

AIR4EU Project Expert Workshop

– Overview about AIR4EU and status of products –

Brussels, June 30th, 2006

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I) AIR4EU overview

6th FP Specific Targeted Research Project “in support of the CAFÉ-pogramme”

Scope:

- To provide recommendations on integrated AQ assessment for all relevant temporal and spatial scales
- Focus on “integrated”, meaning combining monitoring and modelling
- Focus on city scale: City users are partners in the project:
- Athens, London+ UK, Oslo, Paris, Prague, Rome, Rotterdam+ Rijnmond
- Focus on PM₁₀ (2.5), NO₂, O₃

We have worked from the beginning on

- Analysis of requirements and needs for AQ assessment of the city users
- Reviews and analyses of current monitoring and modelling at hot spot, urban and regional scales
- Analysis of emission data
- Determination of uncertainties
- Determination of representativeness
- Scale interactions
- Data assimilation

We discussed with you, and the cities and other users in Athens

- Do we have the correct focus on the selected species and the EU-directives?
- What are the major gaps in knowledge, and consequently in AQ-assessment studies?
- What is your opinion about our method to come to first recommendations and the idea of city case studies

General outcome:

- Consensus on the progress and direction of AIR4EU (see Report on the workshop for details)

Some major conclusions in Athens

- Give special attention to uncertainty
- Make progress in practical methods for data assimilation
- Give special attention to PM
- Give attention to the interaction regional, urban, hot spot scale
- Give recommendations for harmonising modelling and monitoring approaches

II) Status of products

We have continued working on the topics just mentioned with as focus:

- To come to “first” recommendations for improvements and innovative “solutions” for AQ-assessments by combining monitoring and modelling
- To develop detailed case studies with the cities to test and improve on these recommendations
- To start actually doing the case studies
- To make a first version of the mapping tool

We will present and discuss with you today

- 1) The structure of the final recommendations, to give you a flavour of the final Guidance Document
With as an example: The spatial assessment of PM in urban areas
- 2) The overview of the case studies (Berlin added)

With as examples:

- Non-exhaust emission
- Oslo, Data assimilation in open line source modelling
- Data assimilation concentration fields as regional background

- 3) A tool for data assimilation
- 4) Uncertainty assessment
- 5) The mapping tool