

Cooperation CEN-CENELEC: EURAMET

EURAMET e.V.

European Association of National Metrology
Institutes

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www.euramet.org

Cooperation Agreement
Signing

Brussels
29th June 2010



COOPERATION AGREEMENT

Between

The EUROPEAN ASSOCIATION OF NATIONAL METROLOGY INSTITUTES

and

The EUROPEAN COMMITTEE FOR STANDARDIZATION

together with

The EUROPEAN COMMITTEE FOR ELECTROTECHNICAL STANDARDIZATION



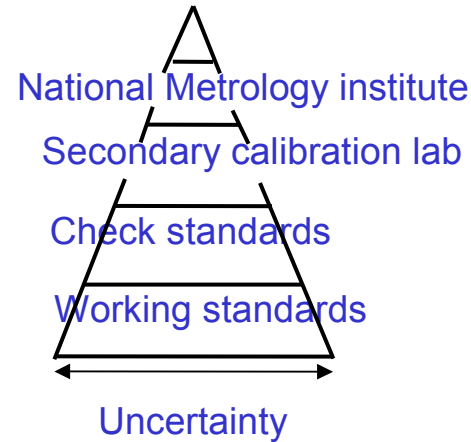
Mrs Elena Santiago (Director General CEN-CENELEC) and
Prof. Leslie Pendrill (Chairperson, EURAMET)

New! CEN-CENELEC/EURAMET CA Signed June 29th 2010 Brussels

Strategic goals and projects of common interest:

- in fields of metrology and standardization
- in support of scientific advancement and technological innovation
- to meet societal challenges with a significant impact on the economy and the quality of lives within Europe

European Association of National Metrology Institutes



Cooperation quality-assured measurement

Traceability means measurements can be compared:

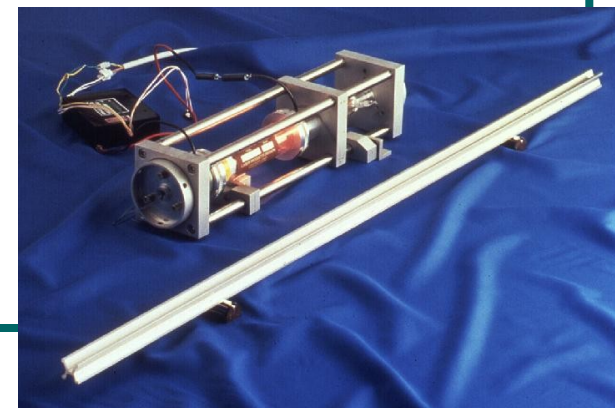
- Under both repeatability and reproducibility
- Even different measurement quantities

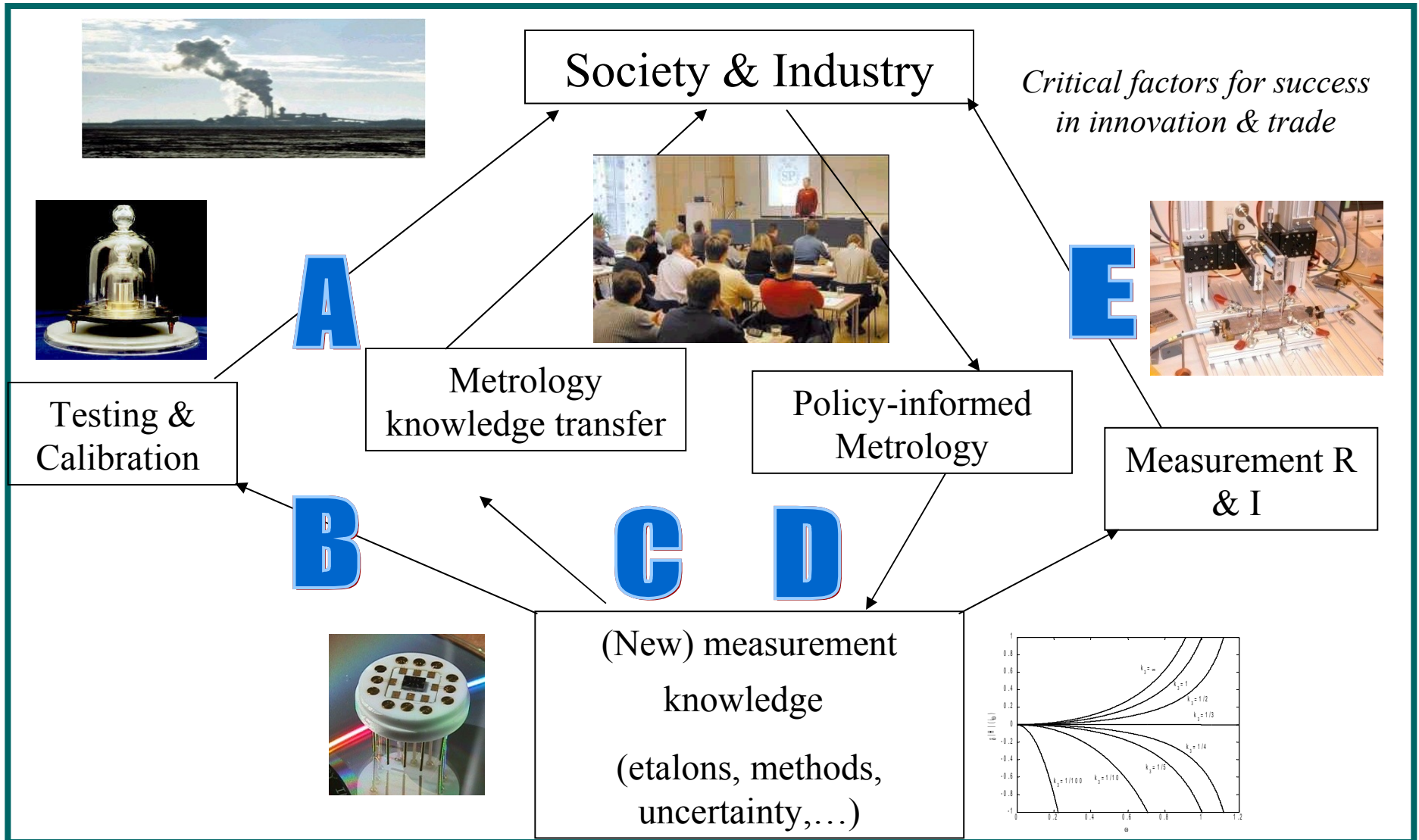


This gives processes and products which have :

- Interoperability
- Improved communication
- Can be traded, are safe and lie within specifications

Metrology & Measurement





Role of quality-assured measurement in conformity assessment

(I) Quality-assured measurements in conformity assessment

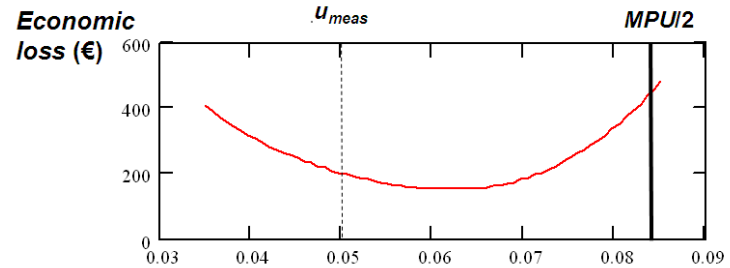
More work at pan-European level needed particularly in:

- Evaluation of measurement uncertainty – quantitative and qualitative, manufacturing and services
- Rules for compliancy - measurement uncertainty => risks of incorrect decisions
- Fit for purpose metrology => optimised type testing and market surveillance



“Optimised uncertainty methodology”

Decision-making and risks



Measurement uncertainty (% vol)

← Too much testing

Too little testing →



Role of quality-assured measurement in conformity assessment

(III) Policy support, regulation, written standards and pre-normative Research & Innovation

Quality-assured measurement => development of both generic standards and sector-specific standards:

- Sometimes unrealistic and ambiguous measurement specifications and unclear requirements.

On other hand, industry and society place increasingly exacting demands:

- Meeting 'grand challenges' such as in energy & the environment, health & safety
- Emergence of new technologies such as nano- and biotechnology.

Provide policy support/pre-normative R&D in context of conformity assessment

100+ organisations (NMI, DI)

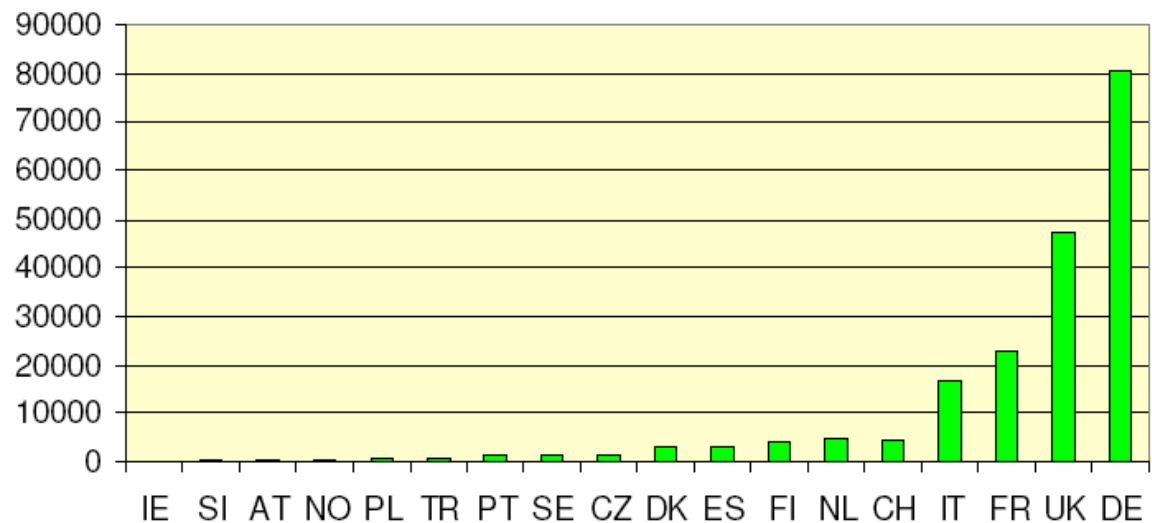
- employ about 4000 persons
- circa 2000 persons work on R&D activities
- spending about 200 M€ per year (50% of total budget) on R&D activities

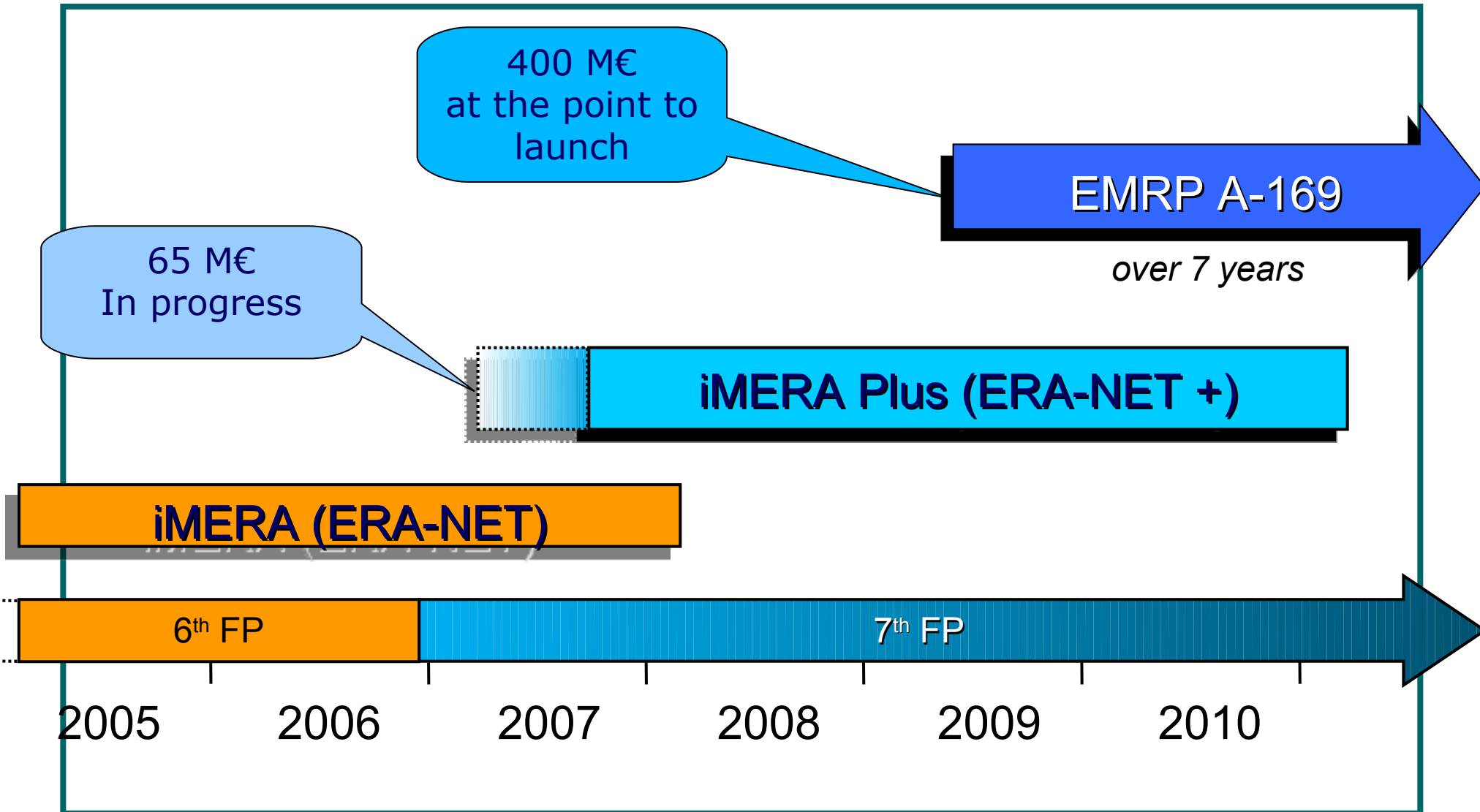
EURAMET new member:

Bosnia/Herzegovina became 34th
EURAMET Member 2009

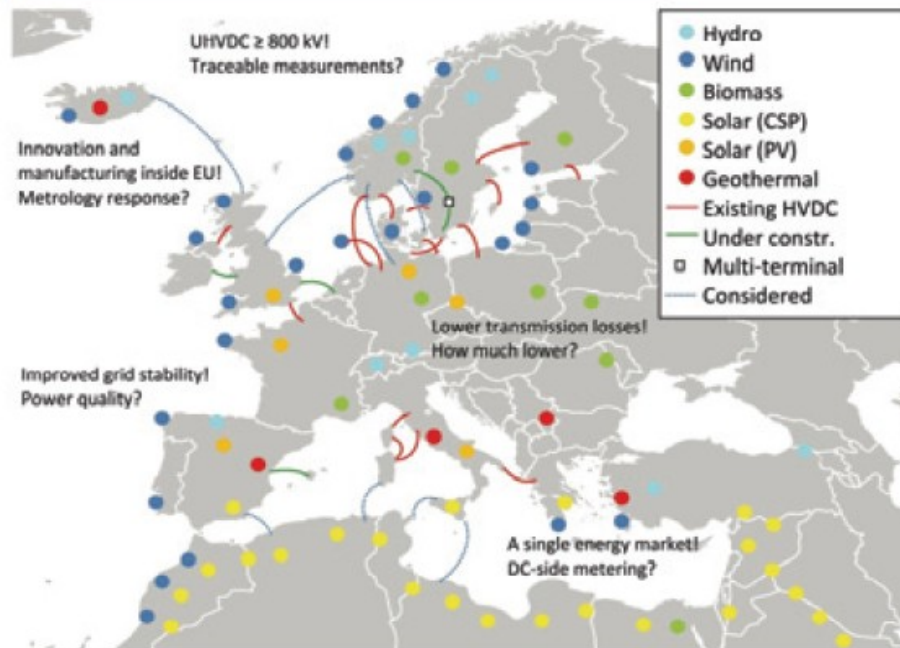


Metrology R&D budget - k€



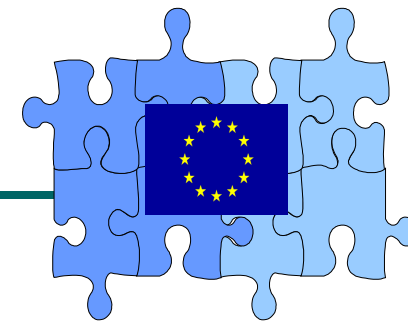


ENG07: Metrology for HVDC



HVDC – Renewables Highway

EMRP A169 ENG07 HVDC, Co-ordinator: SP (Sweden)



Development methodology

