

FAIRMODE

Structure & Workplan

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WG1: GUIDANCE (EEA)



WG2: QUALITY ASSURANCE (JRC)





- a standardized method for collecting and reporting model outputs in a way that enables relevant comparisons, with a view to establishing good practice, diagnosing problems in performance, and identifying areas of strength;
- a self-improvement tool allowing model validation and model intercomparison regarding some aspects of performance, with a view to finding ways to improve current performance;
- an on-going, systematically oriented process of continuously comparing and measuring models performance provides modelers with an external reference and best practices on which to base evaluation of the results and future developments.

Benchmarking can be seen as a diagnostic instrument, an aid to judgments on quality.









Shared approach to all WGs (I)

- ➢ Benchmarking becomes a methodology shared by all SGs. Benchmarking SG → Assessment SG
- Guidance becomes an intrinsic key element of all SGs. (No separate WG on guidance)
- > Addition of a "capacity-building" dimension







Major applications of models in the AQD

- *I.* <u>Assessment</u> of air quality levels to establish the extent of exceedances and establish the population exposure
- *II. <u>Forecasting</u> air quality levels for short term mitigation and public information and warnings*
- *III.<u>Source allocation</u> to determine of the origin of exceedances and provide a knowledge basis for planning strategies*

IV. Assessment of <u>plans</u> and measures to control AQ exceedances

WGs and Cross Cutting Activities (CCA)

European Commission



CCA goal: Create / Reinforce links among WGs



✓ CCA are not WG

CCA contribute to WG deliverables (not own)

✓ by ensuring the CCA topic is covered in the WG
✓ by bringing a specific expertise to enrich the WG

 While WG depend on participants contribution, CCA pick in existing participation and material in each WGs.



Cross Cutting Activity



Working Group

Shared approach



Modelling

European Commission



WGs Work-plans





Structure



Steering Group [JRC, DG ENV, EEA, WG leaders]

	WG1 Assessment	WG2 Emissions	WG3 Source App.	WG4 Planning
	S. Janssen P. Thunis	L. Tarrason J. Lumbreras	C. Belis	A. Clappier P. Thunis
CCA Spatial Repres. O. Kracht				
CCA Forecasting F. Meleux				
CCA Monit. & Model. A. Miranda				



Meetings: Plenary and technical



Meetings: Plenary technical and training



FAIRMODE in the broader context





To conclude

> Little changes in substance (capacity building, downscaling)

Terms of reference

FAIRMODE is a Forum for Air Quality Modeling created for exchanging experience and results from air quality modeling in the context of the Air Quality Directive (AQD) and for promoting the use of modeling for regulatory purposes in a harmonized manner between Member States. Its main objectives are:

- To provide a <u>permanent</u> European <u>Forum</u> for air quality modelers, particularly addressing model users.
- To study and set-up a <u>system</u> (protocols and tools) on the <u>quality assurance</u> and the continuous improvements of air quality models operating at spatial scales from national to urban and local.
- To provide <u>guidance</u> on the use of air quality models and their input (including fitness for purpose) for assessing current and future air quality within the framework of implementing the EU's Air Quality Directives.
- To promote <u>capacity building</u> activities aiming at ensuring an optimum use of the proposed common methodologies and guidelines and to promote good practice among the EU Member States and the EEA member countries.
- To make recommendations on <u>future</u> priorities, <u>research activities</u> and other relevant initiatives to secure Air Quality improvements.



To conclude

> Little changes in substance (capacity building, downscaling)

Changes in form are more important

- Split of meetings
- Cross Cutting Activities
- Planning WG
- Feedback
- Benchmarking & Guidance
- •••



To conclude

- > Little changes in substance (capacity building, downscaling)
- > Changes in form are more important
 - Split of meetings
 - Cross Cutting Activities
 - Planning WG
 - Feedback
 - Benchmarking & Guidance
 -
- Changes are probably more demanding
- > Changes are not written in stone (we need your feedback!)

National Contact Point (NCP)

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European



THANK-YOU