



Outlook for 2008 – 2010 for AQP

1. Experimental aerosol research: to connect online chemical analysis to aerosol mass spectrometry (simultaneous data on chemistry and physics of atmospheric aerosol), high-time-resolution data, new on-line chemical methods, particulate organic matter, aerosol optical properties.
2. Atmospheric dispersion modelling: particulate matter and gaseous concentrations on various scales (including European); aerosol processes, PM mass closure, aeroallergens including pollen, air quality forecasting, satellite observations, integrated modelling from emissions to health effects.
3. The role of hydrocarbon (especially terpenoid) emissions in the boreal zone on the formation of new particles.
4. Refinement and use of the air quality portal: important also for the visibility of FMI in the media.
5. The QA/QC of particular matter measurements and analysis, e.g., to conduct PM inter-comparison exercises on EU and national levels.



Some topical research areas

- ❑ **Safety and security** – Research programme by TEKES in 2007, EU calls
- ❑ **Megacities** – There has been one EU call, and will probably be many more
- ❑ **Health effects of air pollution** – multi-disciplinary, EU
- ❑ **Forest fires** - already included in the IP GEMS (responsible inst. FMI)
- ❑ **Intensive measurement stations and networks** – EUSAAR, Kumpula, PARNET, Pallas-Sodankylä, etc.
- ❑ **Interactions of air quality and climate change** – in GEMS, EUCAARI
- ❑ **Aeroallergens, pollen** – from long-range to local dispersion forecasting
- ❑ **Domestic wood combustion**



A more integrated research approach

- A more integrated research approach is required in the seventh EU Framework Programme and other programmes, and probably this trend will continue.
- The funding will be increasingly available from multi-disciplinary research programs.
- Centers of excellence and centers of expertise at the Kumpula campus and with other key partners – these help to provide a more extensive know-how, e.g., for EU IP's.

