

# CEN TC 264 Standardisation

P. Thunis

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# Harmonization → Standardization

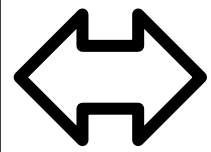


**CEN**

**FAIRMODE**

**Standardization**

**TC 264**

The logo for CEN TC 264, featuring the CEN logo (a blue square with the letters "cen" in white) and the text "TC 264" in red. Below the logo is the word "Standardization" in blue.

**Benchmarking**  
Harmonisation

**Guidance**

**Training**

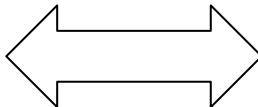
The FAIRMODE process flow diagram is contained within a rounded rectangle. It shows a vertical sequence of three steps: "Benchmarking Harmonisation" (with an illustration of people around a table), "Guidance" (with an illustration of puzzle pieces, one labeled "GUIDE"), and "Training" (with an illustration of a person presenting to a group). Large downward-pointing arrows connect the steps. A bidirectional arrow on the left connects this entire process to the CEN TC 264 logo.

# Harmonization → Standardization



**Harmonisation** differs from **standardisation** in that it does not impose a **single methodology** or norm, but rather seeks to **integrate information** gathered from **different sources**.

Consistency



conformity

## Model quality objectives



**Scope:** quantify the quality of model results.







**Harmonisation**





**Standardisation**

|   |   |  |
|---|---|--|
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|   | <p><b>Scope:</b> quantify the quality of model results</p>  |  |
|  <p><b>Harmonisation</b></p>      | <p>Different MQO (one per MS) can achieve the scope</p> <p style="text-align: center;">↓</p> <p>Comparison / integration of methods</p> |  |
|  <p><b>Standardisation</b></p> |   |  |

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|  <p><b>Standardisation</b></p> | <p>One consensus MQO is identified</p> <p style="text-align: center;">↓</p> <p>Define details of method and check conformity</p>        | <p>Easyness to compare results on a unique basis<br/>(e.g. collecting results at EU level)</p>                                |



- A first ad-hoc WG took place in Ispra on Oct. 9/10
- Participants: DE, FR, IE, UK, NL, SE, (BE), JRC
- Three topics were initially proposed for CEN/TC 264
  - (n) Modelling air quality: performance requirements, validation, QAQC; relation with FAIRMODE
  - (o) representativeness, classification, siting of monitoring stations; relation with AQUILA, FAIRMODE
  - (t) Source apportionment (receptor models) to explain limit value exceedances; relation with FAIRMODE and JRC
- Topics (n) and (t) have been proposed as new work item proposals, topic (o) judged to be not mature enough

- Suggestions have been made to initiate a joint AQUILA-FAIRMODE activity on siting & classification issues
- Possible issues regarding the link between standardisation and regulatory/mandatory actions
- Timing for the call (summer time) led to a contained number of MS participating in the first meeting. Calls will be made to extend the participation to other MS.
- Two work items have been prepared and sent to CEN

# CEN: work item on MQO



## Title: Ambient air - Definition and use of model quality objectives for air quality model applications

- Describe the methodology to define and calculate the MQO. Flexibility in selecting the appropriate tool to apply the methodology
- Model quality objectives fulfilment is mandatory whereas fulfillment of single performance criteria is not.
- Evaluation of Model perf. criteria based on Benchmarking report
- FAIRMODE identified assessment, source app., forecast and planning as potential model applications. Scope is here restricted to assessment
- Pollutants covered: PM2.5, PM10, NO2, O3
- Concentration range (in principle no limits, model/situation specific)
- Time average is pollutant specific
- Scales covered: regional, urban, street
- Methodology Restrictions (No Data assimilation , Pollutants concerned)

Scopes



# CEN: work item on Source apportionment



Title: Ambient air - Methodology for the assessment of the performance of source apportionment model applications

- Identif. and quantif. of the contribution of pollution sources to atmospheric pollutants
- Restrictions (pollutants, receptor models & CTM)
- Definition of common terminology (e.g. source, source category, source profile...)
- Definition of quality indicators (Pearson, weighted difference, identity distance)
- Performance criteria for:
  - Number of identified sources, explained mass,
  - Source chemical profile, source time-trend and source chemical profile uncertainty
  - Source contribution estimation concentration and uncertainty
- Description of tests: complementary tests, preliminary tests, performance tests
- Definition of the reference value and the quality objective expressed as standard uncertainty
- Expression of SA results
- Recommended steps for SA studies (informative)
- Link for DB for tool for testing



Scopes

# CEN: Standard vs. technical specification



## European Standard:

- is announced at national level, and conflicting national standard are withdrawn
- Consensus characterized by the absence of sustained opposition to substantial issues by any important part of the concerned interests (Note: consensus need not imply unanimity).
- Openness to all interested parties (via national delegations)
- Formal adoption of an EN is decided by a weighted majority vote of all CEN National Members and is binding on all of them (Formal vote);

## Technical specification:

- is announced at national level, but conflicting national standards may continue to exist.
- A Technical Specification can be transformed into a European Standard and thus may serve as a CEN 'pre-standard'.

# Next steps



- ✓ The two work items have been reviewed by all participants of the October ad-hoc meeting. Fairmode NCP not involved in this first process may send their feedback to JRC by February 25<sup>th</sup>
- ✓ Reviewed work items to be sent to CEN for voting procedure
- ✓ Upon positive voting dedicated working groups will be set-up with kick-off meeting to be held late spring.
- ✓ Assignment of chair person and work plan to be discussed during these kick-off meetings
- ✓ Every interested MS is encouraged to nominate experts to these CEN WG if not done already