Europese werkgroepen en standardisatie
update over TC264 en EU activiteiten

Werkgroep 23/05/2025

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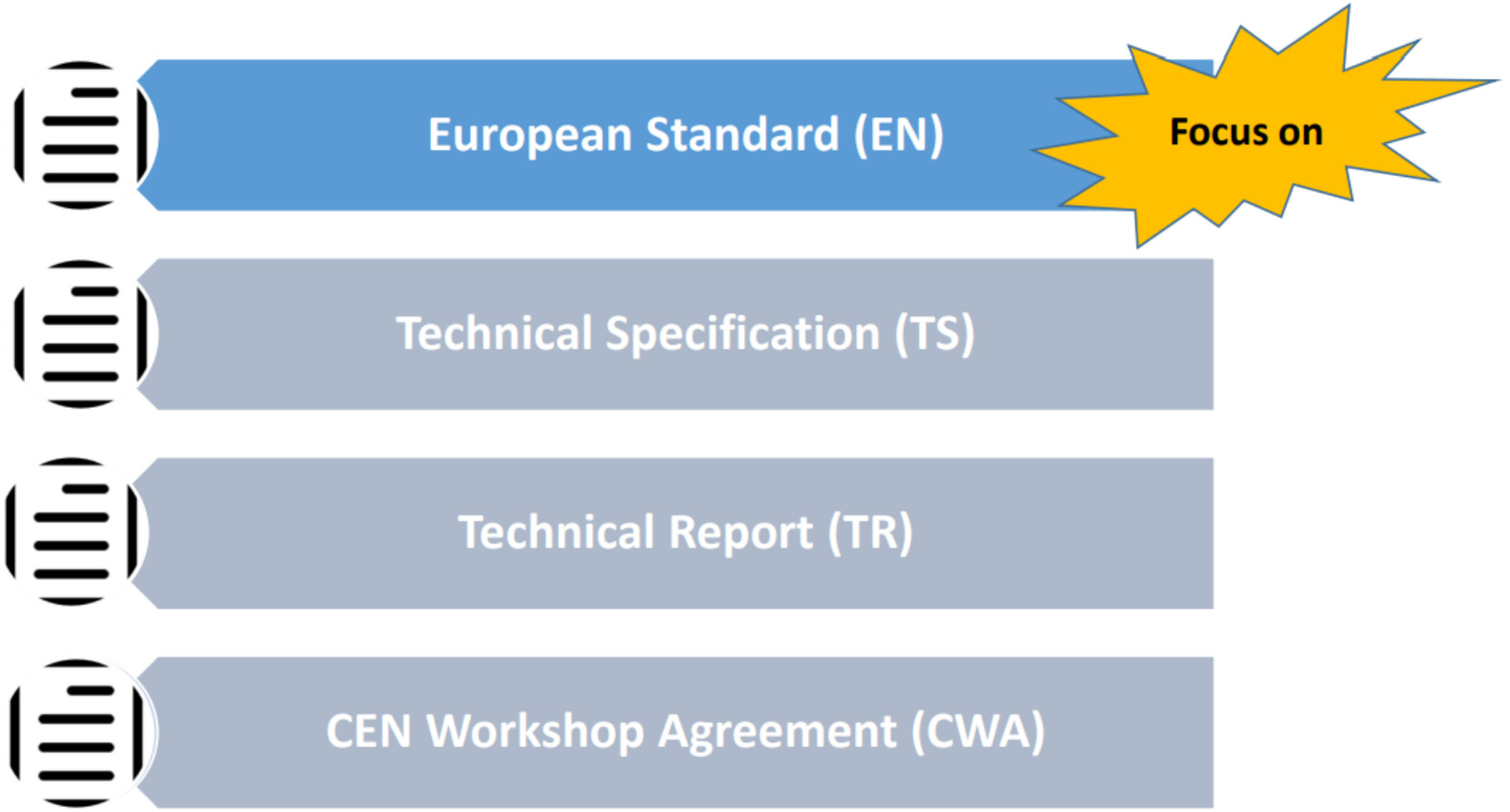
CEN standardization work

- 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: Ljuba Woppowa (VDI)

Deliverables van TC



Overview TC264 WGs -> version 2025

- Involvement VITO on different levels: Passive member, Active member, Convenor

	Title	Secretariat	Convenor	Secretary / Professional support
WG 1	Emissions – Dioxins and PCB	DIN, Germany	Dr. Abad, Spain	Dr. Woppowa, KRdL im VDI und DIN
WG 8	Emissions – Total mercury	NEN, The Netherlands	Mr. Curtis, United Kingdom	Ms. Boehmer, NEN
WG 9	Emissions – Quality assurance of AMS	DIN, Germany	Mr. Robinson, United Kingdom	Mr. Faassen, KRdL im VDI und DIN
WG 11	Ambient air – Diffusive samplers	NEN, The Netherlands	Dr. Michen, Switzerland	Ms. van Hoek, NEN
WG 12	Ambient air – VOCs/SO_2/NO_2/O_3/CO	NEN, The Netherlands	Mr. Stacey, United Kingdom	Ms. Boehmer, NEN
WG 13	Ambient air – Ozone precursors and benzene	DIN, Germany	Mr. Worton, United Kingdom	Dr. Hösen-Seul, KRdL im VDI und DIN
WG 15	Ambient air PM_{10}/$PM_{2,5}$	DIN, Germany	Mr. Stacey, United Kingdom	Dr. Hösen-Seul, KRdL im VDI und DIN
WG 21	Ambient air – PAHs	DIN, Germany	Dr. Gladtke, Germany	Dr. Hösen-Seul, KRdL im VDI und DIN
WG 28	Ambient air and emissions – Bioaerosols	DIN, Germany	Dr. Herr, Germany	Dr. Niebaum, KRdL im VDI und DIN
WG 30	Ambient air – Biomonitoring methods with flowering plants	DIN, Germany	Mr. Radermacher, Germany	Ms. Heesen, KRdL im VDI und DIN
WG 32	Ambient air – Particle number concentration	DIN, Germany	Dr. Asbach, Germany	Dr. Hösen-Seul, KRdL im VDI und DIN
WG 33	Emissions –GHG in energy-intensive industries	DIN, Germany	Dr. Hoenig, Germany	Dr. Sager, KRdL im VDI und DIN
WG 35	Ambient air – EC/OC	DIN, Germany	Mr. Putaud, EC-JRC	Dr. Hösen-Seul, KRdL im VDI und DIN
WG 38	Emissions – Diffuse VOCs	DIN, Germany	Mr. Robinson, United Kingdom	Mr. Bachmann, KRdL im VDI und DIN
WG 39	Ambient air – Airborne pollen grains and fungal spores	(SNV, Switzerland) *to be decided*	(Dr. Tummon, Switzerland) *to be decided*	*to be decided*
WG 40	Emissions – Formaldehyde	DIN, Germany	Mrs. Wagner, Germany	Mr. Faassen, KRdL im VDI und DIN
WG 41	Emissions and ambient air – Instrumental odour monitoring	UNI, Italy	Dr. Cipriano, Italy	Mr. Turano, UNI
WG 42	Ambient air – Air quality sensors	NEN, The Netherlands	Ms. van Poppel, Belgium	Ms. van Hoek, NEN
WG 43	Ambient air – Modelling quality objectives	DIN, Germany	Mr. Thunis, EC-JRC	Dr. Cheng, KRdL im VDI und DIN
WG 44	Ambient air – Source apportionment	DIN, Germany	Prof. Clappier, France	Dr. Cheng, KRdL im VDI und DIN
WG 45	Emissions – Proficiency testing schemes	DIN, Germany	Dr. Cipriano, Italy	Mr. Faassen, KRdL im VDI und DIN
WG 46	Task Force Emissions	DIN, Germany	Prof. Ehrlich, Germany	Mr. Faassen, KRdL im VDI und DIN
WG 47	Emissions – Diffuse emissions from building vents and roof openings	AFNOR, France	Ms. Fraboulet, France	Ms. Thomas, AFNOR
WG 48	Emissions and ambient air – Determination of PFAS	DIN, Germany	Mr. Coleman, United Kingdom	Dr. Woppowa, KRdL im VDI und DIN

Wendy Swaans

Patrick Berghmans

Patrick Berghmans

Ilse Bilsen

Wendy Swaans

Ilse Bilsen

Martine Van Poppel

Nico Bleux

Nico Bleux

Jelle Hofman

NEW!

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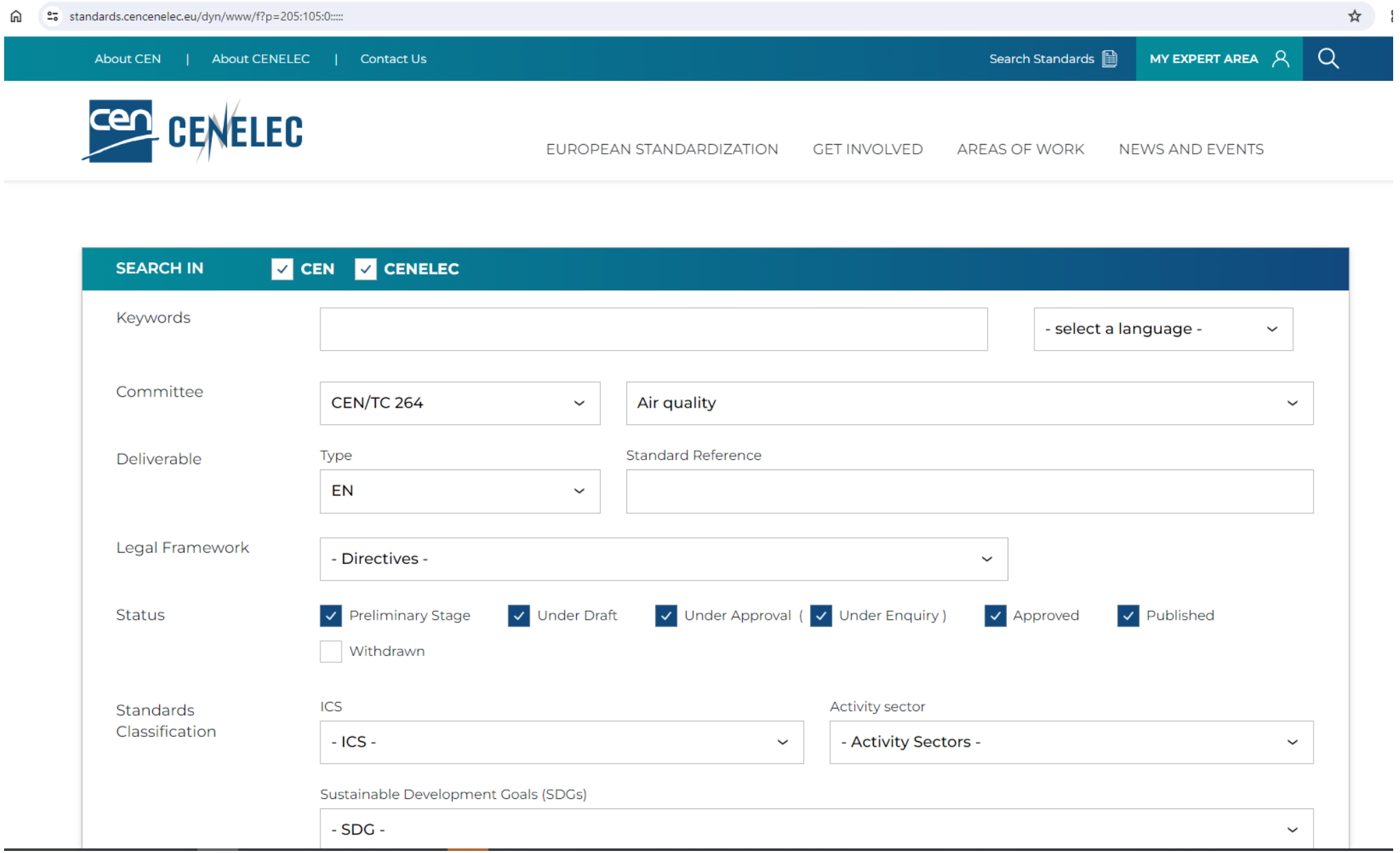
Yearly TC264 plenary meeting: Agenda

- Secretary's report
  - Active WGs, Published deliverables
  - CEN/TC264 projects
  - Liaison with other CEN/TC, ISO/TC, organisations
  - Review meetings with DG ENV, CCMC (CEN Management Center)
- Update and relevant activities by DG ENV, JRC, AQUILA
- Co-operation with ISO/TC146
- Report and discussion of all TC WGs
- New Mandates and Standardisation Requests
- EURAMET pre-normative metrology research activities
- General topics of interest for Convenors
- Discussion of future-oriented topics for TC 264 and New Work Items (NWI)
- Business plan of TC264 and check of liasons

Gepubliceerde CEN/TC264 deliverables (mei ‘24 – april ’25)

EN 14211:2024-12	Ambient air – Standard method for the measurement of the concentration of nitrogen dioxide and nitrogen monoxide by chemiluminescence
EN 14385:2024-12	Stationary source emissions – Determination of the total emission of As, Cd, Cr, Co, Cu, Mn, Ni, Pb, Sb, Tl and V
EN 14625:2024-12	Ambient air – Standard method for the measurement of the concentration of ozone by ultraviolet photometry
EN 14626:2024-12	Ambient air – Standard method for the measurement of the concentration of carbon monoxide by non-dispersive infrared spectroscopy
FprEN 16339:2024-11	Ambient air – Method for the determination of the concentration of nitrogen dioxide by diffusive sampling
EN 16976:2024-06	Ambient air – Determination of the particle number concentration of atmospheric aerosol
CEN/TS 17660-2:2024-12	Air quality – Performance evaluation of air quality sensor systems – Part 2: Particulate matter in ambient air
CEN/TS 18040:2024-05	Stationary source emissions – Determination of the mass concentration of formaldehyde – Automatic method
CEN/TS 18044:2024-07	Ambient air – Determination of the concentration of levoglucosan – Chromatographic method
CEN/TS 18073:2024-09	Ambient air – Determination of lung deposited surface area (LDSA) concentration using aerosol monitors based on diffusion charging
CEN/TR 18076:2024-06	Ambient air – Equivalence of automatic measurements of elemental carbon (EC) and organic carbon (OC) in PM
prEN 18168:2025-03	Ambient air – Biomonitoring with higher plants – Method of the standardised grass exposure



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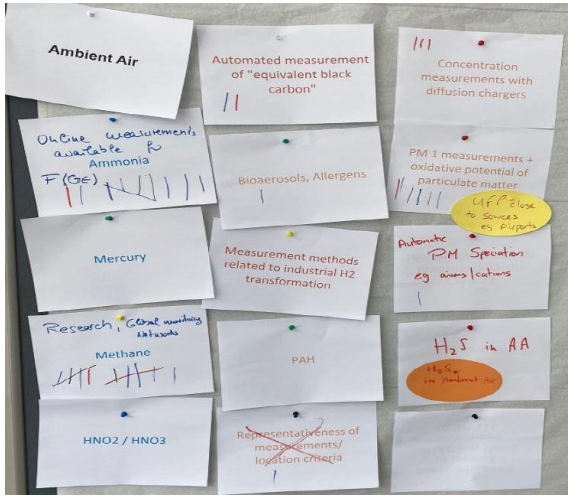
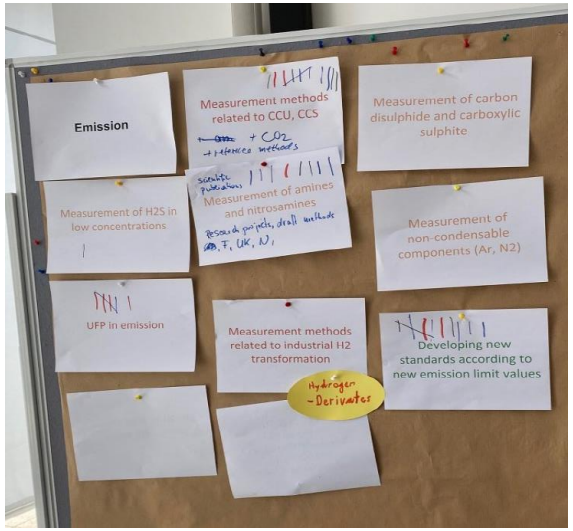
Future oriented topics

- Current approach: List op 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 (within timeline 5/10 years)

- Important to propose new topics!
  - Last year PFAS was presented as topic -> this has led to a new WG on PFAS!
  - There is a possibility to give a short presentation

- Priority ranking topics (last meeting):
  - Emissions:
    - measurement methods related to Carbon Capture, CO2 and reference methods
    - developing new standards according to new emission values
    - emissions from the capture process including amines and nitrosamines.
  - Ambient air: measurements of ammonia and methane





Future topics for Flanders?

- ….

Prenormative research - standardization work

- Research to transfer TS -> CEN standard: validation work
  - WG 43 "Ambient air – Modelling quality objectives"
    - Project lead by VITO: Evaluation of TS '*Ambient Air – Definition and use of modelling quality objectives for air quality assessment'*
  - WG 21 "Ambient air – PAH" :
    - Application submitted by consortium (members WG21), lead VDI/INERIS? : *Evaluation of standardization of PAH measurements in ambient air*
  - WG 42 "Ambient air – Sensors"
    - Project lead by VITO: Evaluation of TS *'Ambient air - Performance evaluation of air quality sensors - Part 1 (gas) and Part 2 (PM)'*

- EURAMET project: MetZeroPol
  - Metrology to Support Zero Pollution (MetZeroPol).
  - See next slides

Mandates: on-going standardization work

Een update van de stand van zaken van onderstaande mandaten (standardization requests) zal volgende CEN/TC264 meeting gegeven worden (17-18/6):

- WG13: Ozone precursors
- WG1: Long-term sampling PCDD/PCDF/PCB
- WG8: Long-term sampling of Hg
- WG40: Periodic measurement of CH_2O

Sensor performance assessment

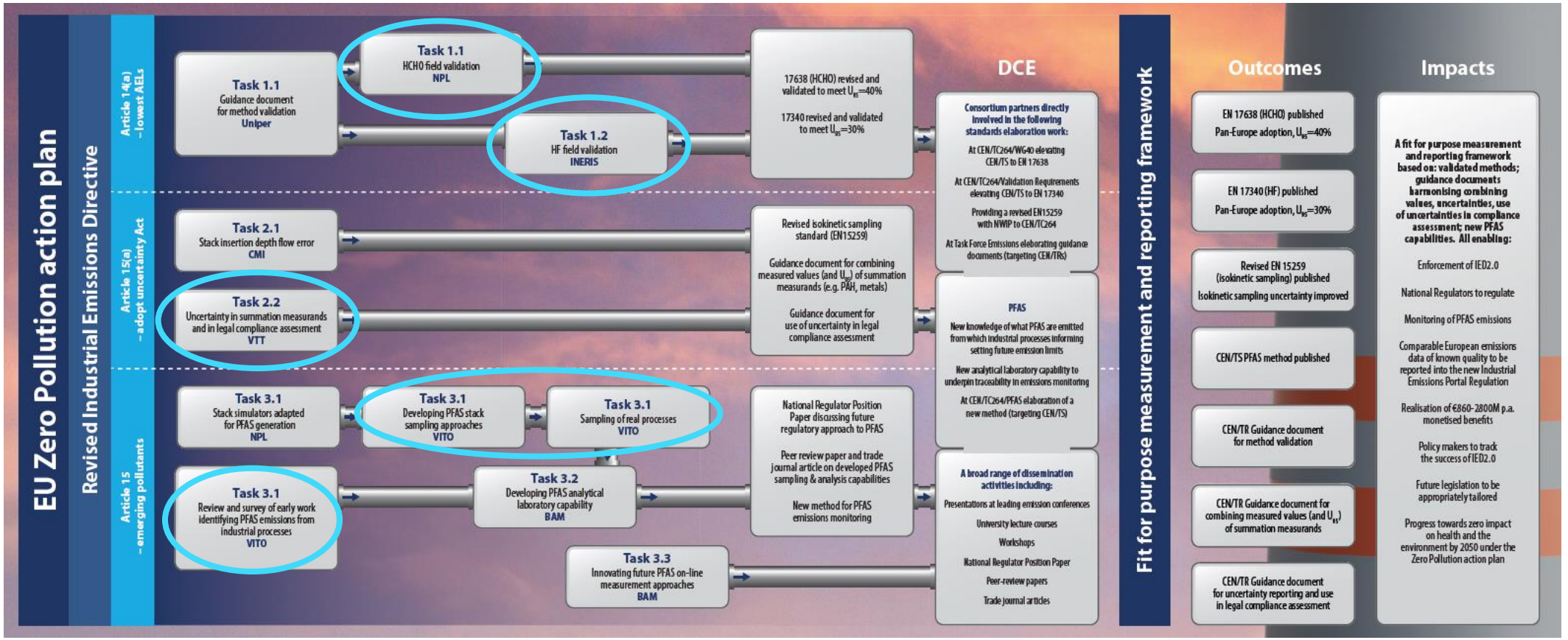
- Support for the development of **performance assessment of air quality sensor systems** for gaseous pollutants and particulate pollutants in ambient air (EC-ENV/2024/OP/0047)

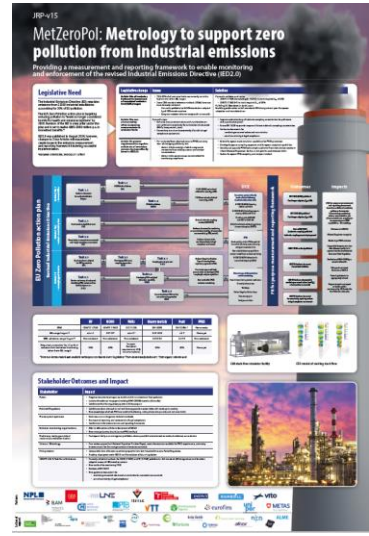
- Tasks:
  - Literature review and selection of air quality sensor systems (for gases and PM)
  - Laboratory tests (including preliminary laboratory tests for gases, extended laboratory tests for gases and laboratory tests with two PM coarse fractions for PM)
  - Field tests (in different European environments and at different site types for gas and PM sensors)
  - Reporting of test results, classification and review of Technical Specifications (for gas and PM sensors)
  - Project management (including organisation, purchase, transport and task management)

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)





Partners

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QUESTIONS?

IDEAS?

DISCUSSION…