





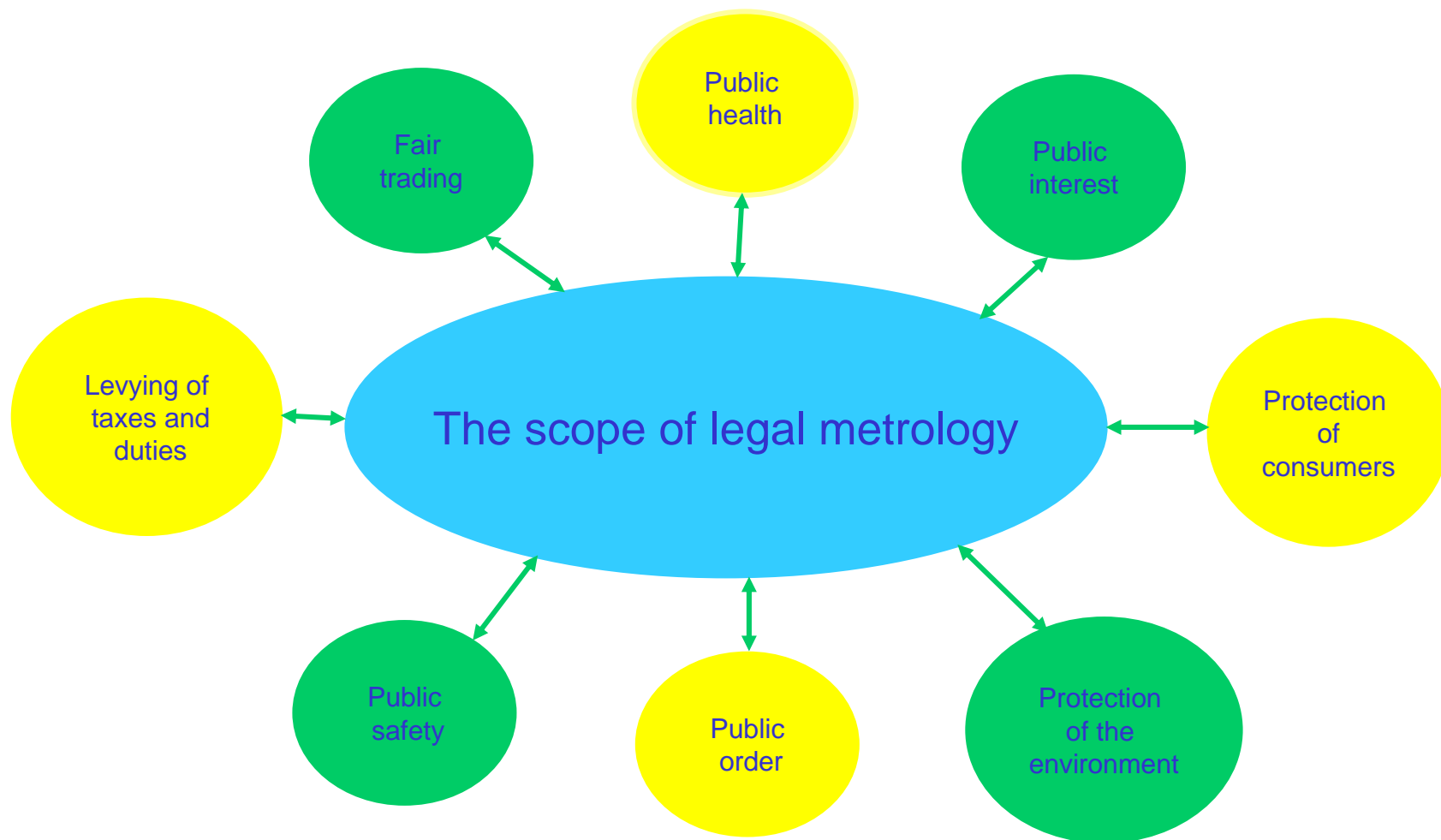
# What is Legal Metrology?

**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**





## Memorandum of Understanding signed on 8th of June 1990 in Bern, Switzerland

“**W**estern **E**uropean **L**egal **M**etrology **C**o-operation

**W E L M E C**



### Founding Members:

Austria, Belgium, Denmark, Finland,  
France, Germany, Iceland,  
Netherlands, Norway, Portugal,  
Sweden, Switzerland, UK

### MoU signed later in 1990 by:

Greece, Ireland, Spain

**The Type Approval Agreement  
signed on 28 September 1993**



## **WELMEC MAIN OBJECTIVES** as set out in the Memorandum of Understanding

- develop and maintain mutual confidence among legal metrology services
- achieve and maintain harmonisation of practises (especially in the field of European directives)
- identify any special features of legal metrology which need to be reflected in the European metrology, certification and testing framework
- organise the exchange of information for legal metrology applied at national and local level
- identify and promote the removal of technical or administrative barriers to trade in the field of measuring instruments
- identify specific technical problems which might be subjects for collaborate projects
- promote consistency of interpretation and application of normative documents and propose actions to facilitate implementation
- maintain working links with all relevant bodies and promote the infrastructure relating to harmonisation of legal metrology
- debate trends and establish criteria for the scope of legal metrology and maintain channels for continuous flow of knowledge

**in 2004: 10 new EU countries**

## **WELMEC**

**is a cooperation between legal  
metrology services of the Member  
States of EU and EFTA**



**Representatives of 10 new WELMEC Members after signing MoU in  
Časta Papiernička, Slovakia in 2004**



**Sinaia, Romania in 2007:  
signing of MoU by Bulgaria and Romania**

**in 2007: Bulgaria and Romania**



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



27th WELMEC Committee meeting  
12/13 May 2011 Valetta, Malta





**WELMEC Members** are MoU signatories from countries, which are members of EU or EFTA.

**WELMEC Associate Members** are MoU signatories from countries, which have signed the Stabilization and Association Agreement (SAA) with the European Union and its Member States

### **WELMEC Observers**

European Commission, European Free Trade Association (EFTA) Secretariat, European Accreditation (EA), European Standardisation Bodies (CEN, CENELEC, ETSI), International Organisation of Legal Metrology (OIML) and regional metrology organisations (RMOs) with an interest in legal metrology (EURAMET, APLMF, COOMET, EMLMF, AFRIMETS)

### **WELMEC Corresponding Organisations**

interested trade associations of manufacturers (CECIP, CECOD, AQUA, MARCOGAZ, FACOGAZ, CITEF, ORGALIME) or users of measuring instruments and consumer associations (ANEC, BEUC & COFACE). They are invited to participate at the meetings of relevant Working Groups





## **WELMEC STRATEGY DOCUMENT 2010**

### **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**

**The Strategy document's application and evolution will be reviewed regularly and new version issued in 2012**



## WELMEC STRATEGICAL 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



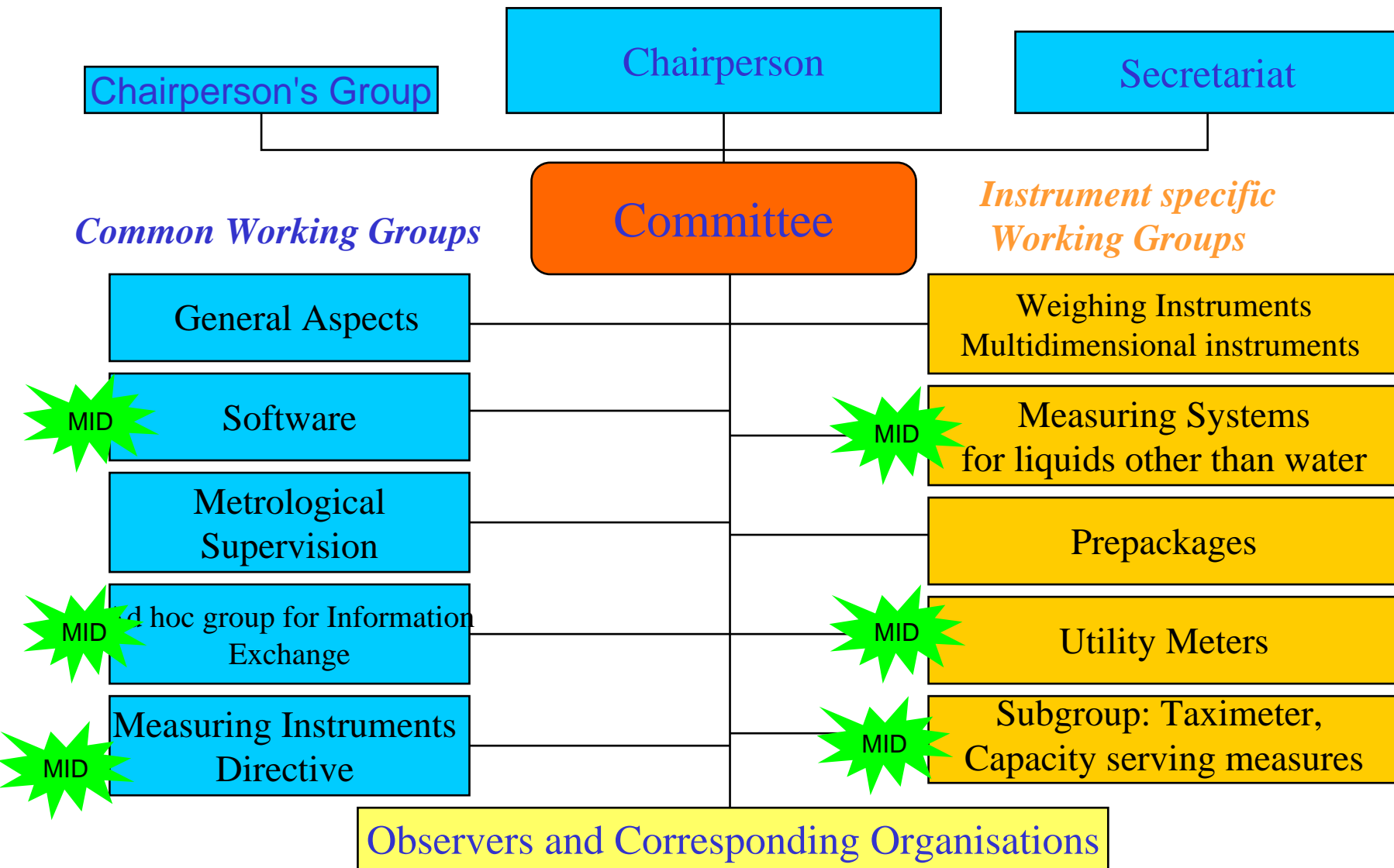
**Main Goal:** Achieve and maintain the equivalence and harmonisation of legal metrology activities

**Strategy:** To maintain and develop an effective networking system beneficial to all interested parties

**Initial Actions:** Identify and facilitate the removal of technical or administrative barriers to trade in the field of legal metrology(measuring instruments and prepacked products)

Exchange of experience and information between the national legal metrology bodies including the inspection of packaged goods, imported products, measuring instruments in use, control of instruments in service the correct use of instruments, prevention of fraud and protection of the consumers

**Future actions:** Intensify the exchange of experience and information between the national legal metrology bodies



## **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





## Country Info contains

- Organisational Structure and Background
- Equipment Subject to National Controls
  - Type Approval
- Initial Verification, Inspection and Reverification
  - Legal Metrology Practitioners
    - Sanctions
  - Directive 2009/23/EC
  - Directive 2004/22/EC (MID)
  - Date of the last update



**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**

**If some specific points of the Guide are not followed, reference to it may be made provided that these specific points are clearly identified and reasons for given**

WELMEC 1  
Issue 5

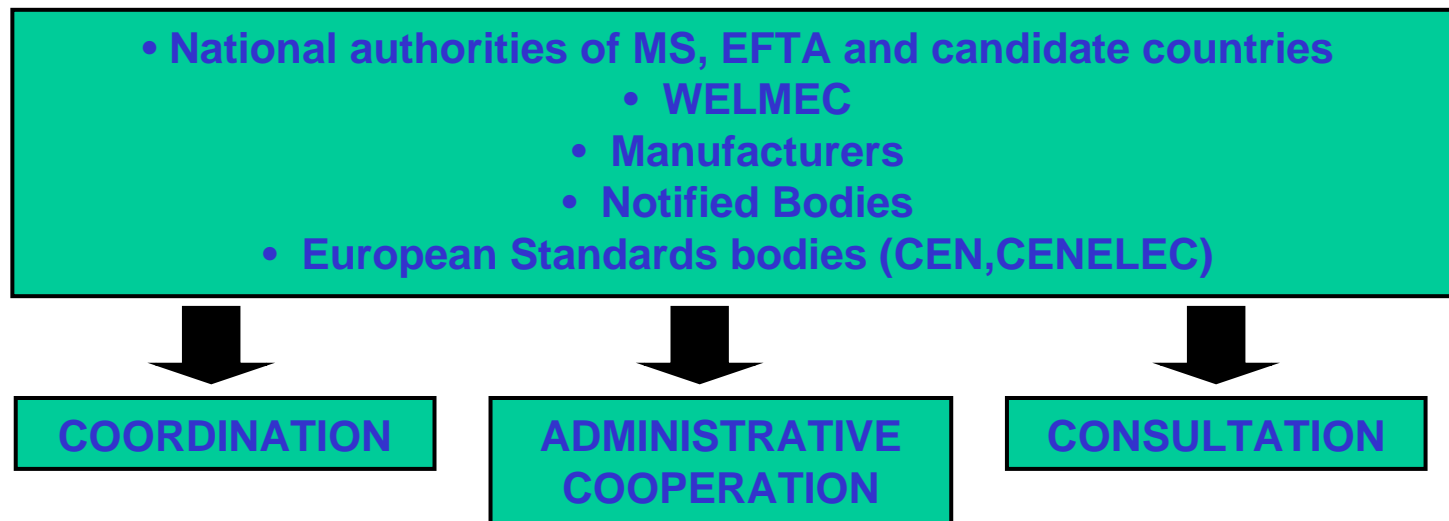
**WELMEC**

European cooperation in legal metrology

**WELMEC – An Introduction**



January 2008



Guidance documents  
Reports (e.g. revision)

Preparation of measures to be adopted under the Comitology procedures  
Endorsement standards programs, preparation of mandates  
Exchange of info and feedback on implementation MID  
Monitoring of and feedback on OIML /MID related issues



**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**



- 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





to provide conformity with  
essential requirements of MID and  
to enable conformity to be assessed



JO 2007/C162 of 14 July 2007  
(gas meters, heat meters, water meters)  
JO 2008 /C47 of 20 February 2008  
(electricity metering equipment)





## **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 plans to collect the information on the implementation of Directive on Services in Member States**

## 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**



## 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**





**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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