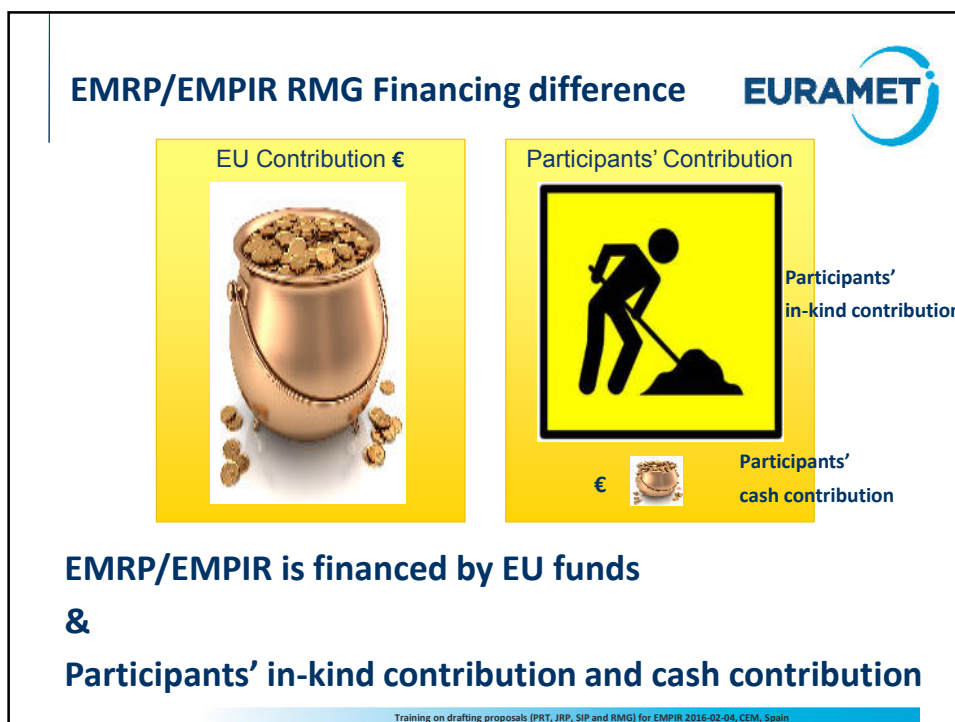


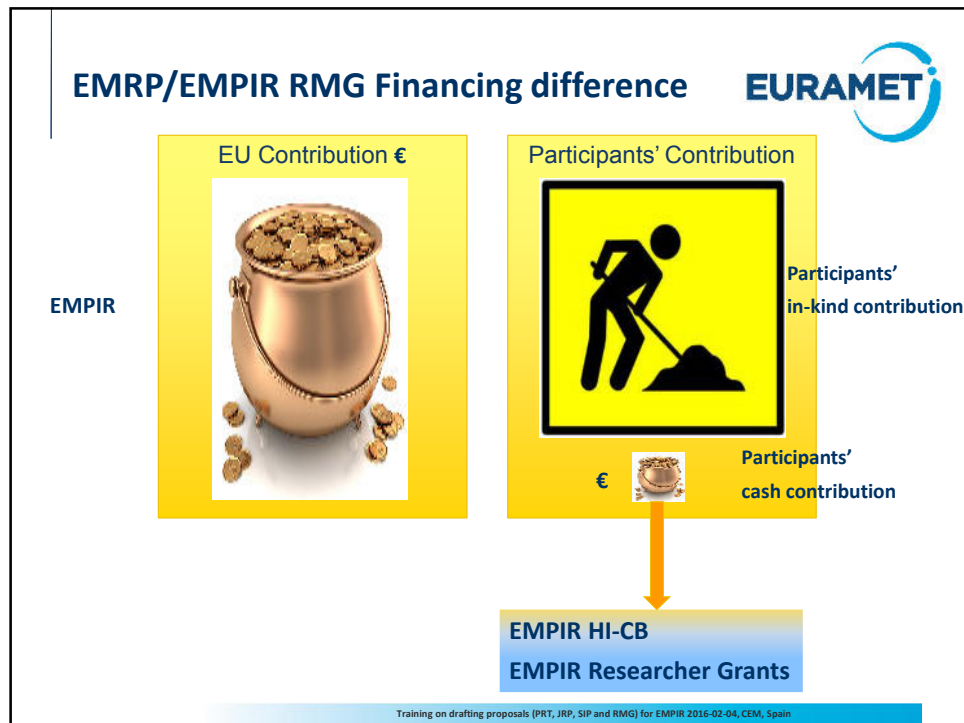
<http://www.emrponline.eu/downloads.html>


[RMG Flyer](#)

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2016 RMG Calls 

It is a pity if the CB instrument of EMRP RMGs would not be used, having in mind that those are EU funds provided specifically to support emerging members with the aim of “closing the gap”.

Some participants have very good experience with RMGs (i.e. IMBiH), some institutes have good experience but due to workload or staff limitations cannot send more researchers for RMGs.

Understanding of RMG CB instrument among members – more explanation !!

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2016 RMG Calls



It is not in all cases likely to find the project which will entirely fit the interest/need of potential researchers among running EMRP and EMPIR projects

It should not be discouraging for the researcher if a complete match between needs and project work is not evident from the beginning.

Projects will not always find experienced researcher to perform some very specific task.

However, contribution of researcher's work to the project can be significant.

However, certain flexibility is expected and the research to be performed can be defined in satisfaction of both projects and researchers.

Besides increasing researchers' skills improvement, participating in RMGs has long-term benefits from enhanced networking between researchers from hosting institutions and trainees.

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Please do consult MSU and EURAMET Secretariat!

MSU

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Please distribute this information to your colleagues !!!!

EMPIR RPT 2016 Call: First PRT ideas



- Lidar traceability (TUBITAK UME, METAS)
- Establishment of traceability and degree of equivalence in medical measurements (TUBITAK UME)
- IR (traceability for SSDL): BiH, LV and LT may also be interested
- T&F: international traceability for time and frequency measurements (IMBiH?))
- Precious metals analysis (production of a RM): METROSERT, IMBiH, GUM... (There has already been one PRT in 2014 call)
- Length (unsuccessful attempts in 2014 and 2015, some other interest?)