

Strategic Plan for the BIPM Work Programme

24th Meeting of the Directors of NMIs and
Member State Representatives

A Koo

Bureau
♦ **International des**
♦ **Poids et**
♦ **Mesures**



Objectives of BIPM

The objectives of the BIPM agreed in 2018 by the CGPM are that the BIPM should:

- ◆ represent the world-wide metrology community as **BIPM as the Advocate** aiming to maximize its uptake and impact,
- ◆ be a centre for scientific and technical collaboration between Member States, providing capabilities as **BIPM as the Scientific Centre** for comparisons on a shared-cost basis,
- ◆ be the coordinator of the world-wide measurement system, ensuring it gives comparable and internationally accepted measurement results as **BIPM as the Coordinator**

and that fulfilling the BIPM mission and objectives is complemented by its work in:

- ◆ capacity building, which aims to achieve a global balance between the metrology capabilities in Member States,
- ◆ knowledge transfer, which ensures that the work of the BIPM has the greatest impact.

Feedback on Strategic Plan

Consultation with member state NMIs in August/September

19 submissions from
5/6 RMOs
and **1** unaligned NMI

156 non-editorial
comments

Target of Comments

BIPM as Advocate	25
BIPM as Scientific Centre	74
BIPM as Coordinator	31
Stewardship Functions	19
General	7

Strategic Plan Highlights : BIPM as the Advocate

Interface with IOs
and other entities
(telecommunications,
environment,
health, food)

Partner to support
universal
participation



Support cross-
sectoral activity
(digital, quantum)

Promote
metrology in
education

Widen communications
Develop impact studies

Strategic Plan Highlights : BIPM as the Scientific Centre

Peptides and proteins

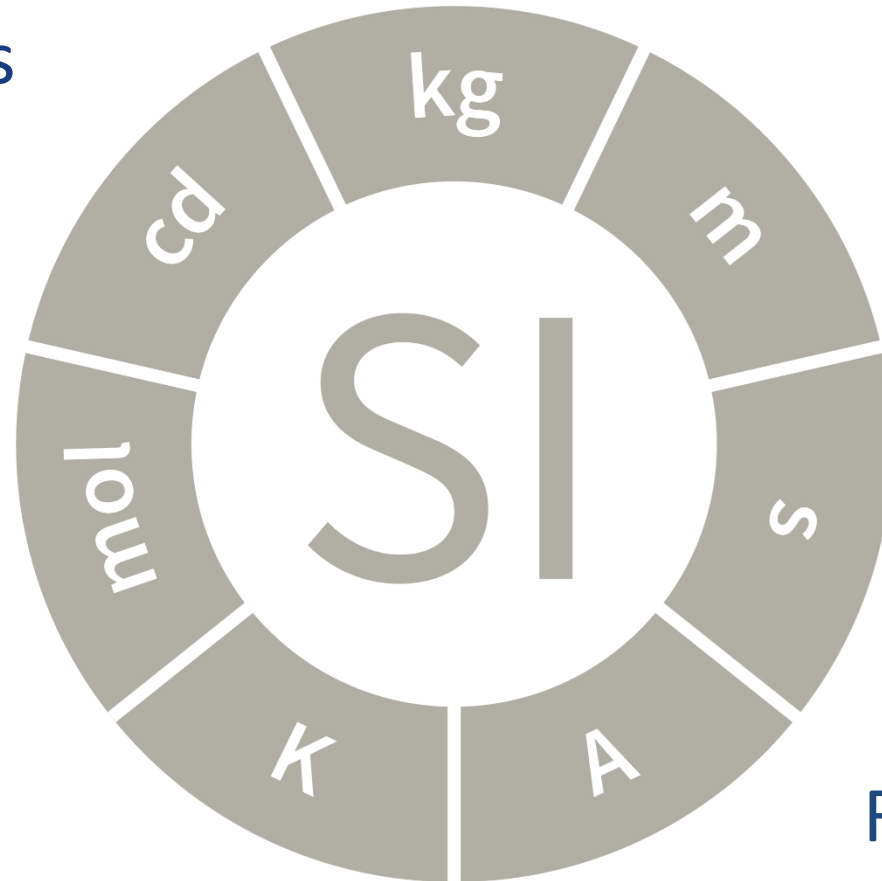
Small molecules

DNA and RNA

Gas standards

Dosimetry standards

Radionuclide activity



Kilogram realization

Future of dissemination

UTC (reliability, access,
traceability, efficiency,
continuity, lunar time)

Redefinition of the second
(comparisons, optical links)

Voltage (extension of AC)

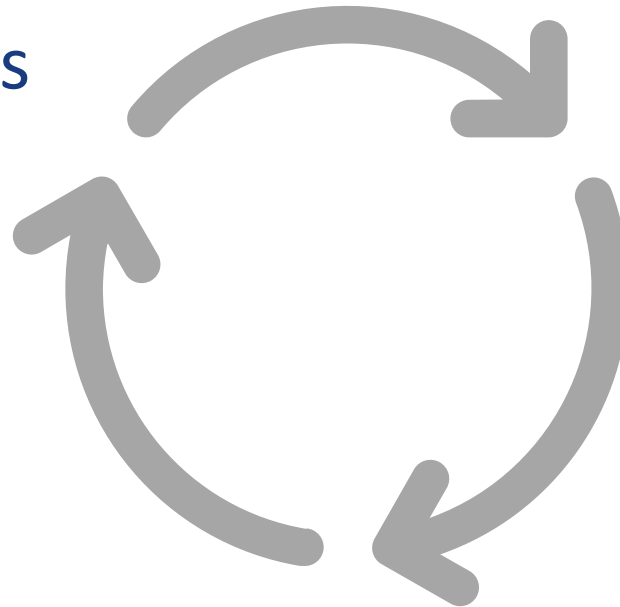
Impedance (application of graphene)

Strategic Plan Highlights : BIPM as the Coordinator

Improve data (KCDB, JCTLM, UTC), access, and tools to support processes

Establish role of SI reference point

Build support for RMO secretariats



CB and KT: Balance, Impact

- KT in areas of BIPM expertise
- Increase and ease participation in MRA
- Expand impact of regionally or nationally resourced work (e-learning, participation in workshops)

Strategic Plan Highlights : BIPM as Steward



People

- Clarity on roles and competencies
- Build in flexibility to respond to priorities
- Exchange of expertise

Infrastructure

- Cybersecurity
- Policy & tools for data architecture, AI
- Facilities
- Meeting facilitation



Some context

High
expectations
for
CB and KT

Ambitious
CCs dealing with
Challenging technical
frontiers
and
growth in need

New
**sectoral
initiatives**
driven by CIPM strategy

Increase in
costs
Services
Buildings
Equipment
Personnel

Rapidly evolving technology
Changing national priorities

Towards a Responsive and Sustainable Organization

Wider use of **Supplementary Resource Options** to pivot/grow

Strategic Plan Highlights: Opportunities to partner with us

Participant
contributions
for sector-specific
activity

Essential
equipment
donations

Use of external
facilities

Complementary
Staff

Joint
Technical
Projects

Towards a Responsive and Sustainable Organization

Wider use of **Supplementary Resource Options** to pivot/grow

Continue to build **Staff Flexibility**

Carry out **Sectoral Activities in 'Supplementary Mode'**
resourced by the interested NMIs and stakeholders.

Timeline for build up to 28th CGPM

