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

COST Action TD1105

1ST TRAINING SCHOOL

Universitat de Barcelona, Spain, 13 - 15 June 2013

organized by UB, MIND-IN2UB - Dept. of Electronics and CSIC-IDAEA

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

Year 1: 2012 - 2013 (*Ongoing Action*)

Laboratory of Environmental Sustainability

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COST is supported by the EU Framework Programme

ESF provides the COST Office through a European Commission contract

The research group

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University of Bari "Aldo Moro"

Laboratory of Environmental Sustainability

Martino Am Rosario
Dambruoso, ucrezia
de Gennaro, Alessia
Di Gilio, An nisani,
Stefania Pet vanna
Turturro, Mari

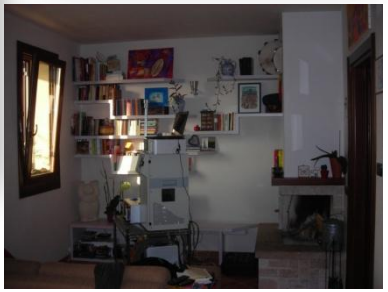
Our research lines…

Olfactometric monitoring of odorous substances

Outdoor and indoor air quality monitoring

Prototypes for the high resolution air pollutants monitoring

Breath analysis



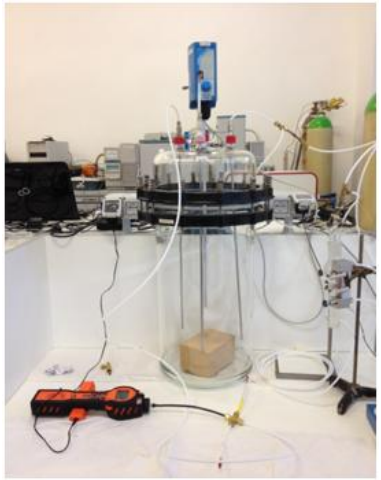
REACH/CLP regulation and sustainability assessment

Expertise

- INDOOR AIR QUALITY MONITORING

- OUTDOOR AIR QUALITY MONITORING

- EMISSIONS FROM MATERIALS



SOME RESULTS

- **Assessment of INDOOR AIR QUALITY in:**

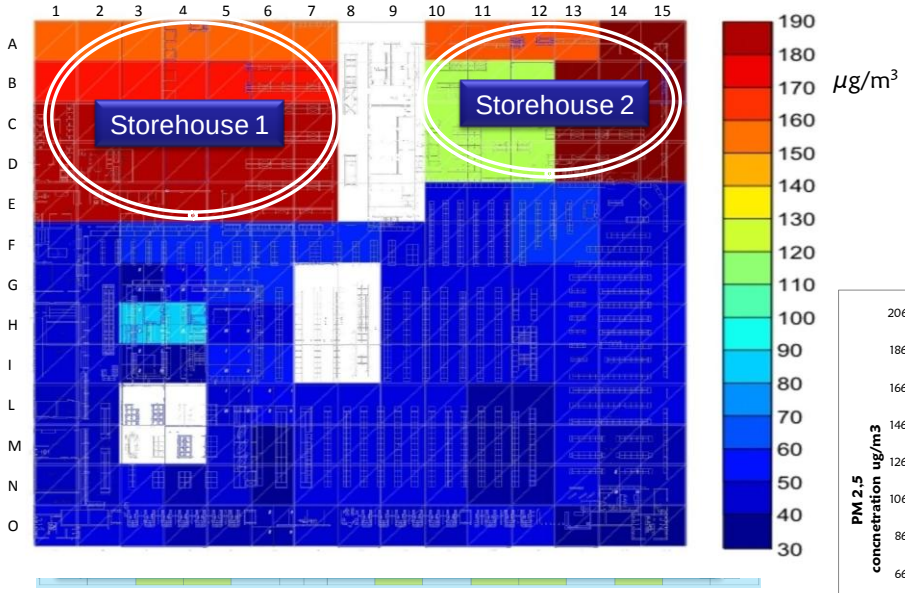
  VOC and PM

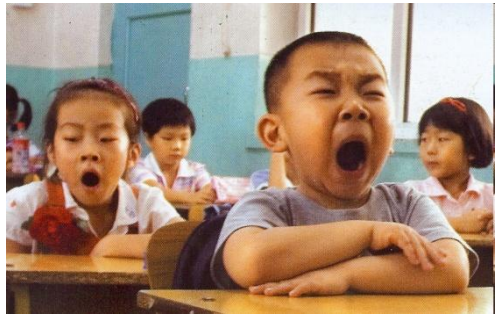
PUBLIC BUILDINGS

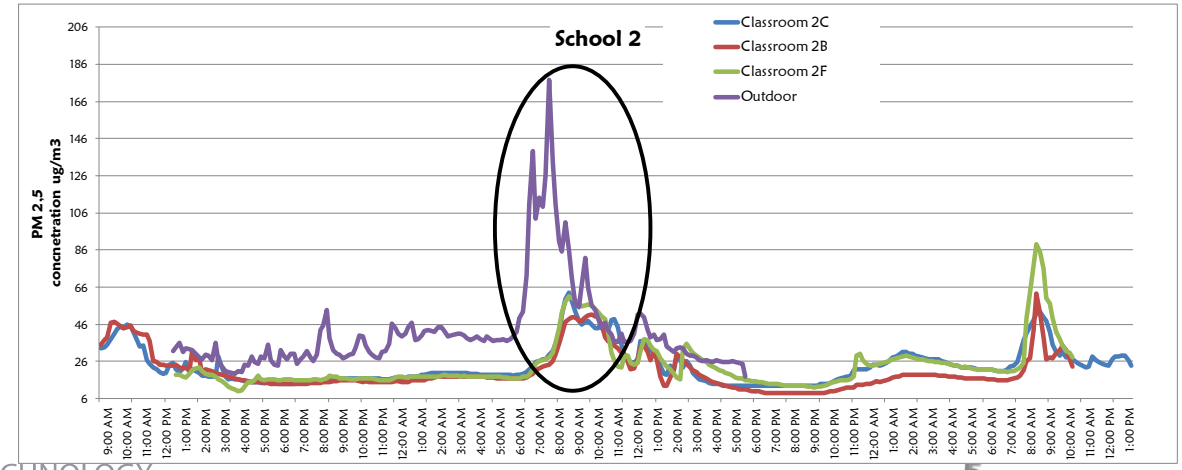
SCHOOLS

MULTI-STORES SHOPPING MALL

Average exposure to VOC







SOME RESULTS

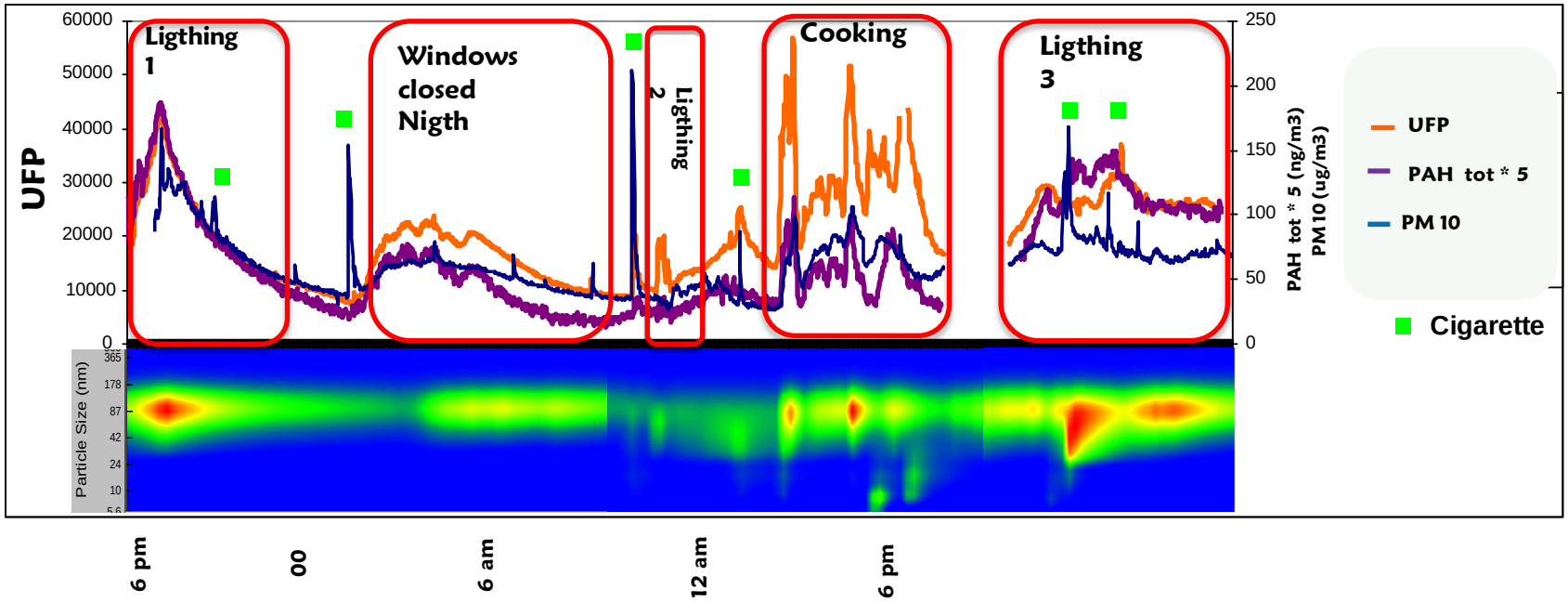
- **Assessment of INDOOR AIR QUALITY in:**

PRIVATE RESIDENCES

BIOMASS BURNING

HOMES WITH CIMNEY OR STOVES

PM, PHA, UFP



SOME RESULTS AND FUTURE ACTIVITIES

ITALIAN GUIDELINES

NATIONAL INSTITUTE OF HEALTH

VOC

Istituto Superiore di Sanità

STRATEGIE DI MONITORAGGIO DEI COMPOSTI ORGANICI VOLATILI (COV) IN AMBIENTE INDOOR
a cura del "Gruppo di Studio Nazionale sull'Inquinamento Indoor dell'ISS"

Gruppo *ad hoc* di esperti:

Gianluigi de Gennaro – Università di Bari
Annamaria Demarinis Loiotile – Università di Bari
Annamaria de Martino – Ministero della Salute
Rosanna Mabilia – CNR Consiglio Nazionale delle Ricerche
Annalisa Marzocca – Università di Bari
Anna Santarsiero – ISS Istituto Superiore di Sanità
Gaetano Settimo – ISS Istituto Superiore di Sanità
Sergio Fuselli – Coordinatore del Gruppo – ISS Istituto Superiore di Sanità

PM

STRATEGIE DI MONITORAGGIO DEL MATERIALE PARTICELLARE IN AMBIENTE INDOOR

WORK IN PROGRESS

CONCLUSIONS

OPEN PROBLEMS IN INDOOR AIR QUALITY RESEARCH

- **LIMIT VALUES**
- **SOURCES IDENTIFICATION**
- **RISK ASSESSMENT**

Thank You

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