CCEM/17-22

On the revision of the KCDB 2.0

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Bureau

International des

Poids et

Mesures

CCEM 24 March 2017

- 1. Up to now
- 2. Concept
- 3. Numerical search
- 4. Questions to the CCEM

CIPM MRA UP TO NOW: revised implementation of the CIPM MRA

CGPM 2014

Resolution 5 On the revision of the CIPM MRA

invites

- the Consultative Committees and the JCRB to continue their ongoing efforts to streamline operations within the existing framework, and to prepare for and contribute to the wider review in 2015,
- the CIPM to establish a working group under the chairmanship of its President, with membership to be determined at the 2015 workshop, to conduct a review of the implementation and operation of the CIPM MRA,

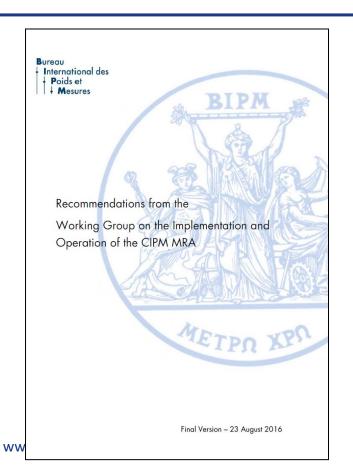
CIPM MRA

workshop 13 – 14 October 2015



CIPM MRA

workshop outcome







KCDB 2.0 Main Objectives

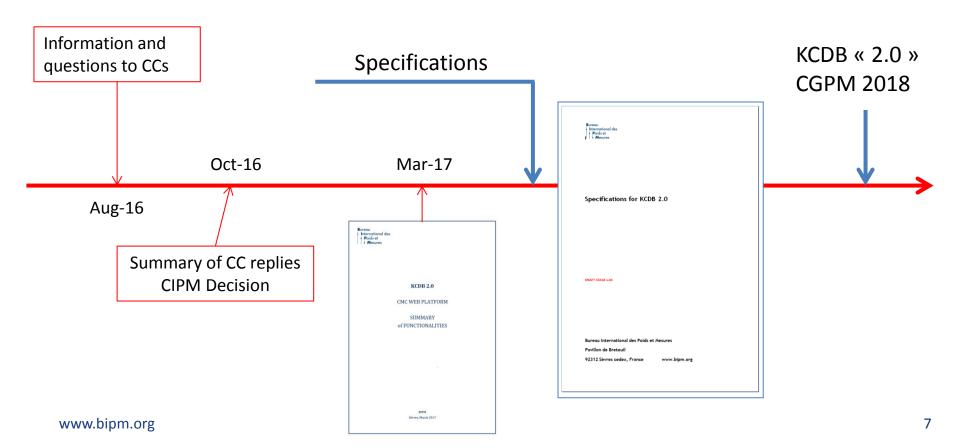
BETTER SEARCH FACILITIES

USERFRIENDLYWEB SUPPORT

WEB BASED CMC
SUBMISSION
AND REVIEW

TRACK
COMPARISONS IN
REAL TIME

UP TO NOW



CONCEPT

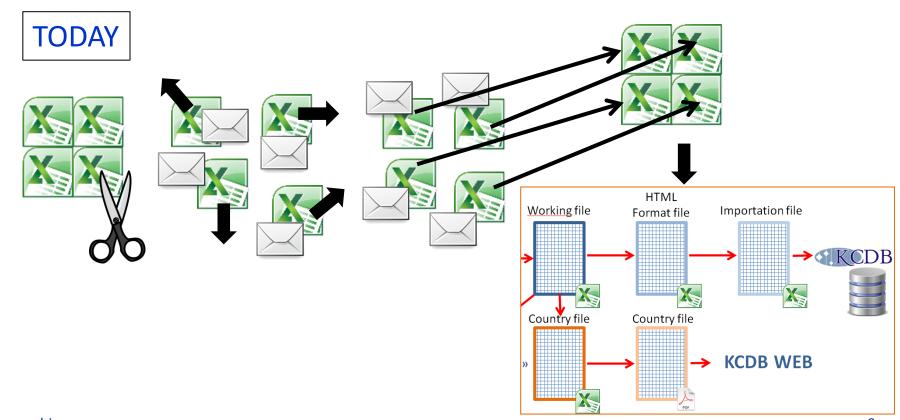
BETTER SEARCH FACILITIES

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CMC WEB PLATFORM

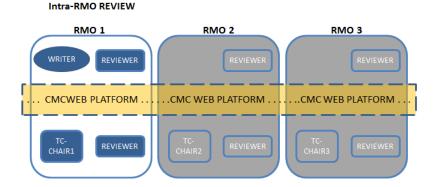


CMC WEB PLATFORM

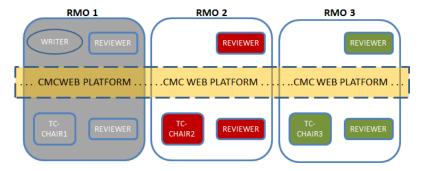
TOMORROW

WRITER – REVIEWER – FINDER concept

Risk based evaluation included Sequential access



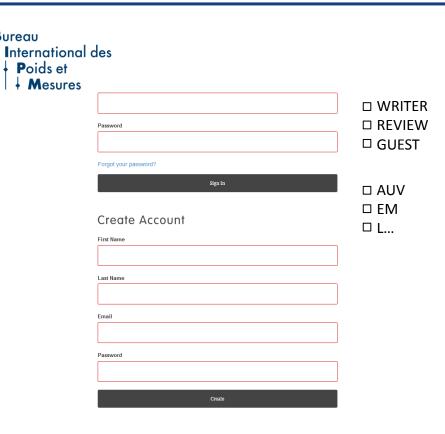
INTER-RMO REVIEW



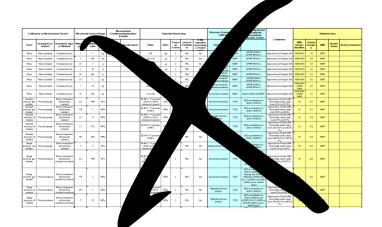
KCDB 2.0 Restricted access to CMC Web Platform

Bureau

- WRITER
- TC-CHAIR / permanent
- TC OBSERVER
- **REVIEWER**
- **GUEST**
- JCRB Exec. Sec. / permanent
- KCDB Office / permanent

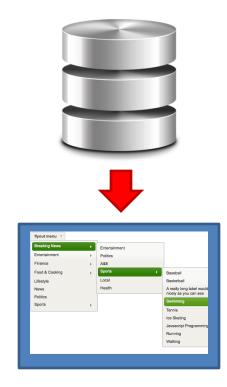


CMC WEB PLATFORM



EXCEL no longer the **SOURCE**...

... but an optional tool



BETTER SEARCH FACILITIES

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USERFRIENDLY

INTUITIVE APPROACH
STANDARDIZED WEB TOOLS
EASY ACCESS TO INFORMATION
VISUAL ERGONOMY...

CONCEPT

BETTER SEARCH FACILITIES

USERFRIENDLY WEB SUPPORT

WEB BASED CMC SUBMISSION AND REVIEW

TRACK
COMPARISONS IN
REAL TIME

TRACK COMPARISONS

Comparison conducted by	<u></u> in		Date:
l. Subfield:		RMO inte	rnal identifier
. KCDB identifier:			
(for KCs and SCs) (to be attributed by the BIPM)			
3.Type of comparison:	4. Shor	t description:	
Key Supplementary Pilot study			_
. Measurand and nominal value(s):			Special characters for copying (if required)
			αβΓγΔδεζηθικλμ
5. Parameter(s):			
7. Transfer device(s)/sample(s):			
B. Pilot/Coordinating laboratory(ies) (acronyn	ns and countries):		
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Date Status Planned Danned Date Status	ries):		nentary Key
Participating institutes (<u>acronyms and count</u> Progress: (please note date and tick appropriate box to in Date Status	ries):		nentary Key
Date Status Planned Protocol complete/approved	ries):		nentary Key
D. Participating institutes (<u>acronyms and count</u> 10. Progress: (please note date and tick appropriate box to in Date Status Planned Protocol complete/approved In progress	ries):		nentary Key
Date Status Planned Protocol complete/approved In progress Measurement completed Report submitted to	ries):	Supplen	
D. Participating institutes (acronyms and count 1.0. Progress: (please note date and tick appropriate box to in Date Status Planned Protocol complete/approved In progress Measurement completed Report in progress Report submitted to Results approved	ries):	Supplen	
Date Status Planned Protocol complete/approved In progress Measurement completed Report submitted to	ries):	Supplen	

Information into database to allow search on progress.

Alerts to pilots with request for update.

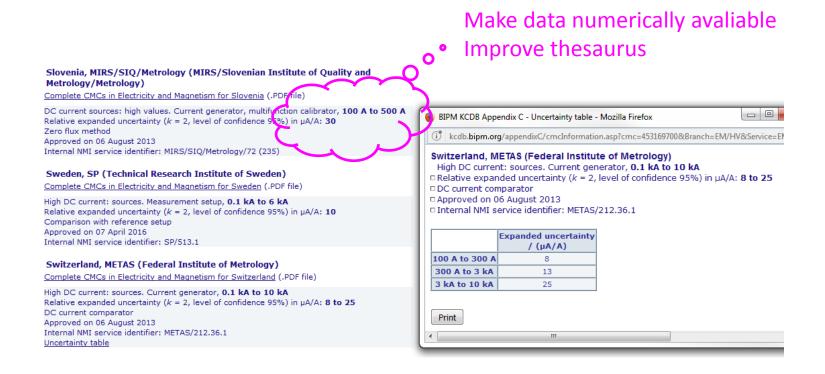
BETTER SEARCH FACILITIES

USERFRIENDLY WEB SUPPORT

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BETTER SEARCH FACILITIES



BETTER SEARCH FACILITIES

TODAY: Impossible to search on value of

measurand nor uncertainty

TOMORROW: Possibility to search on value of measurand

and uncertainty within a range?

BETTER SEARCH FACILITIES

- To search on a value, we need to transform data to accessible values
- Give information on range...

TODAY...

	U value	U unit
Constant	25.2	K
Range	3.5 to 48.1	mSv
Equation	Q[0.4, 0.6E-02 <i>L</i>], <i>L</i> in mm, values range from	μm
Matrix	3.0 to 8.0	μV

... TOMORROW?

U(min)	U(max)	U unit	Representation	Function
25.2	25.2	K	Constant	NO
48.1	3.5	mSv	Range	NO
0.400	0.406	μm	Equation	Q[0.4,0.6E-02L]
3.0	8.0	μV	Matrix	YES



BETTER SEARCH FACILITIES

	CMCs	Eq	Mtx
AUV	1160	3	0
EM	4480	50	1310*
L	1620	850	0
M	2760	300	0
PR	1270	20	0
Т	2550	40	5
TF	760	50	0
RI	4100	0	0
QM	6230	20	0

* Supporting 1750 CMCs

KCDB 2.0 Questions to the CCEM

Issues for the CCEM

- 1. Revision corresponding to 50 equations will be requested
- 2. Limited modifications of units requested
- 3. Support for thesaurus requested
- 4. No particular impact on matrices is expected
- 5. Role of WG-RMO Chair will be considered
- 6. Find slot without CMC publication to go from KCDB 1.0 to 2.0
- 7. Carry out revision of #8 and #9 when KCDB 2.0 available

Thank you

Bureau International des Poids et Mesures

