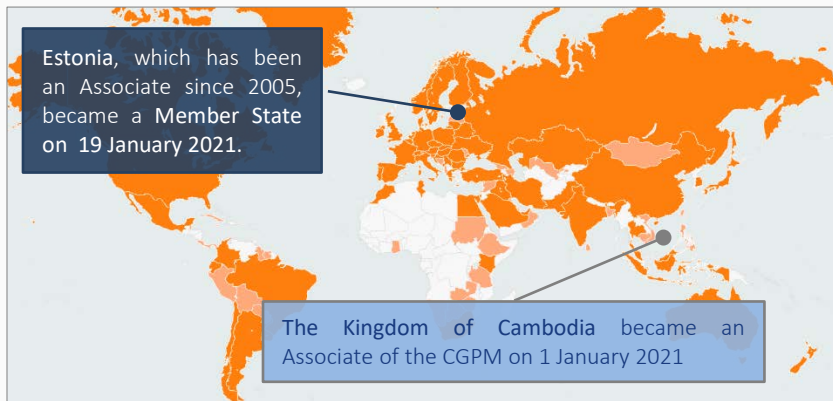


Members and Associates (March 2021)



- 63 Member States* and
- 39 Associates of the CGPM
(States and Economies)

** The official term is "States Parties to the Metre Convention"; the term "Member States" is its synonym and used for easy reference.*



260 Institutes participating in the CIPM MRA

- 102 National Metrology Institutes
 - 63 Member States
 - 39 Associates
- 4 International organizations
(ESA, IAEA, JRC, WMO)
- 154 Designated Institutes = 152 (national) + 2 (IO)

1 710 comparisons
1082 KCs, 628 SCs

25 728 CMCs
Peer-reviewed declarations

Welcome to BIPM e-Learning

...aims to provide online assistance to NMI/DI staff from Member States and Associates to strengthen their capabilities, including their involvement in the CIPM MRA mechanisms

Useful Links

- ABOUT THE BIPM CBKT
- HELP ON THE KCDB
- METROLOGY FOR SAFE FOOD
- METROLOGY FOR CLEAN AIR
- THE BIPM

Available courses

...launched on 26th April.

Tweets by @BipmMedia

- BIPM** @BipmMedia
The virtual workshop "The International System of Units (SI) in FAIR digital data" starts today. bipm.org/en/conference-...
- BIPM** @BipmMedia
KCDB 2.0 technical exchanges for NMIs/DIs. Sessions for CMC Writers/Reviewers in General physics and Ionizing radiation will be held on 29 and 30 March 2021. Registration is available through the RMOs.

BIPM Laboratory knowledge transfer

Launch of on-line programs

Metrology for Safe Food:

- **Mycotoxin Standards**
- **Pesticides and Residues (2021)**

Visit: <https://www.bipm.org/en/cbkt/safe-food.html>

Metrology for Clean Air:

- **FTIR operation for accurate gas analysis**
- **Dynamic gas standard generation (2022)**

Visit: <https://www.bipm.org/en/cbkt/clean-air.html>

Metrology for Laboratory Medicine:

- **Peptide standards (2023)**

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The BIPM

2.35K subscribers

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JCTLM - World Metrology Day 2021

Updated 5 days ago
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BIPM Online Workshop: The International System of Units...

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CBKT Webinars

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CCT - 29th Meeting

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CCRI Webinars

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CCQM Webinar Series

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KCDB

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CCQM Workshop on Advances in Metrology in Chemistry and...

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26th CGPM Meeting

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Working together to promote and advance the global
comparability of measurements



ABOUT US

COORDINATION

LIAISON

TECHNICAL/SCIENTIFIC

PUBLICATIONS & EVENTS



The BIPM is...

- the **international organization established by the Metre Convention**, through which Member States act together on matters related to measurement science and measurement standards
- the home of the **International System of Units (SI)** and the **international reference time scale (UTC)**.

Monday 17 May 2021



UTC 17:21:22

Your transmission delay : 0.01 s

Working together to promote and advance the global comparability of measurements



ABOUT US

COORDINATION

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TECHNICAL/SCIENTIFIC

PUBLICATIONS & EVENTS



CIPM CONSULTATIVE COMMITTEES

CCAUV

CCEM

CCL

CCM

CCPR

CCQM

CCRI

CCT

CCTF



CIPM MRA

PARTICIPATING LABORATORIES

USE OF THE CIPM MRA LOGO

DOCUMENTS ON THE CIPM MRA

CMC APPROVAL PROCESS

JCRB

KCDB

GUIDES IN METROLOGY: JCGM

JCGM-WG1 (GUM)

JCGM-WG2 (VIM)

INTERNATIONAL REFERENCE TIME SCALES

TIME FTP SERVER

TIME DEPARTMENT DATABASE

TIME LABORATORIES CONTRIBUTING TO UTC

LABORATORY MEDICINE: JCTLM

JCTLM DATABASE

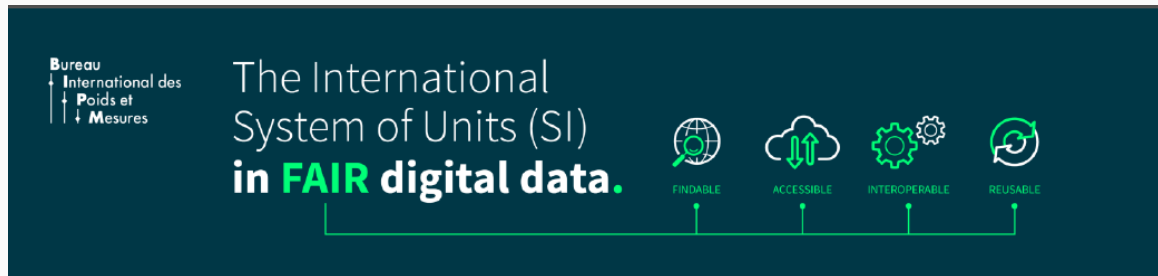
INTERNATIONAL METROLOGY RESOURCE REGISTRY

IMRR

CIPM initiative to provide a Digital SI Framework

The CIPM has launched a **Task Group on the “Digital SI Framework”**

- ◆ To enable SI-based digital communication in industry
- ◆ To support the digital science and open-science paradigms
- ◆ To get metrological services ready for artificial intelligence



The Key Comparison Database (KCDB)

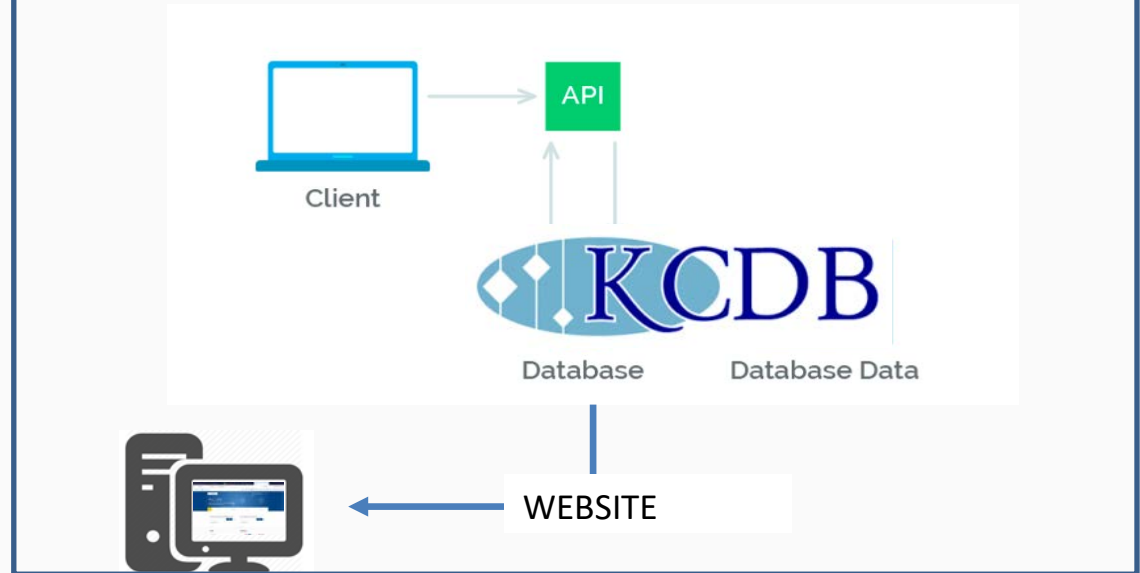
262 Institutes *(August 2019)*

- 102 National Metrology Institutes
 - 61 Member States
 - 41 Associates
- 4 International organizations
(ESA, IAEA, JRC, WMO)
- plus 156 Designated Institutes

6 RMOs

Playing an important role to support mutual confidence in the validity of calibration and measurement certificates issued by participating institutes

Machine readable access to the KCDB



1,613 comparisons

1039 key, 574 supplementary
comparisons

25 242 CMCs

regionally and internationally peer-
reviewed CMC declarations

Work in progress - machine-readable products

Approved by the CIPM. Work in progress.

Future work

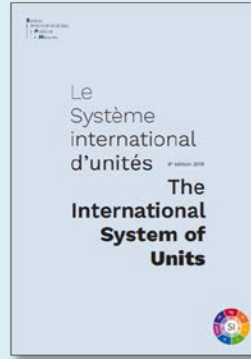


+ Time Dept database



API access

Real-time **validation of traceability and scope of recognition** for digital calibration certificates.



+ The annotated VIM

xml versions

The authoritative reference data defining the SI and how to use it.



Findable and Accessible data submitted to support key comparisons and publications

World Metrology Day



Measurement
for Health



Bureau
International des
Poids et
Mesures



20 May 2021
www.worldmetrologyday.org

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World Metrology Day

- The theme of World Metrology Day in 2021 is *“Measurement for Health”*
- Partner RMO is GULFMET

<https://www.worldmetrologyday.org/index.html>

