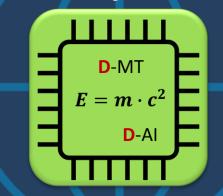
# Actionable Key Comparisons



CCM-Meeting 05/2023

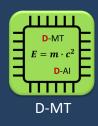
B. Rodiek, F. Härtig

### **Outline**





Digital transformation of the SI



Ready Actionable Comparison Infrastructure



**Global Cooperation** 

# CPGM: resolution B, Nov. 2022





### CPGM: resolution B, Nov. 2022



The General Conference on Weights and Measures (CGPM), at its 27th meeting, ...

#### ... encourages

- the CIPM to continue its outreach and engagement initiatives to ensure that the <u>Metre Convention</u> naturally <u>extends its role</u> as the globally accepted <u>anchor of trust for metrology</u> into the <u>digital era</u>,
- the CIPM to undertake the development and promotion of an SI
  Digital Framework, that will include the following features:
- # a <u>globally accepted</u> digital representation of the SI, compatible with, and useable within, <u>digital data exchange standards</u> and protocols, whilst maintaining compatibility with existing non-digital solutions,
- # facilitating use of <u>digital certificates</u> in the existing robust infrastructure for the world-wide recognition and acceptance of calibration and measurement capabilities,

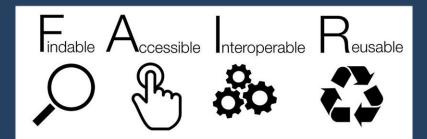
# CPGM: resolution B, Nov. 2022





# the adoption of the <u>FAIR principles</u> (Findable, Accessible, Interoperable, and Reusable) for digital metrological data and metadata, ensuring that other communities recognize the critical importance of metrological traceability for measurement data, the latter being an established requisite for <u>building trust</u>

"



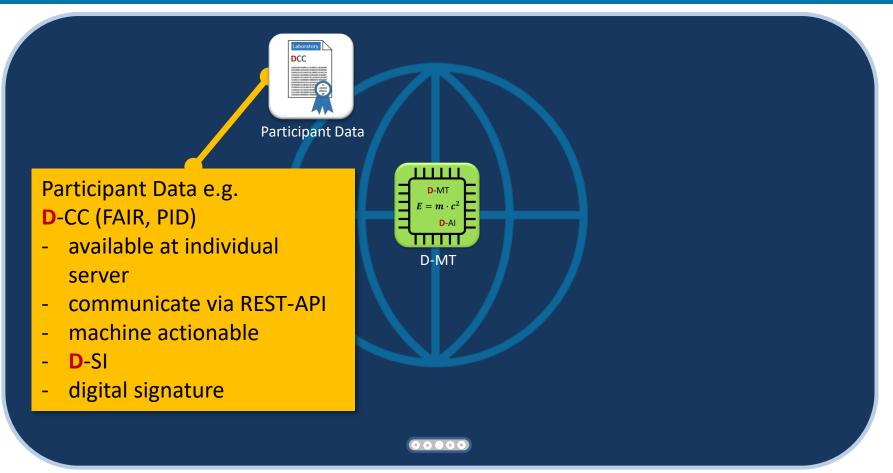


#### Evaluation Modul (FAIR, PID)

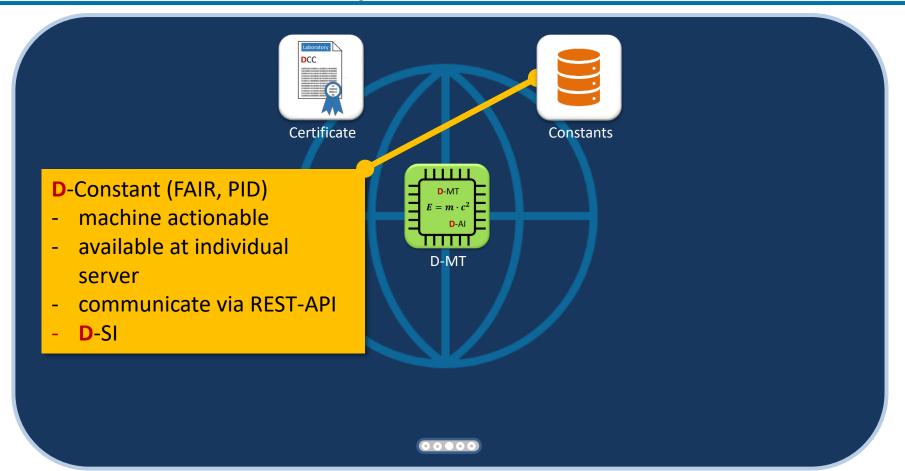
- acts as a D-MT
- communication master
- using machine actionable content
- calculates relevant data
- Al-modules check validity
- generate report









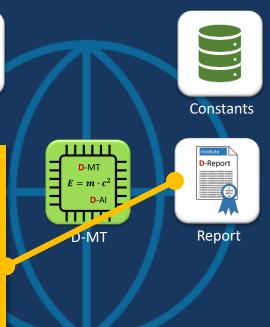






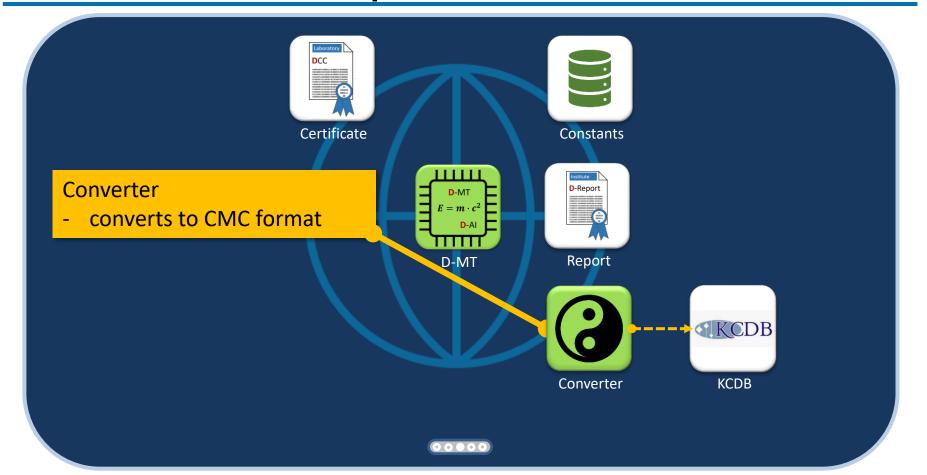
# **D**-Report based on **D**CC (FAIR, PID)

- machine actionable
- provided in XML
- D-SI
- covers all relevant information from partners
- human readable possible













# Cooperation







#### Follow our pilot platform grow:

https://d-si.ptb.de



#### Contact:

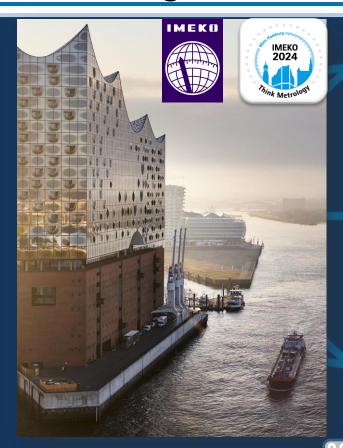
frank.haertig@ptb.de (strategic contact) daniel.hutzschenreuter@ptb.de (technical contact)



# **IMEKO World Congress 2024**





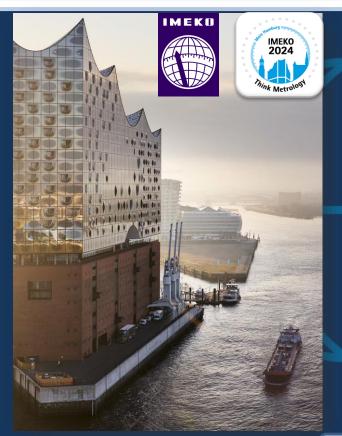


- D-SI
- unit converter
- ontology database
- DCCs pre-normative documents
- DCCs in industrial applications
- DCCs used by intercomparisons
- DCCs in QI-Digital
- DCoCs
- DPP (digital product pass)
- "...
- workshops & exhibition
- show your developments

# **IMEKO World Congress 2024**







26-29 August 2024 Hamburg, Germany



www.imeko2024.org

# **Actionable Key Comparisons**



