



# NORMAN objectives:

- Creation of a network among European reference laboratories and related organisations dealing with emerging environmental pollutants for which Europe-wide data are lacking.
- The approach will foster:
  - exchange of data and information on emerging substances
  - validation and harmonisation of common measurement methods and monitoring tools to meet the demands of risk assessors and risk managers.



NORMAN Workshop, Menorca, 27-28 Nov 2006

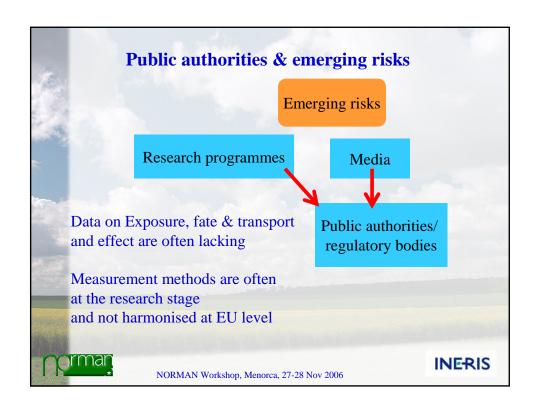
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### **Emerging environmental pollutants**

'Substances that are not part of routine monitoring programmes but have been shown to occur in the environment and may be candidate for future regulations, depending on the results of research on their effects and their occurrence in the environment'



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## NORMAN has a role in this process

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### Activities / services provided by the network:

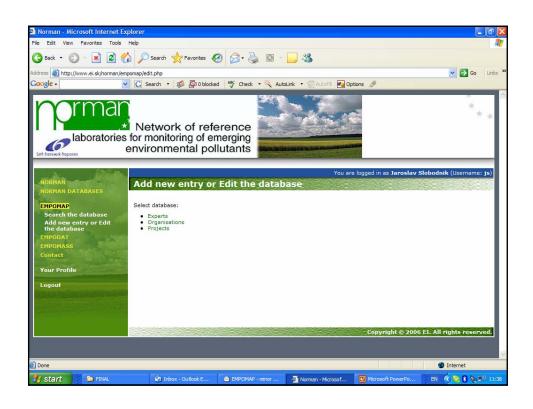
- Information exchange and sharing
  - Workshops (4 events during the course of the project)
- Scientific observatory
  - Newsletter (5 issues during the course of the project)
  - NORMAN Contact Points to help info gathering
- Collection / evaluation of data
  - Database of experts / organisations and projects
  - Database of monitoring data
  - Database of mass spectra of unknown substances

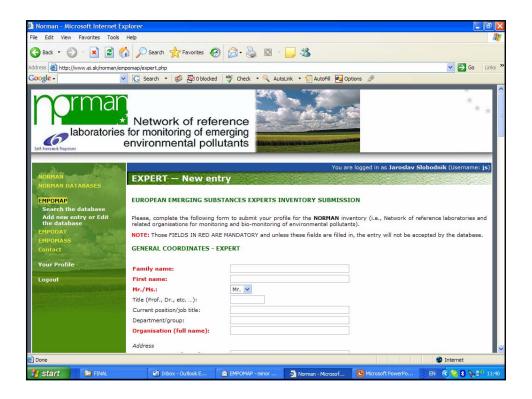


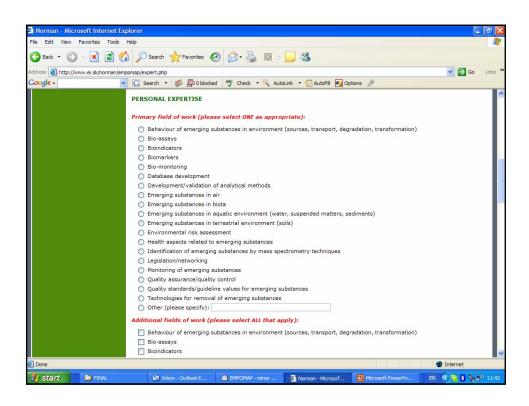
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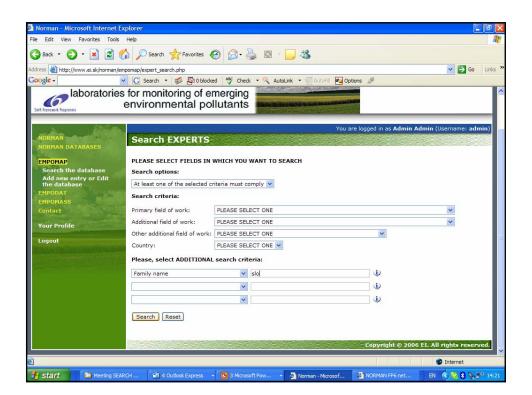
# EMPOMAP MAP OF KNOWLEDGE - Emerging pollutants • Three modules - Experts (S1-1) - Organisations (S1-2) - Projects (S1-3) • Main goal - Help the identification of experts and stakeholders dealing with specific emerging substances in Europe NORMAN Workshop, Menorca, 27-28 Nov 2006









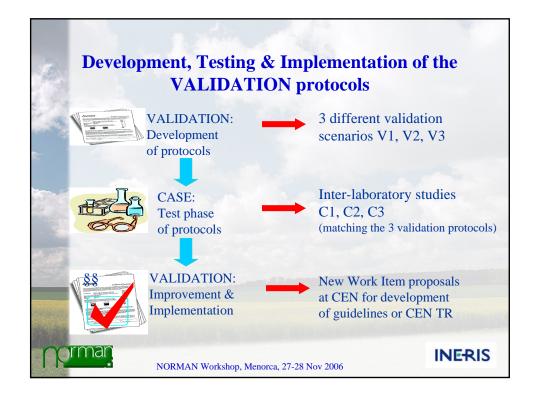


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# Why validation protocols for emerging pollutants?

### Background:

- Reliability and comparability of monitoring data on emerging pollutants (EP) is often limited
- Methods for analysis of EP (or their effects) are often not fully validated, not harmonised or not suitable for all relevant matrices

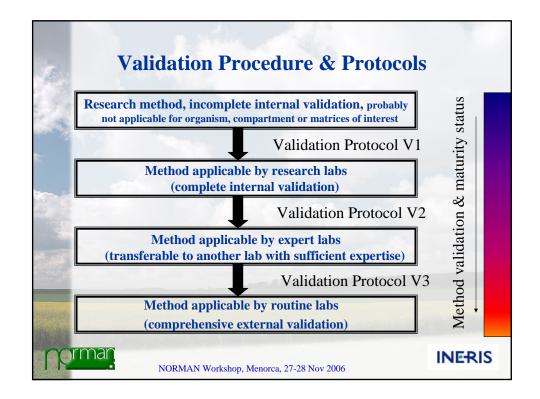
### Objectives:

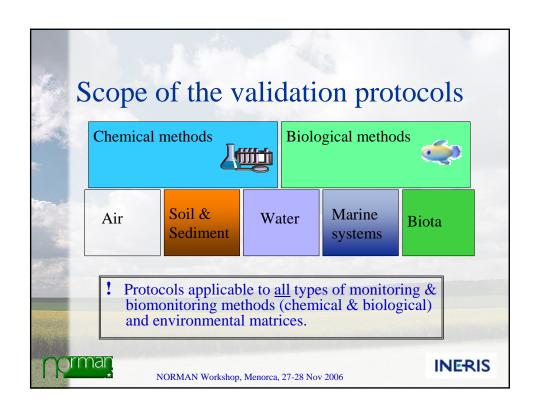
- provide structured protocols for optimisation and validation of monitoring & bio-monitoring methods for EP
- accelerate the establishment of methods which are fit for purpose
- development of three validation protocols (3 levels of "validation maturity") addressing different monitoring needs



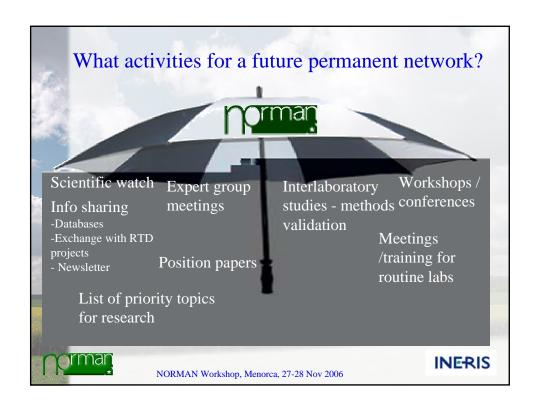
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### Next NORMAN Workshop:

New tools for bio-monitoring of emerging pollutants

- •Two-day workshop
- •Autumn 2007, Amsterdam, Vrije Universiteit
- •Bio-monitoring
  - •Current state-of-the-art:
    - •In situ, in vitro/ in vivo bioassays, biomarkers
    - •End-points
  - •Discussion of methods, gaps, limitations and difficulties
  - •Link between biological and chemical data (TIE/EDA)
  - •Requirements and initiatives for validation and harmonisation at EU level
- Exchange of data
  - •Up- and downloading of emerging pollutants data from Norman databases (working in small groups, ½ day): EMPOMAP and EMPODAT



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