

Background and nature of RPOT

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Research Potential Projects: Guiding Principles

Objective of RPOT:

The objective of RPOT as a CB instrument is the development of the potential for metrology research and/or the establishment of a competitive metrology infrastructure, responding to an existing gap in emerging EURAMET member countries or regions.

One specific aim is that as a result of RPOTs, participating organisations would have the capability to eventually participate in EMPIR JRPs should they choose to do so, and this might eventually provide input to other aspects such as research, innovation and patenting.

RPot Projects: Call scope

EMRP Midterm Evaluation 2011:

"EMRP is not having the desired effect in terms of capacity building in those countries with limited or no metrology research capability ..."

In order to respond to an existing capability gap in emerging EURAMET member countries and regions, Capacity Building instruments have been included within EMPIR. The overall strategic aim of the metrology capacity-building activities on different technological levels is to achieve a balanced and integrated metrology system in the participating states, enabling them to develop their scientific and technical capabilities in metrology. Competitive metrology capabilities affect all other aspects of the technical quality infrastructure of the participating NMIs and DIs, therefore directly contributing to increased European economic welfare.

Research Potential Projects (RPOTs) are a Capacity Building instrument for the development of the potential for metrology research of the participating organisations which will subsequently provide input to other aspects of technology transfer, innovation and all other aspects of research.

RPot Projects: Call scope

EMRP Midterm Evaluation 2011:

"EMRP is not having the desired effect in terms of capacity building in those countries with limited or no metrology research capability ..."

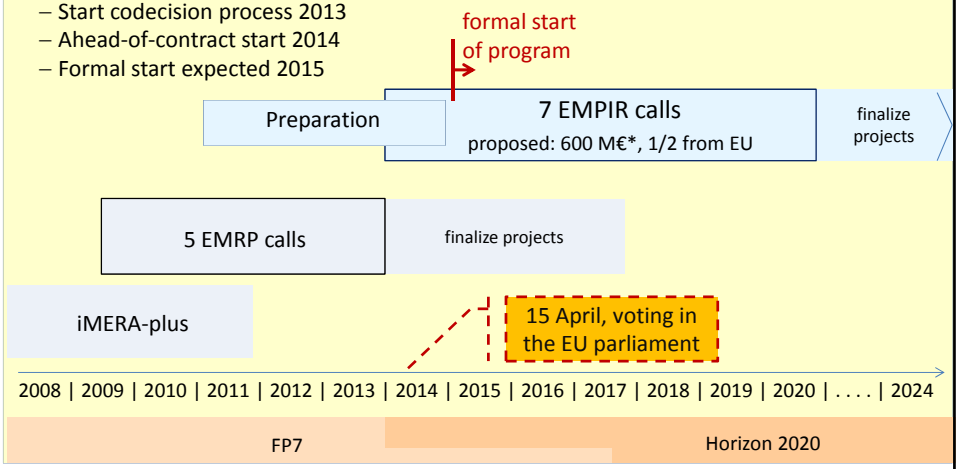
The needs identified within the Potential Research Topics (PRTs) should recognise that RPOTs will be demand oriented, will have a European dimension and critical mass, will focus on EURAMET's internal infrastructure and expertise to provide appropriate internal knowledge transfer to emerging members, will be based on horizontal collaboration for the development of new metrological infrastructures in a coordinated way ("smart specialisation") and will need to demonstrate significant impact to the entire quality infrastructure.

RPOTs should include some research and development activities and in this respect they differ from the technical assistance nature of cooperation, however they do not need to address fundamental scientific challenges.

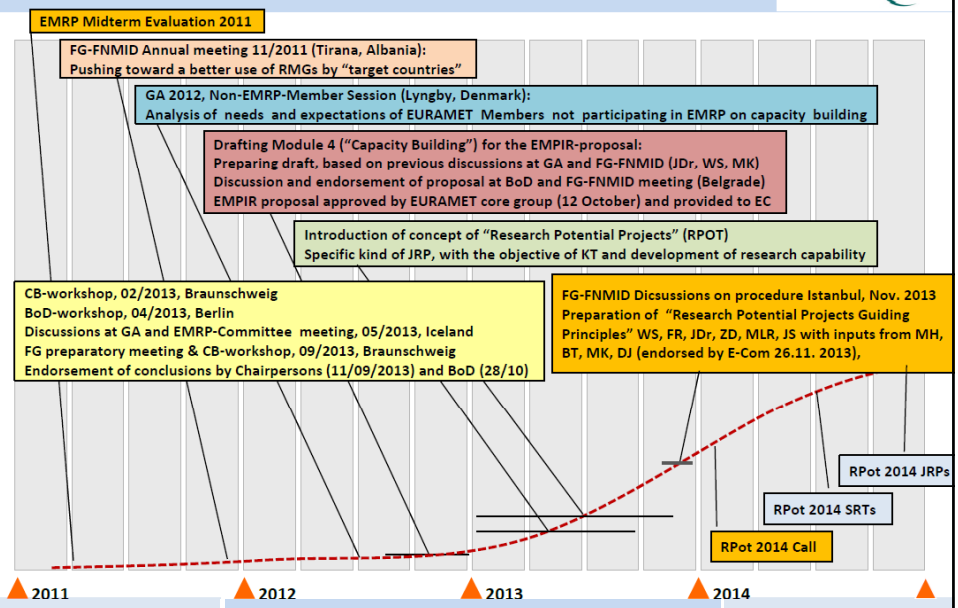
An important element of RPOTs is the collaboration between NMIs/DIs that are less experienced in a relevant field with NMIs/DIs with greater experience, with the aim of establishing and developing metrology capabilities and the potential for metrology research.

EMRP EMPIR timeline

- Interim evaluation EMRP 2011
- Ex-Ante impact assessment 2012
- Start codecision process 2013
- Ahead-of-contract start 2014
- Formal start expected 2015



Evolution of CB under EMPIR



	Country	Commitment			
1	Austria	840.000	15	Italy	24.000.000
2	Belgium	1.200.000	16	Netherlands	16.500.000
3	Bosnia & Herzeg.	920.000	17	Norway	3.750.000
4	Bulgaria	840.000	18	Poland	2.500.000
5	Croatia	700.000	19	Portugal	840.000
6	Czech Republic	8.600.000	20	Romania	2.000.000
7	Denmark	4.750.000	21	Serbia	700.000
8	Estonia	910.000	22	Slovakia	200.000
9	Finland	12.000.000	23	Slovenia	2.249.333
10	France	27.000.000	24	Spain	6.000.000
11	Germany	88.000.000	25	Sweden	5.131.000
12	Greece		26	Switzerland	
13	Hungary	1.050.000	27	Turkey	12.000.000
14	Ireland	600.000	28	United Kingdom	83.000.000
				Total	306.280.333

Indicative budget breakdown

Activity Type	Union EUR 300 million		Participating States EUR 300 million		Total EUR 600 million	
	%	EUR million	%	EUR million	%	EUR million
EMPIR activities	100 %	300	90 %	270	**95 %**	**570**
Of which participation EMPIR supporting NMIs/DIs	70 %	210	90 %	270	**80 %**	**480**
Of which participation non EMPIR NMIs/DIs and non NMIs/DIs	30 %	90			**15 %**	**90**
Administrative Costs	-	-	10 %	30	**5 %**	**30**
Total	**100 %**	**300**	**100 %**	**300**	**100 %**	**600**

The indicative funding breakdown results in a nominal funding rate for NMIs and DIs at the overall project level of 43,75% (EUR 210 million / EUR 480 million)

EMPIR: Type of Actions

Research and innovation actions

Action primarily consisting of activities aiming to establish new knowledge and/or to explore the feasibility of a new or improved technology, product, process, service or solution.
For this purpose they may include basic and applied research, technology development and integration, testing and validation on a small-scale prototype in a laboratory or simulated environment.

Minimum: 3 NMI/DI partners from 3 different EMPIR countries

Examples:
- TP JRPs
- RPot

Coordination and support actions

Actions consisting primarily of accompanying measures such as standardisation, dissemination, awareness-raising and communication, networking, coordination or support services, policy dialogues and mutual learning exercises and studies ...

NO research!

Minimum: 1 eligible partner from an EMPIR country

Examples:
- Extensions
- HI-CB

Classification of potential research topics, 2014

EMPIR Work Programme
EMPIR Call 2014
Potential Research Topics – Classifications

Document: P-PRG-GUI-019 Version: 1.0
Approved: EMRP Programme Manager 2014-01-20

To assist EURAMET in the early stages of reviewing the Potential Research Topics (PRTs) submitted at Stage 1, the submitter is asked to associate their PRT with a "Classification" from the list below. This is only used to make it more likely that similar topics are reviewed together.

The Classifications for the 2014 call are:

TP	Classification
Industry	Dimensional metrology
	Temperature and related quantities metrology
	Electrical and magnetic metrology
	Time and frequency metrology
	Ionising radiation metrology
	Chemical metrology
	Mass and related quantities metrology
	Flow metrology
	Optical metrology
	Acoustical metrology
	Metrology for manufacturing technologies and process control
	Other
Research Potential	RPOT

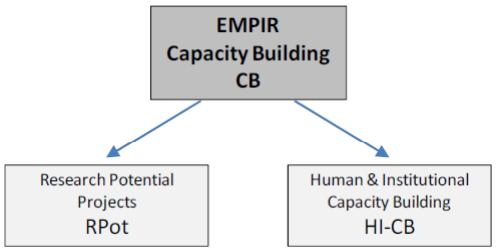
Capacity Building within EMPIR

EMRP Midterm Evaluation 2011:

*"EMRP is not having the desired effect in terms of **capacity building** in those countries with limited or no metrology research capability ..."*

Capacity building has been included in EMPIR as the Module 4.

FG-FNMID annual meeting
4 to 5 November 2013, Istanbul



First call in 2014
First projects to start in 2015

Reasonable adaptation of JRP rules

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Continuation / transfer of current FG activities
Financing in 2014 by PTB Q.5
Envisaged to be financed within EMPIR from 2015 on

Rules to be developed during 2014

Research Potential Projects: Guiding Principles

Participation in RPOT:

Same rules as for JRPs

1. **Partners on contractual basis**:
   - funded internal partner: EMPIR-member NMI or DI
   - funded external partner (not to exceed 5%)
   - unfunded partner
2. **Collaborators:**
   Open to NMIs and DI from any EURAMET Member (not EMPIR-member)

- Minimum 3 funded internal partners from different countries, coordinator from internal partner
- KT-aspect: "Experienced NMI supports emerging NMI(s)"
- No funding of significant capital equipment
  Equipment must be available when project is starting

Research Potential Projects: Guiding Principles

Governance:

Following bodies participate in call process, generation and administration:

1. **EMPIR Committee:**
   Decision making (as for JRPs)
2. **EMPIR SC-CB:**
   Similar as SC-R, role and composition see later
3. **MSU:**
   Administration of the call process at all stages
4. **FG-FNMID:**
   Similar role as TCs for JRPs
   (proposing needs, input to call scope, facilitating generation of ideas for PCBT, supporting establishment of project consortia)
5. **Secretariat (BS)**
   Help desk for partnering, questions on drafting, etc.

Establishment of a EMPIR SC for CB (SC-CB)

Responsibilities:

- Preparing the scope for RPOT-calls, taking into account information from stakeholders, the EMPIR Committee, the FG-FNMID, and others.
- Sifting the PCBTs
- Preparing SCBTs, with support from the MSU

Composition (proposal):

- EMPIR-Chair
- Deputy EMPIR-Chair
- 3 EMPIR-Committee Members
- Standing Invitees: Head of Secretariat, EMRP-PM, EC-representative
- External expert(s) may be invited

Research Potential Projects: Guiding Principles

Scope and topics of RPOT:

RPOTs should address the following aspects:

- **Demand orientation**
- **European Dimension**:
  develop metrology potential in a European context.
- **EURAMET collaboration**:
  make use of EURAMET internal expertise
- **Horizontal coordination:**
  aiming at “smart specialisation”
- **Critical mass**:
- **Impact**:
  significant improvement of measurement capability and quality on a national or European level

Thank you!