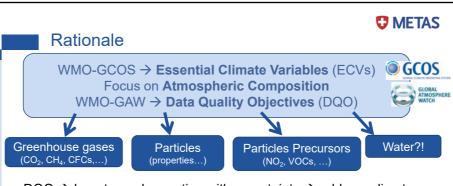


Federal Institute of Metrology METAS



EMN for atmospheric Essential Climate Variables

Céline Pascale



■ DQO → long-term observation with uncertainty → address climate change and air quality trends

Actual state:

- Some DQO not met because of lack of suited Reference Materials!
- Some NMIs have capabilities but one NMI cannot cover all the ECVs and all the NMIs don't have to cover all of them!
- → Join capabilities, elaborate common strategy, focus efforts, allow sufficient redundancy, better use of resources

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NMIs:

LNE, VSL, NPL, VTT, METAS, ...



Stakeholders:

GCOS, GAW, monitoring networks, meteorological stations, instruments manufacturers,...

Background: EMRP/EMPIR projects with successful technical progress, impact and collaboration







Activities:

- References for newly emitted compounds or reactive compounds
- Uncertainty improvement of existing references (to meet DQO)
- Regular exchanges with stakeholders
- Common long-term strategy

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Outputs

- Research and development based on existing knowledge
- New infrastructures
- New services and/or Certified Reference Materials
- New CCL or extend capabilities of actual CCL
- Stronger link with stakeholders and between NMIs
- Use of complementary competencies and resources



Impact

Deliver uniform and stable SI-references for high priority ECVs :

- → improve quality of measurement
- → enable data evaluation of climate trends

Common strategy to answer societal and environmental challenges

→ deliver sound data for policy maker

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Thank you very much for your attention