



Report on current OIML activities

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President CIML

16th EURAMET General Assembly

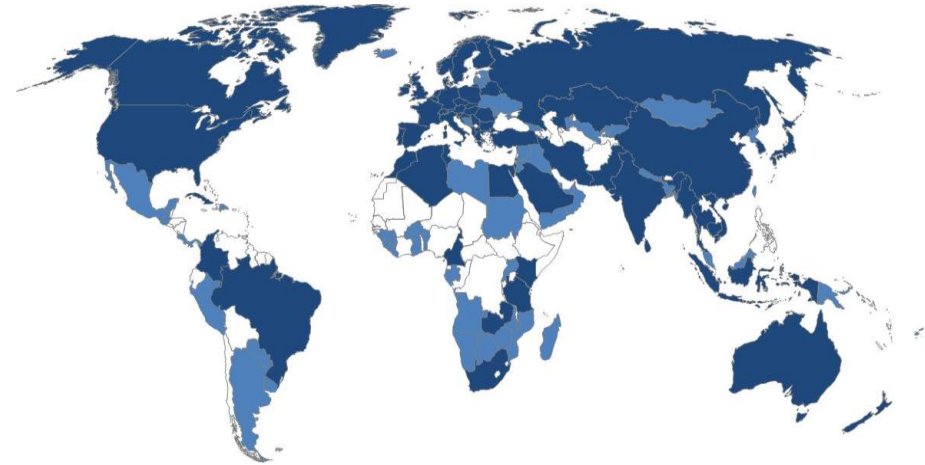
31 May 2022, Vienna





What is the OIML?

- **An Intergovernmental Treaty Organization**
- Established in 1955
- 63 Member States
- 63 Corresponding Members



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





Major fields of activity of the OIML

- Technical Work:
 - 18 TCs / 45 SCs / \approx 50 Project Groups
 - Global harmonization of metrological requirements and test procedures (eg. R 76: Non-Automatic Weighing Instruments)
- OIML Certification System (OIML-CS):
 - 38 MI categories / 12 Issuing Authorities / 32 Utilizers
 - Global harmonization of conformity assessment procedures and mutual recognition of test results
- Support of Countries & Economies with Emerging Metrology Systems (CEEMS)
- International Cooperation (QI, WHO, RLMOs, ...)



Measuring Instruments under the OIML-CS

Examples (with MID relevance):

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





Current activities beyond the MID context

Legal metrology and health



Existing OIML Recommendations (selection):

- R 145:2015 Ophthalmic instruments - Impression and applanation tonometers
- R 149:2020 Non-invasive automated sphygmomanometers

Current projects (selection):

- TC 18/SC 2/p 3: New Recommendation for non-contact clinical thermometers (incl. contactless near-infrared thermometers used e.g. for COVID-19 checks)
- TC 18/SC 1/p 6: Revision of R 149:2020 Non-invasive automated sphygmomanometers





Current activities beyond the MID context

Legal metrology and the environment



Existing OIML Recommendations (selection):

- R 116:2006 Inductively coupled plasma atomic emission spectrometers for the measurement of metal pollutants in water
- R 144:2013 Instruments for the continuous measurement of CO and NO_x in stationary source emissions

Current project:

- TC 16/SC 1/p 4: New Recommendation “Instruments for measuring the vehicle exhaust soot particle number (PN)”





Digital transformation of metrology

World Metrology Day



Challenges for metrology / legal metrology:

- “Smart”, modular, complex measuring instruments / systems
- Digital transformation of calibration / testing / conformity assessment / certification processes
- “Smart”, machine-readable standards
- Sound regulatory basis to ensure trust
- Metrology activities are part of other relevant QI activities → cooperation





Activities related to digital transformation (1)

- **Close cooperation with other QI stakeholders**
on the basis of the “Joint Statement of Intent” signed on 30 March 2022,
see <https://www.oiml.org/en/about/joint-declarations>

Signing of a Joint Statement of Intent

On the digital transformation in the international scientific and quality infrastructure

The International Organization of Legal Metrology (OIML), the International Bureau of Weights and Measures (BIPM), the International Measurement Confederation (IMEKO), the International Science Council (ISC) and its Committee on Data (CODATA) signed a Joint Statement of Intent *On the digital transformation in the international scientific and quality infrastructure* (Joint Statement) on 30 March 2022.

The Joint Statement provides a platform for the signatory organisations to come together to indicate their support, in ways that are appropriate to each particular organisation, for the development, implementation, and promotion of the SI Digital Framework as part of a wider digital transformation of the international scientific and quality infrastructure. Other international organisations are expected to sign the Joint Statement in the future.

The OIML is openly and actively engaging in the digital transformation of legal metrology. This has been recently demonstrated by the creation of the OIML Digitalisation Task Group. This Task Group, which consists of 15 OIML Members and international and regional organisations, is a new horizontal group of the OIML which will support the digital transformation of legal metrology processes and services and support, promote and coordinate the international harmonisation and implementation of digital transformation in legal metrology. By signing the Joint Statement, the OIML signals its support of the principles contained in it and provides a frame of reference for the OIML Digitalisation Task Group.

The Joint Statement also supports the 2022 World Metrology Day theme, *Metrology in the Digital Era*. This theme was selected because digitalisation and digital transformation are part of our community and are of interest to all the Members of the OIML and our various stakeholders.

In signing the Joint Statement, the OIML aims to continue to support the objectives of its 125 Members.



◀ Signing of the Joint Statement of Intent

Clockwise from top left:

Wynand Louw, CIPM President (on behalf of the BIPM)
Mathieu Denis, ISC Science Director and Acting CEO
Barend Mons, CODATA President
Roman Schwartz, CIML President (on behalf of the OIML)
Frank Härtig, IMEKO President





Activities related to digital transformation (2)

■ New OIML Digitalisation Task Group

- Established in February 2022
- 20 participants from 12 OIML Member States,
2 Corresponding Members, 2 Organisations in Liaison (CECIP, IEC)

■ Major objectives:

- To support the digital transformation of legal metrology processes and services, and make respective proposals to the CIML, taking account of the main areas of OIML's activities (...), and the interests of OIML Members and stakeholders;
- To support, promote and coordinate the international harmonisation and implementation of digital transformation in legal metrology in close cooperation with representatives of international and regional organisations in the scientific and quality infrastructure (QI), based on the respective Joint Statement of Intent.





Cooperation with the BIPM



■ OIML-BIPM Joint Task Group

- Established in October 2020
- Participants: CIML and CIPM Presidents, BIML and BIPM Directors, CIML First Vice President, CCM President

■ Major strategic objectives

- To foster enhanced cooperation between BIPM and OIML
- To figure out and use synergy effects (e.g. in the field of e-Learning)
- To jointly represent metrology (“one single voice for metrology”)

■ Major strategic task

- To develop and promote a common vision and a common holistic concept of metrology as a key element for the active promotion of the quality infrastructure concept



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Thank you!



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