

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

COST Action TD1105

## WGs and MC Meeting at ISTANBUL, 3-5 December 2014

Action Start date: 01/07/2012 - Action End date: 30/06/2016

Year 3: 1 July 2014 - 30 June 2015 (*Ongoing Action*)

## SIG1 - INPUTS



Agenzia nazionale per le nuove tecnologie,  
l'energia e lo sviluppo economico sostenibile

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 **cost**  
EUROPEAN COOPERATION IN SCIENCE AND TECHNOLOGY



# C.Hahn Overview....

- **INPUT FROM SIG1 SESSION 1:**

- Industrial Leadership: LEIT in differente Topics, Innovative SME
- Societal Challenge: Secure, clean and Efficient Energy, Smart Geen and Integrated Transport
- Funding R@I Action 100% funding, Innovation Action 70%
- **Fast Track to Innovation Scheme > TRL 6 (3-5 legal entities, 3MEuro,BP included) for first partecipation of company. From January 2015.**
- **SME Instruments (Phase I,II,III) - free of charge Coaching**
- **RISE program could also be useful for very committed SE**

# O. Von Sicard Application....

- **INPUT FROM SIG1 SESSION 2:**
  - Use Air quality sensors in different application
  - Megatrends: demographic, climate changes, health
  - MOX innovative approach with Temperature modulation
  - **Application: early fire detection (from PM to aromatic)**
  - **Intelligent services for senior citizens - Smartsenior**
  - Breath analysis
  - Indoor Air (>>>>MEMS approach)
  - **Suspended Gate FET (Micronas MySens)**
  - **Molecular Imprinted Polymers for Explosives Detection**
  - **Tunable Diode Laser Spectrometry**

# Challenges in Air Quality Control

- Low power devices, long lifetime and maintenance free
- Convince the market that new air quality network can improve the quality of life.
- Engage the citizens through citizens observatories.
- Convince the public institutions of the impact of odour nuisance.
- To work in harsh environments.

# Priority Innovation Requirements in Air Quality Control

- Evaluate market opportunities for encouraging EU investment in specific topic of AQC and direct SME, RD effort.
- Develop legislation in different areas of air quality control.
- Push the creation, extension and adoption of regulations (i.e. methodologies, guidelines) at EU levels.
- Low cost devices and easy to use for odour monitoring.
- Training school for new “*ambassadors*” that can promote air quality management.
- Engage the citizens of the AQC concept.
- Education and dissemination of AQC concept (schools, institutions, sales, politicians, NGO, etc.).