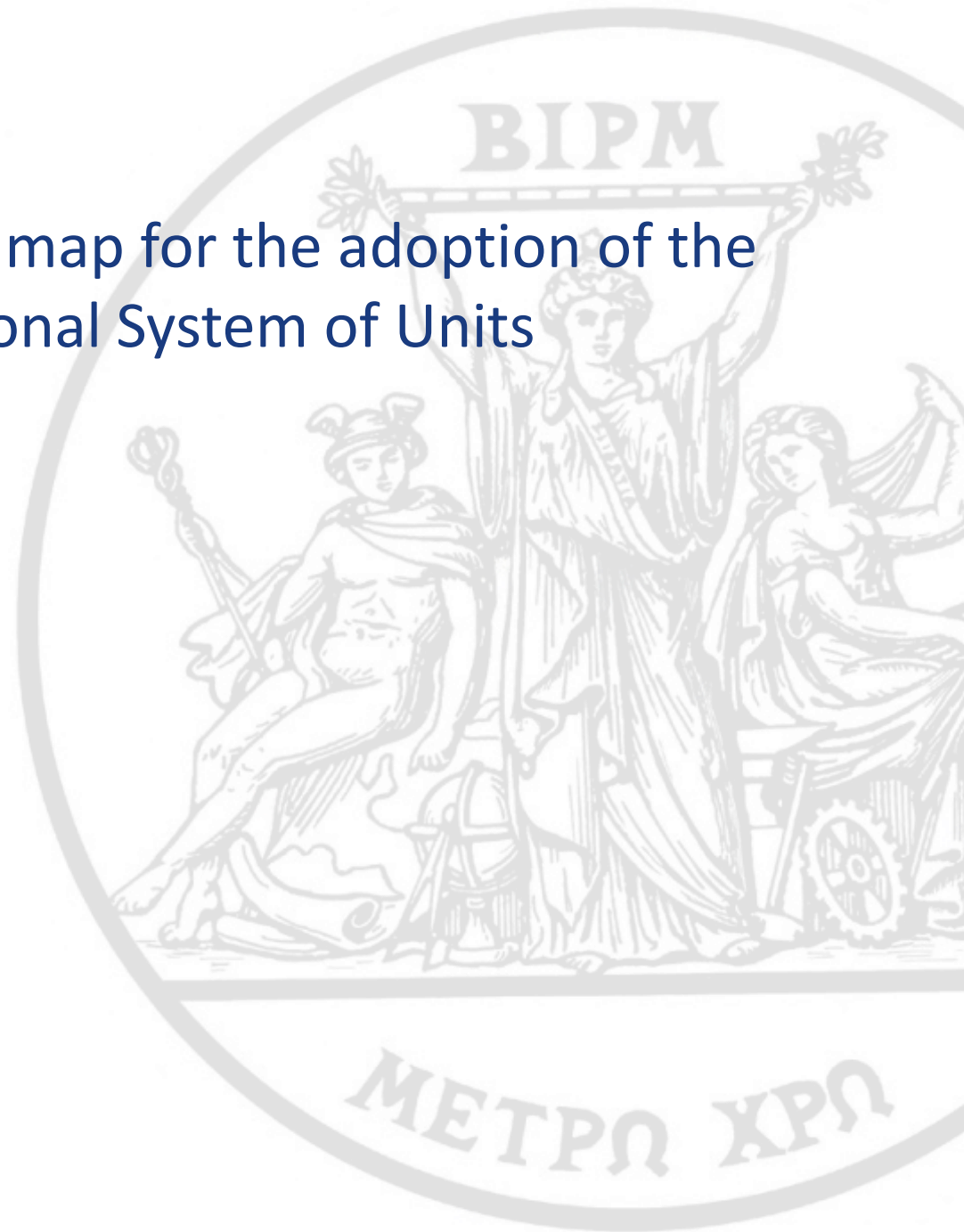


Joint CCM and CCU roadmap for the adoption of the revision of the International System of Units

Dr Philippe Richard,
CCM President
and
Prof. Joachim Ullrich,
CCU President



CCM conditions (before redefinition)

◆ **R1 Consistency**

Three independent experiments (XRCD & WB)
with consistent results with $u_{rel} < 5 \cdot 10^{-8}$

◆ **R2 Uncertainty**

at least one result with $u_{rel} < 2 \cdot 10^{-8}$

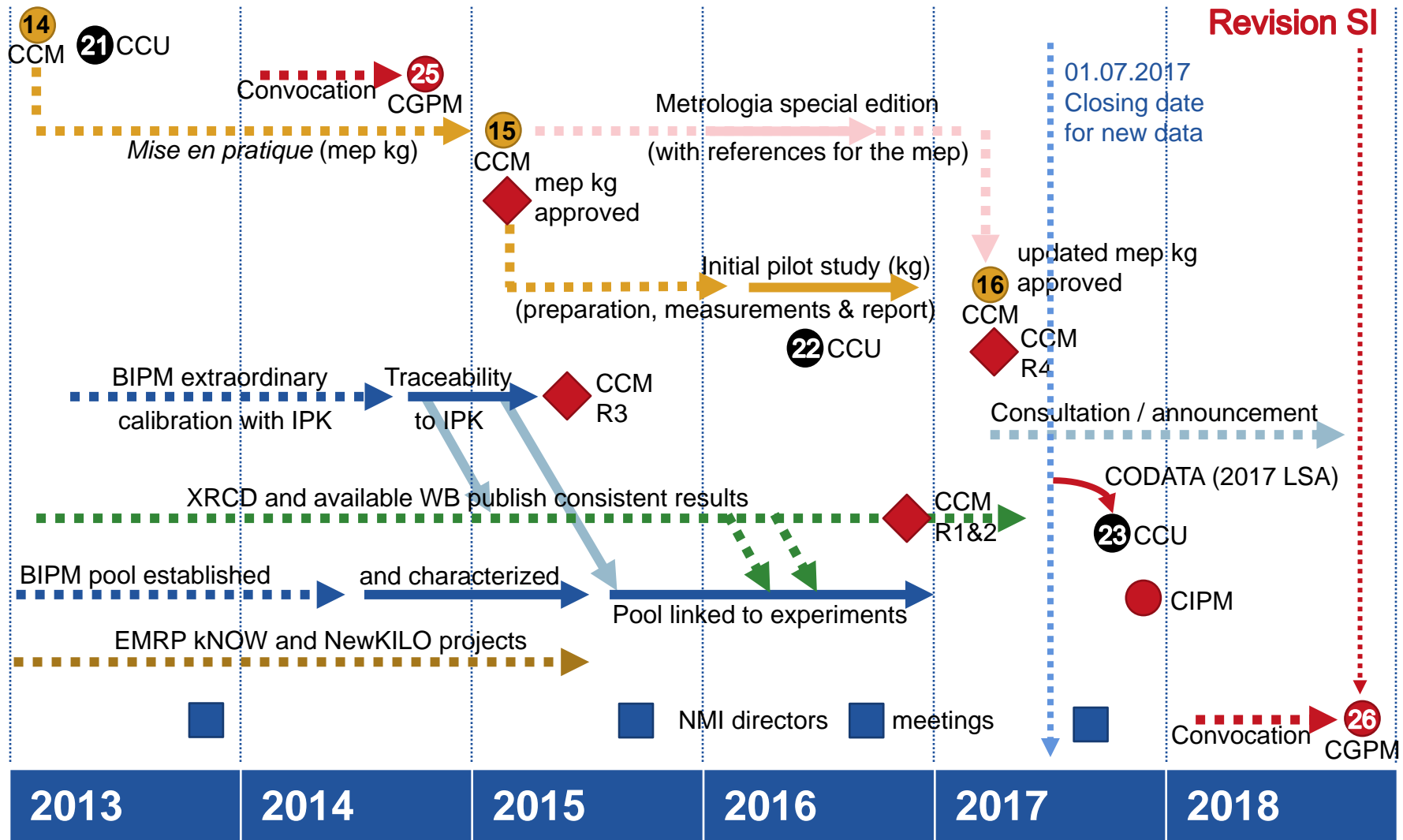
◆ **R3 Traceability**

Extraordinary calibration with IPK @ BIPM

◆ **R4 Validation**

Validation of the *mise en pratique* according to
the CIPM-MRA

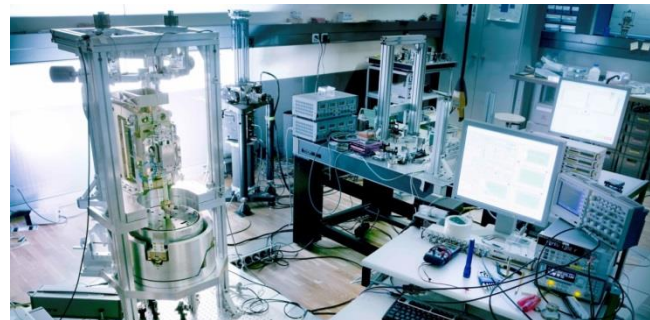
Joint CCM and CCU roadmap for the new SI



◆ Conditions from CCM Recommendation G1 (2013)

Next steps

- ◆ Conclude the CCM pilot study
- ◆ Approval of the results of the pilot study
- ◆ Publish the focus issue of Metrologia
- ◆ Final approval of all *mise en pratique*
- ◆ Final review of the situation with the CCM Recommendation G1 (2013)
- ◆ CODATA least square adjustment
- ◆ Final version of the SI brochure
- ◆ Recommendation for the CIPM, draft resolution for the CGPM



Conclusions

- ◆ The CCM, the CCU and the other CCs continue their planning and hard work to **be ready for 2018** according to the joint roadmap
- ◆ **No significant deviation** on the **timeline** of the joint roadmap is expected
- ◆ The **26th CGPM** will take place in **2018**
- ◆ **Excellent preparation** (results, mise en pratique, communication) and thus very good reasons to be **optimistic** for an important **change of the SI in 2018**
- ◆ The IPK will not any more have a special status among the standards in use at the BIPM

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