



International Organization of Legal Metrology

Organisation Internationale de Métrologie Légale

Developing a Common Vision for Scientific and Legal metrology: The OIML Perspective

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26. CGPM, 15 November 2018
Versailles, France





Outline

- **What is the OIML?**
- **The OIML Mission**
- **Current Priorities and Activities**
- **Towards a Common Vision**





What is the OIML?

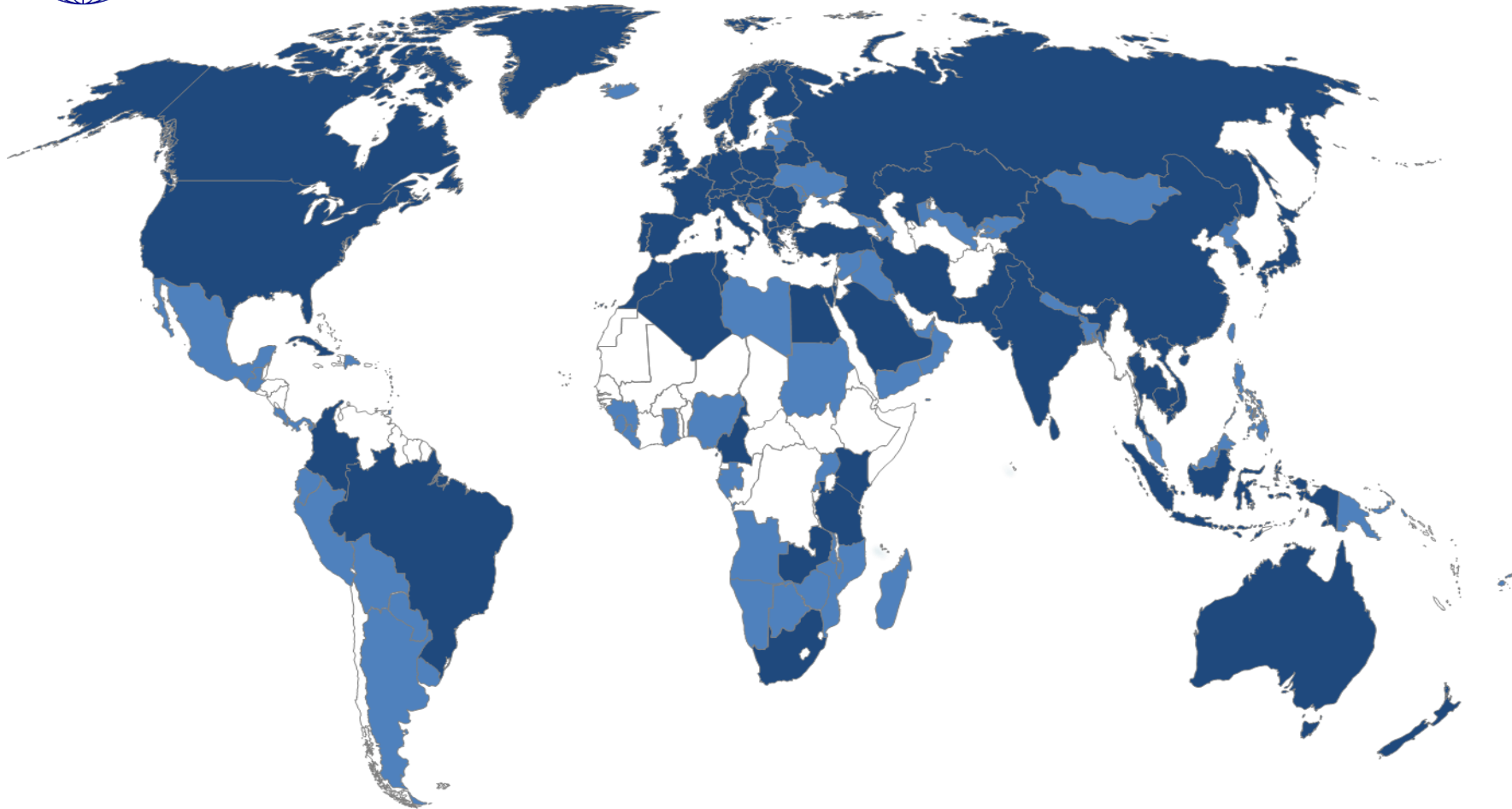
- **An Intergovernmental Treaty Organization**
- Established in 1955
- 23 Charter Members
- 1st International Conference on Legal Metrology in 1956

- **An "International Standards-Setting Organization"** under the terms of the WTO/TBT Agreement
- OIML publications should be applied, when appropriate, by all signatories of the TBT Agreement when developing technical regulations





OIML Membership



www.oiml.org

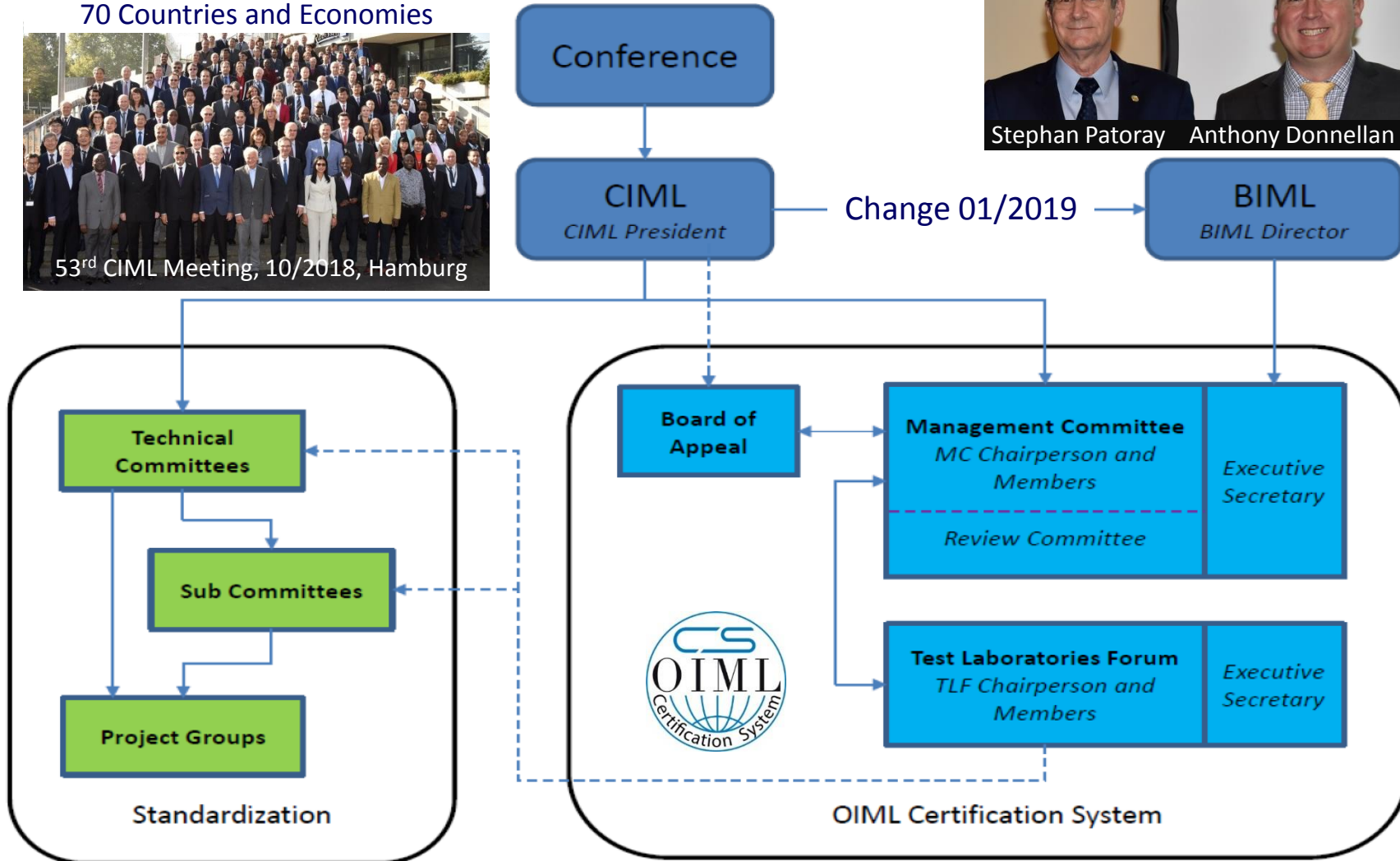
-  62 OIML Member States
-  65 OIML Corresponding Member Countries / Organizations





OIML Structure

180 Participants from
70 Countries and Economies





The OIML Mission



... is to

- enable economies to put in place **effective legal metrology infrastructures**
- that are **mutually compatible** and **internationally recognized,**
- for all areas for which **governments** take responsibility,
- such as those which **facilitate trade,**
- **establish mutual confidence** and
- **harmonize the level of consumer protection worldwide.**

(OIML Strategy, B 15:2011)





OIML Stakeholders



Customers,
Users



Regulatory
Bodies



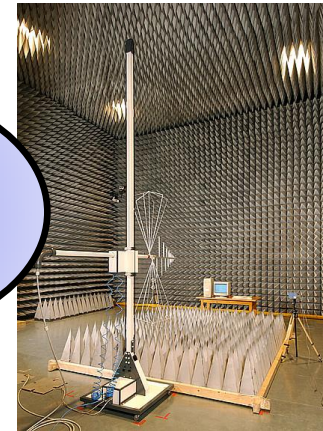
Manu-
facturers

Measuring Instruments



Field
Inspection +
Supervising
Bodies

Test Labs +
Certification
Bodies



... in the age of globalization and digitization





Relevance of OIML for Regulatory Bodies

- OIML develops / provides model regulations, technical standards and relevant **International Documents** for use by legal metrology authorities and manufacturers in support of the **WTO / TBT Agreement**.



Examples:

- Document D 1:2012
Considerations for a Law on Metrology
- Document D 2:2007
Legal Units of Measurement
- Document D 9:2004
Principles of metrological supervision





Current Priorities of the OIML

PRIORITiES



- On-going **technical activities**
- Increase **speed and efficiency of OIML technical work**
- Increase awareness of stakeholders for the new **OIML Certification System (OIML-CS)**
- Meeting the needs of **Countries and Economies with Emerging Metrology Systems (CEEMS)**
- Closer cooperation with other **international organizations**, notably the **Metre Convention, to promote metrology** as an important part of a sound **quality infrastructure (QI)** of a modern economy
- Challenge:
Digitization of Economy and Society in a **globalized world**



Technical work

- 18 Technical Committees
- 45 Sub Committees
- 49 Project Groups



Outcome

- over 100 Recommendations
- 27 Documents
- 14 Basic Publications
- 2 Vocabularies
- 18 Guides





Relevance of OIML for Manufacturers

OIML develops / provides **International Recommendations and Documents** that ...



- harmonize **metrological and technical requirements** for measuring instruments (MI) worldwide
- foster **innovation** and support **global trade** in MI
- harmonize **test procedures** for MI
- facilitate harmonized **testing and certification** of MI
- enable **mutual recognition** of test data
- form the basis for **Certification Systems**





Supporting Global Trade



Vision: „Tested once, accepted everywhere!“





The new OIML-CS



- **Launched on 1.1.2018**
- Is a **Single Certification System** based on ISO/IEC 17025, ISO/IEC 17065 and OIML Recommendations
- Replaces the **previous Basic and MAA Systems**
- Covers **19 Measuring Instrument Categories** up to now
- Further **18 categories** will be added 2019/2020
- Includes **12 OIML Issuing Authorities** so far
- Includes **23 Utilizers and Associates** up to now (Member States and Corresponding Members)





Measuring Instruments under the OIML-CS (Examples)



- R 46 Energy Meters
- R 51 Catchweigher
- R 49 Water meters
- R 76 Non-Automatic Weighing Instruments
- R 117 Fuel dispensers
- R 137 Gas Meters





Towards a common vision



Two different **Metrology Organizations ...**

... with **complementary missions,**

... with **common denominators,**

... with **increasing collaboration,**

... which **together** represent the **whole spectrum**
of scientific, industrial and legal metrology.





Towards a common vision



The BIPM Perspective:

(Quote from the 2020-2023 Draft BIPM Work Programme)

"...The BIPM staff and the BIML (the bureau of the OIML) have worked increasingly closely in recent years.

This trend continues.

Whilst the missions of the two organizations are complementary, both now present an integrated description of the worldwide metrology infrastructure, and its benefits."





Global Quality Infrastructure (QI)



Metrology



Standardization



QI

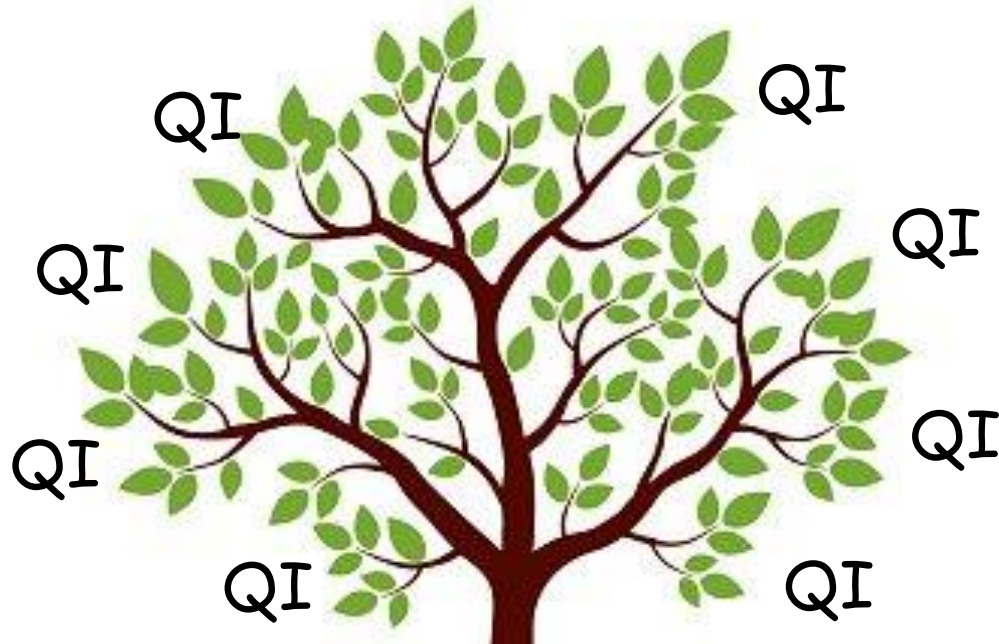


Accreditation



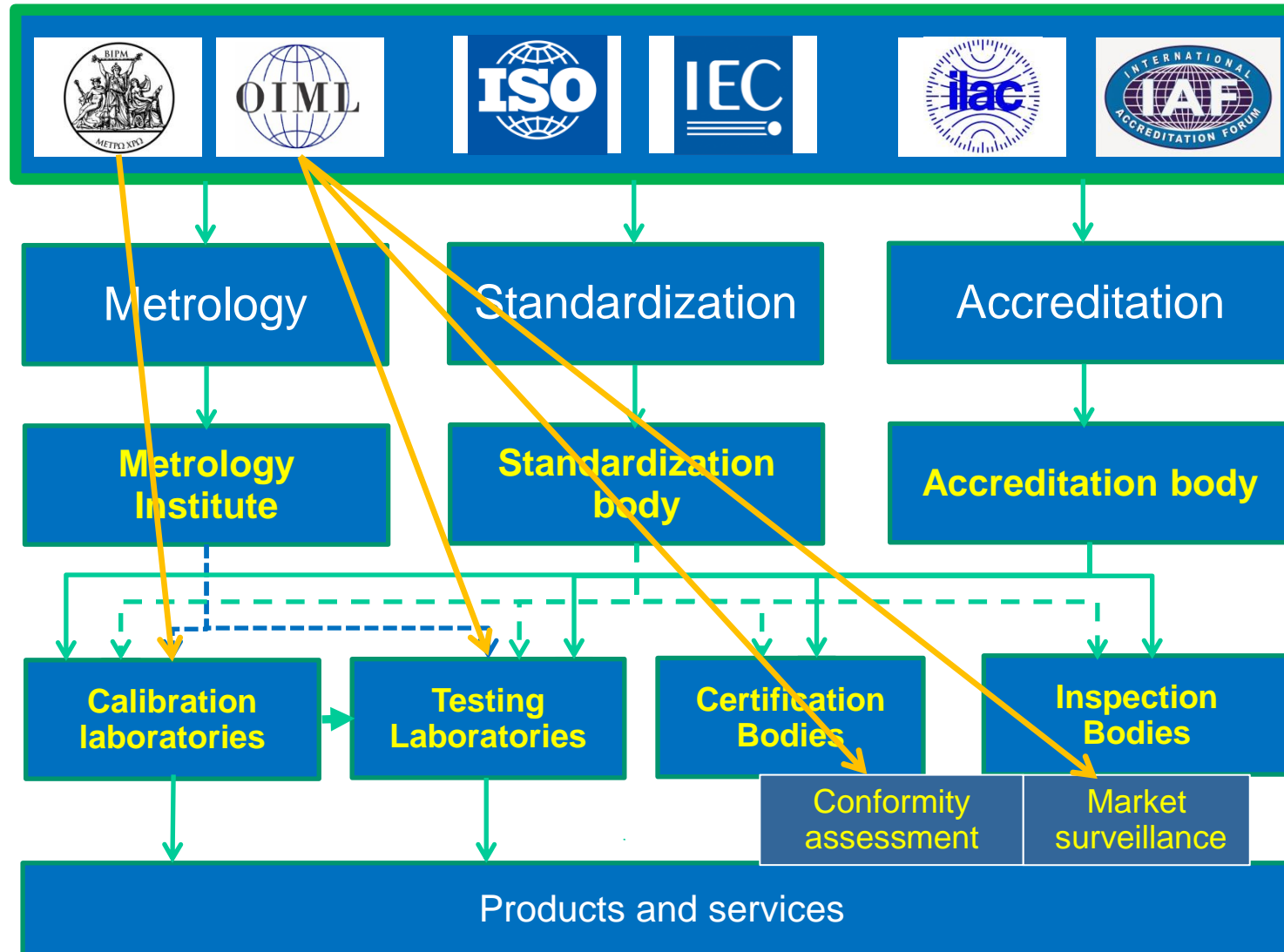


Quality Infrastructure (QI)





Global Quality Infrastructure





Common denominators



- **Trust** in measurement results
- **Traceability** of measurements
- Promoting free trade - eliminating **technical barriers to trade** (WTO/TBT)
- **Minimizing costs and work load** for the actors on the market
- Promoting '**awareness raising**' as regards the **importance of metrology** and providing information for **decision makers**
- Engagement with the **Global Quality Infrastructure capacity building** community





Existing Collaboration (1)



- **Bilateral relationship** (without MoU), and through the **BIPM-OIML-UNIDO MoU** (signed 2008)
- **Annual bilateral and multipartite meetings** at senior level (2018: revision of 'Joint BIPM, OIML, ILAC and ISO Declaration on Metrological Traceability')
- **Periodical meetings between the Directors of BIPM and BIPM** and the senior staff, to address both technical matters and organizational matters of common interest to the two organizations
- **World Metrology Day** = joint initiative, website hosted by the OIML





Existing Collaboration (2)



- **DCMAS Network**, which is being **renamed to INetQI**, and drafting of a definition of the **Quality Infrastructure**
- Participation of BIPM in the **OIML CEEMS Advisory Group**
- Contribution of BIPM in the revision of the **OIML Document D1**
- Participation of OIML in the **JCGM, WG1 (GUM), WG2 (VIM) and CCU**
- BIPM lecturing on **BIPM CBKT courses**





The OIML Perspective:

- Focus on **common denominators** and '**strong points**'
- Explore opportunities for an '**holistic approach**' to jointly and coherently promote '**metrology**' (scientific, industrial, legal) as a **key element** of a sound **quality infrastructure** of a modern economy
- Obvious opportunity: **Joint CEEMS / CBKT activities** (use of new 'QI toolkit' published by the World Bank?)
- Joint development of **e-learning material?**

e-Learning Platform





Towards a common vision



The OIML Perspective (cont.):

- Future / further development of the **Joint Web Portal?**

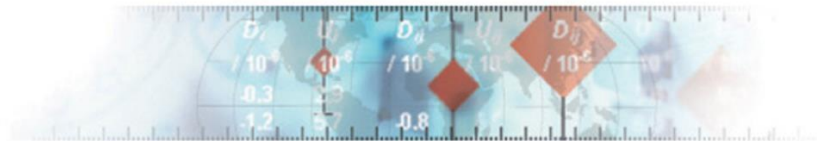
Welcome to the
Joint BIPM-OIML
Web Portal



www.metrologyinfo.org



www.bipm.org



www.oiml.org

General Information

- World Metrology Day
- About Metrology
- The World Metrology System
- Metrology and the Environment
- Metrology and Trade
- Metrology and Health
- Metrology and Safety
- Impact Studies

The BIPM

- Introduction
- Role and Work
- Global Coordination - CIPM MRA
- BIPM and other Organizations

The OIML

- Legal Metrology
- Information and Harmonization
- Certification and Recognitions

BIPM-OIML Resource Center

The BIPM-OIML Resource Center is jointly operated by the Bureau International des Poids et Mesures (BIPM) and the International Organization of Legal Metrology (OIML).

Its objective is to provide metrologists and key metrology decision makers worldwide with information about metrology, why it is needed and how everyone benefits from accurate measurements be it on an individual or multi-national basis.

This site also serves as a portal to the two Organizations' web sites, and provides useful links to other related Organizations dealing with metrology.

Metrology: The Science of Measurement
www.metrologycareers.com



The OIML Perspective (cont.):

- Future / further development of the **Joint Web Portal?**
- Time to (re)consider **the trilateral or a new bilateral MoU?**

➤ **Proposal to explore opportunities in a Joint Task Group**





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**Thank you for
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