



Action TD1105
Earth System Science and
Environmental Management

COST Grant System
26 November 2012

Action TD1105 Fact Sheet

Title

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

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Details

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Start of Action: 16/05/2012

Entry into force: 09/01/2012

End of Action: 15/05/2016

CSO approval date: 01/12/2011

Objectives

This Action will focus on a new detection paradigm based on sensing technologies at low cost for Air Quality Control (AQC) and set up an interdisciplinary top-level coordinated network to define innovative approaches in sensor nanomaterials, gas sensors and devices, wireless sensor-systems, distributed computing, methods, models, standards and protocols for environmental sustainability within the European Research Area (ERA). The state-of-the-art showed that research on innovative sensing technologies for AQC based on advanced chemical sensors and sensor-systems at low-cost, including functional materials and nanotechnologies for eco-sustainability applications, the outdoor/indoor environment control, olfactometry, air-quality modelling, chemical weather forecasting, and related standardisation methods is performed already at the international level, but still needs serious efforts for coordination to boost new sensing paradigms for research and innovation. Only a close multidisciplinary cooperation will ensure cleaner air in Europe and reduced negative effects on human health for future generations in smart cities, efficient management of green buildings at low CO₂ emissions, and sustainable economic development. The objective of the Action is to create a cooperative network to explore new sensing technologies for low-cost air-pollution control through field studies and laboratory experiments to transfer the results into preventive real-time control practises and global sustainability for monitoring climate changes and outdoor/indoor energy efficiency. Establishment of such a European network, involving Non-COST key-experts, will enable EU to develop world capabilities in urban sensor technology based on cost-effective nanomaterials and contribute to form a critical mass of researchers suitable for cooperation in science and technology, including training and education, to coordinate outstanding R&D and promote innovation towards industry, and support policy-makers.



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Parties							
Country	Date	Country	Date	Country	Date	Country	Date
Belgium	19/01/2012	Bulgaria	23/03/2012	Czech Republic	28/08/2012	Denmark	19/01/2012
Finland	10/04/2012	France	10/02/2012	Germany	17/01/2012	Greece	14/02/2012
Hungary	06/01/2012	Iceland	11/01/2012	Ireland	24/10/2012	Israel	19/07/2012
Italy	09/01/2012	Latvia	23/01/2012	Netherlands	17/01/2012	Norway	31/01/2012
Poland	09/03/2012	Portugal	04/07/2012	Romania	28/02/2012	Slovenia	05/01/2012
Spain	03/01/2012	Sweden	16/01/2012	Switzerland	24/01/2012	Turkey	05/04/2012
United Kingdom	19/12/2011						

Total: 25

Intentions to accept the MoU							
Country	Date	Country	Date	Country	Date	Country	Date

Total: 0

Participating Institutions from non-COST countries	
Australia	CSIRO
Canada	University of Waterloo
China	Chinese Academy of Sciences
Russian Federation	National Research Center Kurchatov Institute
United States	Southern Illinois University Carbondale
United States	NASA Ames Nano Research Center

Working Groups
WG1: Sensor materials and nanotechnology
WG2: Sensors, devices and systems for AQC
WG3: Environmental measurements and air-pollution modelling
WG4: Protocols and standardisation methods

Website
www.cost.eunetair.it

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