

Report from the BIPM Director

Bureau
♦ **I**nternational des
♦ **P**oids et
♦ **M**esures

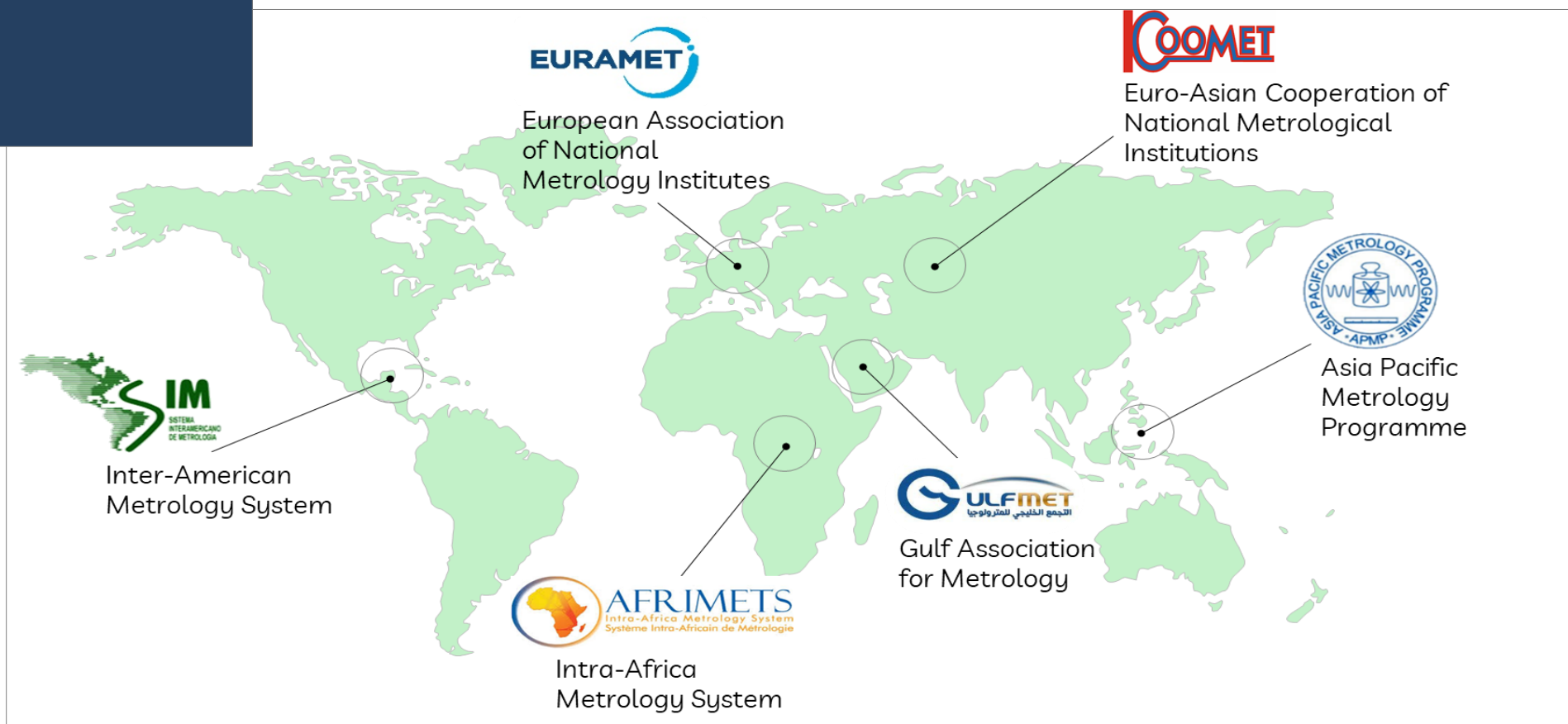
Dr Martin MILTON OBE

Member States and Associates



- 64 Member States and
- 37 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.*



108 of the 193 states listed by the UN participate in the BIPM's activities, covering around 98 % of the world's GDP according to 2023 IMF data.

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The CIPM MRA has been signed by:

- representatives of **101** institutes
 - 64 Member States
 - 37 Associates
- 4 international organizations (ESA, IAEA, JRC, WMO) and covers a further **153** designated institutes.



All data listed in the KCDB have been reviewed and approved within the CIPM Mutual Recognition Arrangement

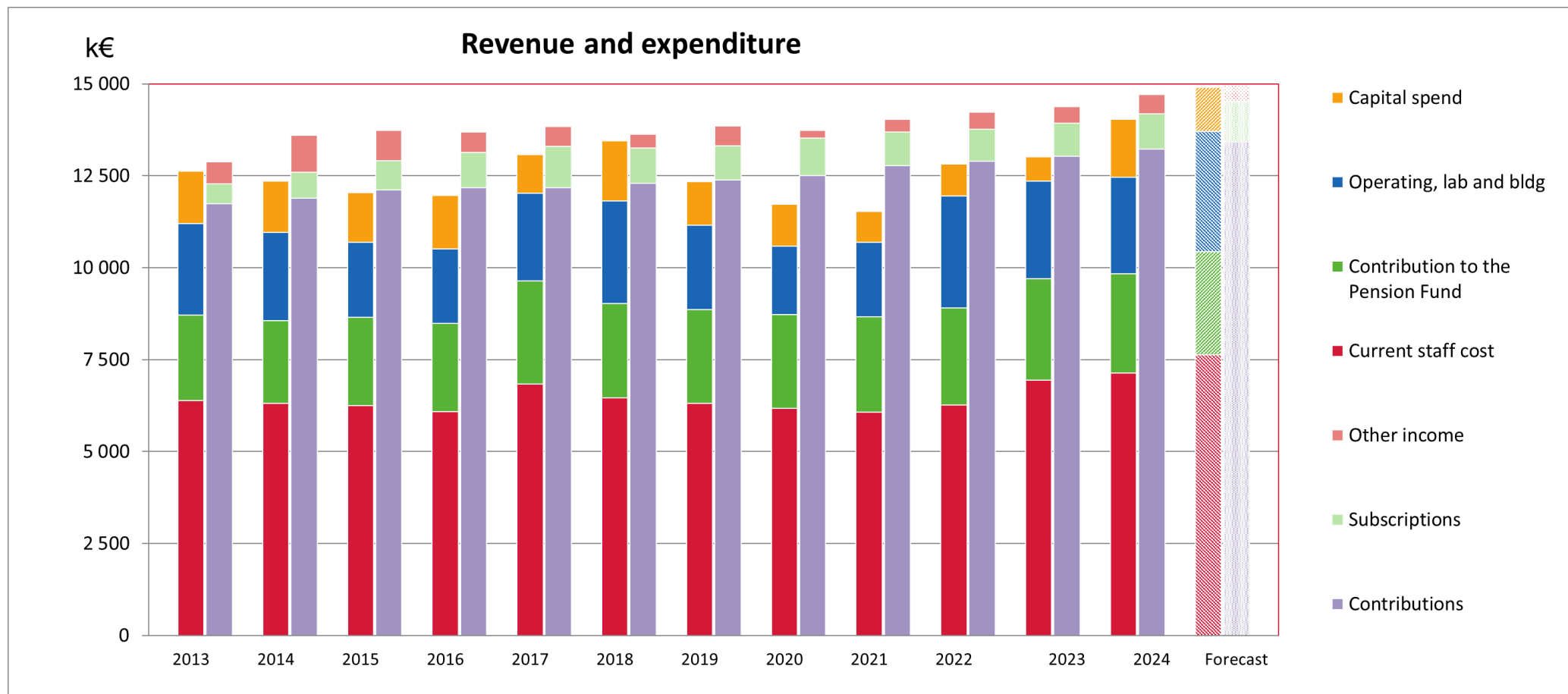
1 904 comparisons
1195 KCs, 709 SCs

26 180 CMCs



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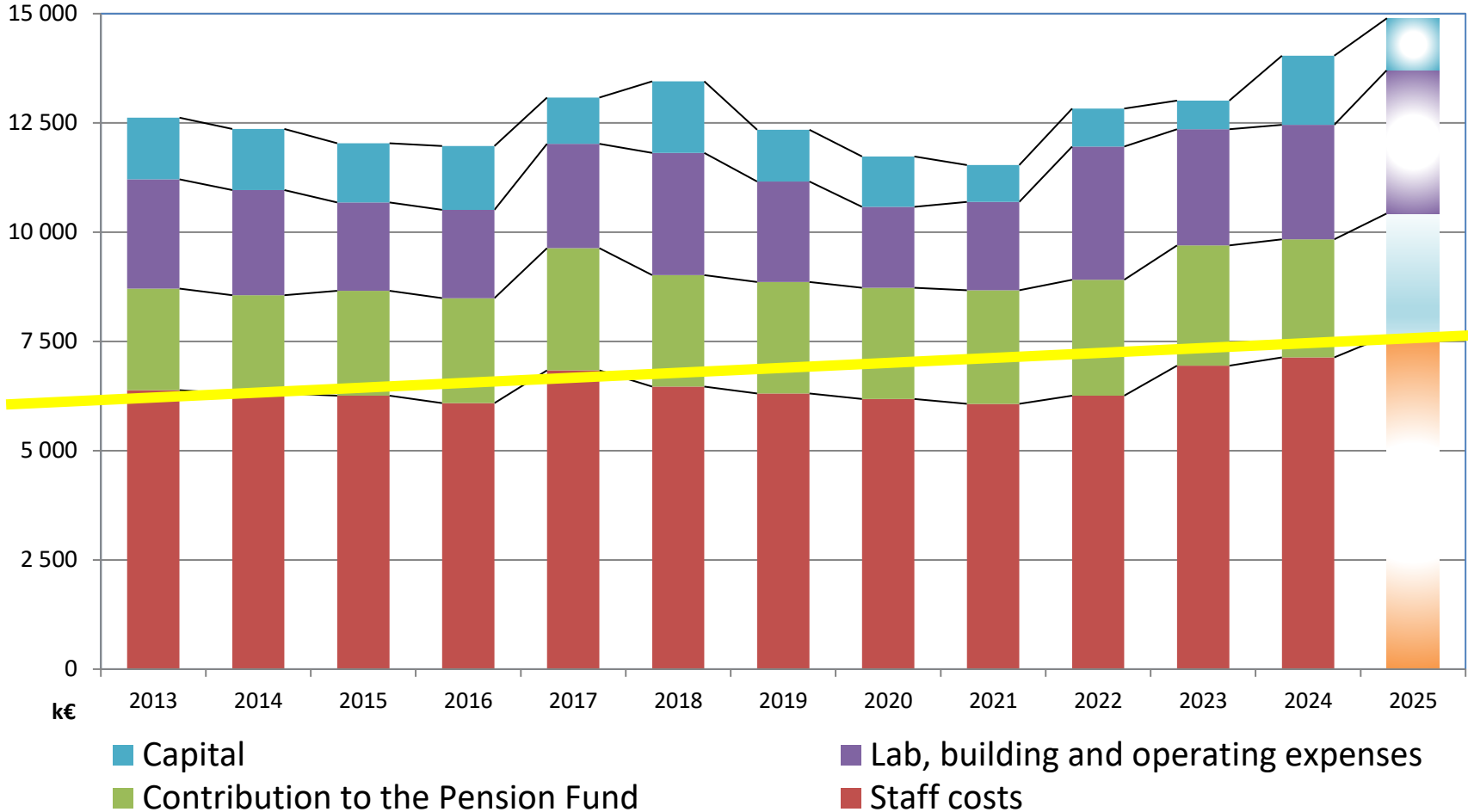
Revenue and Expenditure (to end 2025)



Revenue – increases with dotation (18% in 12 years)

Expense – increase with inflation (utilities, lab equipment, salary inflation etc)

Expenditure (to end 2025)



Salary costs increased by 20% since 2013.
In the same period: dotation increase by 18%,
RPI in France increases by approx. 25%

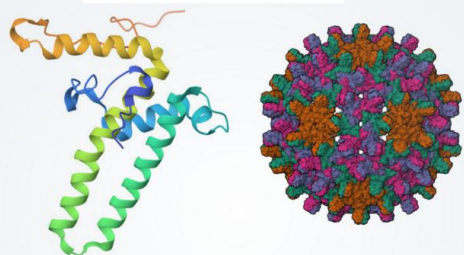
Working to broaden sources of support

Laboratory highlights – joint technical projects with NMIs



Characterization of candidate peptide and protein materials for comparisons

- Joint technical project with NPL on characterization of de novo peptides and proteins relevant to bioengineering as candidate materials for future CCQM-PAWG comparison.
- Three visiting scientists (27 months) fully funded by NPL
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Hepatitis B Core shell peptide



Laboratory highlights – joint technical projects with NMIs



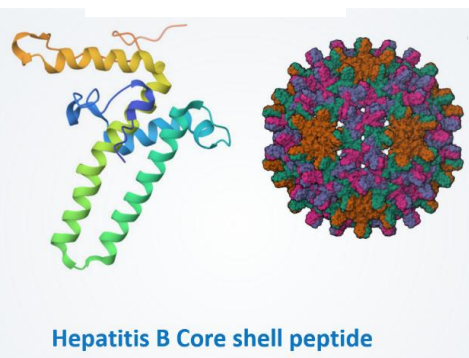
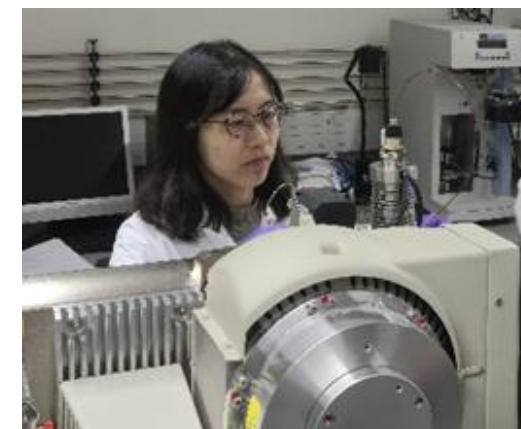
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Metrology for safe food comparisons (CCQM-K78 series)

- Joint technical project with NIM on pesticide standards and comparisons
- One visiting scientist fully funded by NIM (12 months) plus all samples of pure pesticide materials provided by NIM
- Supports CCQM Organic Analysis Working Group program of comparisons and BIPM CBKT activity on safe food



Endosulfan Banned Worldwide
Persistent Pollutants: Certain uses of pesticide can continue until 2017

by Cheryl Rogers
May 5, 2012 (A version of this article was published in the May 2012 issue of the journal Environmental Health Perspectives.)

More than 120 nations have agreed to ban the use of endosulfan, a pesticide that has been found to be toxic to humans and wildlife.

Dimethoate use suspended after insecticide residue found to exceed safety levels

By national regional reporter Nathan Morris
Posted Fri 22 Sep 2012 at 11:16pm, updated Tue 20 Sep 2012 at 10:00am

Under the deal, most 2012. However, this is subject to a court case.

Laboratory highlights – collaboration with the RMOs

Developing the International Reference System (SIR) for radioactivity



- New SIR has replaced the original one (dating from the 70s) with upgraded measurement capabilities and ULCA (from PTB)
- Copies of the SIR are being built in collaboration with SIM, APMP and EURAMET to host regional comparisons.
- Launch of the “Extended” SIR comparisons with 14 new isotopes including ^{14}C (support to climate change studies), ^{32}P (for radio medicine) and ^{225}Ac (new alpha therapies)

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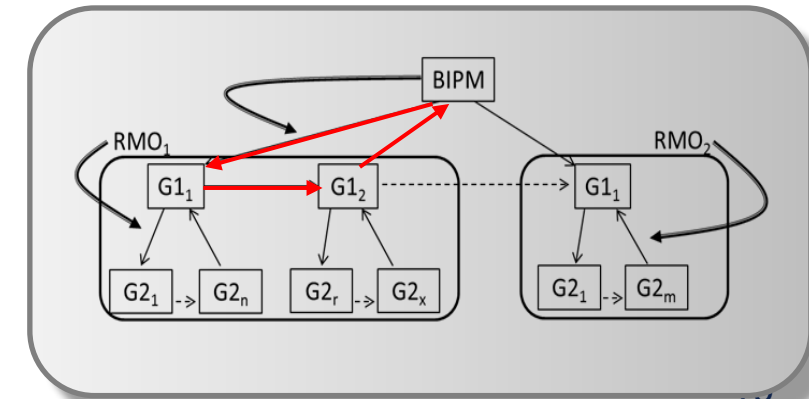
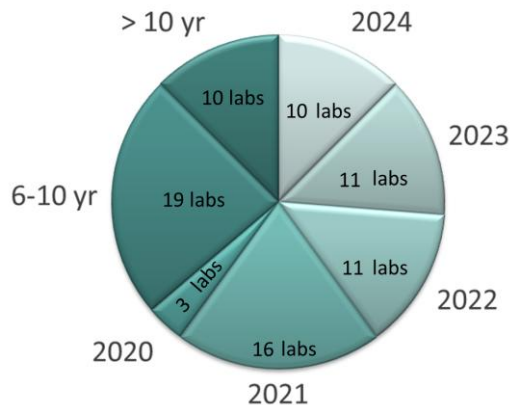
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GNSS Receiver calibrations for UTC

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- 75% of the UTC labs have re-calibrated their Rx in the last 5 years = more than 500 calibrations performed.



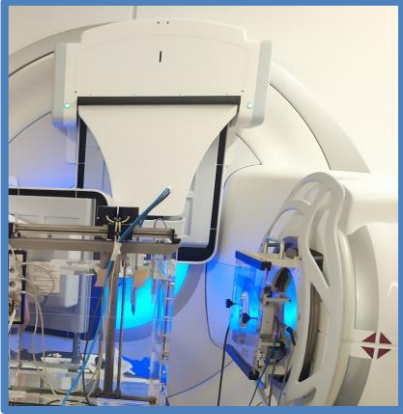
Laboratory highlights – using off-site facilities



Ionizing radiation facilities for dosimetry and radio-protection

- high energy photon beams at DOSEO, Saclay (since 2017)
 - 8 comparisons (since 2017) and 17 calibrations (since 2020)
- ^{137}Cs for radioprotection calibrations at IAEA, Seibersdorf (since 2023)
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maintain affordable, top-level facilities at BIPM — as recommended by the dosimetry community.

Selected off-site facilities centralized at the IAEA

- Only x-ray facilities at BIPM
- Strengthen collaboration with IAEA: free access but a dedicated BIPM staff member permanently based at the IAEA, also working partly for the IAEA

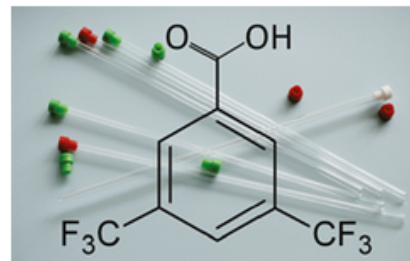
Full use of the IAEA facilities

- No facilities remaining at BIPM
- All BIPM dosimetry staff located at IAEA
- Shared resources between BIPM and IAEA
- Expected metrological degradation

Support of BIPM lab projects from donations



JEOL donated an NMR instrument in 2017 through a collaborative agreement with NMIJ which has led to many visiting scientists at the BIPM and the following outputs:



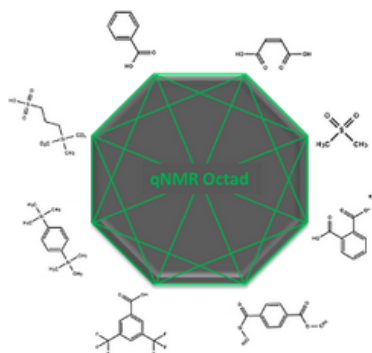
New qNMR internal standard for pharmaceuticals and other organofluorine compounds

The first internal standard reference document on the use of 3,5-Bis(trifluoromethyl) benzoic acid for ^{19}F qNMR for organic compound purity measurements has been published.



Successful qNMR Summer School at the BIPM Headquarters

The BIPM held its first Summer School on quantitative nuclear magnetic resonance (qNMR) measurement techniques on 24-28 June 2024.



Octad of standards for qNMR purity measurements

Publication of the benzoic acid reference document, together with seven others, provides guidance for the use of a universal suite of eight higher order SI-traceable primary standards, the Octad, for the purity assignment of organic compounds using qNMR in any solvent.



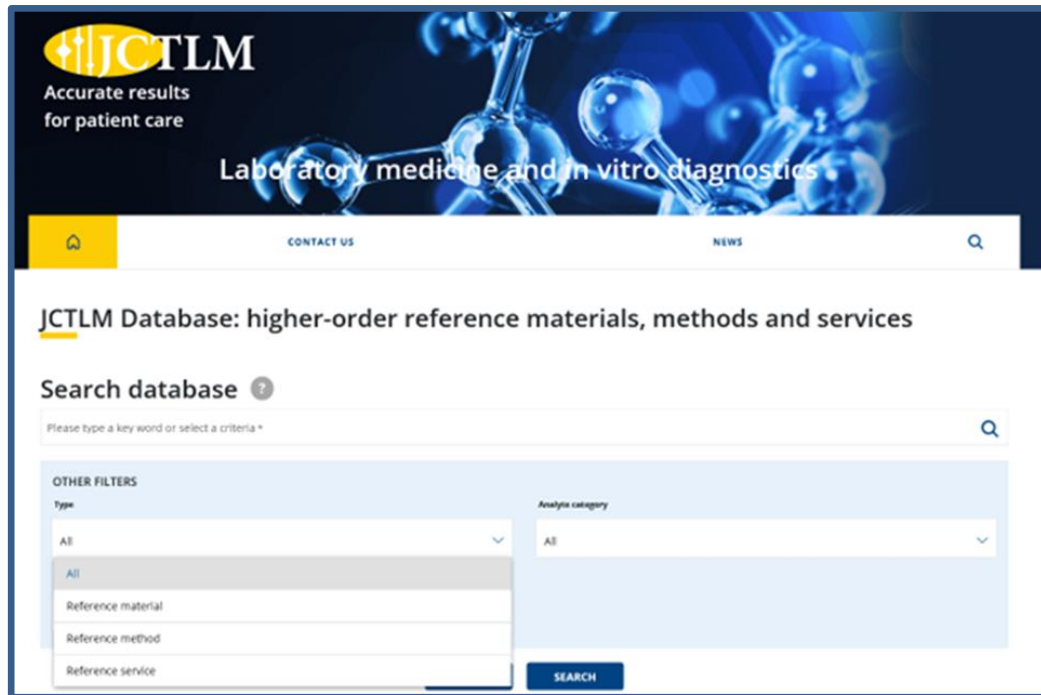
qNMR e-learning course now available

Guidance on value assigning the purity of organic pure materials using qNMR is available through the BIPM e-learning platform.

Supporting sector-specific activities: Laboratory Medicine

The “go-to” database for the *in-vitro diagnostics* (IVD) industry

- Covers 70% of laboratory testing
- 95% of the Reference Materials listed are from NMIs

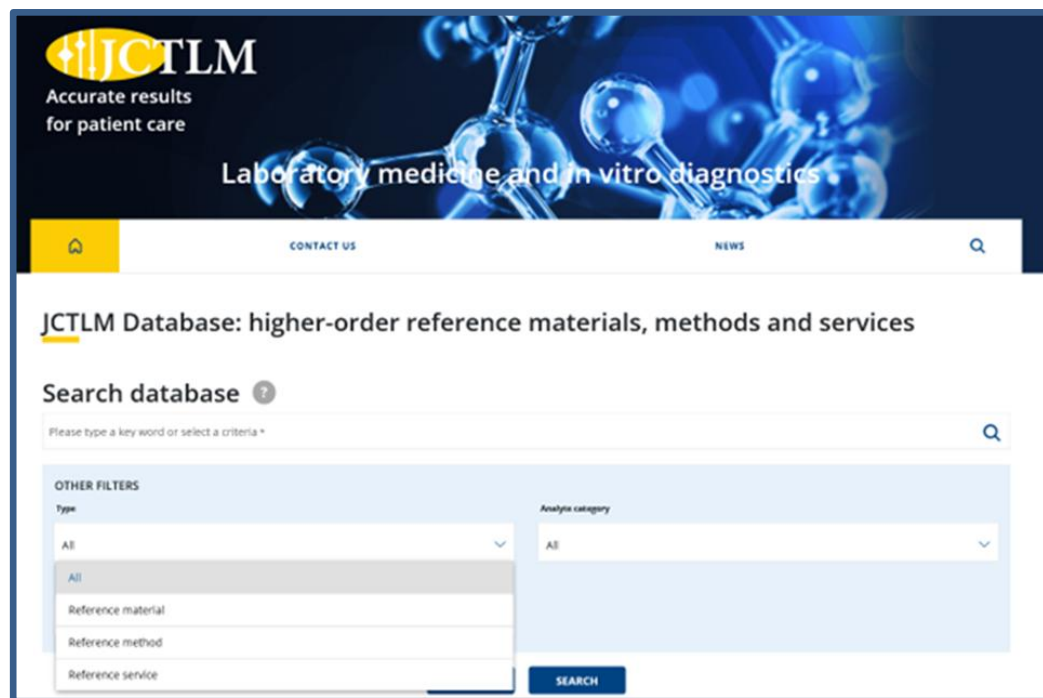


The screenshot displays the JCTLM website's search interface. At the top, the JCTLM logo is accompanied by the tagline 'Accurate results for patient care' and the text 'Laboratory medicine and in vitro diagnostics'. Below this is a navigation bar with links for 'CONTACT US' and 'NEWS', and a search icon. The main content area features the heading 'JCTLM Database: higher-order reference materials, methods and services'. A search bar is labeled 'Search database' with a help icon and a placeholder text 'Please type a key word or select a criteria *'. Below the search bar, there are two filter sections: 'OTHER FILTERS' and 'Analysis category'. The 'OTHER FILTERS' section includes a 'Type' dropdown menu with options: 'All', 'Reference material', 'Reference method', and 'Reference service'. The 'Analysis category' section includes an 'All' dropdown menu. A 'SEARCH' button is located at the bottom right of the filter section.

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Changing funding model

JCTLM Financial support

The work of the JCTLM is funded by the IFCC and the BIPM.



Operating expenses
Database support



Operating expenses

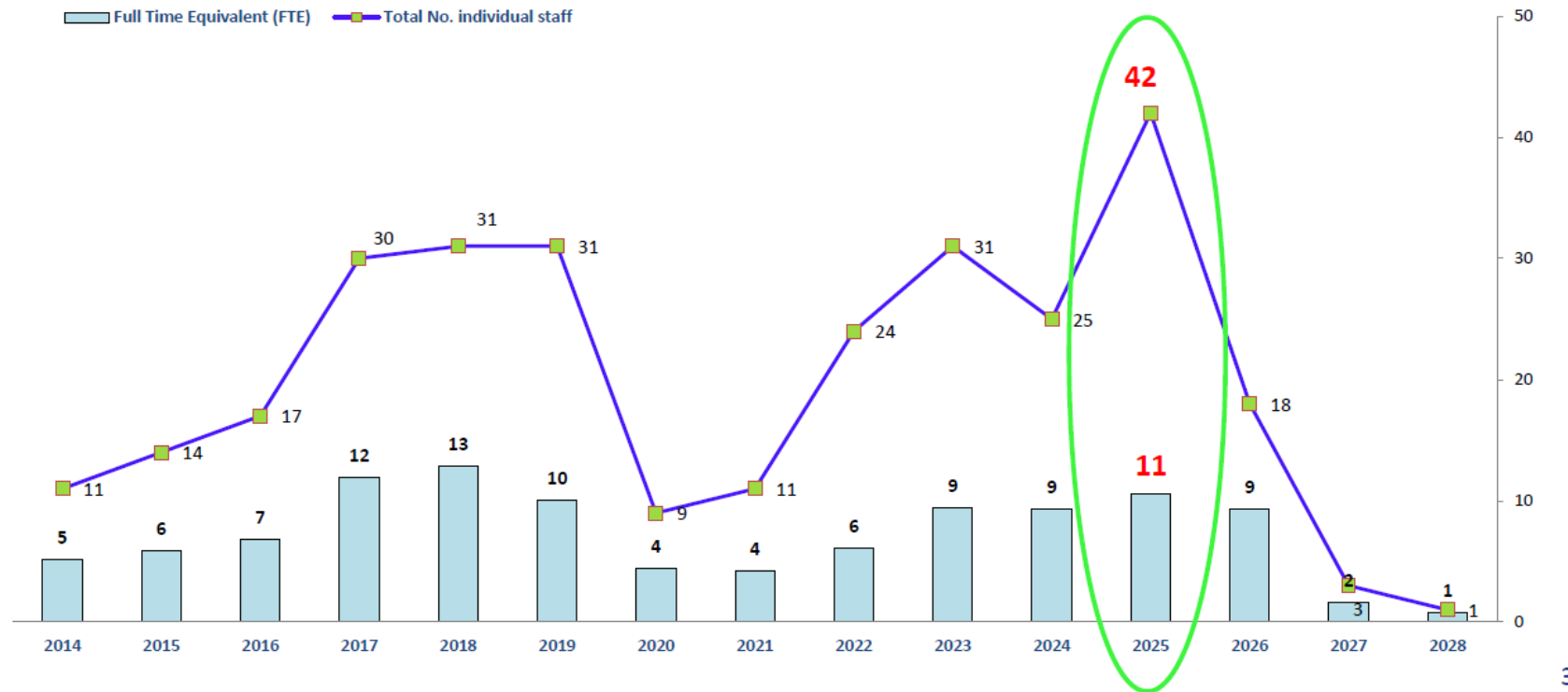
Future tiered model for annual JCTLM funding (130 k€):

- IVD Industry 45 %
- IFCC donation 22 %
- BIPM donation 22 %
- NMIs 6 %
- JCTLM Events 5 %

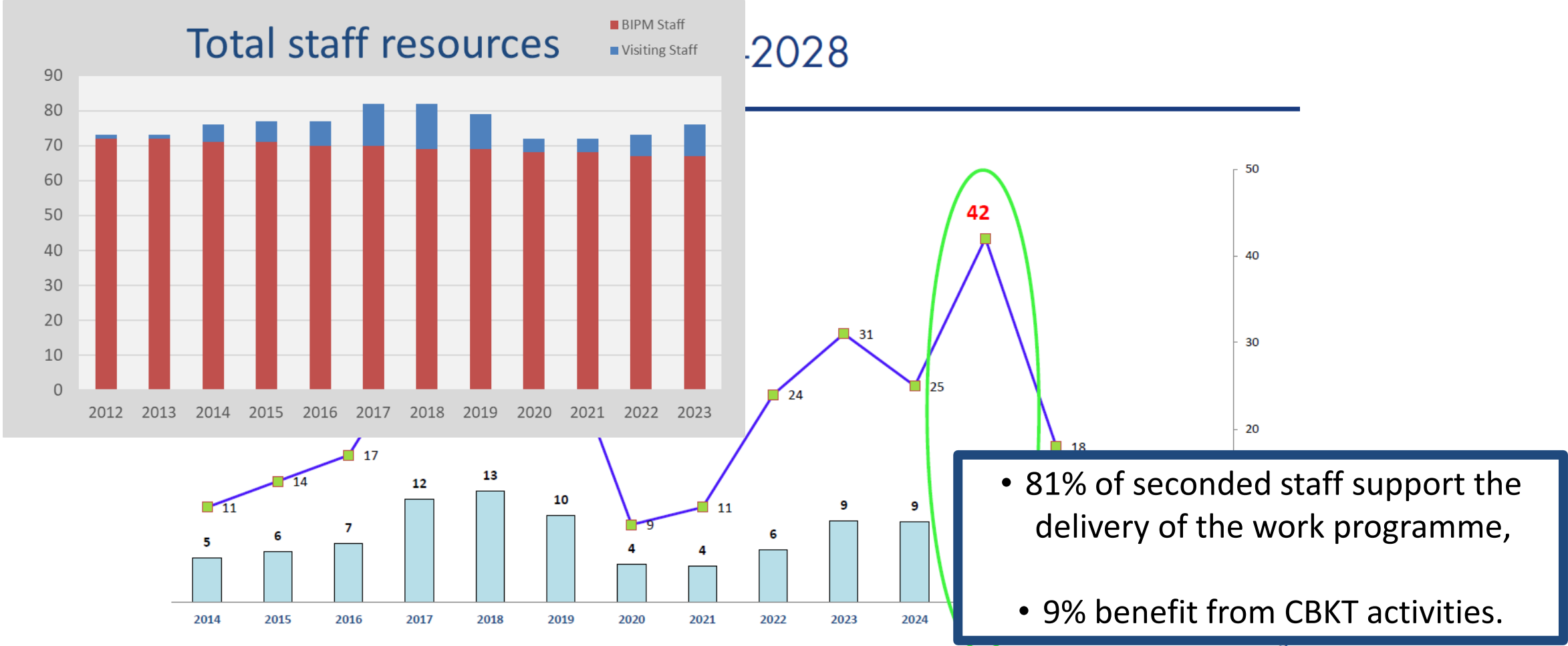
Will apply to all 81 member organisations.

BIPM staff working with visiting staff

Complementary staff: FTE 2014-2028



BIPM staff working with visiting staff



Broadening our sources of support



Laboratory highlights – joint technical projects with NMIs



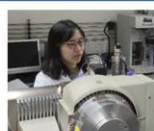
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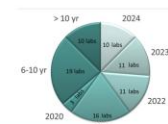


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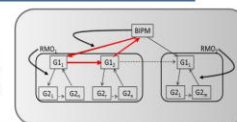


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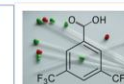
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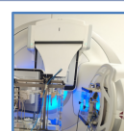
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BIPM staff working with visiting staff



- 81% of seconded staff support the delivery of the work programme,
- 9% benefit from CBKT activities.

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BIPM

IFCC

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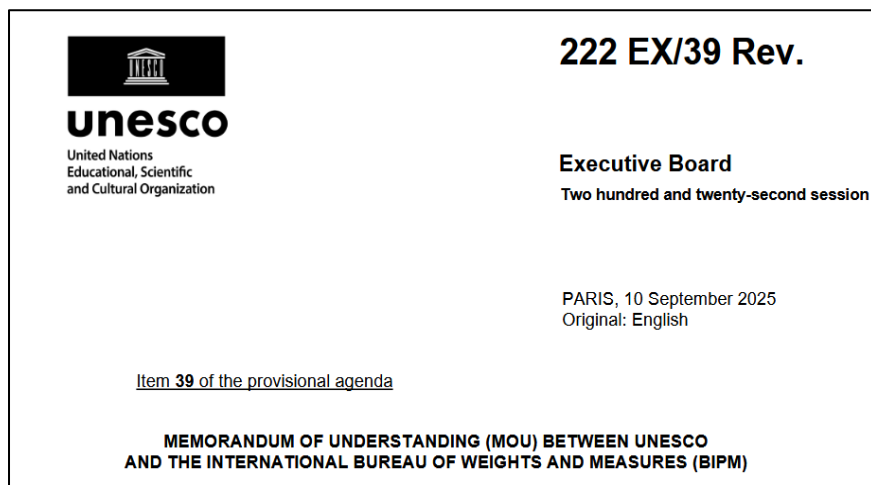
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Routes to Impact

Promoting metrology to the global community

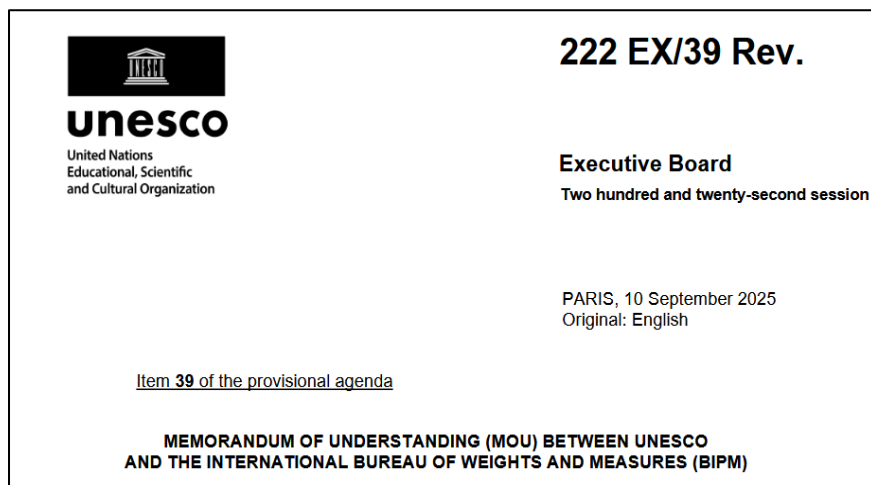


Negotiating a MoU with UNESCO on cooperation (to replace the 1949/1952 CIPM-UNESCO Agreement)

In August a draft BIPM-UNESCO MoU submitted to the 222nd Session of the UNESCO Executive Board scheduled for 1-16 October 2025.

Signing of the MoU expected by the end of 2025.

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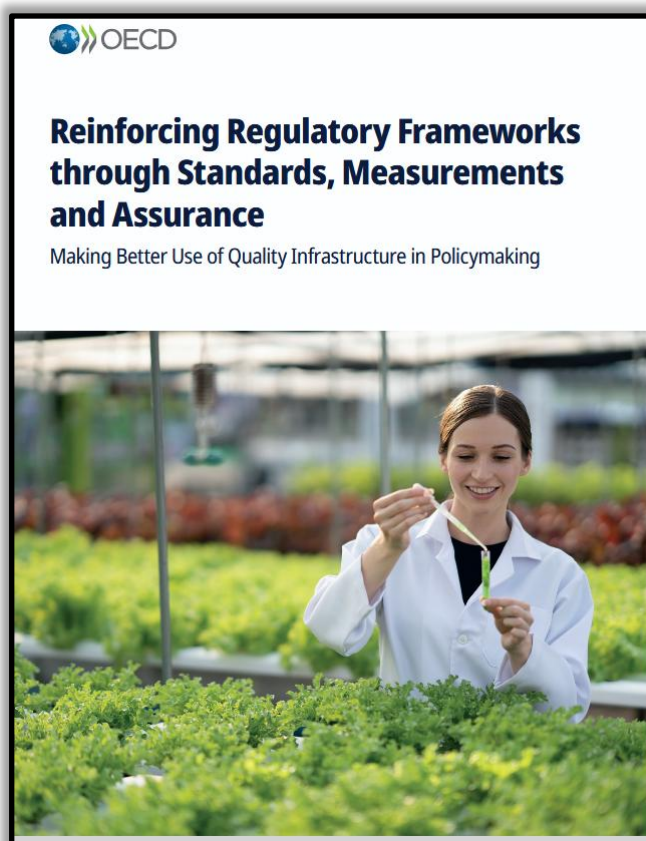


Thematic session of the WTO TBT Committee on the role of metrology in facilitating trade to mark the 150th Anniversary

scheduled for 11 November 2025 (15-16:30) in Geneva

(proposal submitted by the Australian delegation and approved by the WTO TBT Committee in November 2024)

Agenda under development in cooperation with the WTO Secretariat and Australian delegation to the WTO.



The OECD report [“Reinforcing Regulatory Frameworks through Standards, Measurements and Assurance: Making Better Use of Quality Infrastructure in Policymaking”](#) was published on 15 September 2025

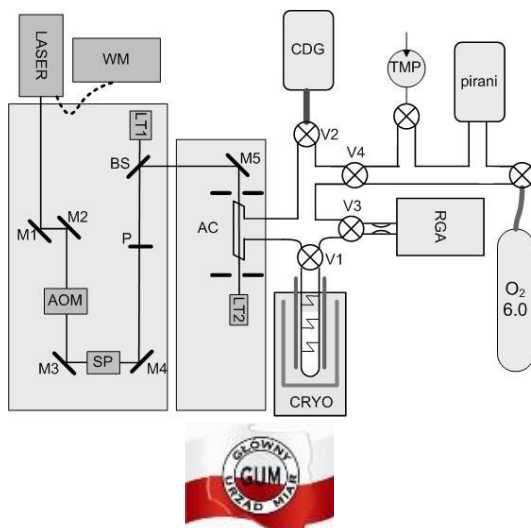
The BIPM was one of the initiators of this project and seconded its staff to assist the OECD Regulatory Policy Division in the implementation of the project.

On 6 December 2024, the BIPM and the OECD hosted a full-day event “Building Stronger Connections Between Quality Infrastructure and Regulation” at the BIPM’s headquarters to explore the critical links between regulatory systems and QI of the upcoming report.

BIPM ozone reference measurements adopted worldwide in 2025



BIPM measurements with KRISS and GUM



Viallon, J., Lee, S., Moussay, P., Tworek, K., Petersen, M., and Wielgosz, R. I.:

Accurate measurements of ozone absorption cross-sections in the Hartley band,

Atmos. Meas. Tech.,
8, 1245-1257, 2015.



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Metrologia

Metrologia 56 (2019) 034001 (12pp)

<https://doi.org/10.1088/1681-7575/ab0bdd>

Recommendation of a consensus value of the ozone absorption cross-section at 253.65 nm based on a literature review

J T Hodges¹, J Viallon^{2,10}, P J Brewer³, B J Drouin⁴, V Gorshchev⁵,
C Janssen⁶, S Lee⁷, A Possolo¹, M A H Smith⁸, J Walden⁹
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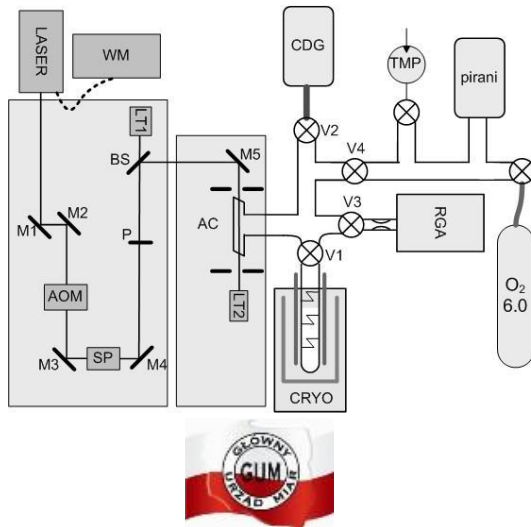
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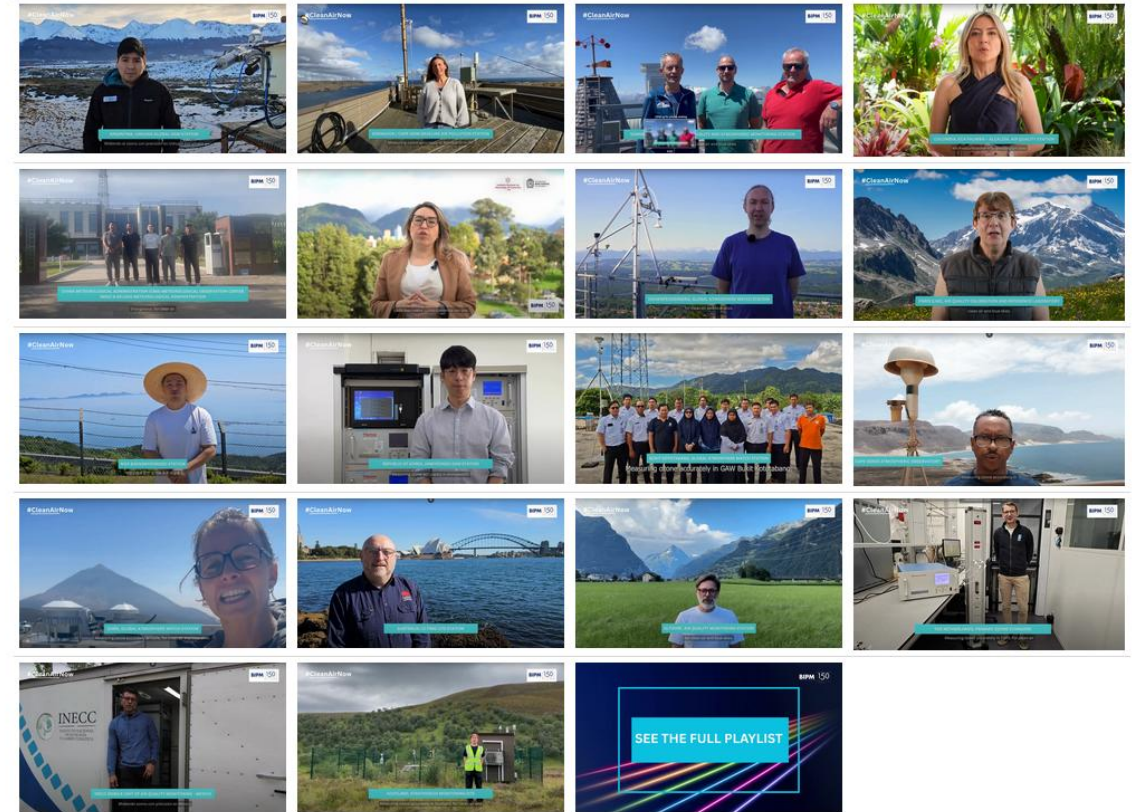
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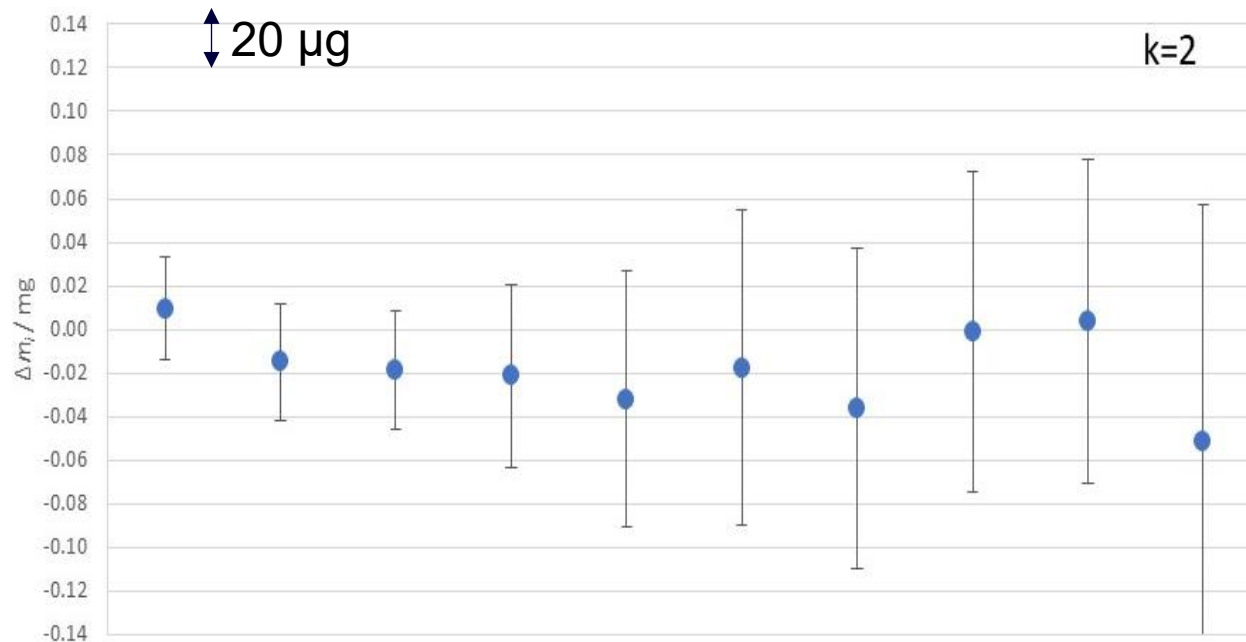
Measuring Ozone Accurately for Clean Air and Blue Skies



[BIPM Ozone Comparisons Programme](#)

Organization of the third key comparison of realizations of the kg

Differences between mass values attributed to a nominal 1 kg mass by Kibble balances and XRCD methods

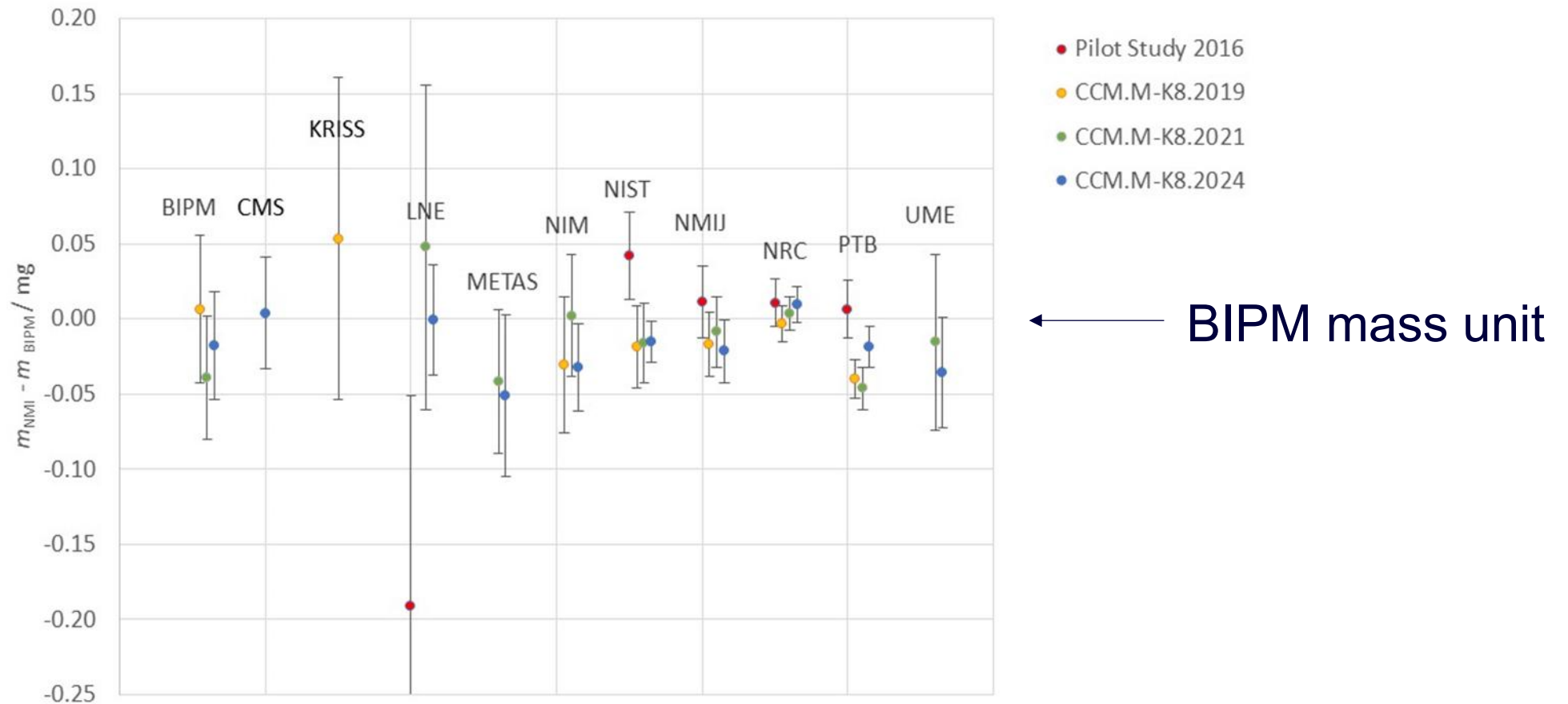


- BIPM acted as pilot laboratory and participated with its own Kibble balance
- 10 participants: 3 XRCD, 6 KB, 1 Joule balance
- Improved consistency compared to the two previous comparisons

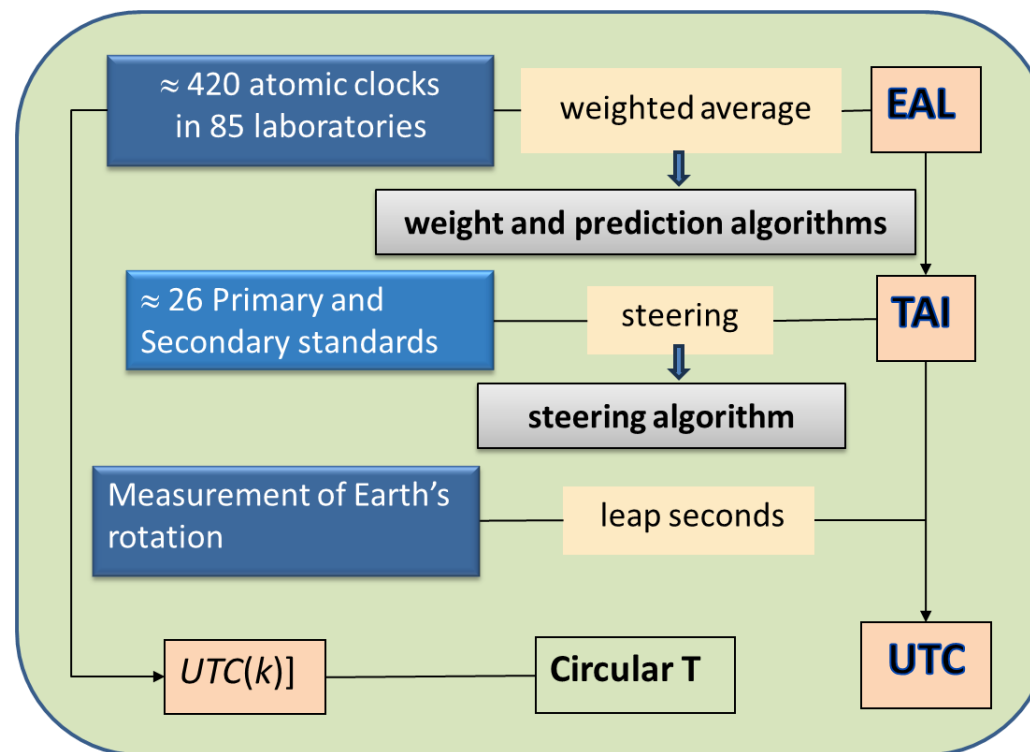
Presented in anonymous form because Draft A not yet available

Organization of the third key comparison of realizations of the kg

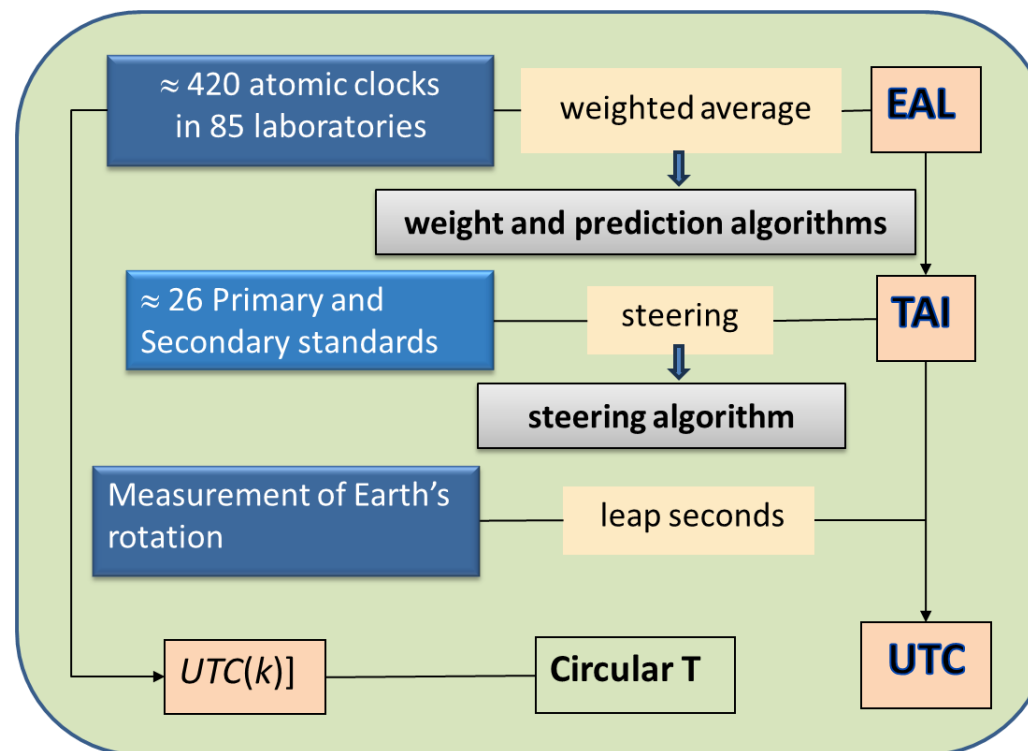
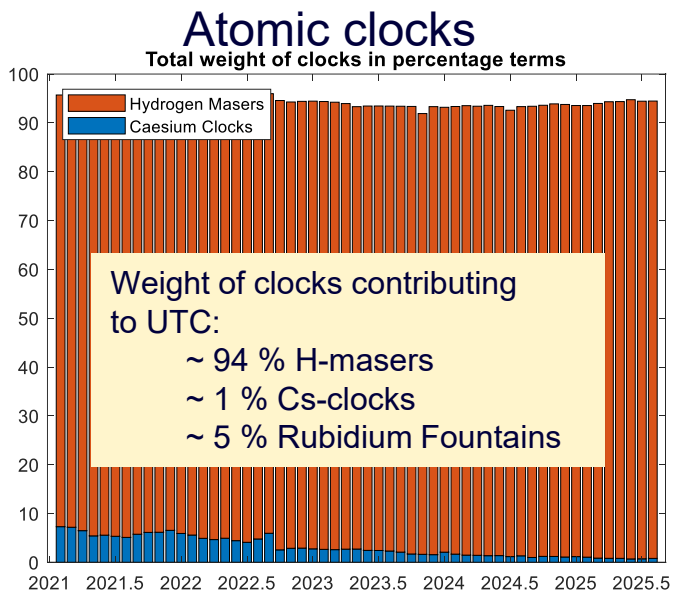
Results of four consecutive comparisons of kg realizations (all organized by BIPM)



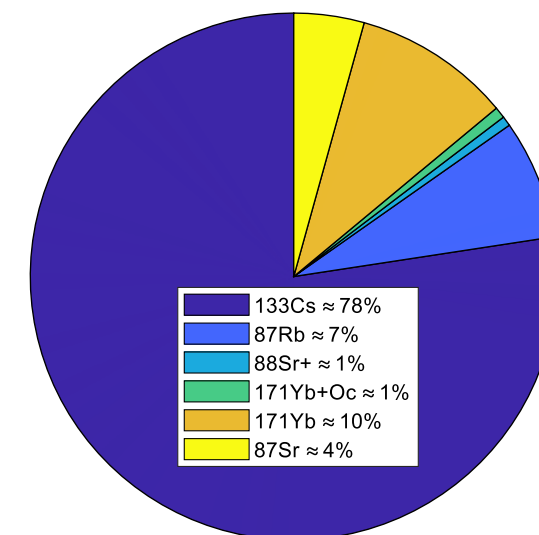
Impact of NMI clocks on UTC



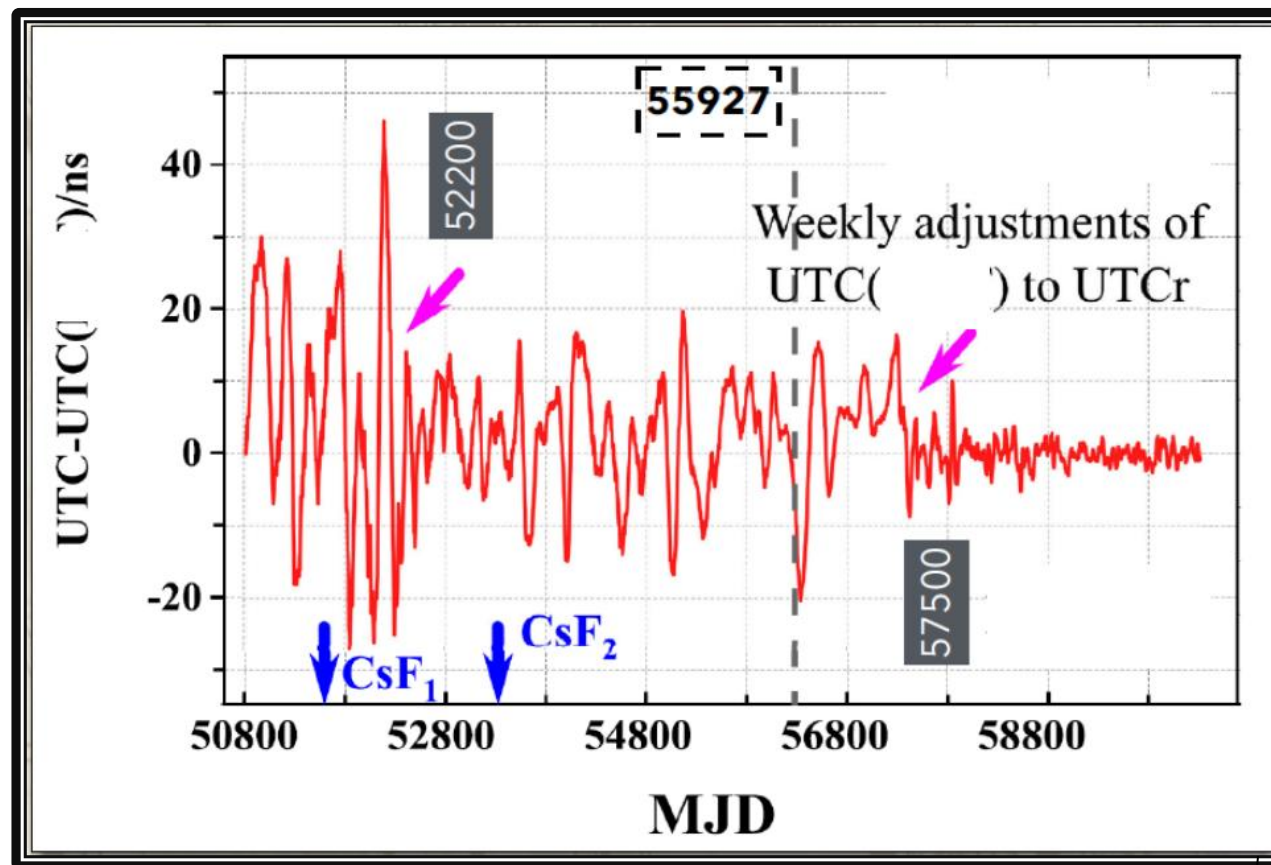
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Primary and Secondary Frequency Standards



Impact of UTC on NMI clocks on UTC



IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, VOL. 74, 2025

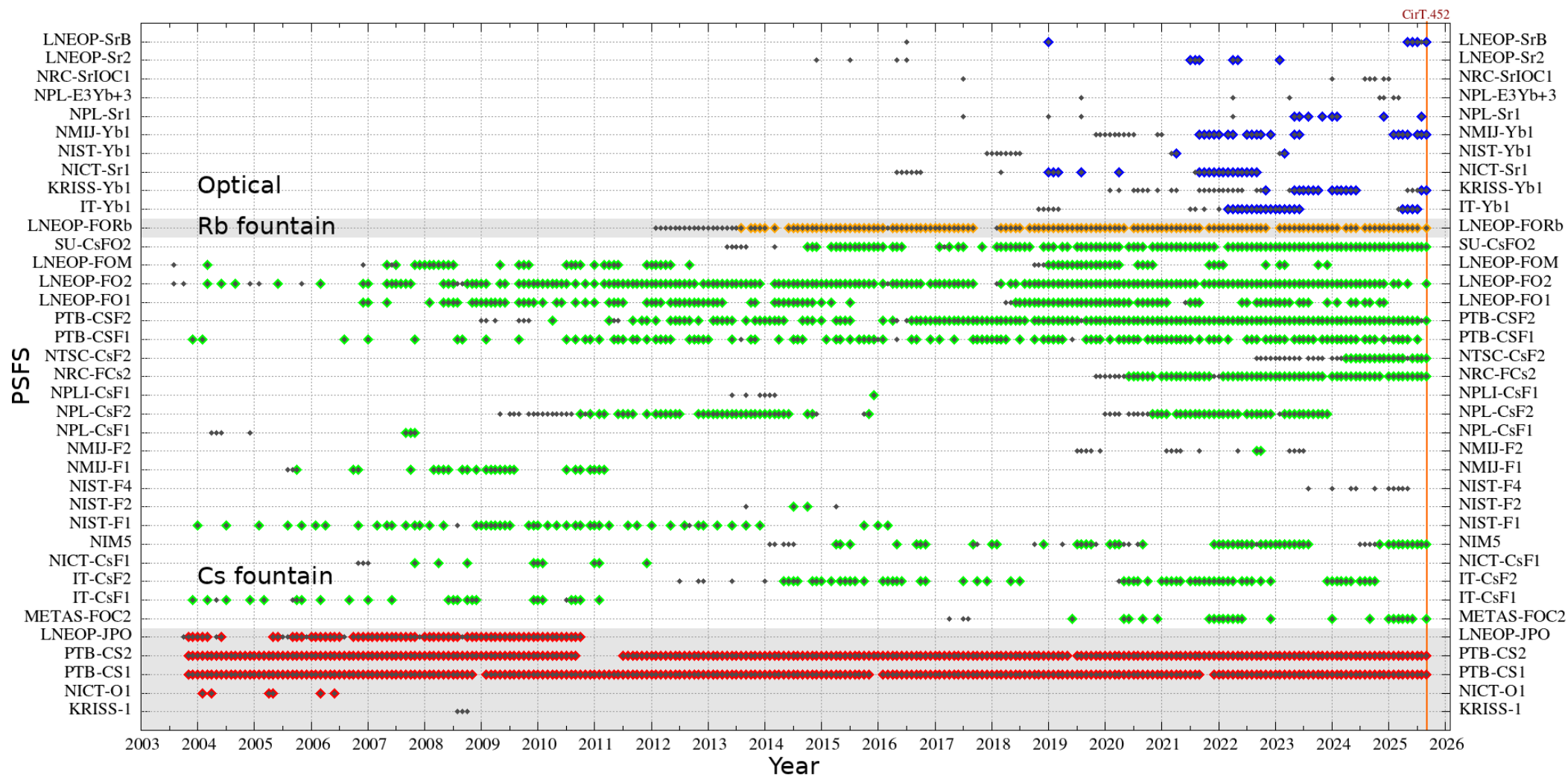
5503210

Performance Estimation of UTC and Several UTC(k) Realizations During the Past 25 Years

C. A. Ortiz[✉], E. de Carlos-López[✉], A. Medina-Herrera[✉], Michael A. Lombardi[✉], *Member, IEEE*,
and J. M. López-Romero[✉], *Member, IEEE*

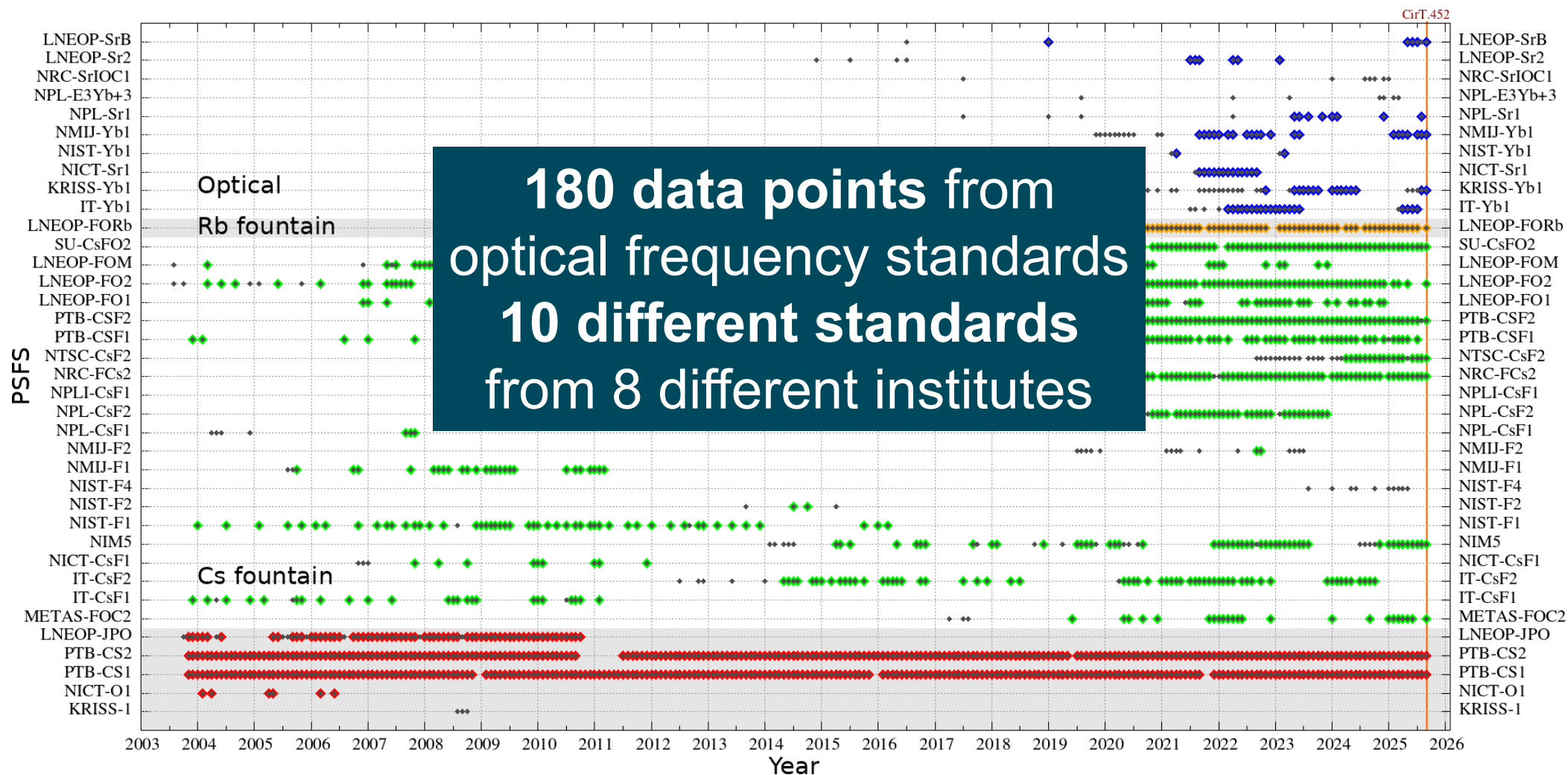
Impact of NMI clocks on UTC

Graphical representation of all evaluations of Primary and Secondary Frequency Standards reported since Circular T 190.
Enhanced color dots indicate evaluations carried out within the month of TAI computation.



Impact of NMI clocks on UTC

Graphical representation of all evaluations of Primary and Secondary Frequency Standards reported since Circular T 190.
Enhanced color dots indicate evaluations carried out within the month of TAI computation.



UTC Summer Schools 2025



BIPM - SIM UTC Summer School

- 7-9 May 2025
- CENAM, Queretaro Mexico
- 29 participants from SIM region



BIPM UTC Summer School

- 9-11 September 2025
- BIPM, Sèvres France
- 38 participants from all RMOs



44 k\$ support from IEEE UFFC

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BIPM/TÜBİTAK UME placements

- Over eight years of this initiative
- 76 participants from more than thirty countries across all regions have taken part over 8 years.
- 1 to 3 month placement at TÜBİTAK UME laboratories. TÜBİTAK UME covers laboratory and accommodation costs.
- Aimed at young metrologists (relatively inexperienced through to those with more experience).



44 k\$ support from IEEE UFFC

Online technical exchanges for the CIPM MRA user community



COMPARISONS

 6 February 2025

 *Dedicated to comparison pilots and participants*

 237 participants

 56 countries (all RMOs)

CMC WRITERS

 3 April 2025

 *Designed for those who prepare CMCs and submit them for review.*

 268 participants

 68 countries (all RMOs)

CC CHAIRS

 19 June 2025

 *Tailored for those who review CMCs.*

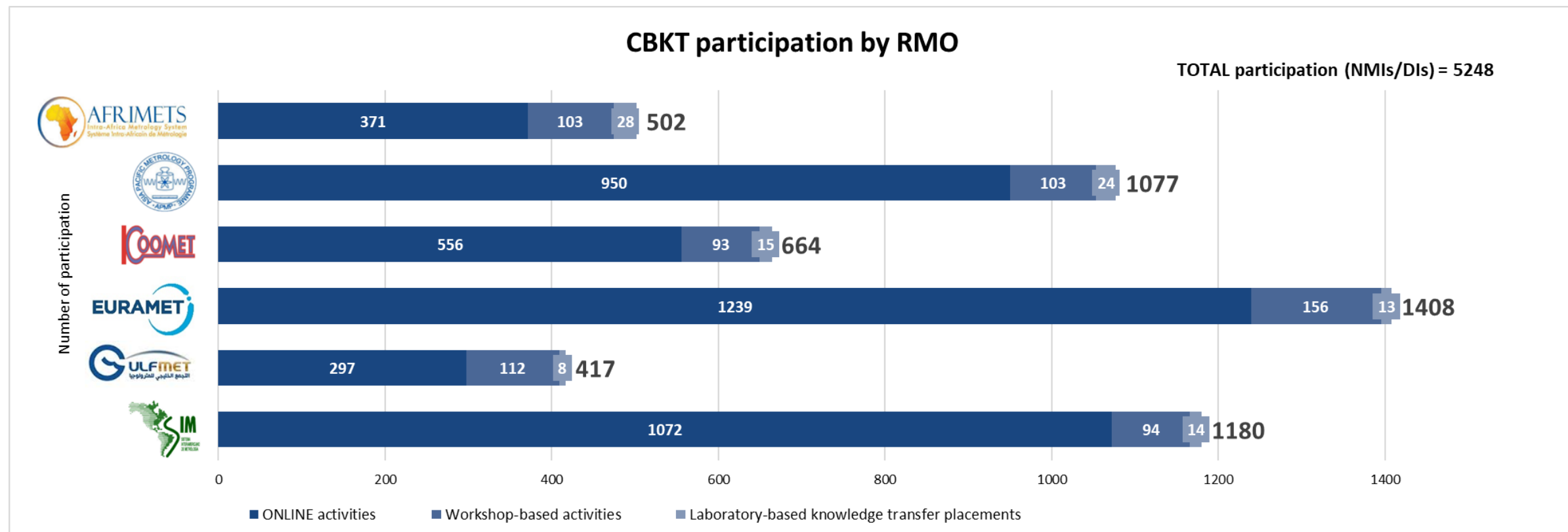
 157 participants

 45 countries (all RMOs)

Based on the CIPM MRA policy on comparisons and CMCs, supported by live KCDB demonstrations, and enriched through real-case discussions, experience sharing and Q&A sessions with KCDB experts.

CBKT Participation by RMO

Collaboration with all six RMOs

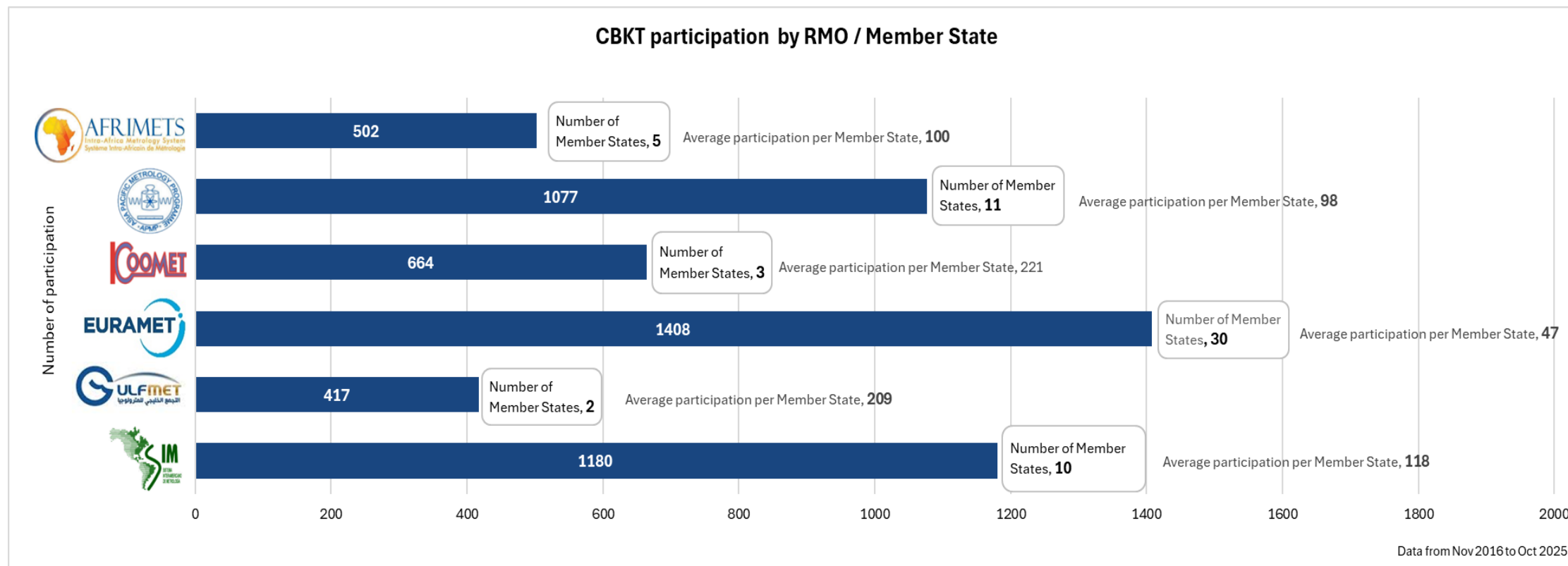


Thanks for support from:

- METAS, Switzerland
- NIM, China
- NIST, USA
- NMISA, South Africa
- NPL, United Kingdom
- PTB, Germany
- SCL, Hong Kong, China
- TÜBİTAK UME, Türkiye
- EEE UFFC society
- Plus
- All the RMOs

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Digital Transformation

Semantic web to make our services and data machine-readable.

- The SI Reference Point

V1.0 includes

- Units
- Prefixes
- Defining constants
- Quantities - used in the SI Brochure
- Decisions
- CMCs
- Measurement service categories for Physics (exc RI)

(v2.0) Under development

- Measurement service categories for RI and chemistry
- Quantities – used in the KCDB
- Fundamental constants



- APIs for all BIPM databases

- Key comparison database
- Time database
- JCTLM database

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- Key comparison database
- Time database
- JCTLM database

Artificial Intelligence to make our services and data accessible to AI (eg LLMs)



Making NMI Services in the JCTLM visible to Chat GPT



ChatGPT

What cholesterol reference materials are in the JCTLM database?

Here are some of the **cholesterol-related reference materials and methods** listed in the JCTLM (Joint Committee for Traceability in Laboratory Medicine) database (higher-order / certified):

Reference Materials in JCTLM for Cholesterol

Some key entries include:

JCTLM ID	Name / Description	Matrix / Form	Notes
NRM 383	Cholesterol (CRYSTALLINE)	Pure cholesterol / "neat solid"	Primary reference material (high-purity) used as a calibrator. jctmdb.org
C4RM43	Cholesterol	Crystalline solid	NIST solid reference material (SRM 911c) for cholesterol. jctmdb.org
C19RM5	Total cholesterol, HDL, LDL, total glycerides	Frozen human serum	Multiplex serum RM including cholesterol fractions. jctmdb.org
C11RM11	Glucose, creatinine, total cholesterol , total glycerides, HDL-cholesterol, LDL-cholesterol	Frozen human serum ↓	Combined serum RM including total cholesterol. jctmdb.org

+ Ask anything



ChatGPT can make mistakes. Check important info. See [Cookie Preferences](#).

Making NMI Services in the JCTLM visible to Chat GPT



ChatGPT

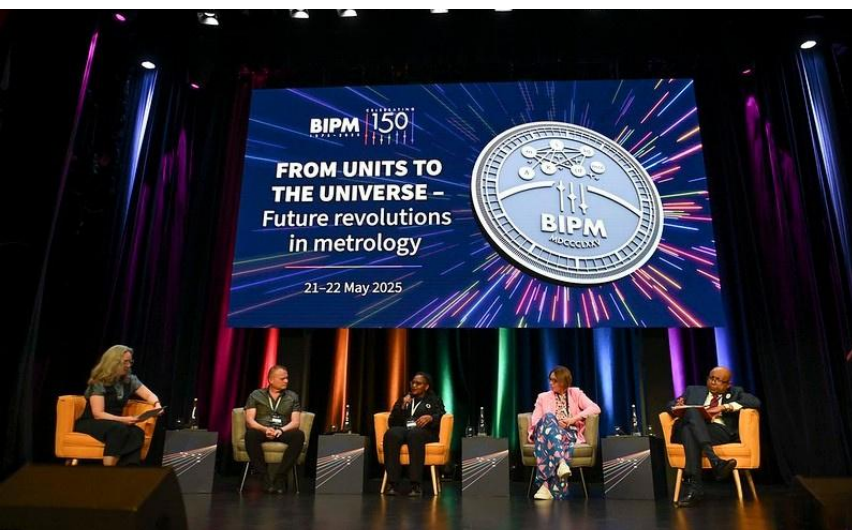
Additionally:

- **NRMeth 32** — The *CDC Abell-Kendall method* for cholesterol is listed as a reference measurement procedure (NRMeth 32). [jctlmdb.org](#)
- “**CDC reference method for HDL cholesterol in serum**” is listed in the JCTLM database (for HDL cholesterol, a lipid-fraction related measurand). [jctlmdb.org +1](#)
- In the JCTLM index, there are entries for “total cholesterol,” “HDL cholesterol,” “LDL cholesterol,” and “total glycerides” among the lipid analytes. [jctlmdb.org +1](#)

If you like, I can export a full list (with all available cholesterol / lipid reference materials and their details) from JCTLM as of the current date (2025). Would you like me to do that?

     ...  Sources

Next step: - using AI to support the peer-review process.



CELEBRATING #BIPM150

At BIPM, UNESCO and Versailles | May 2025



CELEBRATING IN SÈVRES

A photo exhibition entitled “150th Anniversary of the BIPM – Robert Doisneau and Raphaël Dallaporta” alongside a series of talks on the history of the BIPM and Metrology in [Ville de Sèvres](#) in collaboration with the BIPM.





INSTITUT DE FRANCE
Académie des sciences

DES CLÉS POUR COMPRENDRE

A special event at the French Academy of Sciences on 12 June 2025
opened by the Perpetual Secretary.

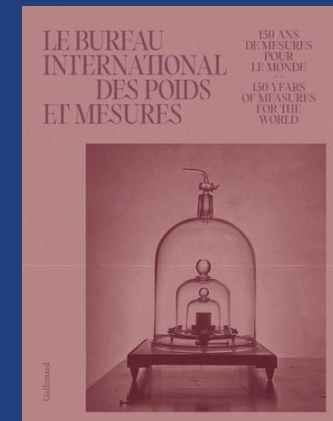
- Two Academicians (Gérard Berry and Sandrine Bony)
- Jean-Marc Bordy (LNHB)
- Céline Fellag Ariouet (BIPM)

120 participants ([recording on YouTube has 324 views](#))



ANNIVERSARY BOOK

The newly published book *The International Bureau of Weights and Measures, 150 Years of Measures for the World* is a richly illustrated history that brings the evolution of international metrology to life through photographs, stories and archival insight.



AS PROPOSED OCTOBER 2023

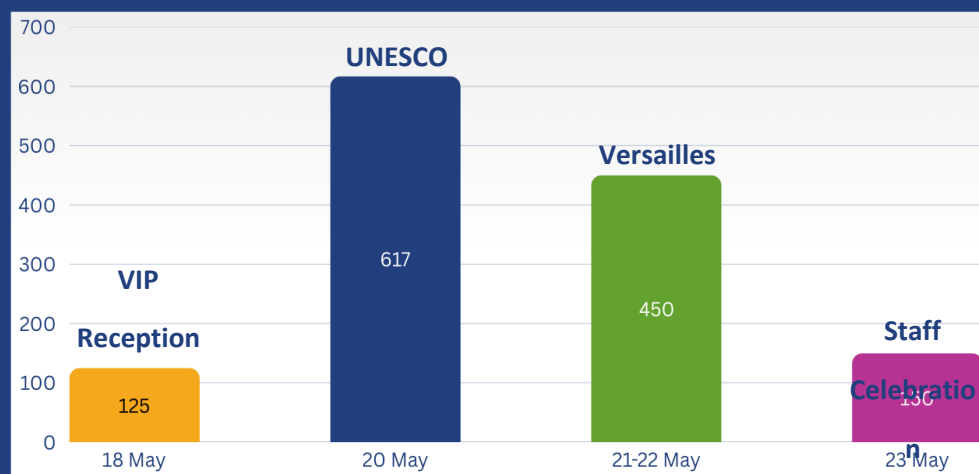


Objectives of the 150th anniversary events

- We are planning a number of events in Paris in the week of 20th May 2025.
- The aim of these events will be:
 1. To celebrate the achievements of 150 years of metrology by the BIPM since the signature of the Metre Convention.
 2. To present a new vision and strategy for the BIPM for 2030 and beyond developed by the CIPM.
 3. To promote metrology to the widest possible global audience.

SOME OF OUR HIGHLIGHTS

- ➔ Interview on France 24 with Henry Rotich- [here](#)
- ➔ Full page feature in Le Figaro on LNE - [here](#)
- ➔ Illumination of Le Molo, in Torino by INRiM
- ➔ UNESCO offered to involve “metrology” in their education outreach programmes



Réservé aux abonnés

Mètre et kilogramme : comment la France a imposé au monde ses étalons il y a 150 ans

RÉCIT - Le 20 mai 1875, la signature d'un accord international fait du mètre et du kilogramme les unités de mesure de référence. Mais en 150 ans, les deux étalons ont bien changé, et sont désormais définis en référence à des invariables de la physique, la vitesse de la lumière et la constante de Planck.

Publié le 22/05/2025 à 21:02
[Sciences & Environnement](#)



Videos

The SI by William D. Phillips World Metrology Day... 183 views • 10 days ago	Opening Session World Metrology Day Symposium... 81 views • 10 days ago	150 Years of international use of the Metric System ... 52 views • 10 days ago	Challenges in Metrology Poster Presentations from... 95 views • 13 days ago	The FAIR Digital Revolution Expert Insights from... 77 views • 13 days ago	Metrology for Science Expert Insights from... 64 views • 13 days ago
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Petrol station,
Jiayin, Heilongjiang Province, China
129.6409831° (N), 49.27944501° (E)
Aug 16, 2025

计量顺时代之需, 应民生之盼
Measurements for all times, for all people

GIFTS AND LETTERS OF THANKS

- ➔ 9 BIPM150 Anniversary Vases have been sold.
- ➔ Two commemorative plates were gifted to the BIPM from Korea and Japan.
- ➔ And countless letters of thanks received from metrology institutes around the world.



"Tamamushinuri" (traditional lacquer painting method)

Japan Broadcasting Corporation

NHK



"Tamamushinuri" (traditional lacquer painting method)

BIPM 1875 - 2025
CELEBRATING
150



**THANK
YOU**

2025