

On the revision of the KCDB 2.0

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Bureau
International des
Poids et
Mesures



1. Up to now
2. Concept
3. What's next - issues concerning the CCAUV

Up to now : Recall of objectives

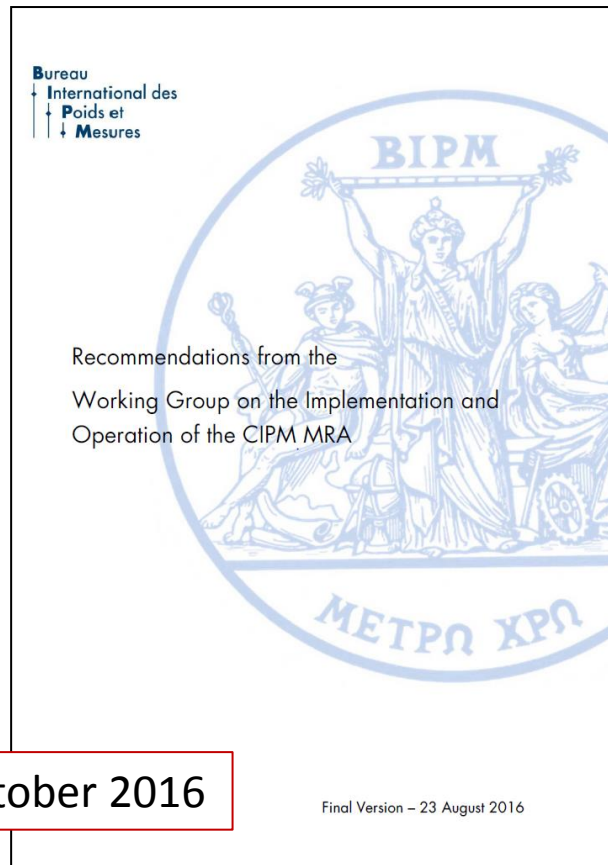
CGPM Resolution 5 (2014)

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,



Approved by the CIPM in October 2016



Where are we now ?

Information and questions to CCs

Summary of CC replies

CIPM decision on revision Oct 2016

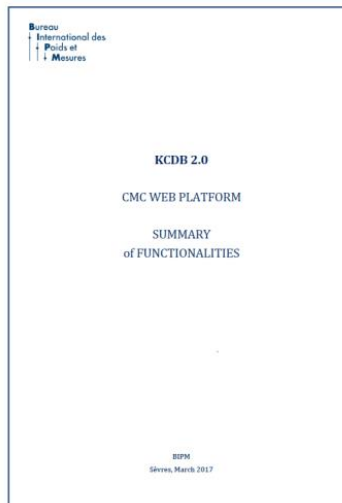
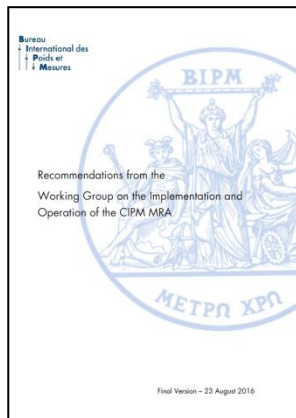
Drafted specifications

Information to CCs March 2017

Call for tenders April 2017

Tender Selected Sep 2017

↑
Aug 2016



KCDB 2.0 **Concept** : Main Objectives

**BETTER SEARCH
FACILITIES**

**USERFRIENDLY
WEB SUPPORT**

**WEB BASED CMC
SUBMISSION
AND REVIEW**

**TRACK
COMPARISONS IN
REAL TIME**

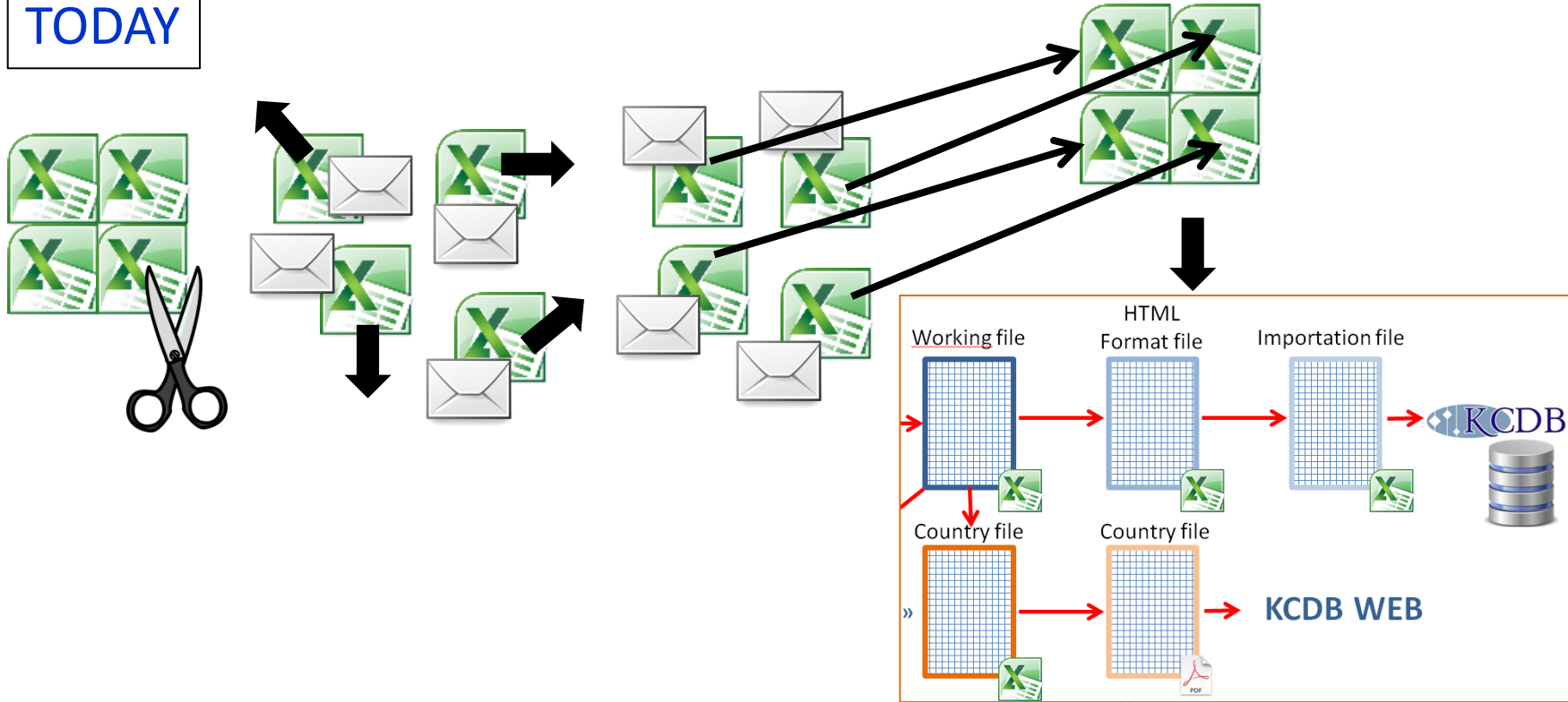
**BETTER SEARCH
FACILITIES**

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WEB SUPPORT**

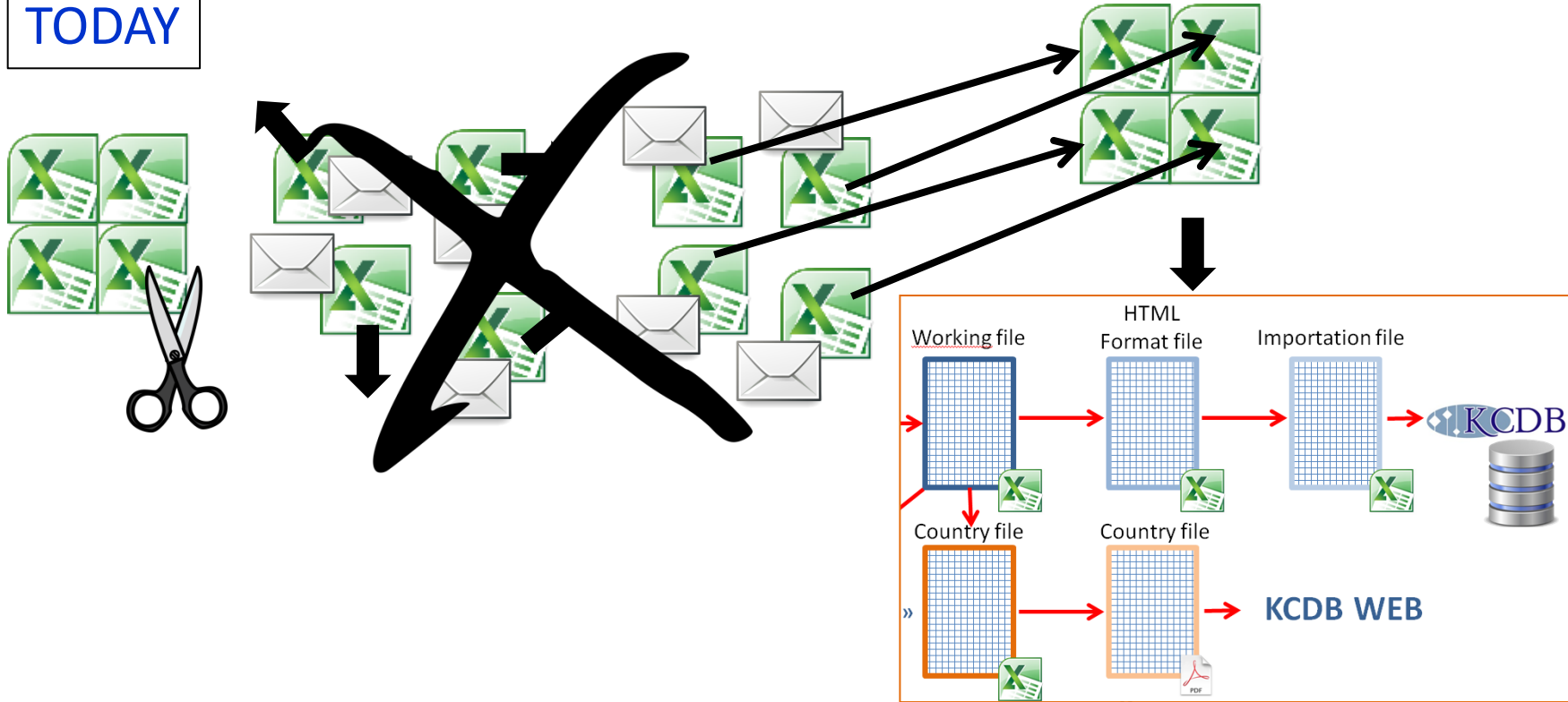
**WEB BASED CMC
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**TRACK
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TODAY



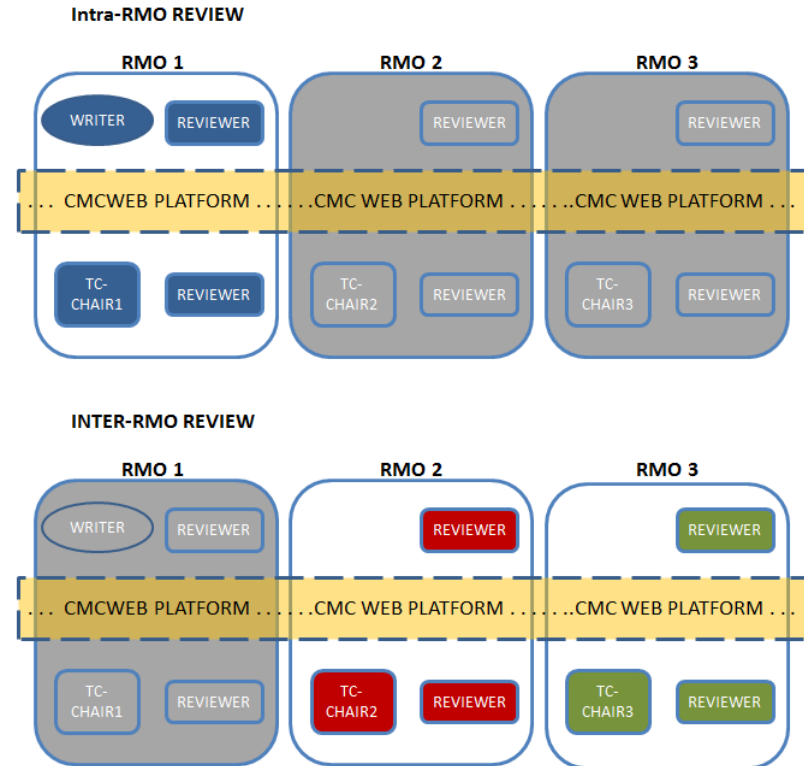
TODAY



TOMORROW

WRITER – REVIEWER – FINDER concept

- Support for both intra and inter RMO review
- No batches but one-by-one
- Sequential access
- Accessible via a user account
- Risk based evaluation included



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Key and supplementary comparisons (and pilot studies) - registration and progress form

Comparison conducted by: <input type="text"/>		in: <input type="text"/>	Date: <input type="text"/>
1. Subfield:	RMO internal identifier		
2. KCDB Identifier:	<input type="text"/>		
<small>(for KCIs and SCs)</small>	<small>(to be attributed by the BIPM)</small>		
3. Type of comparison:	4. Short description:		
Key <input type="checkbox"/> Supplementary <input type="checkbox"/> Pilot study <input type="checkbox"/>	<input type="text"/>		
5. Measurand and nominal value(s):	Special characters for copying <small>(if required)</small> <input type="text" value="α β Γ γ Δ δ ε ζ η θ ι κ λ μ"/>		
6. Parameter(s):	<input type="text"/>		
7. Transfer device(s)/sample(s):	<input type="text"/>		
8. Pilot/Coordinating laboratory(ies) <small>(acronyms and countries)</small> :	<input type="text"/>		
9. Participating institutes <small>(acronyms and countries)</small> :	<input type="text"/>		
10. Progress: <small>(please note date and tick appropriate box to indicate current status)</small>			
Date	Status	Pilot	Supplementary
<input type="text"/>	Planned	<input type="checkbox"/>	<input type="checkbox"/>
<input type="text"/>	Protocol complete/approved	<input type="checkbox"/>	<input type="checkbox"/>
<input type="text"/>	In progress	<input type="checkbox"/>	<input type="checkbox"/>
<input type="text"/>	Measurement completed	<input type="checkbox"/>	<input type="checkbox"/>
<input type="text"/>	Report in progress	<input type="checkbox"/>	Draft A <input type="checkbox"/> Draft B <input type="checkbox"/>
<input type="text"/>	Report submitted to <input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="text"/>	Results approved	<input type="checkbox"/>	<input type="checkbox"/>
<input type="text"/>	Approved for equivalence	<input type="checkbox"/>	<input type="checkbox"/>
<input type="text"/>	Abandoned	<input type="checkbox"/>	<input type="checkbox"/>
V Comments:	Publication reference:		
<input type="text"/>	<input type="text"/>		



Information into database to allow search on progress.

Alerts to pilots with request for update.

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Possibility to search on **value of measurand and uncertainty within a range**

Improved Thesaurus

Issues for the CCAUV on UNITS

A	V	W
C/N	no unit	mW
	°	W
dB	C/(m/s ²)	μV/Pa
dB (reference 1V/Pa)	C/(rad s ²)	mV/Pa
dB (reference value for the unit: 1 V/Pa)	m/s ²	V/Pa
dB (reference: 1 V/Pa)	mV/(m/s ²)	dB (reference: 1 V/μPa)
	pC/(m/s ²)	dB (reference: 1 μV/Pa)
dB (reference: 1 N/(m/s))	rad/s ²	
dB (reference: 1 pW)	V/(m/s ²)	
dB (reference: 1 V/N)		
dB (re 20 μPa)		
dB (reference: 20 μPa)		
dB (reference: reference equivalent threshold force)		
dB (reference: sensitivity at 250 Hz)		
dB (reference: true sound pressure level)		
dB (reference: true sound pressure)		
dB HL (reference: threshold of hearing)		
V/N		

1. Revision corresponding to 3 equations will be requested
2. Support for thesaurus requested
3. Units
4. Find slot without CMC publication to go from KCDB 1.0 to 2.0

Next ?

- Establish contract with selected service provider
- Launch the project by meeting with the Project Director (October 2017)

CGPM 2018



- Continuous exchange during the development to avoid « tunnel effects »

Thank you

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