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BIPM Work Programme for 2028 - 2031: Implementing the CIPM Strategy 2030+

13 October

Annette Koo, Director of the BIPM

Delivery of global measurement trust

To **represent** the world-wide measurement community, aiming to maximize its uptake and impact.

To be a centre for **scientific and technical collaboration** between Member States, providing capabilities for international measurement comparisons on a shared-cost basis.

To be the **coordinator** of the world-wide measurement system, ensuring it gives comparable and internationally accepted measurement results.

Fulfilling our mission and objectives is underpinned by our work in **capacity building and knowledge transfer**

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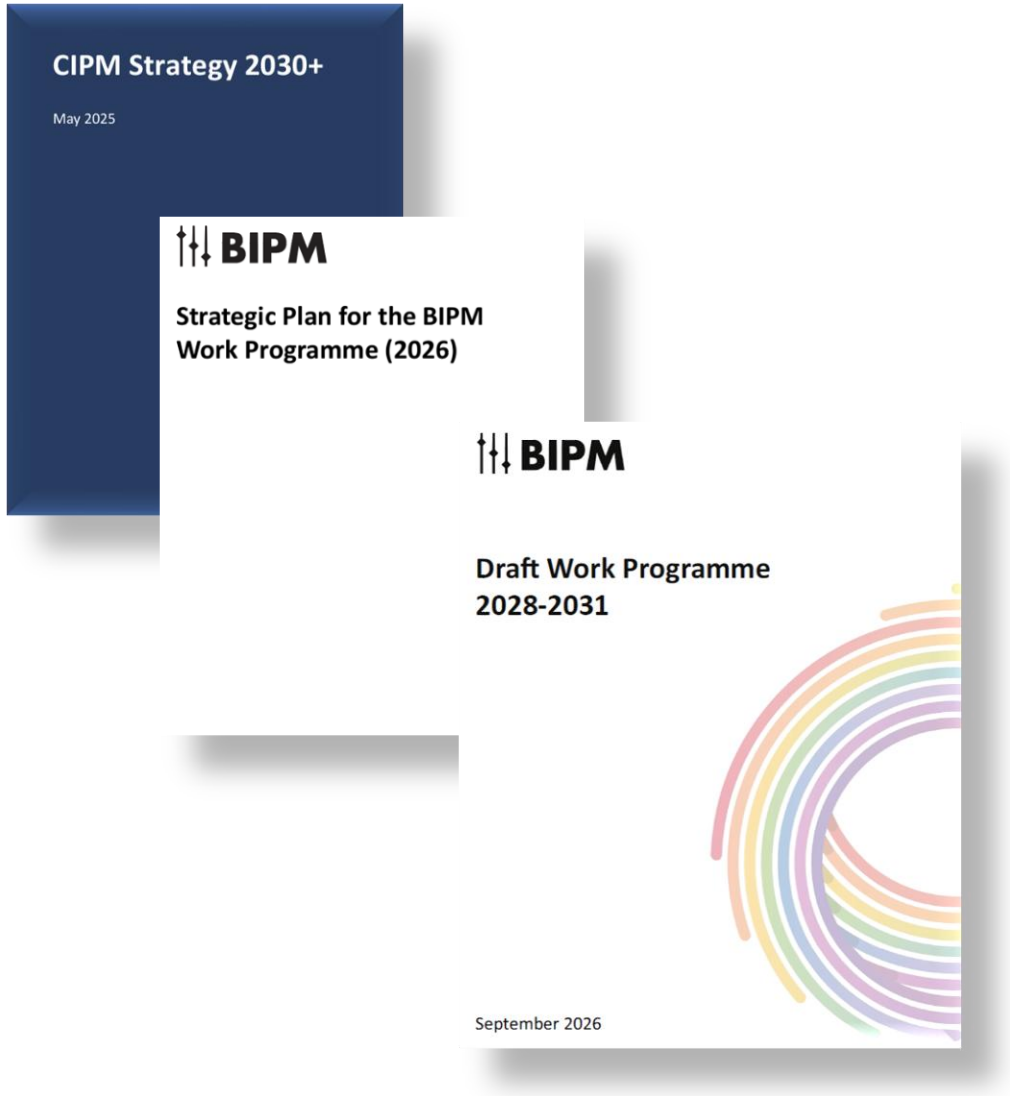
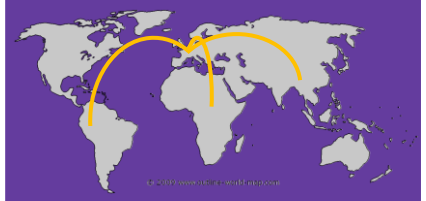


Represent the Global Measurement Community

Amplify national voices and investment

World Metrology Day



Uptake of UTC as time reference

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- Website / AI accessible reliable information
- Communication strategy for diverse audiences
- Collaboration for Education
- QI Promotion
- Liaison for Ionizing Radiation
- Metrological Traceability recognized in ChemBio

Scientific and Technical Collaboration

Enable what cannot be sustained independently

Bilateral on-site comparisons of voltage and resistance





Delivery and improvement of UTC

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- Calibrations of voltage and impedance standards
- Evolution of time services – backup UTC, lunar time
- Progress toward redefinition of the second
- Demonstrating equivalence of realizations of the kg
- BIPM Kibble balances
- Calibrations of mass

Scientific and Technical Collaboration

Enable what cannot be sustained independently

High purity DNA and RNA comparisons







Comparisons and calibrations of dosimetry

Peptide/protein comparisons

Small organics and gas comparisons

Coordination of neutron and high energy metrology

Comparisons of radionuclide activity

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Coordinate the Worldwide Measurement System

Global Trust requires global coordination

Support the CIPM MRA : maintain KCDB

KCDB 3.0



Facilitate productive meetings for Member States

- Ensure inter-regional trust (JCRB)
- Underpin the effectiveness of CIPM Groups
- Enable traceability in laboratory medicine
- Maintain critical publications (SI Brochure, GUM, VIM)

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Capacity Building and Knowledge Transfer

Greater participation benefits all Members

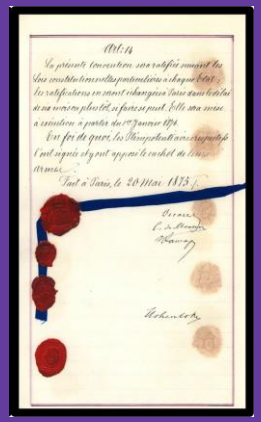
CIPM MRA Signatories





Young metrologists

Potential observer States



- On site comparisons
- Secondees
- Summer schools and in-person workshops
- Online workshops and technical exchanges
- E-learning platform
- Publication of guides and software modules

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Digital Transformation

Recognize the moment and provide anchor of trust in digital world

SI Digital Framework





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Collaboration across quality infrastructure

Platform for Digital Framework services

Digital resources (qNMR, gases, isotope ratios, nuclear data)

Digitalization of time services

Updated website, document management, and databases

Transformation of BIPM – safe and effective use of AI and modern digital tools

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Why Investment is Necessary

As Member States face increasing budget pressures, the reliable delivery of BIPM core services is becoming ever more important.

Member States have identified interoperability and comparability as essential for the development and deployment of new technologies.

Addressing global environmental and health challenges requires trusted evidence to guide and validate national investments.

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A Collective Investment in Global Trust

Funding is critical but when the programme is delivered collaboratively, the BIPM is even more effective.

- Participation of experts in
  - Consultative Committees
  - Forums & Sectoral Task Groups
  - Joint Committees
- Cooperation of Regional Metrology Organizations
- Partnership opportunities within the programme
- Membership of the CIPM

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