



Item 4.3:

Report on the work of the OIML-BIPM Joint Task Group

1 Introduction

The OIML enjoys good relationships with the BIPM, and the two international metrology organisations have complementary tasks which cover the entire fields of legal, scientific and industrial metrology. On the basis of Decision CIPM/109-15 and CIML Resolution 2020/6 a new OIML/BIPM Joint Task Group (JTG) has been established to foster enhanced cooperation in order:

- to facilitate both organisations in better serving their Member States, and
- to make both organisations more attractive to states that do not currently participate in the activities of either or both organisation(s).

The agreed **Terms of Reference of the JTG** are attached as **Annex 1** to this report.

2 Members

The current JTG members are: the CIML President, Dr Roman Schwartz, the CIPM President, Dr Wynand Louw, the CIML First Vice-President, Dr Charles Ehrlich, the CIPM Member, Dr Philippe Richard, the BIML Director, Mr Anthony Donnellan, and the BIPM Director, Dr Martin Milton.

3 Objectives

The **strategic objectives** of the JTG are:

- 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, and
- to improve the visibility of, and enable better promotion of, metrology to governments and government officials responsible for QI.

The **operational objectives** of the JTG are:

- to explore opportunities for, and make concrete proposals for, an enhanced cooperation between the BIPM and the OIML, beyond the existing good cooperation, and
- to share resources (e.g. IT, legal advice, HR, finance, international liaison and communication) as far as possible and sensible.

4 Current tasks

The current tasks of the JTG are:

- to consider and make concrete proposals as regards the use / joint development of e-learning tools and a joint e-learning platform,
- to collaborate in the promotion of World Metrology Day to UNESCO (the United Nations Educational, Scientific and Cultural Organization) to achieve designation as a “UNESCO World Metrology Day”, and
- to consider / draft a bilateral BIPM-OIML MoU within the given framework of the Conventions of the two organisations.

5 Meetings

Following the CIPM and CIML meetings in 2020 the JTG has held four online meetings:

- Regular JTG meeting 1 on 15 December 2020;
- Extraordinary JTG meeting on 20 January 2021 in order to prepare for the CIPM Workshop, 22–26 February 2021;
- Regular JTG meeting 2 on 11 March 2021;
- Regular JTG meeting 3 on 11 June 2021;
- Regular JTG meeting 4 on 29 September 2021.

6 Action plan

The JTG agreed on an action plan, covering the categories “Regular meetings”, “Mutual representation”, “one single voice for metrology”, “OIML-BIPM bilateral MoU” and “Share resources and experiences”, where the various actions in each category are prioritised (from 1 = high priority to 3 = low priority).

At each JTG meeting the action plan is considered, high priority actions are discussed and agreed, and the action plan is updated respectively.

In 2021 the focus of the JTG was on:

- the establishment of an **action plan**, with prioritisation of actions;
- the digital transformation of metrological processes and activities, the development of a respective draft Joint Statement, if possible, in cooperation with other stakeholders in the field of quality infrastructure (QI) such as ISO, IEC, ILAC and IAF, and presentation of the JTG position at the CIPM Workshop “The SI and FAIR digital data” (22–26 February 2021) and the OIML webinar “Digital transformation of legal metrology” (5 May 2021). The current version of the **draft Joint Statement of Intent** on the digital transformation in the international scientific and quality infrastructure is attached as **Annex 2** to this report; and
- the joint preparation of **World Metrology Day 2021** under the theme of “Measurement for Health”.

7 Proposals for consideration at the 56th CIML meeting and the 16th International Conference

- 1) The CIML is asked to confirm its support for the CIML President to sign the final version of the above-mentioned **Joint Statement of Intent**, and for inviting other relevant QI stakeholders, such as CODATA, ISO, IEC, ILAC, IAF, and IMEKO, to also sign that statement.
- 2) The CIML is asked to confirm its support for the JTG to consider and draft a bilateral BIPM-OIML MoU.
- 3) The CIML and the International Conference are asked to confirm their support for the JTG to start preparing a joint BIPM-OIML event on the occasion of the 150th anniversary of the Metre Convention and the 70th anniversary of the OIML in the year 2025 (see CIML agenda item 17.3).

Annex 1

Terms of Reference of a Joint Task Group (JTG)

(Final version as agreed and approved by the CIPM and the CIML in October 2020)

Based on the Decisions CIPM/108-05 and CIPM/109-15, and CIML Resolutions 2019/12 and 2020/6, the aims, objectives and tasks for a JTG are as below.

The aim of the Joint Task Group is to foster enhanced cooperation between the BIPM and the OIML in order:

- to facilitate both organisations in serving their Member States better, and
- to make both organisations more attractive to states that do not currently participate in the activities of either/both organisation(s).

The strategic objectives of the JTG are:

- 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, and
- to improve the visibility of, and enable better promotion of, metrology to governments and government officials responsible for QI.

The operational objectives of the JTG are:

- to explore opportunities for, and make concrete proposals for, an enhanced cooperation of the BIPM and the OIML, beyond the existing good cooperation, and
- to share resources (e.g. IT, legal advice, HR, finance, international liaison and communication) as far as possible and sensible.

Current tasks:

- to consider and make concrete proposals as regards the use / joint development of e-learning tools and a joint e-learning platform,
- to collaborate in the promotion of World Metrology Day to UNESCO to achieve designation as a “UNESCO World Metrology Day”,
- to draft a bilateral BIPM-OIML MoU within the given framework of the Conventions of the two organisations and the existing locations in Sèvres and Paris-Nord, respectively.

Membership / Participants:

- CIPM/BIPM: Dr Wynand Louw, Dr Philippe Richard, Dr Martin Milton
- CIML/BIML: Dr Roman Schwartz, Dr Charles Ehrlich, Mr Anthony Donnellan

Annex 2

Draft Joint Statement of Intent

On the digital transformation in the international scientific and quality infrastructure

Recognising that

- governments, industry, academia, and civil society have been working toward comprehensive digital transformation for many years, and, in so doing, are increasingly
 - establishing systems to collect, aggregate, analyse and interpret digital data
 - introducing networked sensor systems for diverse scientific and industrial applications;
 - sharing data at local, national, regional and international scales;
- the scientific community has made significant progress in establishing reliable foundations for digital data interchange and management; including the FAIR principles for data management and stewardship;
- the organisations of the international quality infrastructure (metrology, accreditation, standardization and conformity assessment) have a critical role working together to ensure sustainable economic development;
- the International System of Units (SI) plays a particular role in the international quality infrastructure providing confidence in the accuracy and global comparability of measurements needed for international trade, manufacturing, human health and safety, protection of the environment, global climate studies and scientific research;
- maintaining this confidence in the accuracy and global comparability of measurements will require the creation & adoption of a full digital representation of the SI, including robust, unambiguous, and machine-actionable digital representations of units of measurement and of measurement results and uncertainties;
- progress on global challenges such as this requires the participation of, and critical thinking from, diverse communities;
- successfully effecting such a comprehensive digital transformation for metrology and ensuring its benefits are fully realised will require the active participation of a wide range of stakeholders; particularly other members of the International Quality System (can add list of potential signatories here)



56 CIML Addendum 4.3

2021-09-30

We the undersigned undertake to support in a way appropriate to each organisation the development, implementation, and promotion of the SI Digital Framework as part of a wider digital transformation of the international scientific and quality infrastructure.

Agreed <date> <year> by

- BIPM*
- CIPM*
- CODATA*
- OIML*
- ISO*
- IEC*
- ILAC (IAF)*
- IMEKO*
- Organisation/Committee 4*
- Organisation/Committee 5*