

# MISTRA Idéstöd

*”Development and application of analytical methods for characterisation of organic aerosol particles”*

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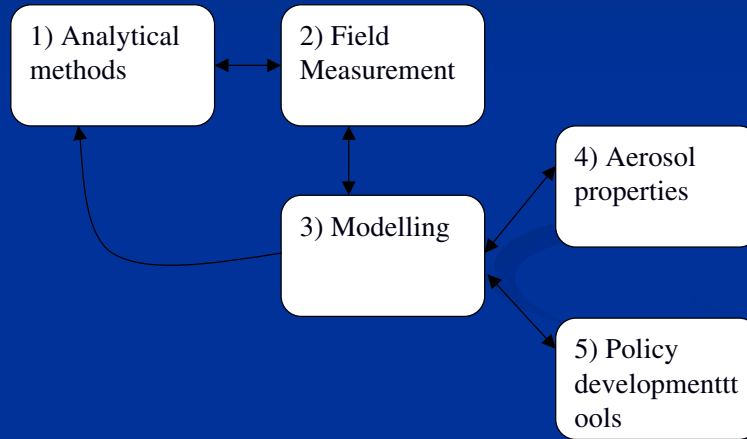
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## Objectives

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- Establish new methods for characterisation of the organic part of aerosol particles
- Evaluate the contribution of secondary organic aerosol formation to different size classes of a aerosol relevant for Nordic condition
- Develop models for secondary organic aerosol that are applicable for air quality issues under Nordic situations
- Link the results obtained to upcoming international/national agreements and regulations

# Schematic WP



# Time plan

2003	2004		2005		2006		2007	
<b>Part 1 (Analytical methods)</b>								
Development, calibration, and validation of methods			Analysis of urban samples		Analysis of rural samples			
<b>Part 2 (Field measurements)</b>								
		Urban		Urban			Rural	
<b>Part 3 (Modelling)</b>								
Review and implementations Initial UNIFAC and SVOC in box- and EMEP model	Initial testing of methods in full EMEP model. General evaluation and simulations of the urban site.			Detailed evaluation of methods in full EMEP model against observations. Simulations of the rural site				
<b>Part 4 (Aerosol properties)</b>								
"The impact of atmospheric oxidation processes on physical and chemical properties of aerosol particles" (Swedish Research council)			"Properties and atmospheric transformation of aerosol particles" (PhD-Research school on climate and mobility)					
<b>Part 5 (Policy tools)</b>								
Review uncertainties and realistic goals				Estimates of source contributions to aerosols and their uncertainties. Choose most appropriate methods for policy calculations.				

Evaluation

# Postdoc position

Experimental:

Field measurements and analytical methods

See:

<http://www.che.gu.se/atmsci/projekt.htm#3>