# CIPM MRA: JCRB and KCDB

Joint Committee of the Regional Metrology Organizations and the BIPM (JCRB)
Key Comparison Database (KCDB)

**The CIPM Mutual Recognition Arrangement (CIPM MRA)** is the framework through which National Metrology Institutes demonstrate the international equivalence of their measurement standards and the calibration and measurement certificates they issue.

**CIPM MRA**

## JCRB

Coordination · Policy suggestions · Analysis and reporting

There are 250 institutes participating in the CIPM MRA, comprising 97 NMIs, 4 international organizations and 149 designated institutes.

**Inclusivity:** Gulf Organization for Metrology (GULFMET) now an RMO with full rights, all regions of the world are now covered.

**Efficiency and effectiveness:**
- CIPM MRA documentation consolidated into a suite of six policy and guideline documents.
- CMC review durations reduced to less than 100 days (median).
- Key comparison completion delays halved compared with historical performance.
- Strongly supported by the Capacity Building and Knowledge Transfer programme training.

**Communication:**
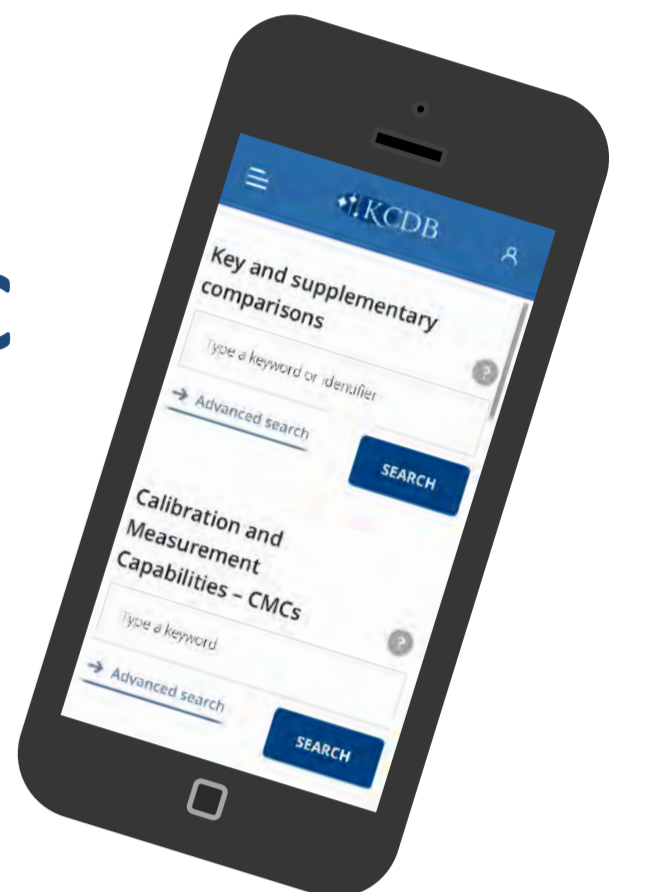A suite of CIPM MRA brochures has been released to explain and highlight the CIPM MRA, its mechanisms, and key players.

## KCDB

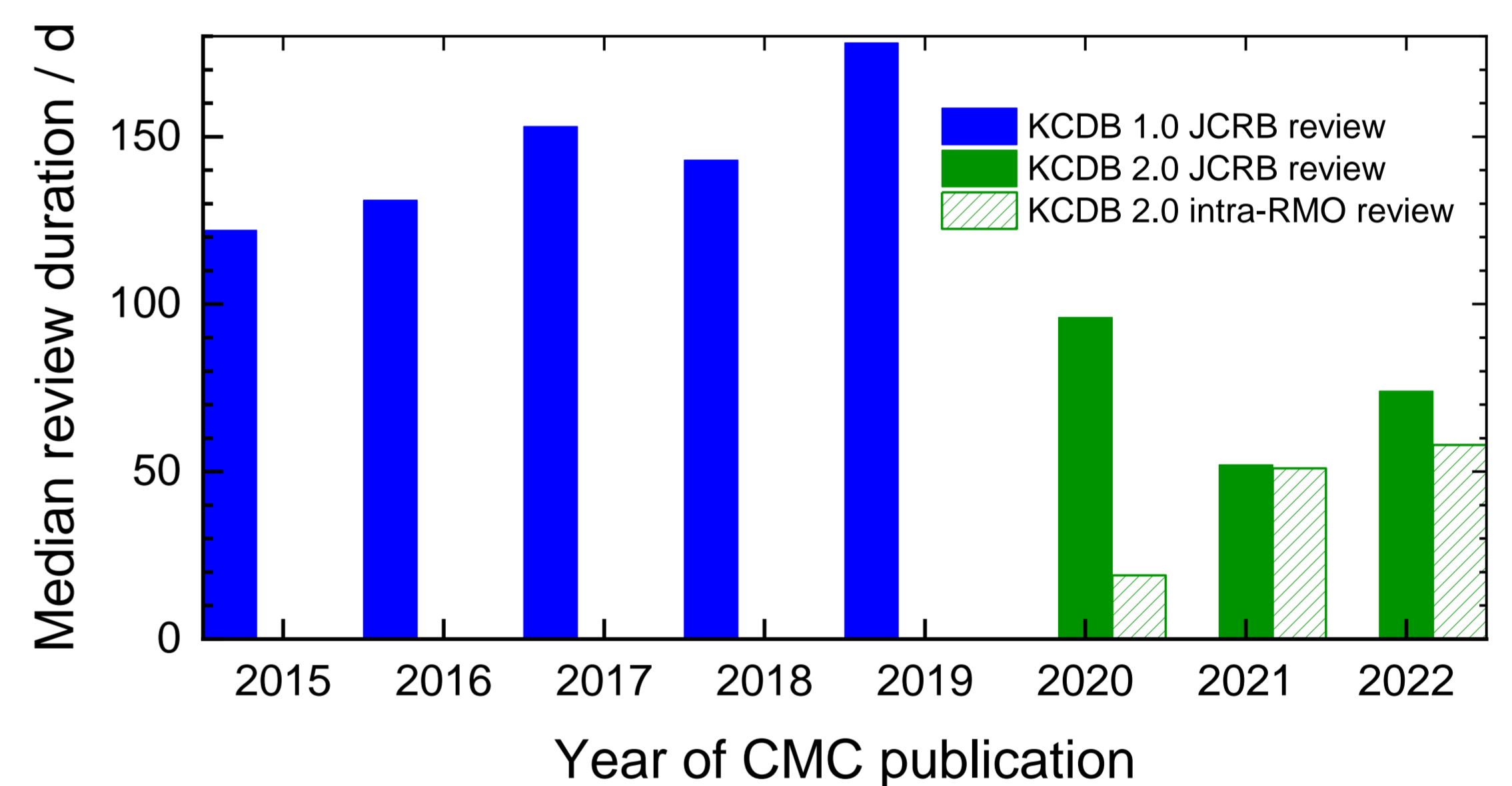In October 2019, a new version of the **KCDB** was launched.
It provides:
- **an interactive single platform for CMC submission, review and publication**
- **improved search facilities**
- **a tailored statistical tool**

A newly developed Application Programming Interface (API) for the KCDB provides the first steps towards machine-readable CMC data.

**The new support has contributed to the reduced CMC review duration and publication delay.**

Median review duration / d vs Year of CMC publication

Legend:
- KCDB 1.0 JCRB review
- KCDB 2.0 JCRB review
- KCDB 2.0 intra-RMO review

2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022

**CIPM MRA Brochures**

Web platform ensures correct formatting

No manual transfer of data for review

No manual transfer of data for publication

Web-platform allows RMOs to view and download data

CMC Writer → URL → CMC Reviewer → URL → CMC Finder

CMC drafted at the NMI and placed on the CMC platform...

...made accessible to the Technical Committee Chair of the RMO for review...

...subsequently made accessible to the JCRB for approval...

...and made available on the KCDB webpages.
https://kcdb.bipm.org/