



Network of reference laboratories and related organisations for
monitoring and bio-monitoring of emerging environmental pollutants

NORMAN project Final Meeting

Paris, 20 October 2008

DG RTD Call - 2004

When the project started...

- **VII.1.2.1 Environmental analysis and monitoring of emerging environmental pollutants.**

There is a need to improve the European capabilities for large scale **monitoring and bio-monitoring** of environmental pollutants in the various matrixes (air, water, soil). The aim is to create **a network among European reference laboratories and related organisations** in dealing with **emerging environmental pollutants** for which **Europe-wide data are lacking**. The approach will foster **co-operation** and **data transfer** of environmental analysis and monitoring institutes and related regulatory bodies for **validating common and standardised methods**. Involvement of the **new Member States** for strengthening the European co-operation is requested. The involvement of **standardisation organisations** is required. (Topic for up- to- one Co-ordination Action)

NORMAN - FP6 - Priority 6.3

17 partners

Coordination: INERIS

Start date: 1 Sept 2005

EC funding: 3 Years



Start-up
of the
network



NETWORK 1

Prepare the tools for
network functioning

INTERACTION

Info exchange /
workshops

SEARCH

Tools for data collection/
evaluation / data gaps

VALIDATION

Tools for data quality &
comparability

CASE

ILS to test NORMAN
validation approach

NETWORK 2

Prepare network follow-
up & self-sustainability



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network

NETWORK 1

Prepare the tools for network functioning



- **Network of Contact Points**
 - info from national programmes
 - for NORMAN Library + Databases
- **Glossary of terms with definition of**
 - emerging substances
 - NORMAN Reference Laboratory criteria
- **Newsletter**
 - 5 issues with critical reviews of publications, research projects, network activities, events, etc.

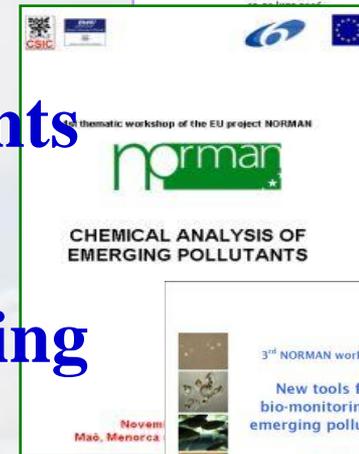


INTERACTION

Info exchange / workshops



- **Emerging environmental pollutants: key issues and challenges**
 - Stresa, Italy, June 2006
- **Chemical analysis of emerging pollutants**
 - Menorca, November 2006
- **New tools for bio-monitoring of emerging pollutants**
 - Amsterdam, October 2007
- **Integrated chemical and bio-monitoring strategies for risk assessment of emerging substances**
 - Lyon, March 2008



SEARCH

Tools for data collection/
evaluation / data gaps



- Three web-based databases on emerging pollutants

- EMPOMAP
- EMPODAT
- EMPOMASS

The top screenshot displays a profile page with contact information: Fax: ++39-0332-786351, E-mail: georg.hankojrc.it, and website: http://www.jrc.ec.europa.eu/. It also lists professional expertise in water monitoring and a list of projects from 2003 to 2009.

The middle screenshot shows a chromatogram plot with peaks labeled with retention times (e.g., 45, 57, 80, 133, 185, 207, 216, 262, 357, 386, 431, 444, 503, 540, 582). Below the plot, there is a list of compounds and their corresponding retention times.

The bottom screenshot shows a data entry form with fields for Analytical method (GC), Detection method (MS), and various checkboxes for data control and laboratory accreditation.



CASE

ILS to test NORMAN validation approach

- Tested in three case studies:
interlaboratory studies on :
 - Oestrogens in wastewaters (level V1)
 - Non-steroidal anti-inflammatory drugs in
waters (level V2)
 - DecaBDE in dust (level V3)

NETWORK 2

Prepare network follow-up & self-sustainability

We will see this this afternoon!