

# Athens-AIR4EU Workshop

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The AIR4EU Project-Scope and Innovative Solutions

**TNO | Knowledge for business**



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# I) Introduction

AIR4EU: Air quality assessment for Europe:  
from local to continental scale

AIR4EU is a 6<sup>th</sup> FP project “in support of the CAFÉ-programme”

AIR4EU is a Specific Targeted Research Project

AIR4EU started by 1-1-2004 and is a 3 year project



## II) Scope of AIR4EU

- To provide recommendations on integrated AQ assessment for all relevant temporal and spatial scales
- Integrated means: Combining monitoring and modelling
- Focus on the combination, not so much on monitoring and modelling separately
- Focus on city scale, but regional scale will not be forgotten



- Focus on assessment of EU-Directives
- Focus on PM 10 (PM 2.5) , NO<sub>2</sub>, O<sub>3</sub>



# End products of AIR4EU

- A guidance document on best practices for the combined use of monitoring and modelling
- Maps of air quality as examples, based on the combination of monitoring and modelling



# The project team consists of 6 research partners and 8 user partners

## *Research Partners:*

- TNO
- NILU
- Aristotle Univ. Thessaloniki
- Univ. of Stuttgart
- Univ. of Hertfordshire
- Univ. of Aveiro



*User partners:*

- Paris
- Rome
- London + UK
- Prague
- Athens
- Rotterdam + Rijnmond area
- Oslo

In the project: Major role for the users

Close Cooperation with City-Delta, Street Emission Ceilings,  
MERLIN, CLEAR and many others



# Results of AIR4EU up till now

- Analysis of requirements and needs for AQ assessment, with focus on cities
  - What is the current practice?
  - What are the major problems?

*Some examples:*



# General problems of cities

- Siting of monitors/representativeness
- Regional Background to cities
- Different models give different results



# Specific problems

- Emissions by mopeds in Rome
- Orography in Athens
- Studded tyres and woodburing emissions in Oslo

(Could ships be a specific problem in the harbour-cities?)



# Further results of AIR4EU

- Reviews and analysis of current monitoring and modelling at hot spot, urban and regional scale, strengths and weaknesses



- Analysis of emission data
- Determination of uncertainties
- Determination of representativeness
- Scale interactions
- Data assimilation

*These reviews and analyses have lead to:*



### III) Innovative “solutions”

- We have now first recommendations on AQ-assessment on regional, urban and hot spot scale
- We have now a first set-up of city case studies to test our recommendations
- These will be presented today



# Aim of this workshop

- I) To exchange and discuss experience of AQ assessment in different areas/cities
  
- II) To discuss with you concerning AIR4EU:



- Do we have the correct focus of the objective of the AQ assessment
- Do we have the correct focus on the selected species
- What is your opinion about our first recommendations
- What is your opinion about the set-up of the case studies
- What should be our focus in the remaining 1.5 years

