

EURAMET Digital Strategy and the TC-IM WG M4D

Activities in support of EURAMET's
aims

Digital strategy: implementation



- EURAMET TC-IM for coordination with WG “Metrology for digital transformation” (M4D) as “think tank”
- Dedicated projects in TC-IM for specific implementations and tasks under the coordination of WG M4D
- EURAMET TCs for field-specific expertise and developments
- EURAMET EMNs for topics driven by a clearly identified and coherent stakeholder community

Facts and figures 2021 – WG M4D



- Brings together DCC experts from EURAMET Members
- General aim is harmonisation of DCC to support uptake by calibration labs and customers
- SCP “DCC2GO” to support smaller and emerging EURAMET Members in getting started with DCC
 - Preparing a technically focussed survey as gap analysis for NMIs & calibration laboratories
- Close collaboration with EURAMET Secondee on DCCs to support TCs

- Collaboration with EMPIR projects on good practice in research data management
- Gathering of research data management policies of NMIs as examples for further developments
- Comments on Data Management Plans (DMP): Horizon Europe template and EMP guidelines
- Defining metrics for what good practice looks like
 - Great way to communicate impact to EC
- Training materials in preparation to enable scientists to get the most from DMPs
 - Want DMPs to be a useful tool not a burden

- Challenges and opportunities in sensor network metrology
- Started 22nd May 2022, kick-off meeting will be in June
- Linking with relevant EMNs & TCs: Energy Gases, Climate and Ocean Observation, MathMet, Smart Electricity Grids, Flow, Temperature, ...
- Still shaping work packages: likely to develop use cases and a roadmap

Metrology Partnership Digital Transformation Call



- TP DIT Orientation Workshop: 70 participants, pitches and discussion of PRTs, orientation document shared
- Participation in 10 submitted PRTs
- Strong links to the four selected, all discussed at the workshop:
 - Uncertainty evaluation for machine learning
 - Trustworthy virtual experiments and digital twins
 - Fundamental principles of sensor network metrology
 - Quality of data in the European Open Science Cloud

Links with other organisations



- Participation in related groups:
 - CIPM TG “SI Digital Framework”
 - Chairing OIML Digital task group
 - European Open Science Cloud Task Force on “FAIR metrics and Data Quality”
 - SIM M4DT; APMP Digitalisation group



**EUROPEAN OPEN
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Asia Pacific Metrology Programme



Benefits of M4D to EURAMET



- Define good practice for data management and metrics to assess project approaches: virtuous circle
- Work with EMNs and TCs to develop guidance, training and tools that meet the needs of metrologists
- Support development of PRTs and project consortia to deliver impactful science
- Share learning and good practice across all laboratories to develop digital capability throughout Europe
- Link with other relevant bodies to promote metrology externally and bring good practice into metrology