

# *EURAMET E.V. - EMPIR UN OUTIL DE RECHERCHE*

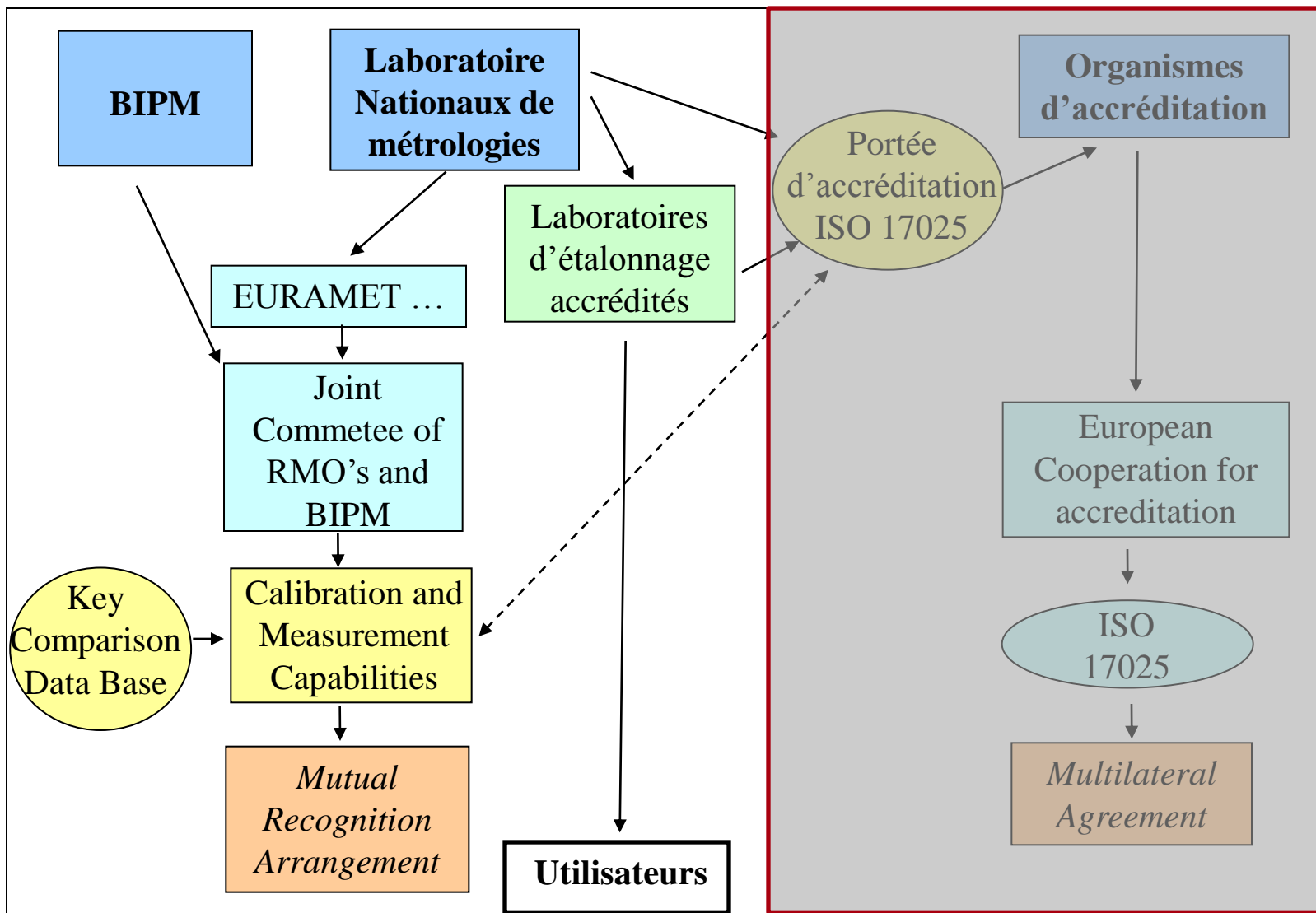
31 journées LARD / Saclay octobre 2014 | Bordy Jean-Marc

**list**



Laboratoire National  
Henri Becquerel





## Laboratoire National de Métrologie (LNM) en France est le **LNE**

Fédérateur de 4 laboratoires CNAM LNE SYRTE **LNHB** / tous les domaines tech.  
Laboratoire associés (IRSN CAD, .....)

**EURAMET E.V.** : Association des LMN / “**Technical committee**”

**LNHB** dans le TC Ionizing Radiation (TCIR) Présidente L. Johanson (NPL, UK)

2 Working groups

- Dosimetry and Radionuclides in Health Care and Novel Dosimetry Concepts / **LNHB**
- Radionuclides and Dosimetry in Environment and Industry / BEV autriche

Roles des TC **rédigent des Raod Maps**

organisent des comparaisons internationales

Informent sur la R&D des laboratoires

**organisent les réponses aux calls EMRP/ EMPIR**

Autres implications (retour topics) : ISO, ASTM, ICRU, CCRI

By Decision of 16 September 2009 of the European Parliament and the Council the EU agreed to participate in a **European Metrology Research Programme – EMRP**, with a contribution of up to €200 million for the period 2009-2017, equivalent to the contributions of the 22 Participating States. The above mentioned Decision (herein after the “EMRP Decision”) is based on Article 185 TFEU (previous Article 169 EC Treaty). The joint implementation of the national research programmes requires a dedicated implementation structure, **EURAMET e.V.**, which is the recipient of the Union financial contribution and should ensure the efficient execution of the EMRP.

The **core activity** of the EMRP consist of funding multi-partner trans-national projects addressing **research, technological development, training and dissemination activities** (EMRP projects). In view of the concentrated capacities in metrology, the core part of the EMRP projects shall be executed by **National Metrology Institutes and Designated Institutes** from the participating States. In order to increase and diversify capacities in metrology, the EMRP also funds several **researcher grant** schemes which complement the EMRP projects.

« Grosse maille » Si 50% Europe -> 50% Métrologie française

En 2014 « EMRP » remplacé par « EMPIR »

External Beam Cancer Therapy (04-08) **(Health)**

3D Brachytherapy (07-08) **(Health)**

**ENG 08** MetroFission - Metrology for new generation nuclear power plants

**ENV 09** MetroRWM - Metrology for Radioactive waste management (2014)

**IND 04** MetroMetal - Ionising Radiation for Metallurgical Industry (2014)

**IND 07** Thin Films - Metrology for manufacturing thin film (2014)

**HLT 09** MetrExtRT - Metrology for radiotherapy using complex radiation fields (2015)

**HLT 11** MetroMRT – Metrology for Molecular Radiotherapy (2015)

**NEW 01** TReND - Traceable Characterization of Nano-Structured Device (2014)

**IND 57** MetroNORM - Metrology for processing materials with high natural radioactivity (2016)

**ENG 53** ThinERGY - Traceable characterisation thin-film materials for energy applications (2017)

**ENV 54** MetroDecom - Metrology for decommissioning nuclear facilities (2017)

**ENV 57** MetroERM - Metrology for Radiological Early Warning Network in Europe (2017)

} Terminés

## Grands challenges

- Energie
- Environnement
- Santé
- Sécurité
- Communications
- Transport
  
- Reasearch Potential
- Normalisation

Pour 6-7 ans ; 1-3 calls pas an

Premier call 2014,  
Industry  
Rpot  
Normalisation

Début premiers projets juin 2015

Call 2015  
Santé

## EMRP / EMPIR : Calendrier rédaction / négociation

**PRT (dépôt Mars), Project Research Topics**

**SRT (émission juillet), Selected Research Topics**

**JRP (dépôt octobre), Joint Research Program**

**Review conf. (novembre/ décembre) +++  
compétition tous domaines**

**Décision (décembre)**

**Négociation finale EMPIR (janvier ...)**

**Début travail (juin; an + 1) Durée 3 ans**

année	M€	TPs	M€	C&S, new type of TPs	M€
2014	50	IND RPot	43.5 3	Extension (TT, PNorm)	1
2015	80	SIBS HEA big PNorm RPot	25 40 10 5	Extension	1
2016	95	ENV ENG FUN RPot			
2017	95	.../... ?			
2018	95	.../... ?			
2019	95	.../... ?			
2020	90	.../... ?			





---

Laboratoire National  
Henri Becquerel

---

Je vous remercie  
pour votre attention

