



# COST

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

**COST Action TD1105**

**WGs and MC Meeting at Rome, 4-6 December 2012**

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

**Year: 2012-2013 (*Starting Action*)**



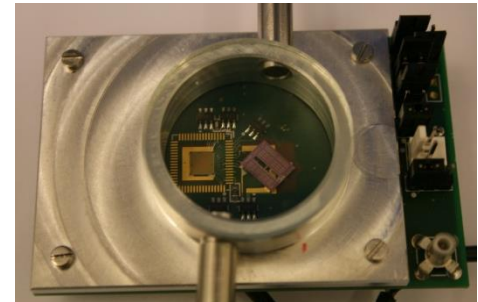
**Presenter's Name**

**Function in the Action** (WG member, Sub-WG Leader, SIG or WG Leader, Vice-Chair, Chair)

**Affiliation / Country**

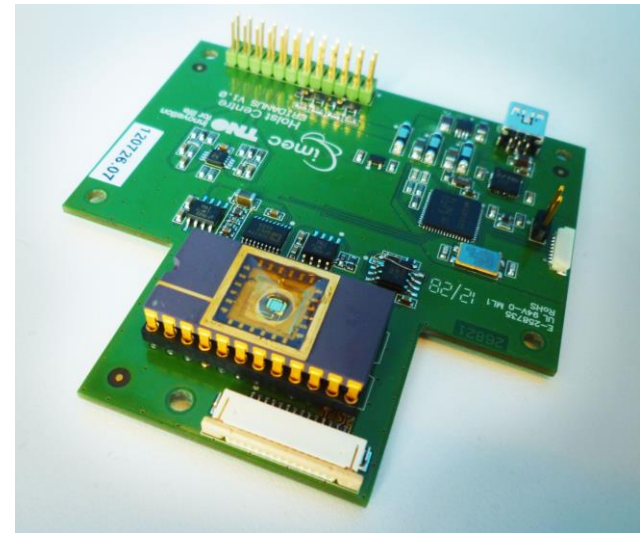
# Scientific context and objectives in the Action

- **Background statement:**
  - System demonstrators that combine environmental and physiological monitoring
- **Brief reminder of MoU objectives:**
  - **Sensors for various pollutants (NO<sub>x</sub>, VOC, CO, ...)**
  - **System demonstrators**



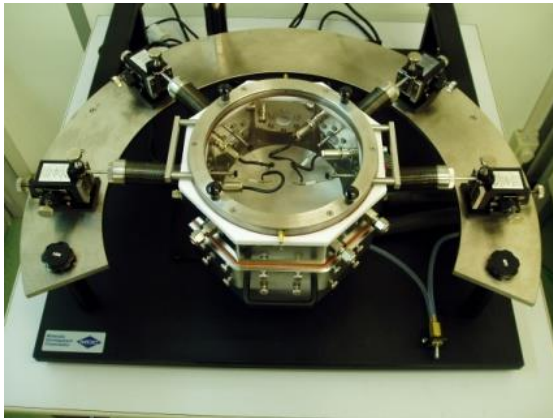
# Current research activities of the Partner (1/2)

- Current research topics at the partner organization / Problem statement:
  - Body area networks and environmental sensing
- Brief list of ongoing research topics of the Partner
  - (Bio)Chemical sensors
  - Energy harvesters
  - Analog circuits
  - Wireless techno
  - DSP

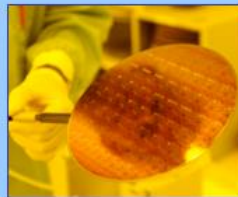


# Research Facilities available for the Partner (2/2)

- Research Facilities:
  - Access to MiPlaza cleanroom facilities
  - Chemical lab
  - Gas-sensor evaluation facilities



**MiPlaza : Professional research services, expertise and infrastructure**



**Thin Film Processing**  
**Systems-in-Package**



**Materials Analysis**  
**Process Analysis**



**Test & Measurement**  
**Instrumentation**



**Electronic Design**  
**Product Prototyping**

# Suggested **Priorities** for future research

- **Research directions as PRIORITIES:**
- Miniaturized low-power gas/vapor sensors
- Ppb-level detection of e.g. NO<sub>x</sub>
- Room temperature sensing with metal oxides
- E-nose for volatiles

