



**21st COOMET COMMITTEE MEETING**  
**27th – 28th APRIL 2011**  
**YEREVAN, ARMENIA**

**European Cooperation in Legal Metrology**  
**W E L M E C**

**Nataša Mejak Vuković**  
**WELMEC Chairperson**



# Legal Metrology



## What is Legal Metrology?



VIML, point 1.2: “part of metrology relating to activities which result from statutory requirements and concern measurement, units of measurement, measuring instruments and methods of measurement and which are performed by competent bodies”

Legal metrology includes four main activities:

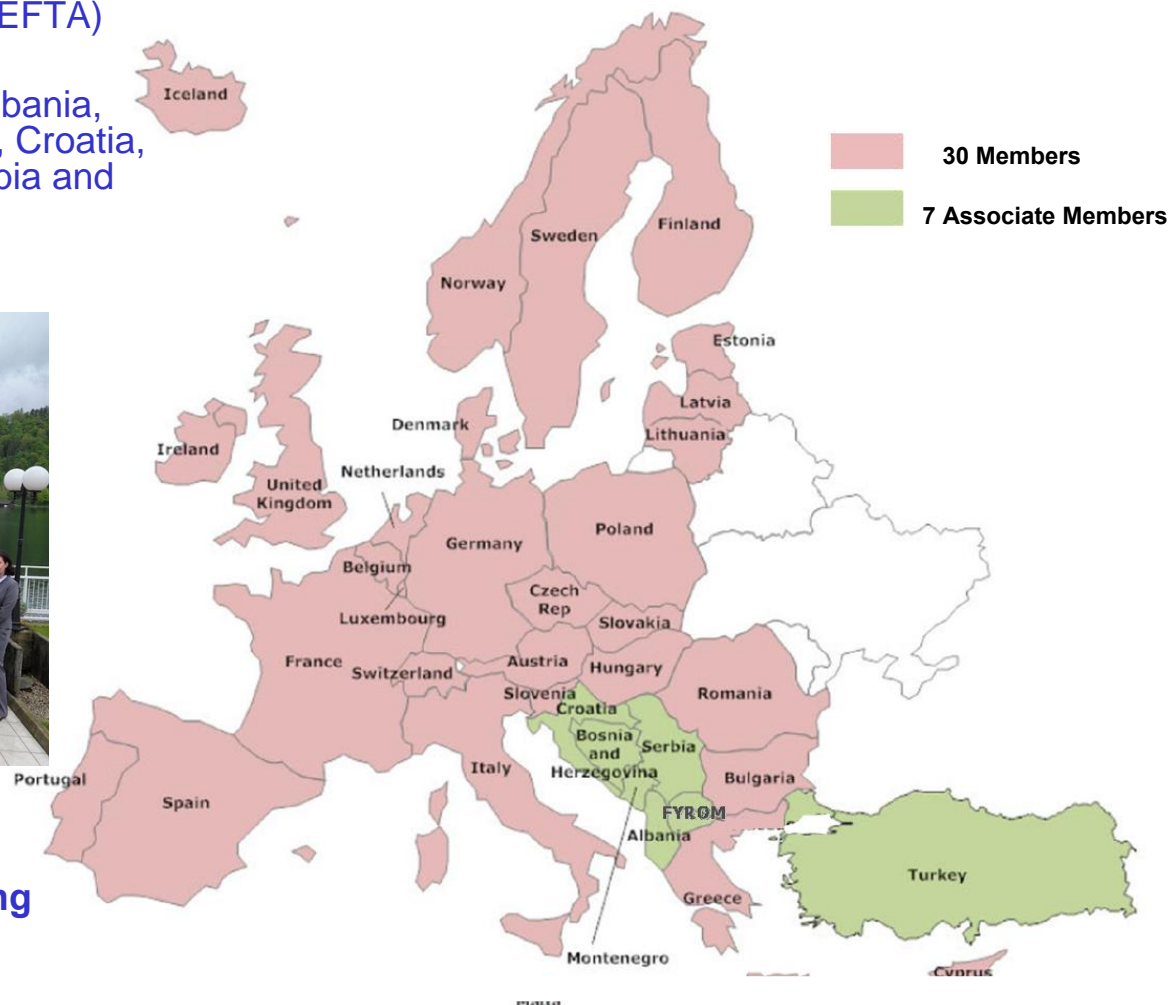
- Setting up legal requirements;
- Control/conformity assessment of regulated products and regulated activities;
- Supervision of regulated products and of regulated activities; and
- Providing the necessary infrastructure for the traceability of regulated measurements and measuring instruments

## WELMEC at present

- 30 Members (27 EU + 3 EFTA)
- 7 Associate Members: Albania, Bosnia and Herzegovina, Croatia, FYRM, Montenegro, Serbia and Turkey



**26th WELMEC Committee meeting  
6/7 May 2010 Bled, Slovenia**





## WELMEC objectives, vision and mission

### WELMEC VISION (what we aim to be)

WELMEC's vision is to be the primary source for trusted advice on legal metrology issues in Europe

### WELMEC MISSION (what we aspire to achieve)

WELMEC's mission is to develop and maintain mutual acceptance among its members and to maintain effective cooperation to achieve a harmonised and consistent approach to the societies needs for legal metrology and for the benefit of all stakeholders including consumers and businesses

### WELMEC MAIN OBJECTIVES

- Develop and maintain mutual confidence among legal metrology services
- Achieve and maintain harmonisation of practises (especially in the field of European directives)
  - facilitate exchanges of information
  - contribute to cancellation of barriers to trade



## WELMEC Goals



- Analyse and respond to the challenges of legal metrology
- Raise the profile of legal metrology
- Achieve and maintain the equivalence and harmonisation of legal metrology activities
- Facilitate the application of Regulation 764/2008/EC, the coordination of the market surveillance activities in relation to Regulation 765/2008/EC and the application of Directive on Services in the Internal Market
- Facilitate to meet member States obligations in relation to the exchange of information under MID and NAWI
- To seek support/assistance for WELMEC activities
- Support EU in helping EU neighbouring countries planning to align with EU legislation
- Improve the operational efficiency and effectiveness of WELMEC work



## Field of activity



MID is fully operational since **30 October 2006**

Article 25 of MID requires the Commission to report on its functioning on **30 April 2011** and if needed to adopt proposals for its improvement.

### **Public Consultation on the Review of MID from Sept. to Nov. 2010**

Objective of the consultation: altogether 44 WELMEC proposals among them 26 changes to the text of MID and 18 proposed new sectors as candidates for inclusion in MID

Target groups: Public authorities, private organisations, industry associations, SMEs, citizens, consumer organisations, trade unions

[http://ec.europa.eu/enterprise/sectors/legal-metrology-and-prepack/public-consultation/index\\_en.htm](http://ec.europa.eu/enterprise/sectors/legal-metrology-and-prepack/public-consultation/index_en.htm)



## Field of activity



### WELMEC work in relation to NAWI and MID

**54 guides** available free of charge on: [www.welmec.org](http://www.welmec.org)

- **WG 2:** guidance on NAWIs and AWIs in order to facilitate all aspects of implementation apart from inspection, enforcement and reverification
- **WG 4:** guide on decision in legal metrology (uncertainty)
- **WG 5:** market surveillance guide
- **WG 7:** software guides
- **WG 8:** application of modules, (corresponding tables OIML/MID), appointment and operation of notified bodies
- **WG 10:** to harmonize type examination and initial verification with respect of Measuring Systems for Liquids other than water
- **WG 11:** support of a harmonised European approach towards legal metrology issues with regard to utility meters



## WELMEC GUIDES



WELMEC Guides **are not a legally binding interpretation of the directive.** The legally binding text remains that of Directives

WELMEC Guides represent a reference for ensuring **consistent application** of the directives by all those involved.

Guidance documents are conceptual in their set-up and give a general context allowing to answer any questions of application that may arise.

WELMEC Guides present **no additional technical requirements** beyond EC Directives

WELMEC Guides **harmonise the best practice solutions**

WELMEC 1  
Issue 5

# WELMEC

European cooperation in legal metrology

WELMEC – An Introduction



January 2008





## WELMEC GUIDES



After consultation of the MI working group  
(Commission, MS and all stakeholders)  
and MID Committee

**WELMEC GUIDES**  
are recognised by European Commission  
as  
reference document for consistent  
application of the directives



see

[http://ec.europa.eu/enterprise/sectors/legal-metrology-and-prepack/measuring-instruments/index\\_en.htm](http://ec.europa.eu/enterprise/sectors/legal-metrology-and-prepack/measuring-instruments/index_en.htm)

for further information on the statement about cooperation with WELMEC and  
explanation about guides and their status

## Normative Documents

- MID opened a new EC route for presumption of conformity by using OIML Recommendations (**instead of only European harmonised standards**)
- Conditions and process :
  - identification of IR's and their requirements which give the presumption of conformity to the essential requirements of MID
  - advice of MI Committee
  - publication of references in EU Official Journal
- Publication of simplified tables in Official Journal of the EU:
  - JO 2006/C 269 of 4 November 2006:** OIML R49-1, OIML R49-2, OIML R75-1, OIML R75-2, OIML R117, OIML D11, OIML R51-1, OIML R61-1, OIML R107-1, OIML R50-1, OIML R106-1, OIML R29, OIML R66, OIML R136-1, OIML R129, OIML R99;
  - JO 2009/C 268 of 11 November 2009:** OIML R 21, OIML R 138, OIML R 137-1;
  - JO 2011/C 33/1 of 2 February 2011:** OIML R 51-1 2006, OIML R 117-1 2007 and OIML R 99-1 & 2 2008

The explanatory comments are detailed in WELMEC Tables of Correspondence published as WELMEC guidance documents





## Field of activity



### ➤ New Legislative Framework

**Regulation (EC) No 764/2008** laying down procedures relating to the application of certain national technical rules to products lawfully marketed in another Member State

**Regulation (EC) No 765/2008** setting out the requirements for accreditation and market surveillance to the marketing of products

**Decision No 768/2008/EC** on a common framework for the marketing of products

### ➤ **Directive 2006/123/EC** on Services in the Internal Market



## The principle of mutual recognition

### **Regulation (EC) No 764/2008** on mutual recognition

Scope: products which are not subject to Community harmonisation measures

applicable from 13 May 2009

binding and directly applicable in all Member States

Member State cannot prohibit the sale of products on its territory provided that they were lawfully placed on the market in another Member State of the EU, in the countries of the EEA or in Turkey without proper justification of a legitimate overriding national interest.

**Regulation concentrates on the burden of proof by setting out the procedural requirements for denying mutual recognition**



## WELMEC & Regulation (EC) No 764/2008



### WELMEC Strategy

WELMEC is prepared to facilitate the application of Regulation 764/2008/EC by providing the structured overview on nonharmonised instruments on the Welmec website in order to get the information which instruments are regulated in what country and their contact addresses for information

If necessary WELMEC will start to draft guidance on the application of the Regulation in relation to legal metrology



## Directive on services in the internal market

### Directive 2006/123/EC of 12 December 2006 on Services in the Internal Market

- Simplification of procedures and formalities that service providers need to comply with
- Removal of unjustified and disproportionate burdens
- Facilitation of the establishment of a business when setting up a permanent establishment in a Member State
- Facilitation of the cross-border provision of services when a business wants to supply services across borders in another Member State, without setting up an establishment there



## WELMEC – EA COOPERATION



### EA – WELMEC MEMORANDUM OF UNDERSTANDING signed in May 2009

[http://www.welmec.org/fileadmin/user\\_files/news/Mou\\_EA\\_WELMEC\\_FINAL\\_SIGNED.pdf](http://www.welmec.org/fileadmin/user_files/news/Mou_EA_WELMEC_FINAL_SIGNED.pdf)



- WELMEC guidance documents will, as far as applicable, be used by EA to set up harmonized guidance for the assessment and eventual accreditation of Notified Bodies, both in general and in the field of legal metrology in particular
- WELMEC has been accepted as a member of EAAB. WELMEC and EURAMET are now recognised as “Metrology College” that was established with the admission of EURAMET in EAAB
- WELMEC participates in the work of EA HHC



# ASSESSMENT OF NOTIFIED BODIES



- **General requirements for technical competence of CAB**  
**EN ISO/IEC 17025, 17020, EN 45011**
- **Sector specific requirements for technical competence of CAB – networks of directives**
  - 8.0 general on assessment and operation of NB performing CA in application of MID (for Modules B+F, B+D, H1 and G)
  - 8.4 Application of module D
  - 8.5 Evaluation of NB for type examination (based on EN 45011)
  - 8.7 Evaluation of NB for module F (based on EN 17020)
- **Knowledge of the requirements of Regulation No 765/2008**
- **An expert on legal metrology shall always be a part of the assessment team**
- **Member State shall carry out a minimum of supplementary actions besides the accreditation by itself – accreditation does not discharge the MS from its responsibility regarding the evaluation of competence, decision on appointment and surveillance of NB – AB accredit CAB, not NB**



## WELMEC – EURAMET COOPERATION

### WELMEC - EURAMET

#### MEMORANDUM OF UNDERSTANDING

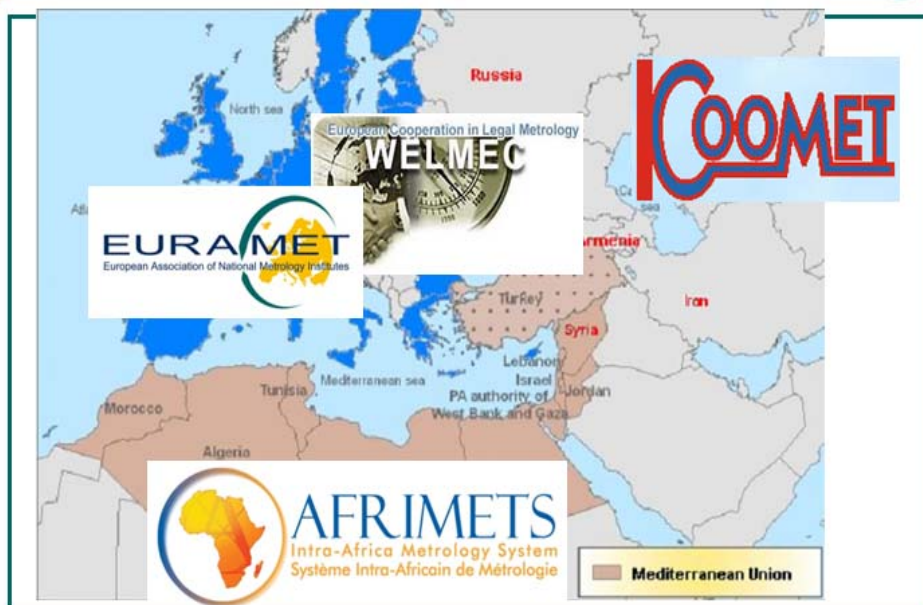
- to analyse which technical activities and/or documentary work could be developed jointly in order to avoid duplication of work and increase efficiency
- to exchange the expertise and experts for efficient execution of metrological projects



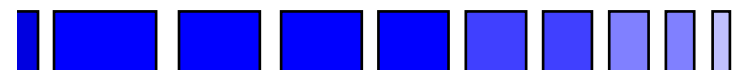
### EURAMET - WELMEC FOCUS GROUP ON FACILITATING NATIONAL METROLOGY INFRASTRUCTURE DEVELOPMENT

- to promote and develop the metrology infrastructure in the countries of the new and emerging EURAMET Members and Associates and WELMEC Associates by an increased cooperation and collaboration to achieve concentration and a synergetic and efficient use of competences and resources





Seminar "Metrology & Conformity Assessment", Brussels, 1 - 2 March 2010



16 European Neighbouring  
Policy countries (NMI plus  
Ministries) + Russia

Algeria, Armenia, Azerbaijan, Belarus, Egypt,  
Georgia, Israel, Jordan, Lebanon, Libya,  
Moldova, Morocco, Palestinian Authority,  
Syria, Tunisia and Ukraine



## TAIEX Seminar "Metrology & Conformity Assessment" Brussels, 1 – 2 March 2010

TAIEX, Technical Assistance Information  
Exchange Instrument of European  
Commission



## Seminar

# “LEGAL METROLOGY & EU DIRECTIVES NEW LEGISLATIVE FRAMEWORK”

3 – 4 November 2010, Zagreb, Croatia

in the framework of

**JOINT EURAMET – WELMEC Focus Group on Facilitating National Metrology  
Infrastructure Development**





## Workshop

### **“Operating Systems in Measuring Instruments and other software problems in Legal Metrology”**

**17-18 November 2010 at PTB in Berlin**

- **Experiences with the Application of WELMEC Guide 7.2**
- **The Challenge of Operating Systems Embedded in Measuring Instruments for Legal Metrology**
- **Different Software Validation Schemes – Impact on Costs and Quality**
- **Software and Enforcement**
- **Experiences from Specific Acceptable Solutions in applying WELMEC Guide 7.2**



## WELMEC and Standardisation



**Standardization Mandate M/441 of 12th March 2009 on development of an open architecture for utility meters**

**“Third Energy Package”**

**(Directive 2009/72/EC for electricity; Directive 2009/73/EC for gas) implementation of “intelligent metering systems that shall assist the active participation of consumers in the market”**



**W E L M E C is participating in**

**Smart Meters Co-ordination Group (SM-CG)**

**The general objective of the Mandate M/441 is to ensure European standards that will enable interoperability of utility meters (water, gas, electricity, heat), which can then improve the means by which customers’ awareness of actual consumption can be raised in order to allow timely adaptation to their demands**







**Thank you for your attention**

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