



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

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Year: 2012-2013 (*Starting Action*)



ÉCOLE POLYTECHNIQUE
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Current research activities

- Nano based gas sensors (Nanowires, CNTs, graphene)
- Ultra-low power technologies
 - Self-heated metal-oxide NWs
 - Room temperature operation (credible ?)
- Optimised modes of operation
- Ultra-sensitive devices for trace detection
- Flexible and printed gas sensors
- Biomimetic gas sensors with the use of OR or OBPs



Suggested **Priorities** for future research

- **Robust and cost-effective integration methods for the sensing materials = potential for commercialisation**
- **Ultra low power and cost-effective technologies enabling autonomous systems**
- **Ultra-sensitive detection**
- **Methods for selective, stable and reproducible measurements**