



Why, how and when participate in European metrology research projects

EURAMET Information Day for INM Moldova, INM, Chisinau, 7 - 8 November 2018

Slides by Miruna Dobre (SMD, Belgium) + Euramet Secretariat



The EMPIR initiative is co-funded by the European Union's Horizon 2020 research and innovation programme and the EMPIR Participating States

Research mobility grants



- Search projects from calls 2016 and 2017;
- Contact as soon as possible the coordinator or participants;
- Set-up the research plan with the host institution;
- Obtain the authorization for your institution
- Read here: <u>https://msu.euramet.org/download</u>s/

Practical details:

- Maximum duration 18 months; flexible duration
- You remain employee of your own institution, grant of 1800 €:month is paid to the institution
- 1500 €/6 months for training, conferences etc.
- 500 €/ 3 months travel



EMPIR CALL 2017 - INDUSTRY, FUNDAMENTAL, NORMATIVE, RESEARCH POTENTIAL & SUPPORT FOR IMPACT

In 2017 EURAMET issued calls for joint research for 'Metrology for Industry' (IND), 'Fundamental' (FUN), Metrology for Pre- and Co-normative' (NRM) and Research Potential (RPT) projects following a two stage process.

EURAMET also issued a Call for Support for Impact projects designed to increase the impact from completed i-MERA Plus and EMRP projects.

View all Selected Research Topics for EMPIR Call 2017

INDUSTRY

PROJECT NUMBER	SHORT NAME	TITLE	
17IND01	MIMAS	Procedures allowing medical implant manufacturers to demonstrate compliance with MRI safety regulations	Bernd Ittermann (PTB)
17IND02	SmartCom	Communication and validation of smart data in IoT-networks	Thomas Wiedenhoefer (PTB)
17IND03	LaVA	Large Volume Metrology Applications	Andrew Lewis (NPL)
17IND04	EMPRESS 2	Enhancing process efficiency through improved temperature measurement 2	Jonathan Pearce (NPL)



Enhancing process efficiency through improved temperature measurement 2

Short Name: EMPRESS 2, Project Number: 17IND04



Metal industry

COORDINATOR Jonathan Pearce (NPL)

PARTICIPATING EURAMET NMIS AND DIS
CEM (Spain)
CMI (Czech Republic)
DTI (Denmark)
DTU (Denmark)
NRIM (Italy)
O-CSIC (Spain)
JV (Norway)
MIRS/UL-FE/LMK (Slovenia)
NPL (United Kingdom)
PTB (Germany)
JME (Turkey)

FORMATION

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ROJECT TYPE oint Research Project

TATUS

progress

ALL 17

URATION 18-2021

OTHER PARTICIPANTS

Acerinox Europa S.A. (Spain) Babcock & Wilcox Vølund A/S (Denmark) BAE Systems Marine Ltd (United Kingdom) CCPI Europe Ltd (United Kingdom) Considio Nazionale delle Ricerche (Italy)

Advancing measurement uncertainty comprehensive examples for key international standards

Short Name: EMUE, Project Number: 17NRM05



Scientists Beside a Microscope

COORDINATOR Maurice Cox (NPL)

COOMET workshop on EMPIR, Braunschweig, 2017-12-04



BAM (Germany)

IMBiH (Bosnia and Herzegovina)
INRIM (Italy)
IPQ (Portugal)
LGC (United Kingdom)
LNE (France)
NEL (United Kingdom)
NPL (United Kingdom)
PTB (Germany)
SMD (Belgium)
VSL (Netherlands)

OTHER PARTICIPANTS

Accredia - L'Ente Italiano di Accreditamento (Italy) Laboratorio Nacional de Engenharia Civil (Portugal) National Institute of Advanced Industrial Science and Technology (Japan)

Improved traceability chain of nanoparticle size measurements

Short Name: nPSize, Project Number: 17NRM04



Scientist holding a red transparent pill

COORDINATOR Vasile-Dan Hodoroaba (BAM)

COOMET workshop on EMPIR, Braunschweig, 2017-12-04

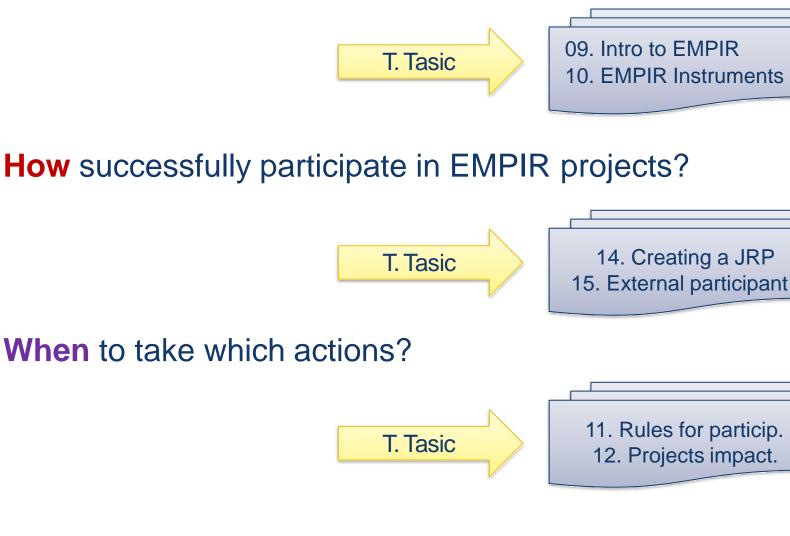


BAM (Germany)	
LGC (United Kingdom)	
LNE (France)	
PTB (Germany)	
SMD (Belgium)	
VSL (Netherlands)	

PARTICIPATING EURAMET NMIS AND DIS

OTHER PARTICIPANTS

Commissariat à l'énergie atomique et aux énergies alternatives (France) DIN Deutsches Institut für Normung e. V. (Germany) POLLEN Metrology (France) Università degli Studi di Torino (Italy)









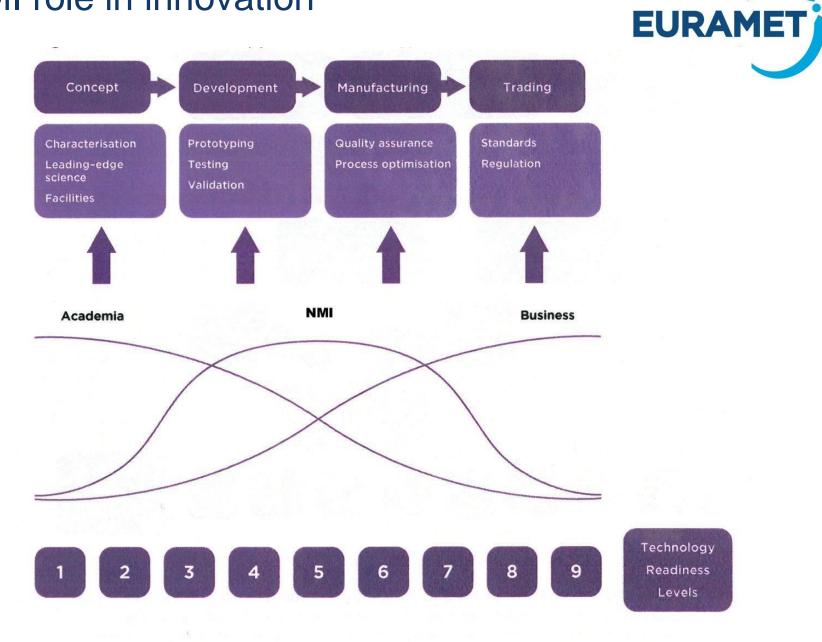
Why inolve in EMPIR research projects?



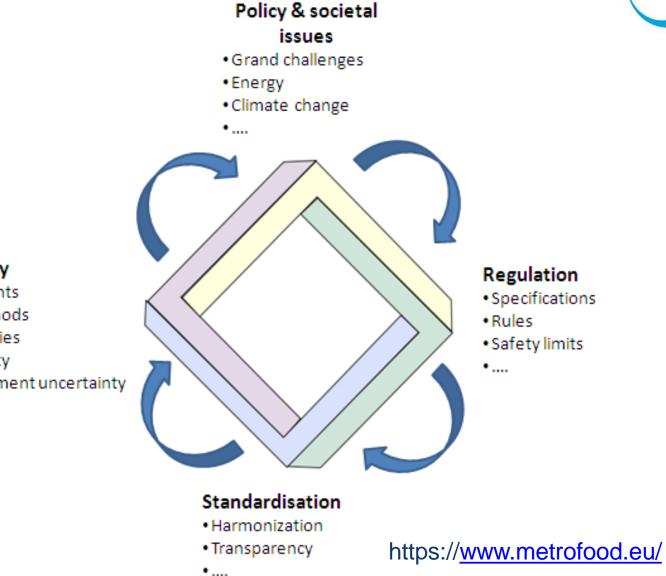
- Benefits for the NMI/country;
- Benefits for the projects consortium/ research;
- Benefits for the society/science



NMI role in innovation



NMI role in quality & safety infrastructure



EURAMET

Metrology

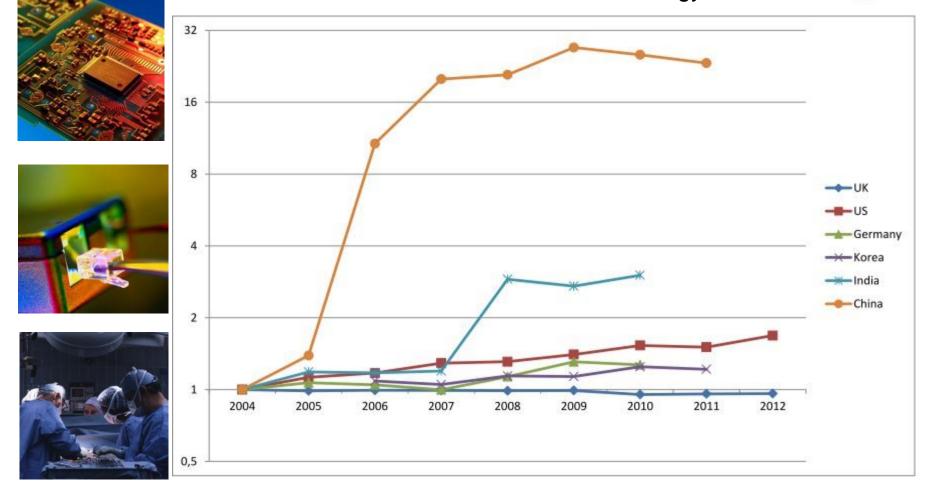
- Instruments
- Test methods
- Laboratories
- Traceability
- Measurement uncertainty

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The European Metrology challenge

Evolution of Investments in Metrology

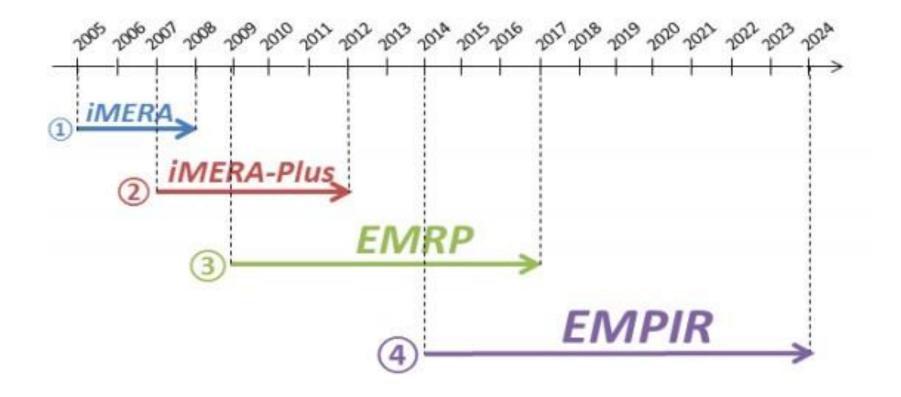
EURAMET

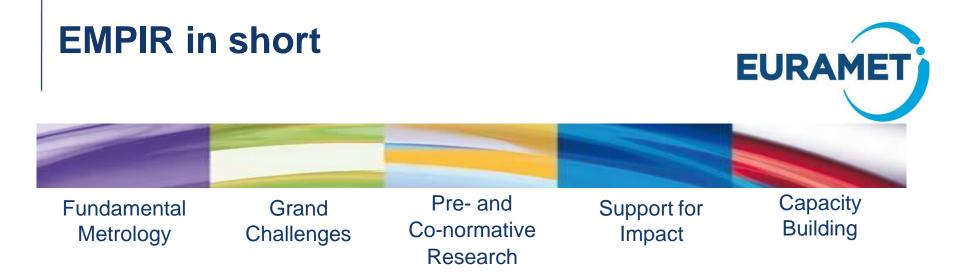


Greater demands ← → Limited resources

Towards the integrated European Metrology landscape

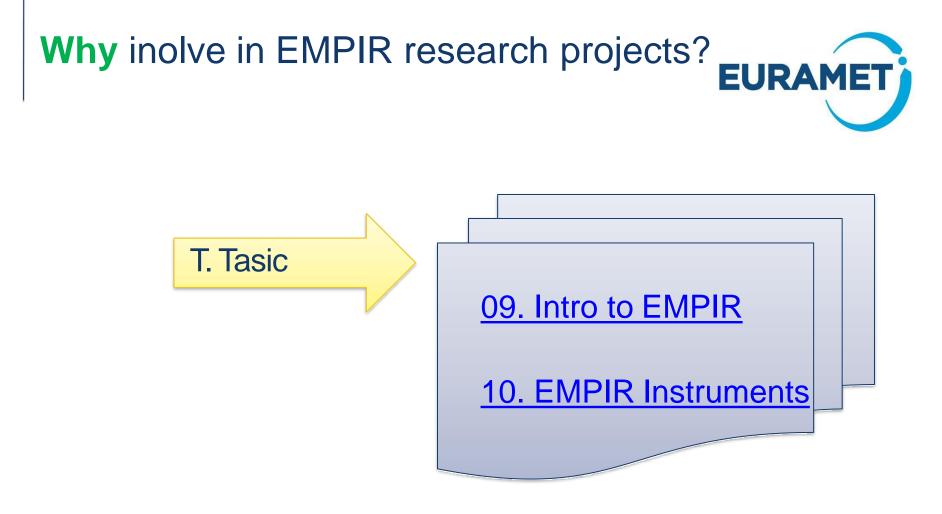






- EC finances 100% of manpower
- H2020 public-public partnership
- <mark>↓</mark> 600 M€
- ♦10 years
- 28 countries
- Grand challenges: energy, health, environment, industry



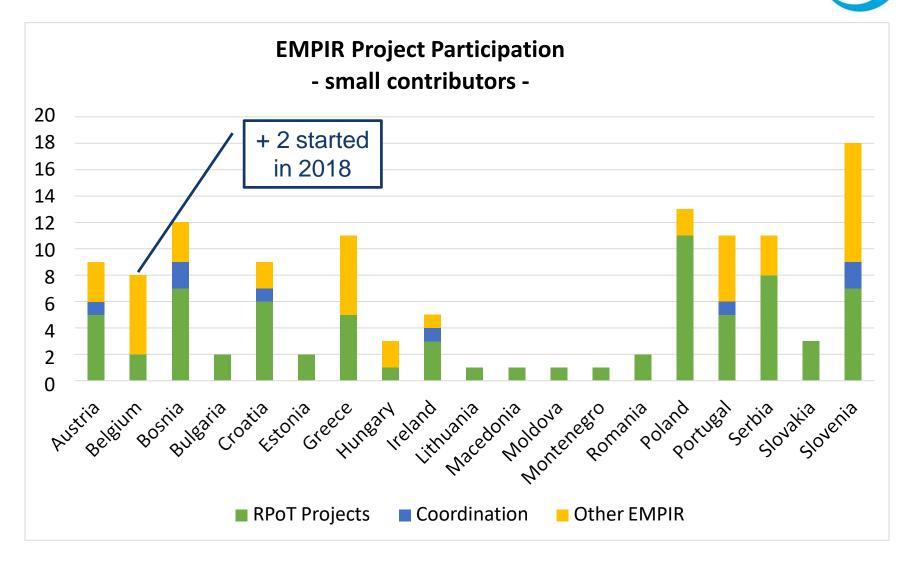


How successfully participate in EMPIR projects?

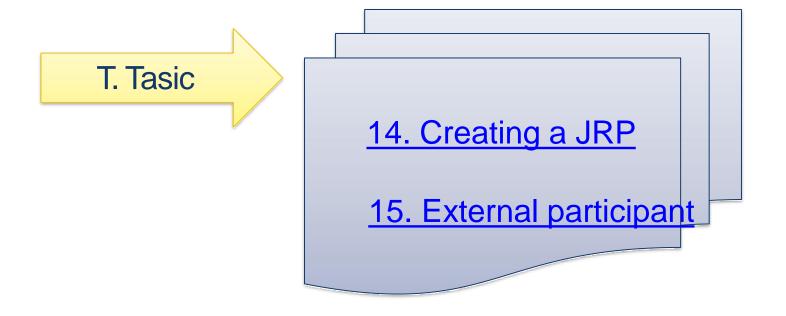


- Network, join communities of practice TC, EMNs;
- Focus on specfic expertise;
- Involve stakeholders

Increased activity in metrology research in emerging NMI's



How successfully participate in EMPIR **EURAMET**



When to take which actions?



PARTNERS

- Early stages: 2 years or more before project starts;
 - Strategic planning;
 - ✓ Stakeholder consultation
 - ✓ Network, TC metings, conferences, CEN;
 - ✓ Find funding for investments
- Project proposals: 1 year before:

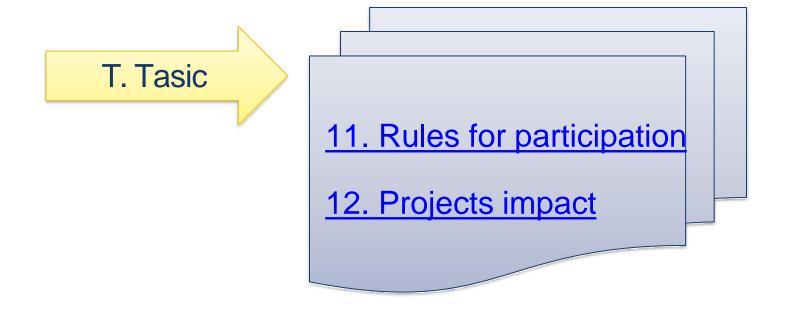


TOPICS

- During project: important deadlines;
- After project end: sustainability

When to take which actions?





Administrative and financial questions?



- Ask national contact points : <u>http://www.h2020.md/en/npc</u>
- Ask EMPIR-MSU Members Support Unit
- Follow <u>Trainings</u> at national level;
- Read <u>H2020 AGA</u> (Adnotated GrantAgreement)