



# CEN/TC 264/WG 43

## Model Quality Objectives

Cristina Guerreiro



Norsk institutt  
for luftforskning

FAIRMODE meeting Utrecht, 14-15 February 2017

# Members and countries represented in WG43:

37 Members from 12 countries:

the Netherlands, Germany, UK, France, Austria,  
Belgium, Finland, Sweden, Denmark, Norway,  
Poland, and Serbia.

Organisations represented: JRC and ECOS

# Main outputs from WG43

A working draft CEN/TS "Ambient air — Definition and use of modelling quality objectives for air quality assessment"

A list of testing needs and on a respective list of tasks/WPs for applying for funds from EC/EFTA

# Main decisions so far (1):

**Decision 3:** the title of the Technical Specification is "Ambient air — Definition and use of modelling quality objectives for air quality assessment".

**Decision 4 :** the Technical Specification (TS) will be restricted to assessment purposes in the context of the Air Quality Directive only, and will not be applicable for planning, forecast and source apportionment.

**Decision 5 :** the TS should cover PM<sub>2,5</sub>, PM<sub>10</sub>, NO<sub>2</sub> and O<sub>3</sub>. Other pollutants may be included at a later stage.

**Decision 6 :** the TS shall cover all concentration ranges and not to give limits.

# Main decisions so far (2):

**Decision 7** : the time averages for the pollutants covered by the TS shall be:

- ✓ hourly/annual/hourly percentile 99,8 for NO<sub>2</sub>;
- ✓ daily/annual/daily percentile 90,4 for PM10;
- ✓ annual for PM2,5;
- ✓ maximum daily 8-hour mean/AOT40/ maximum daily 8-hour mean percentile 93,2 for O<sub>3</sub>.

**Decision 8** : the national, regional, urban and street scale will be within in the scope of the TS.

**Decision 9** : the TS should refer to "Modelling quality objectives" rather than "Model Quality Objective".

# Main decisions so far (3):

**Decision 10** : the Delta Tool output will be given as an example for a benchmarking report in an informative annex.

➤ **Decision 23** : ... will be specified by a version number.

**Decision 16** : the measurement uncertainty in the MQO shall not be country- or station specific; the uncertainty shall instead be valid for Europe.

# Main decisions so far (4):

**Decision 17** : at least the following issues need further scientific elaboration:

- Replacing annual mean ozone with AOT40 for long term MQO;
- Maximize data to be included for PM<sub>2,5</sub> and PM<sub>10</sub> uncertainty curves;
- Test MQO for hotspot stations;
- Requirements concerning stations (how many, type and area)  
-> difficult issue, to be discussed in the coming meeting.

# Next meetings

## **4<sup>th</sup> meeting: 15-16/02 at RIVM:**

- a) Continue the discussion on the draft CEN/TS "Ambient air — Definition and use of modelling quality objectives for air quality assessment":
- b) Agree on the list of testing needs and on a respective list of tasks/WPs for applying for funds from EC/EFTA
- c) Start draft description of the objectives & content of each WP

**5<sup>th</sup> meeting will be 16-17 May 2017 at FMI, in Helsinki**



# Notice to the WG43 meeting participants

The meeting will start at 14 h at RIVM.  
Joost has arranged a bus to take us there.