



CO-ORDINATION ACTION on Indoor Air Quality and health effects



EnVIE

Norwegian Institute for Air Research

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NILU



- **Non-profit private foundation**
- **Locations: Kjeller near Oslo, Tromsø in North Norway**
- **140 employees**
- **Main areas of activities:**
 - **All aspects of air pollution (emissions, cycling, transport, fate, effects, sampling and detection in the atmosphere, contents in other matrices)**
 - **sub-local, local, regional and global scale**
 - **exposures to pollutants from air, collaboration on effects**
 - **international databases (air quality, all observational platforms)**
 - **air quality management on urban and regional scale**



NILUs possible participants



- **Center for Ecological Economics:**
Alena Bartonova (exposure, air quality management systems, statistics and statistical modelling)
- **Department of Integrated Environmental Systems:**
Bodil Innset (indoor sampling and measurements)
- **Terje Grøntoft (indoor environment and material degradation, models for deposition of pollutants, development of sensors for organic pollutants inside museums)**
- **Department of Chemistry:**
Norbert Schmidbauer (analytical chemistry – VOC, particle characterisation using optical microscope),
Christian Dye (chemical speciation of particles – EC/OC, organic matter)
Other colleagues: anorganic chemistry, PAH analyses



Main activities in the field of indoor air quality



- **National projects:**
Evaluation of school indoor environment
(CD) Particle speciation for organic matter
Development of methods for chemical characterisation of indoor environment (ad-hoc contract research)
- **International:**
Participation in the DBH-project (Sweden), MVOC characterisation of indoor environment
- **5. FRP**
PINCHE (Thematic Network: Policy interpretation network on children's health and environment)



Main activities in the field of indoor air quality



- **5. FRP contd.**
Urban Aerosol (Characterization of urban air quality indoor/outdoor, particulate matter chemical characteristics and source to inhaled dose relationship)
Urban Exposure (Integrated exposure management tool for characterizing air pollution relevant human exposure in urban environment)
MASTER (Preventive conservation strategies for protection of organic objects in museums, historical buildings and archives)
- **6. FRP**
CULTSTRAT (Assessment of air pollution effects on cultural heritage – management strategies)
IMPACT (Innovative modelling of museum pollution and conservation thresholds)



NILUs contribution to EnVIE



- **WP 1 Exposure**

- **Task 1 Sources and levels of indoor air contaminants**
- **Task 2 Survey designs as they relate to the interpretation and generalization of their results**
- **Task 3 Indoor exposure models for the assessment of past and present exposures, as well as consequences of alternative future scenarios**

- **Implemented through three workshops**