

G06.06

EMRP and EMPIR

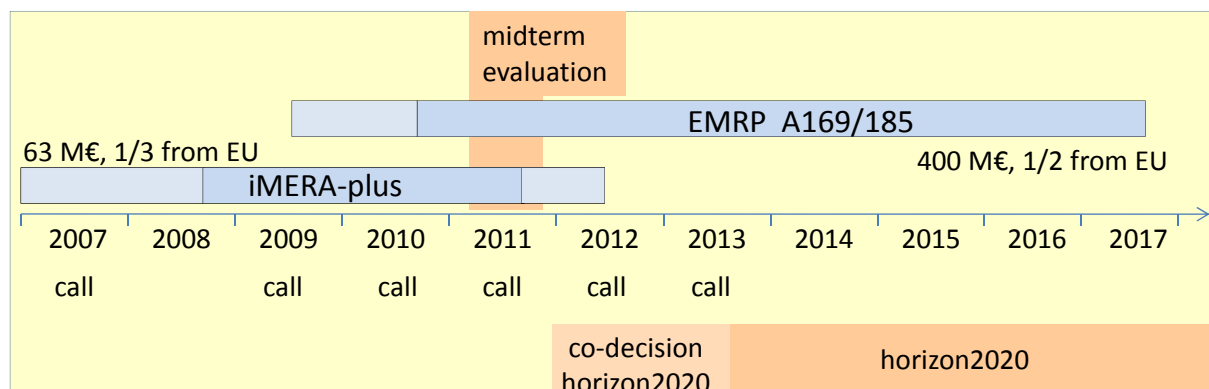
G06.06 Status EMRP

ERAnet-plus

2007	SI units
	Health
	Length
	Electromagnetism
all 21 projects ended 2011	

EMRP

2009	Energy	projects running
2010	Environment	projects running
	Metrology for Industry	
2011	Health	contracting
	SI broader scope	
	New Technologies	
2012	Metrology for Industry	preparation
	SI broader scope	
	Open excellence call	
2013	Energy	
	Environment	



Interim evaluation – the panel

Chair:
Pia Locatelli



Rapporteur:
Angus Hunter



Bob Kaarls



Jana Kolar



Olivier Donar



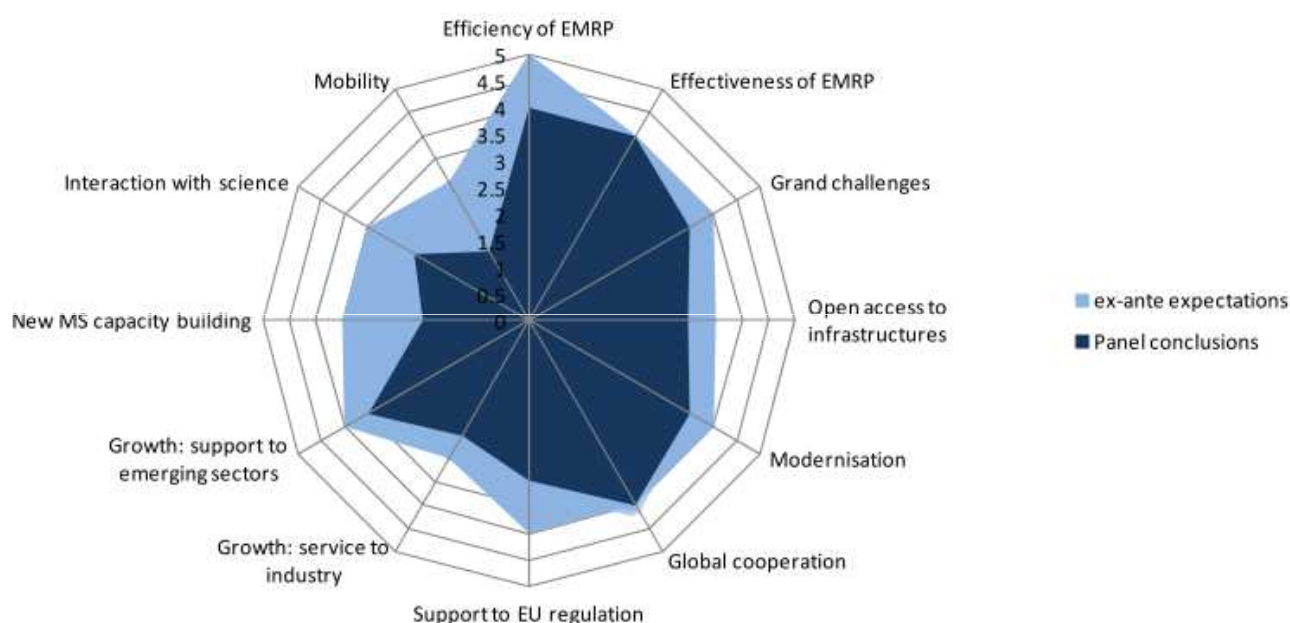
2011 June	Kick-off
	closed meetings
2011 August 11, 12	meeting in Braunschweig with Euramet representatives
	closed meetings, interviews with stakeholders
2011 September 20	meeting in Berlin with Euramet
	closed meetings
2011 November 29	passing the draft report to COM
2012 April 16	Communication of COM to Parliament and Council
≈ fall 2012	response of Parliament and Council

Press release from the EU:

“The Commission shares the expert panel view, that the EMRP is a well managed and progressively more and more integrated European programme. It has transformed a specialised and fragmented community into a successful public-public partnership confirming the advantages of the European Research Area.”

The Commission’s report:

- EMRP has performed well in most of its initial objectives in what concerns nearly 85% of its total financial resources to date.
- Expert panel expects the remaining areas of capacity building, interaction with the wider scientific community and mobility of researchers to make further progress during the remaining years of the programme.



EMPIR

GA open session: present status of proposal,
explain background

GA closed session: discuss details, take decisions

References

D06.06.01_EMPIR_draft_Cornerstones_V8.docx

D06.06.01_Mail-JS_2012-05-03.pdf

D06.06.01_Report-AHunter.pdf

D06.06.01_Report-MKaiser.pdf

EMPIR: motivation and drivers

- EU's strategy Europe 2020

key driver of science and
innovation agenda

- feedback from interim
evaluation

positive about EMRP with further potential
in capacity building, mobility and
networking with wider science

- input from RC

„do excellent science“

- success and experience with
EMRP

we demonstrated to be able to deliver
added value; can make it even better

- feedback from participants

wish to continue, high value
survey of 2011

- request from a number of
ministries

support of innovation pillar

take the next step: general vision of EMPIR

Development from
EMRP **threefold integration**
to
EMPIR **liaise and reach out**

- Finalise integration via capacity building module
- Use the joint strength gained via EMRP to reach out

continue to think strategically;
our vision of European
metrology landscape 2025

shift focus of thinking
from inwards to outwards

open programme to wider science
and international partners

systematically address needs from
industry (innovation),
standardisation, regulation

EMPIR: key inputs

science agenda	<ul style="list-style-type: none"> • Europe2020/Horizon2020 • roadmapping • key stakeholders
basic scientific metrology	<ul style="list-style-type: none"> • excellence-driven, depending on long-term objectives
grand challenges	<ul style="list-style-type: none"> • high-level documentation • key stakeholders
innovation	<ul style="list-style-type: none"> • Europe2020/Horizon2020 • innovation experts at PTB, NPL, INRIM
capacity building	<ul style="list-style-type: none"> • interim evaluation, A. Hunter • M. Kaiser • focus group
international opening	<ul style="list-style-type: none"> • A. Henson
governance	<ul style="list-style-type: none"> • EMRP experience

Cornerstones of work programme:

- The **scientific-technical programme** is built on the pillars **basic research and grand challenges**.
- It addresses the whole innovation chain and raises the profile of **innovation** compared to the EMRP.
- It supports **pre-normative metrology R&D** for priority documentary standards
- It includes **metrology capacity building** on different technological levels in order to achieve a balanced and integrated metrology system in Europe.

Cornerstones of governance:

- EMPIR is implemented under Article 185.
- The intended budget is about the same as that of the EMRP.
- EURAMET e.V. is the implementation body. the existing governance structures
- **Participation at programme level** ("EMPIR participants"): participation in EMPIR is open to all EURAMET members and associate members with the necessary capabilities and commitments. EMPIR will include measures to support EURAMET members without capabilities or with formal barriers to participate at programme level.
- **Participation at project level:** eligibility for funded project participation is open to external, European and international partners meeting the eligibility of Horizon 2020 project participation and with capabilities to significantly contribute to develop metrology.

Cornerstones of governance:

- .. composition of project consortia ... balance between sustainable implementation in the European metrology system and openness to external excellence.
- The EMPIR participants send delegates (one per country) into the EMRP/EMPIR committee; the weighted voting is calculated from the national commitments according to the square root law of the EMRP.
- Generic liability regarding the EC funds related to EMPIR rests with the Article 185 EMPIR participants...

EMPIR cornerstones – draft V8, the modules

The module structure of EMPIR	
Module 1: Science	Basic scientific metrology
	Grand challenges
Module 2: Innovation	Innovation: technology projects
	Innovation: central support for technology and knowledge transfer
Module 3: Pre-normative	R&D focused on metrology needed for European and international documentary standards
Module 4: Capacity building	R&D measurement capabilities
	Non-R&D accompanying measures, mobility
Module 5: Management	Programme management
	Promotion, central stakeholder interaction

The module structure of EMPIR

Module 1: Science	Basic scientific metrology
	Grand challenges

- Basic scientific metrology similar to TP SI fundamentals and TP Open excellence; no specific thematic restrictions
- Grand challenges similar to TP Environment, Energy, Health 20:20:20 strategy,...
- High-level reference documents, TC roadmapping

The module structure of EMPIR

Module 2: Innovation	Innovation: technology projects
	Innovation: central support for technology and knowledge transfer

- funding of technology transfer projects
limited resources, perhaps depending on alternative national funding options and missions
- central advice for technology screening of R&D projects, patents, licensing,
- promotion of technological inventions
- facilitation of technology and knowledge transfer activities such as through other national or European programmes

The module structure of EMPIR

Module 3: Pre-normative

R&D focused on metrology needed for European and international documentary standards

- focused on the needs of international Standards Developing Organizations like CEN, CENELEC, ETSI and ISO, IEC, ITU
- limited to **metrology** associated with establishing traceability to the SI,
- underpinning European Directives and Regulations
- facilitating the route to market for innovative goods and services



6th EURAMET GA
Lyngby, 22/23 May 2012

The module structure of EMPIR

Module 4: Capacity building

R&D measurement capabilities

Non-R&D accompanying measures, mobility

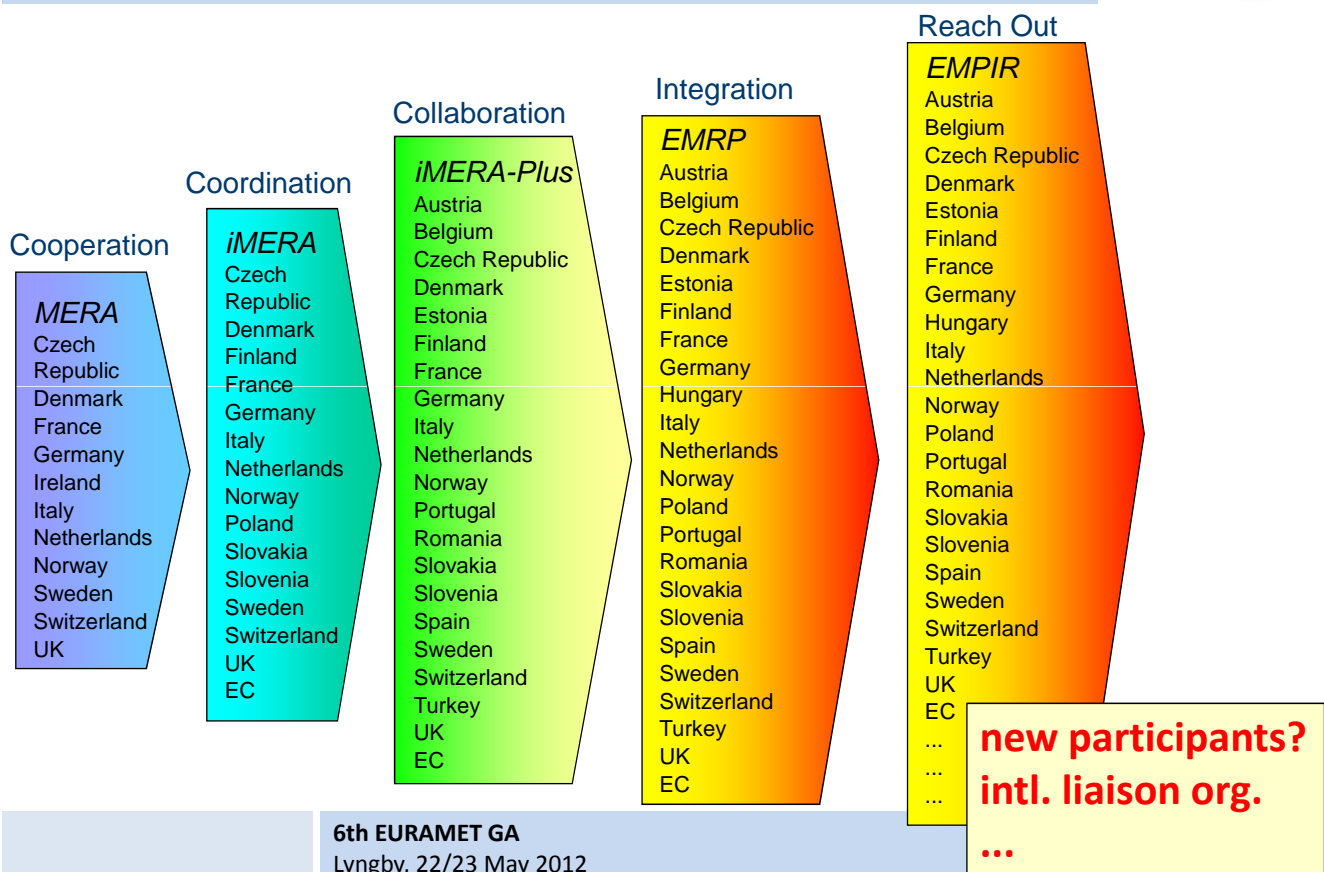
- „R&D measurement capabilities“ similar to TP SI broader scope
 - coordinate along strategy stakeholder needs avoid duplication
- „non-R&D accompanying measures“ include mobility, EURAMET support and advice for personal and institutional capacity building
 - develop vision of European metrology landscape 2025
 - smart specialisation
 - make structure funds available
 - strong role of „FG or TC development“

6th EURAMET GA
Lyngby, 22/23 May 2012

Promotion, central stakeholder interaction

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EURAMET
European Association of National Metrology Institutes



Time line

2012 May 22 - 25	GA and EMRP committee cornerstones, participants, national commitments
throughout 2012	<i>meetings of Council working groups, EU Parliament, COM about Horizon 2020 incl A185 in general terms e.g. Competitive Council May 30</i>
2012 starting September	EMPIR impact assessment
2012 end of Sep, begin of Oct	proposal EMPIR, approved by BoD and other delegates
2012 November	final EURAMET proposal for EMPIR
2013 spring	COM proposal for co-decision
2014 early summer	Co-decision of Parliament/Council

EMPIR proposal – key issues for delegates

Delegates are asked to

- find consensus on cornerstones, express your expectations
- indicate and later secure national commitments
 - can have different origins but must be reliable and stable
- support by providing success stories from iMERA-plus, EMRP
- think of secondments into EURAMET
 - help to prepare impact assessment
- generate political support
 - ministries, Council, Parliament

TC-Chairs are asked to

- provide written versions of roadmapping by end of June; include high-level references
- identify a TC-representative for horizontal themes

	# of pages		authors
Module 1: Science	2	Basic scientific metrology	Jörn
	6	Grand challenges	
Module 2: Innovation	1	Innovation: technology projects	Jörn, Leslie
	1	Innovation: central support for technology and knowledge transfer	
Module 3: Pre-normative	3	R&D focused on metrology needed for European and international documentary standards	Kamal, Jörn
Module 4: Capacity building	2	R&D measurement capabilities	Janko, Wolfgang, Jörn
	2	Non-R&D accompanying measures, mobility/knowledge transfer	