

## Members and Associates (September 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.



#### 259 Institutes participating in the CIPM MRA

- 103 National Metrology Institutes
  - 63 Member States
  - 39 Associates
- 4 International organizations (ESA, IAEA, JRC, WMO)
- plus 152 Designated Institutes (+1, -1 DI)

**1 735 comparisons** 1097 KCs, 638 SCs

25 887 CMCs
Peer-reviewed declarations

cs, 656 SCS | Peer-reviewed declarations

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# **World Metrology Day**

- The theme of World Metrology Day in 2021 was "Measurement for Health"
- Partner RMO was GUI FMFT
- *Translations* into **33** *local* poster versions, next to French and English
- Events listed for 38 different countries/institutions
- Partner RMO for 2022 will be



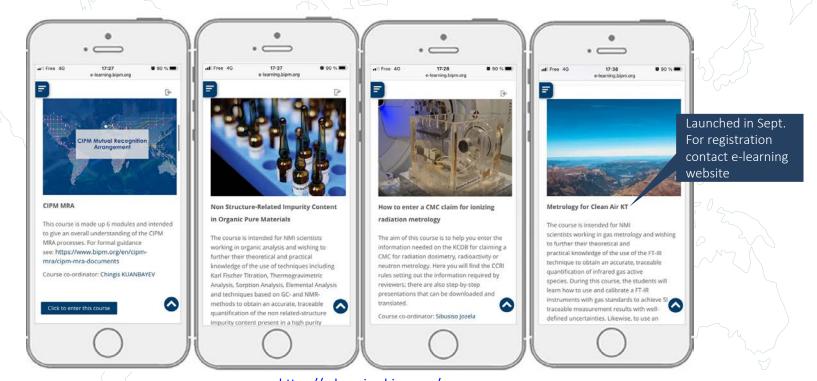
https://www.worldmetrologyday.org/index.html

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# e-Learning

363 users in the platform

## ...accessible around the clock and on any device



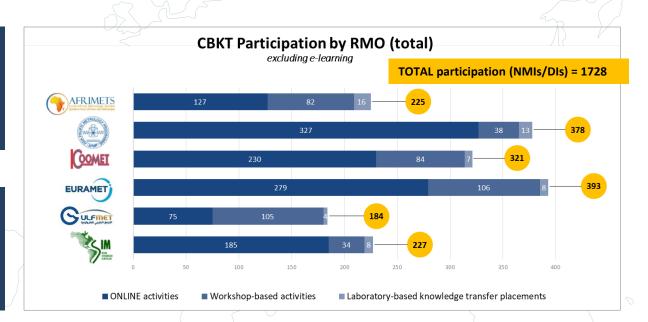
# **Capacity Building**

#### Events: Jan 2020-Sept 2021:

- 1 Workshop based course at the BIPM
- 4 short webinars
- 15 technical exchanges (7 of them repeated in the afternoons to cover all time zones)

#### Participation: Jan 2020-Sept 2021:

- 1223 NMI/DI community
- 604 Accreditation community
- + 363 registered participants in e-learning



#### Feedback collected from every course:

- without exception feedback highly positive
- presented in detail to the CIPM Secretary as part of the QMS review

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### xml version of SI-brochure complete

For scientists to share the universe of scientific information, the essential foundations are:

- <u>Persistent identifiers</u>: mechanisms for naming and locating documents, data and software in a persistent manner;
- Metadata and ontologies: mechanisms for discovery of, and access to, documents, data and software in a structured manner;

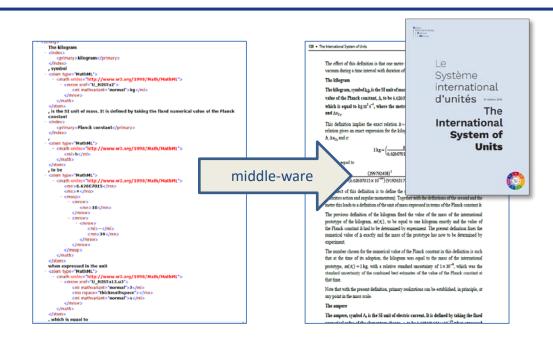
Strategic Research and Innovation Agenda (SRIA) of the European Open Science Cloud (EOSC) -Version 1.0 15 February 2021

#### **Technical details**

pdf file generated using Metanorma software (presently being checked at BIPM).

Semantic enrichment\* using:

- MathML for equations
- UnitsML for units
- \* Semantic enrichment: adding a layer of metadata for machinereadability



XML file

pdf or HTML file

## **new BIPM APIs**



https://www.bipm.org/en/cipm-mra/kcdb-api



https://webtai.bipm.org/api/v0.1/



... search for www.bipm.org for "API"

