



The European Metrology Network for Energy Gases

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ProMetH2O M18 meeting
02-11-2022



European Metrology Network for Energy Gases

Under EURAMET

Official start: February 2019

19 NMI/DI members in 2022

www.euramet.org/european-metrology-networks/energy-gases/



Chair:	Annarita Baldan (VSL, NL)
Vice-chair	David Learmonth (TÜV NEL, UK)
Secretary	Marcel Workamp (VSL, NL)
Steering committee	Karine Arrhenius (RISE, SE) Henri Foulon (LNE-LADG/ Césame E., FR) Heinrich Kipphardt (BAM, DE) Arul Murugan (NPL, UK)



National Metrology Institute



flow measurement services



Bundesanstalt für Materialforschung und -prüfung



Physikalisch-Technische Bundesanstalt Braunschweig und Berlin



CENTRO ESPAÑOL DE METROLOGÍA



ISTITUTO NAZIONALE DI RICERCA METROLOGICA



ENERGY GASES

How can metrology support the energy gas transition?

Challenge:

Reliability and robustness of measurement results to address the energy gas transition at production, transport, distribution, storage and end-use.

Solution:

European coordinated effort to interface and collect stakeholder needs and to address these needs in the most efficient way at metrological, standardization, and policy level

Creation of
European Metrology Network for Energy Gases



Achievements in 2021



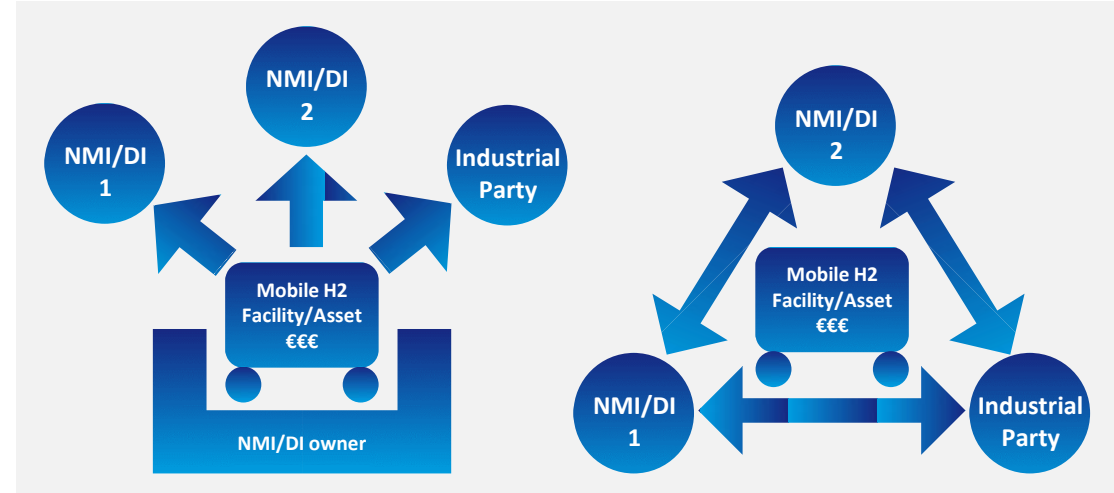
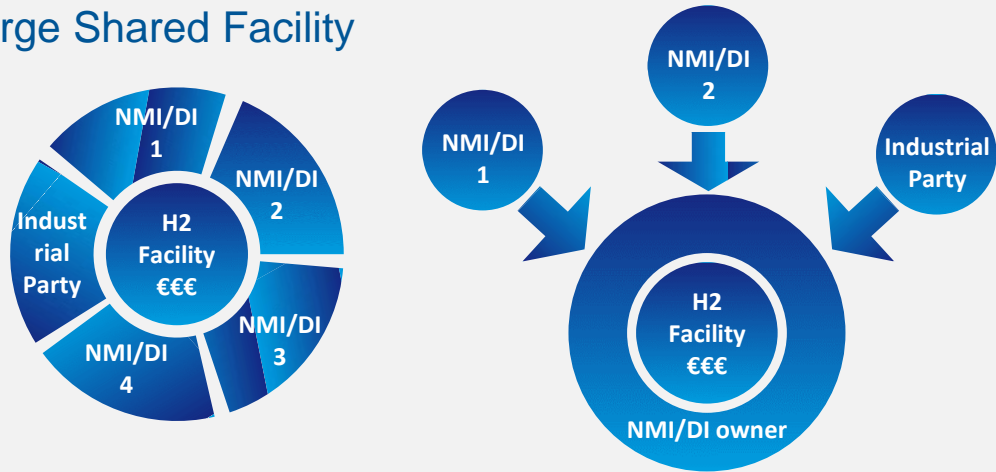
- Brainstorm in preparation for Green Deal call 2021 – Dec 2020 for NMIs/DIs with expertise in Flow, Chemistry, Temperature/Humidity and close related EMNs (> 50 participants)
The outputs of EMN SRA were presented and used as basis for research ideas
- 3 PRTs were submitted as follow-up of the brainstorm
- 2 JRP proposals with strong consortia were submitted and selected

Green Deal	Met4H2	Metrology for the hydrogen supply chain	Adriaan van der Veen (VSL)
Green Deal	CCUS	Metrology support for carbon capture utilisation and storage	Arul Murugan (NPL)

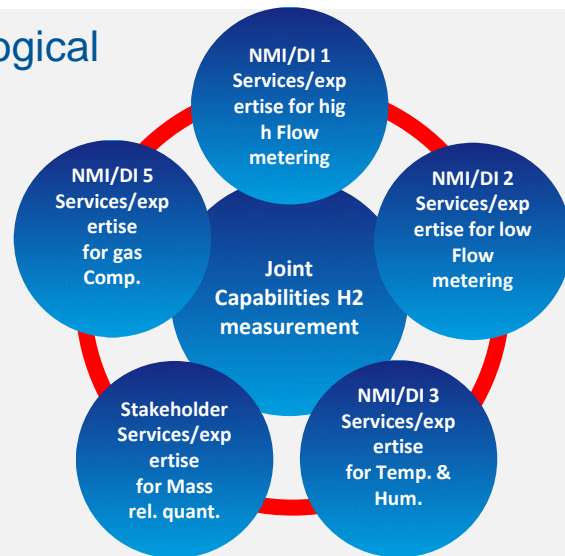
Good example of multi disciplinary projects : flow, gas analysis and humidity

Joint services

Large Shared Facility



Joint Metrological Services



Joint Training

