

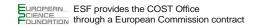
Examples of guidelines/applications of environmental technologies for the Revision of the Air Quality Directive in Spain

WGs and MC Meeting at Rome, 4-6 December 2012



María Cruz MINGUILLÓN

WG member IDAEA-CSIC / Spain



Scientific context and objectives in the Action

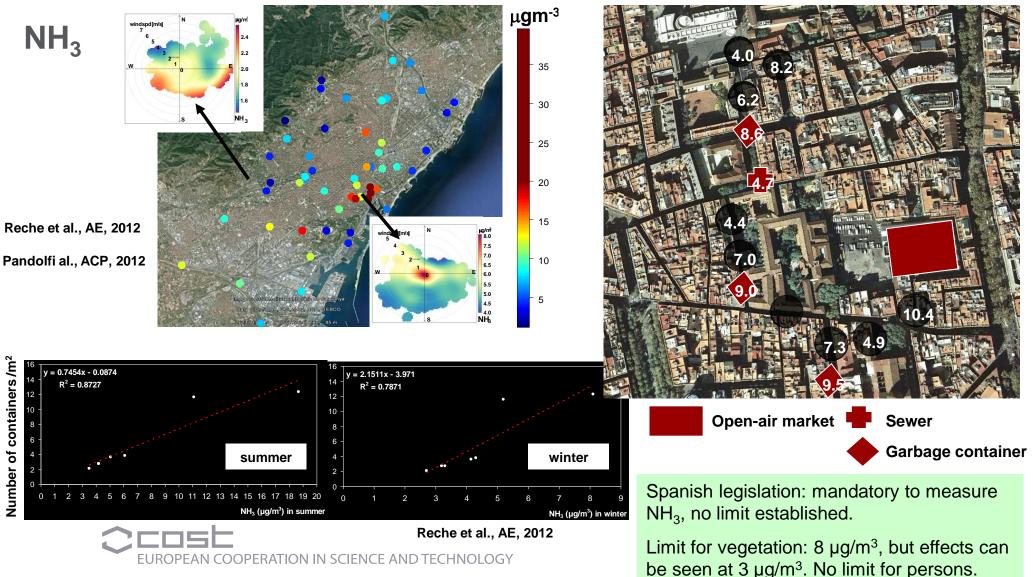
- The new Air Quality Directive for 2018 needs some general advice as well as specific advice from countries with specific air quality characteristics
- Brief reminder of MoU objectives:

- comments on Revision of air Quality Directive 2008/50/EC

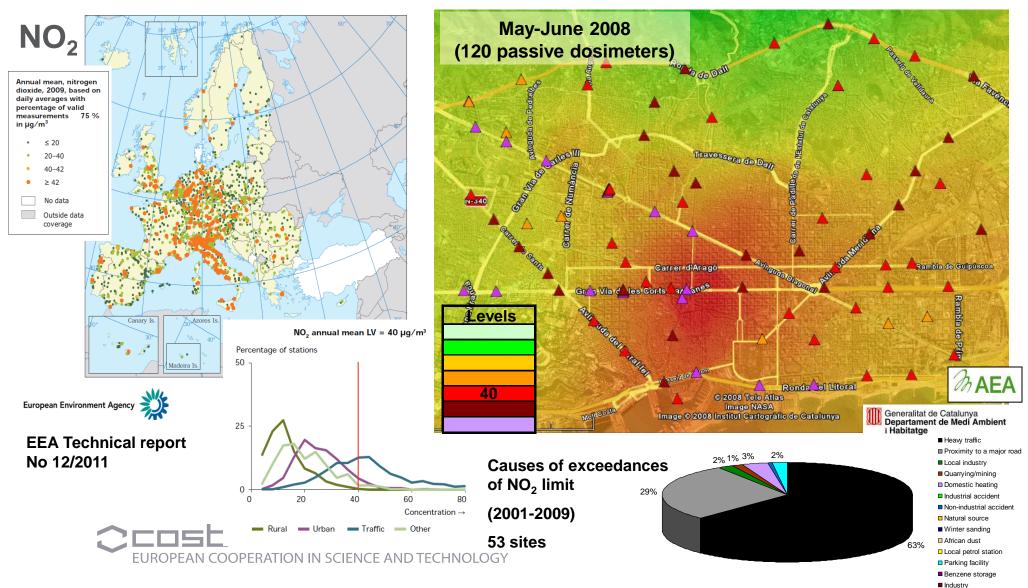
- suggestions: studies carried out in our group give support to some suggestions for the new Directive



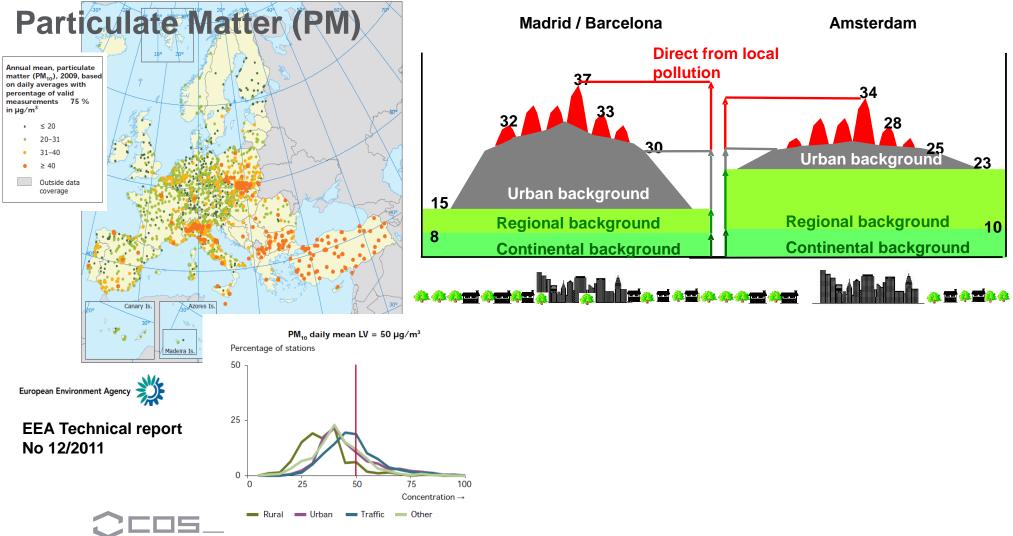
Current research activities of the Partner (1/3)



Current research activities of the Partner (2/3)



Current research activities of the Partner (3/3)



EUROPEAN COOPERATION IN SCIENCE AND TECHNOLOGY

Research Facilities available for the Partner (1/1)

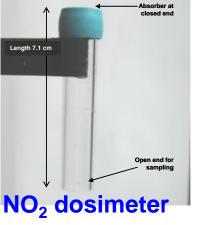
- Air quality monitoring network, 3 sampling sites: urban, regional and continental/remote.
- Instruments:
- High and low volume samplers for PM₁₀, PM_{2.5} and PM₁
- Optical particle counters
- Absorption photometers, Aethalometers, Nephelometers
- Condensation particle counters (CPC)
- Scanning mobility particle sizers (SMPS)
- Aerosol chemical speciation monitor (ACSM)



Laboratories/analysis techniques:

- ICP-AES and ICP-MS
- Liquid chormatography
- Gravimetric analysis
- OC and EC (thermo-optical)







Suggested Priorities for future research

Development of sensors for:

- NH_3
- $-NO_2$
- PM

