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

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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
180 Participants from 70 Countries and Economies

OIML Structure

53rd CIML Meeting, 10/2018, Hamburg

Conference

CIML
CIML President

Change 01/2019

BIML
BIML Director

Technical Committees

Sub Committees

Project Groups

Standardization

Board of Appeal

Management Committee
MC Chairperson and Members
Review Committee

Executive Secretary

Test Laboratories Forum
TLF Chairperson and Members

Executive Secretary

OIML Certification System
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

Measuring Instruments

Regulatory Bodies

Manu-facturers

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

- 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 Activities

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
- Accreditation

Logos of various organizations such as OIML, UNIDO, OECD, IEC, and others related to quality infrastructure.
Quality Infrastructure (QI)

- Harmonized Standards
- Harmonized legal regulations & mutual recognition
- Traceability to the SI & mutual recognition
- Harmonized procedures as regards the competence of test labs & certification bodies
Global Quality Infrastructure

- Metrology
- Standardization
- Accreditation

- Metrology Institute
- Standardization body
- Accreditation body

- Calibration laboratories
- Testing Laboratories
- Certification Bodies
- Inspection Bodies

- Conformity assessment
- Market surveillance

Products and services
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 BIML 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**
- BIML lecturing on **BIPM CBKT courses**
Towards a common vision

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**?
Towards a common vision

The OIML Perspective (cont.):

- Future / further development of the Joint Web Portal?
Towards a common vision

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 your attention!

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