

Europese werkgroepen en standardisatie

update over TC264 en EU activiteiten

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VITO



EUROPEAN COMMITTEE
FOR STANDARDIZATION

CEN standardization work

- CEN, the European Committee for Standardization
 - Develops EN standards and TS (Technical Specification)
 - Consensus based process
 - Documents developed by CEN Technical Body and approved through vote by the CEN national members

- **CEN TC 264: Air Quality**
 - Focus on ambient air and emissions
 - Convenor: Rod Robinson (NPL)
 - Secretary: Ljubba Woppowa (DIN)

- **Validation work** as input for standardisation



Overview TC264 WGs

Ambient Air

WG 11 Ambient air – Diffusive samplers

WG 12 Ambient air – VOCs/SO₂/NO₂/O₃/CO

WG 13 Ambient air – Ozone precursors and benzene (M561)

WG 15 Ambient air – PM₁₀/PM_{2.5}

WG 21 Ambient air – PAHs (M611)

WG 28 Ambient air and emissions – Bioaerosols

WG 30 Ambient air – Biomonitoring methods with fl. plants

WG 32 Ambient air – Particle number concentration

WG 35 Ambient air – EC/OC

WG 39 Ambient air – Airborne pollen grains and fungal spores

WG 41 Emissions+ambient air – Instrumental odour monitoring

WG 42 Ambient air – Air quality sensors (M610)

WG 43 Ambient air – Modelling quality objectives (M612)

WG 44 Ambient air – Source apportionment

Emissions

WG 1 Emissions – Dioxins and PCB (M588)

WG 8 Emissions – Total mercury (M588)

WG 9 Emissions – Quality assurance of AMS

WG 28 Ambient air and emissions – Bioaerosols

WG 33 Emissions – GHG in energy-intensive industries

WG 38 Emissions – Diffuse VOCs

WG 40 Emissions – Formaldehyde (M588)

WG 41 Emissions and ambient air – Instrumental odour monitoring

WG 45 Emissions – Proficiency testing schemes

WG 46 Task Force Emissions

WG 47 Emissions – Diffuse emissions from building vents and roof openings

NEW: WG 48 PFAS in ambient air, emission, deposition

26 (14+12) ACTIVE WGs

Yearly TC264 plenary meeting: Agenda (dd. 16-17/6/26)

- Secretary's report
- Update and relevant activities by DG ENV, JRC, AQUILA
- Report of all TC WGs by convenors
 - EISMEA applications and project proposals : WG32: PNSD workshop; WG40+WG38: formaldehyde + ammonia; WG48: PFAS and Black Carbon activities
- Report of Mandates: details see next slide
- Liason with and other activities:
 - TC474 (CO₂capture) TC234/WG14 (methane emissions), Horizon Europe Program
- CEN/TC264/WG46 "Task force emissions"
- Cooperation with ISO/TC 146
- EURAMET pre-normative metrology activities
- Convenors workshop: European Annual Work Programm (AUWP): demands, duties, activities

Mandates: on-going standardization work

- WG13: Ozone precursors (M561)
- WG1: Long-term sampling PCDD/PCDF/PCB (M588):
- WG8: Long-term sampling of Hg (M588)
- WG32: Particle Number Concentration
- WG40: Periodic measurement of CH₂O (M588)
- WG42: Ambient air - sensors (M610)
- WG43: Ambient air - modelling quality objectives (M611)
- WG21: Ambient air - PAH (M612)

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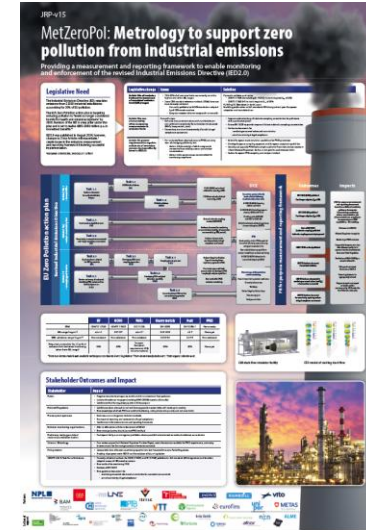
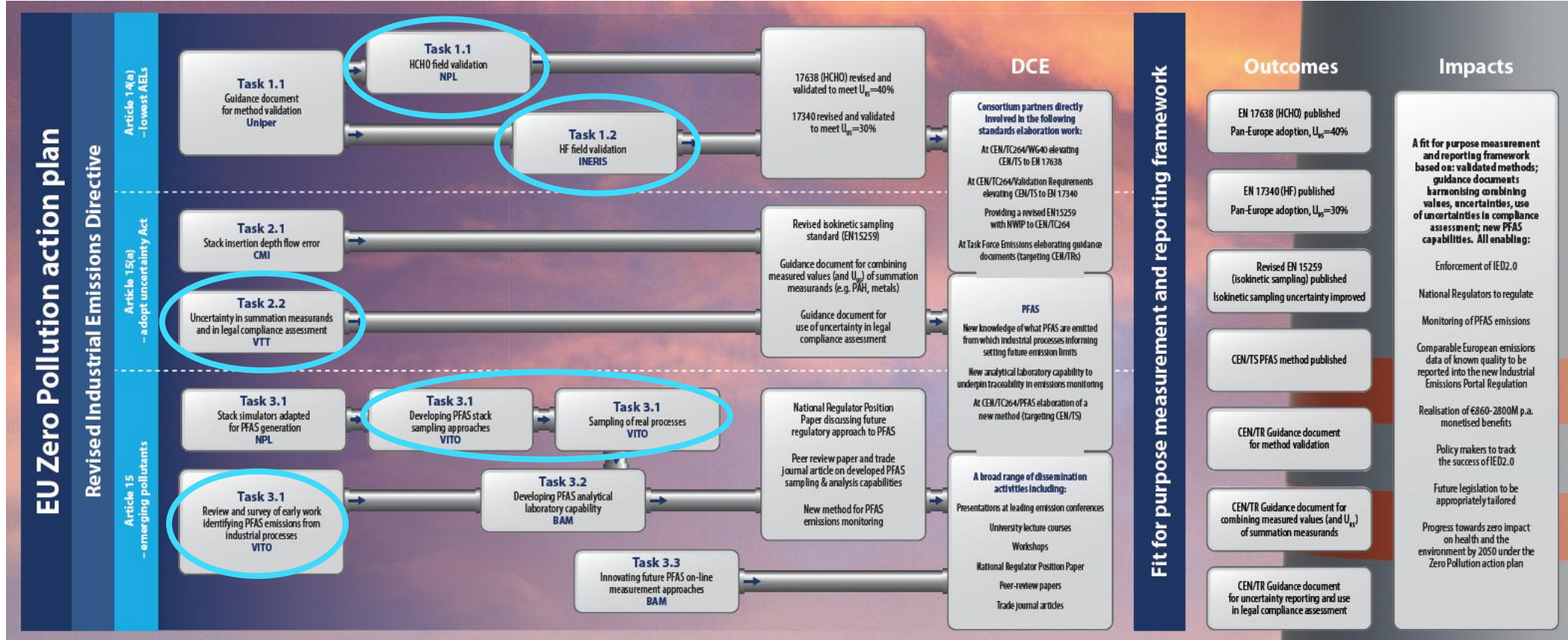
Prenormative research - standardization work

- Research to transfer a TS -> CEN standard: validation work
summary of mandated projects: [CEN/TC 264 projects](#) | [VDI](#)
- WG 43 "Ambient air – Modelling quality objectives"
 - Project lead by VITO (2024-2027)
 - Evaluation of TS '*Ambient Air – Definition and use of modelling quality objectives for air quality assessment*'
- WG 21 "Ambient air – PAH" :
 - Project lead by INERIS (started February 2026)
 - Support for the establishment of a method for the measurement and monitoring of polycyclic aromatic hydrocarbons (PAH) in ambient air (EC-ENV/2025/OP/0014)
- WG 42 "Ambient air – Sensors"
 - Project lead by VITO (2025-2028)
 - Evaluation of TS '*Ambient air - Performance evaluation of air quality sensors - Part 1 (gas) and Part 2 (PM)*'

MetZeroPol

“An ILC at an industrial installation involving emissions teams from across Europe is key to showing the true pan-European variance associated with a measurement method under real conditions”

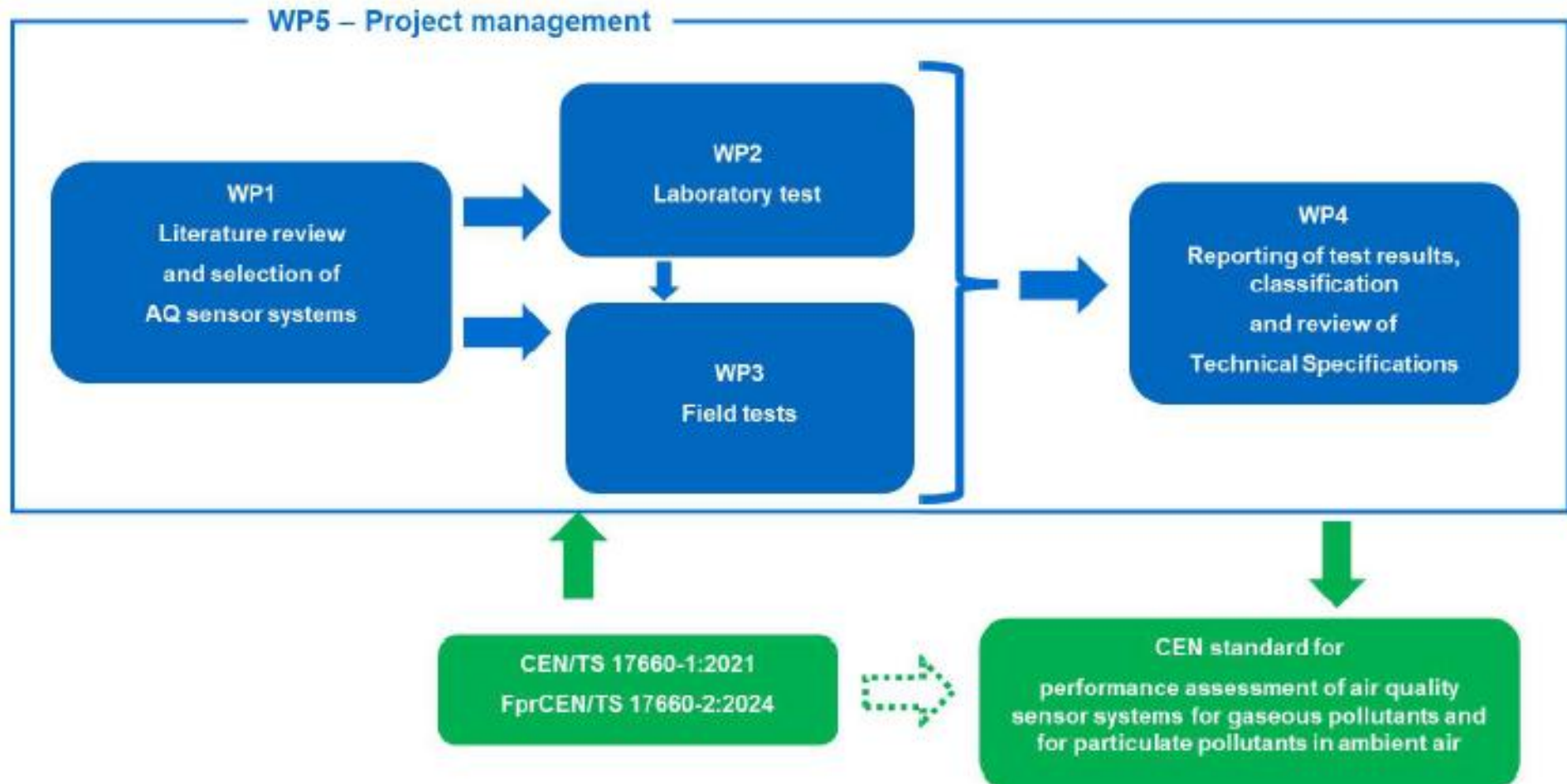
- Metrology to support zero pollution from industrial emissions (2025-2028)



Pre-normative research WG42

- Support for the development of **performance assessment of air quality sensor systems** for gaseous pollutants and particulate pollutants in ambient air (EC-ENV/2024/OP/0047)
 - Funded by DG ENV
 - Validation of the TS 17660-1 (gasses) and TS 17660-2 (PM) for sensor validation
- TS 17660-1&2
 - Test protocol including laboratory and field test
 - Classification of sensors based on DQO and performance criteria (Class 1-2-3)
 - In context of using sensor for ambient measurements as indicative measurements/objective estimations

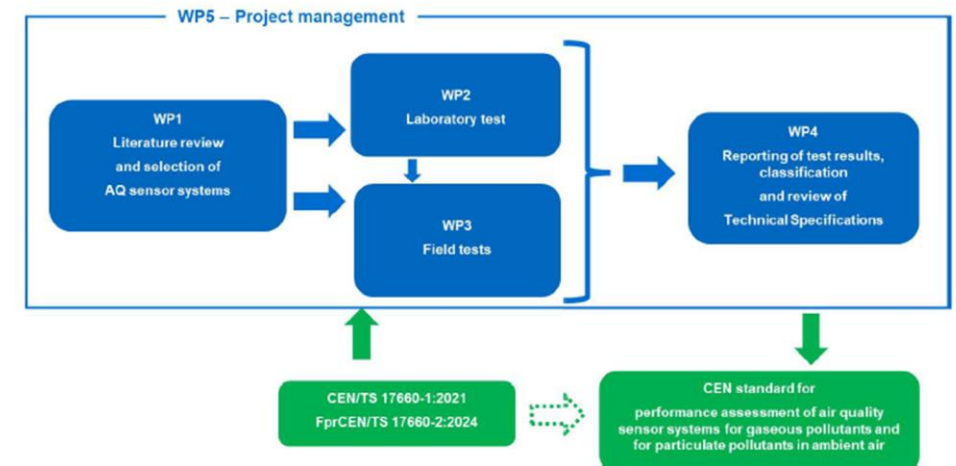
Pre-normative research WG42



Pre-normative research WG42

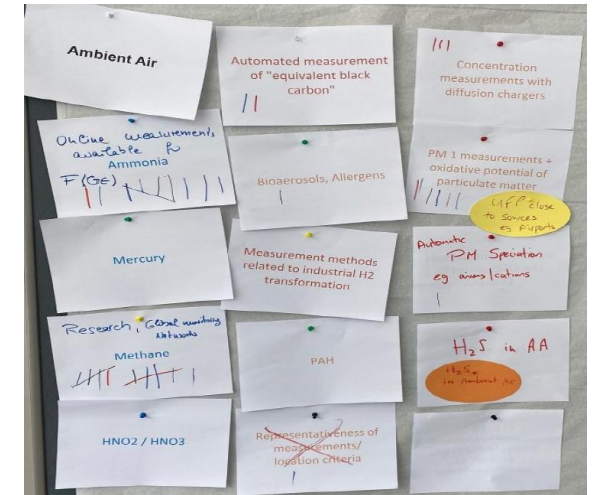
- 2 sensor systems tested according to TS
 - Selected based on literature review and requirements
 - Pollutants: NO, NO₂, O₃, CO, PM_{2,5} and PM₁₀, (SO₂)
- In two different laboratories (lab tests): VITO and NPL
- Different meteorological conditions (field tests)

City	Site name	Area type	Site type
Oslo	Kirkeveien	urban	traffic
	Chilbolton	rural	background
Gif-sur-Yvette	SIRTA	suburban	background
Rome	Villa Ada	urban	background
	Fermi	urban	traffic
	Allumiere	rural	background



Future oriented topics

- List of potential new areas for standardization (reviewed annually)
 - This tool is rather static, has not really worked so far
 - NWI arise from within WGs or through mandates
 - Need for a roadmap for future areas of standardization
- Proposal of new topics
 - In 2024 PFAS was presented as topic -> this has led to a new WG on PFAS!
- Current status (info from secretary):
 - We have to handle our running mandated projects first
 - High priority pollutants identified by DG ENV: VOC, H₂S, HF, Cl₂, HCN.
 - A prNWI proposal on Nitrosamine



QUESTIONS?

IDEAS?

DISCUSSION...

