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39th TFIAM
Stockholm. 23-25 Feb 2011



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FAIRMODE progress

(Forum for AIR quality MODelling in Europe)

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OBJECTIVES OF FAIRMODE (1)

- To establish **tools and mechanisms for enhancing communication** between modellers and model users and provide a framework for exchange of experience at all levels of application
 - Electronic interfaces
 - Databases and tools
 - Workshops
 - Seminars
- To provide a **centralised portal** for information concerning the AQD, submission of compliance data based on modelling, references and experiences of other users
 - QA/QC methods for users
 - Information support for these services

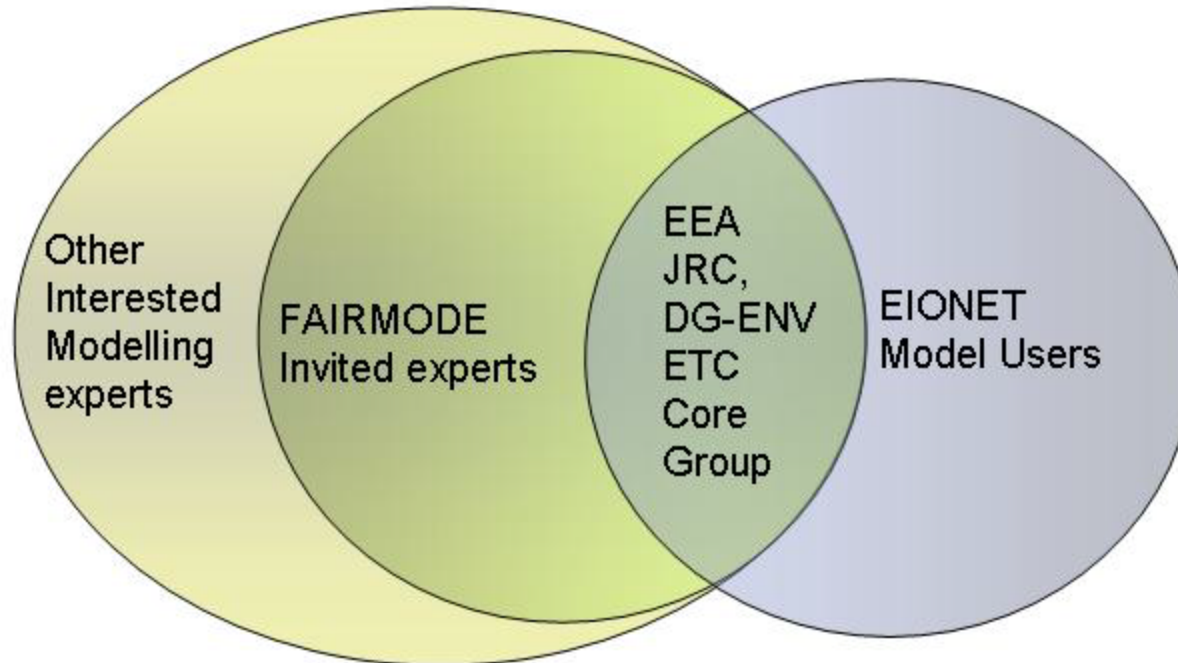


OBJECTIVES OF FAIRMODE (2)

- To **establish a common infrastructure**
 - Best practice for reporting and storing the information
 - Results and maps in a standardised and harmonised
 - Archive for reference where tools, data and information are available to authorities and scientists of the member states
- To **promote model validation and quality assurance of model results** to identify limitations and remove error factors
 - Organisation of and participation in model validation and intercomparison exercises at national or European level (the JRC will take on a leading role in the coordination of such actions, gaining from its experience in leading the "Eurodelta" and "CityDelta" intercomparison exercises)



STRUCTURE (1)



WG1 on Guidance on the Use of Models

WG2 on Quality Assurance of Models:

- **Model Validation**
- **Uncertainties**
- **Input Data**



STRUCTURE (2)

WG1 - Guidance on use of models (lead by EEA)

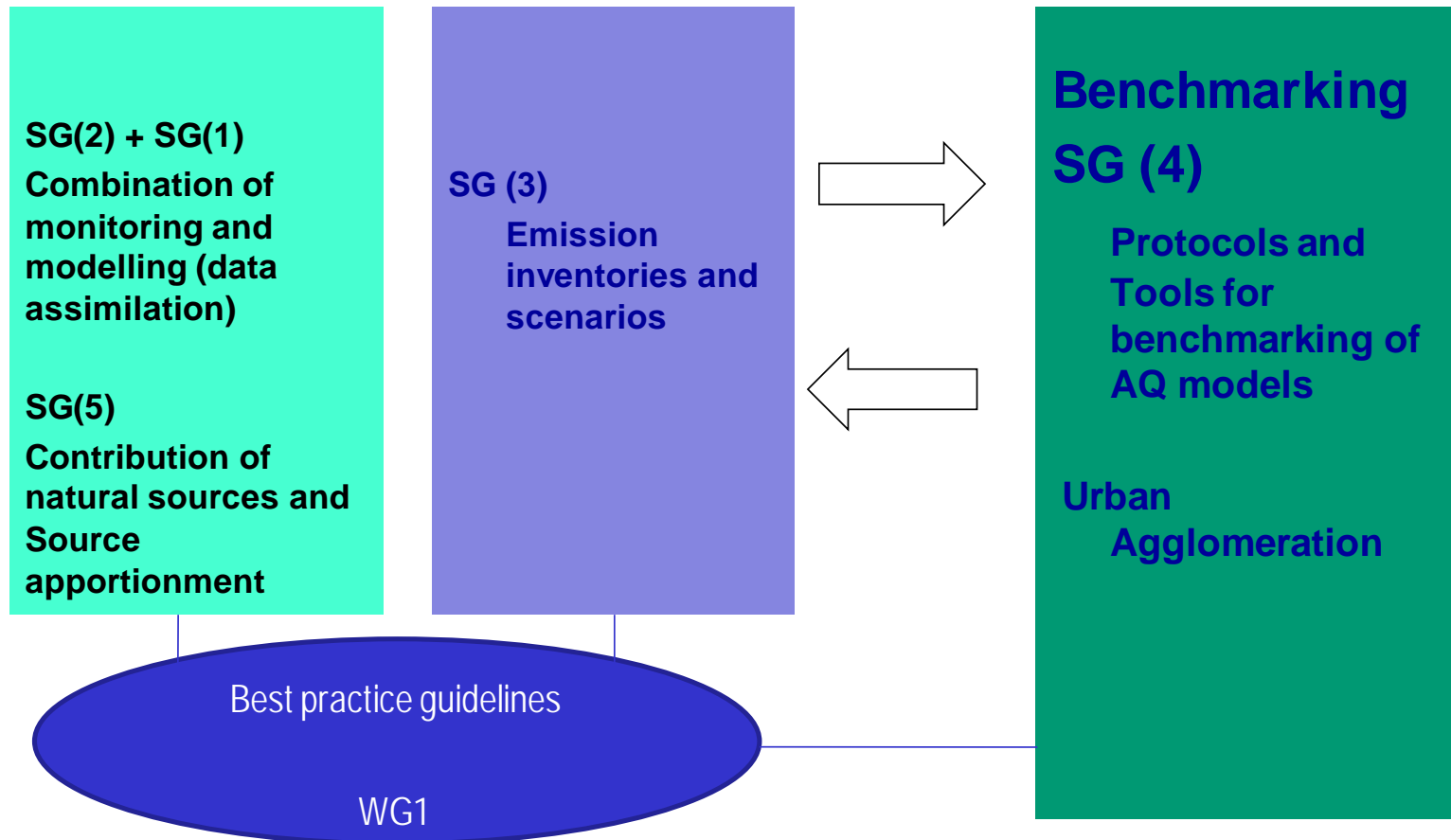
Guidance Document under preparation (suggestions and advice on best practices for the use of modelling for the purposes of the Air Quality Directive)

WG2 - Quality assurance of models (lead by JRC)

- SG1 - Combined use of monitoring and modelling (Discussion paper for the SG1 meeting)
- SG2 - Contribution of natural sources and source apportionment (Background document for the SG2 meeting)
- SG3 - Urban emissions and projections (Background document)
- SG4 - Tools for benchmarking of air quality models (Benchmarking Procedure - v.1)



FAIRMODE flowchart as agreed on 2nd plenary meeting (Nov. 2009)





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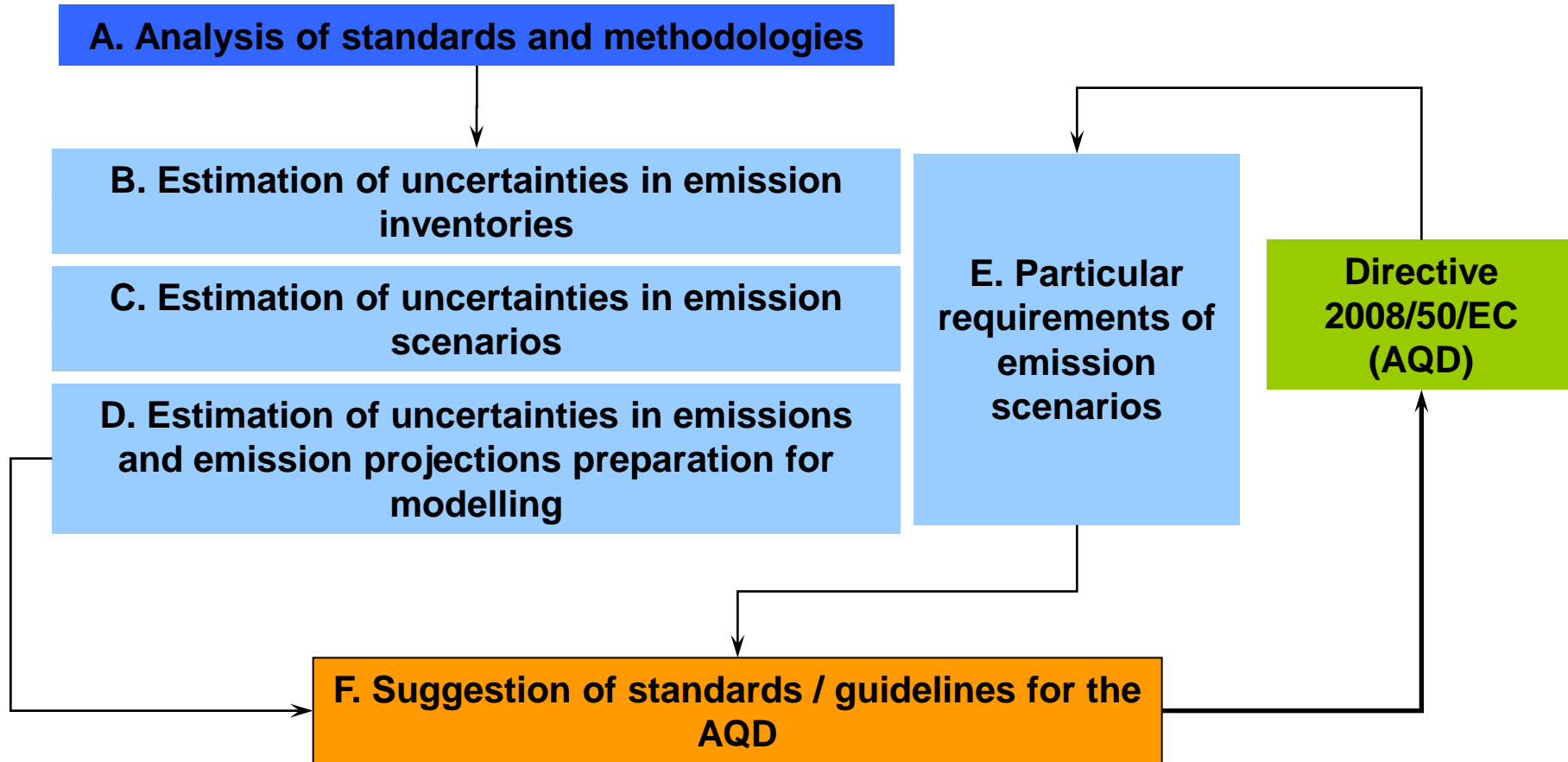
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SG3 OBJECTIVES

- To identify and minimize errors and uncertainties involved in emissions and scenarios used in air quality models
- To provide guidelines or suggestions that may help to reach the model quality objectives (MQO)
- To discuss specific issues related to scenario development
- Make use of relevant information from existing procedures, projects and working groups, i.e. TFEIP-EMEP/EEA air pollutant emission inventory book



GENERAL APPROACH





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WORKPLAN

- Guidance document development
 - Currently available for comments
- Development of EI questionnaire
 - March 2011
- Interaction with SG4
 - analyze case studies according to SG4 workplan
 - Feedback to the guidance document for second revision
- WG and plenary meetings (14-16 June 2011, SMHI, Stockholm)
- Guidance document development
 - second revision. December 2011



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FOR MORE INFORMATION

<http://fairmode.ew.eea.europa.eu/>

THANK YOU FOR YOUR ATTENTION!