



European Network on New Sensing Technologies for Air Pollution Control and Environmental Sustainability - *EuNetAir*

COST Action TD1105

Expert comments for the revision of the
Air Quality Directive (AQD)

SIG 4 Objectives, activities and strategies



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Scientific context and objectives in the Action

- **The AQD is the main European regulation with regard to ambient air quality**
- **Other important aspects are covered by regulations related to emissions, e.g. National Emission Ceilings (NEC), traffic emission regulation**

→ How can COST and specifically SIG4 contribute to improvements to European regulation to improve the quality of life, environment and international competitiveness?



Current activities

- **Air Review**
European Commission is currently conducting a comprehensive review of EU air pollution policy (Ending 2012)
- **REVIHAAP (WHO Initiative)**
REVIHAAP is addressing a list of 26 key questions.
The first phase November 2011 - April 2013,
- **AirMonTech (FP7)**
Presentation yesterday, Ending Mid 2013
- **“Thematic Strategy”** (DG Env framework contract)
AQUILA/FAIRMODE/**StakeholderExpertGroup**



SIG 4 Topics

Don'ts

- Related to AQD means outdoor air → indoor excluded for SIG 4
- Communication of air pollution is important, but will not particularly be addressed
- Restrict recommendations to AQD improvements that can be envisaged by application of sensor technology
- Compliance monitoring is not targeted at the current time; sensor quality demands may be lower than those of reference methods! Nevertheless, characterization is needed and specific data quality requirements have to be set (WG3 and WG4).

Do's

- **Modelling** of urban air pollution and population exposure can be improved by sensors due to higher spatial resolution
- **Ammonia** being a precursor for PM might be worth more attention; sensor networks could help in identifying sources; increasing contributions from traffic, and other sources in particular situations (e.g. garbage boxes)



SIG 4 Possible outputs

- Review of AQD implementation problems and proposals how these could be targeted by application of sensors
- Recommendations on
 - new metrics
 - Data quality requirements
 - Use for model improvements
 - Specific research needed
- Guidelines on data quality requirements for sensors to be used in relation to AQD (e. g. support indicative screening or complementary modeling)



SIG 4 Timeline

- Outputs will not be available in time for the upcoming revision (draft probably by 2014)
- SIG 4 addressing AQD revision planned for 2018;
- Next SIG 4 meeting?