Reflections on the CIPM MRA: the NIM China Perspective

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Role and Significance

• **A key force driving NIM’s development over 15 years:**

• Significantly improved technical capabilities of NIM and the entire National Metrology System of China
• Effectively increased awareness and investment of government on metrology
• Strongly underpinned trade, industries, and social progress of China
Problems and Puzzles

Efficiency & effectiveness of CIPM MRA processes:

• Some key comparisons take too long and consume too many resources

• A fast increase of CMC numbers has imposed an significant workload on RMO TCs, the review quality will inevitably be undermined
The NIM’s view to enable CIPM MRA sustainability

- **Ensure that key Comparisons are “state of the art”:**
  - KC should focus on the highest level, primary standards. Further criteria of KC should be set to narrow the scope but ensure the level of CIPM KCs.
  - NIM will make more contribution to the KCs under the guidance of the new criteria.

- **Prioritize & narrow-down CMC items on a “service-oriented” basis:**
  - To review CMC subjects and remain those really making sense to industries and society.
  - For each measurement quantity, to identify core calibration and measurement capabilities and then shrink CMC items.
The NIM’s view to enable CIPM MRA sustainability

• Promote the application of CMCs to trade, industries, etc:
  
  • To select and develop CMCs according to national needs, with more attention paid to measurement challenges in emerging areas, as a way to improve government investment return, increase government awareness and stakeholder communities’ recognition
  
  • Both BIPM and NMIs should make more efforts to make CMCs better known and accessible to external customers
  
  • How can mutual recognition of calibration certificates truly and better applied in trade and industries?
Thank You for Your Attention

谢谢大家