



Water Framework Directive River Basin Specific Pollutants 10./11.6.2010 Stresa, Italy



A JRC IES – NORMAN Initiative in support to the Water Framework Directive implementation



NORMAN Network (former EU-funded FP6 project)

 Network among national reference laboratories, research centres and associated organisations for monitoring of emerging environmental contaminants

Mission:

- Encourage more rapid and wide-scope exchange of information
- Improve data quality and comparability
- Ensure that knowledge is maintained and developed (synergies with activities funded at the national level)







Since 2009 the NORMAN network is established as a nonprofit association

- 8 Founding members and 45 members in 2010
- Focus on synergies with the various activities funded at the national level in the field of EP
- Strong link with DG ENV (WFD CIS WG-E)





Collaboration between:

EC Joint Research Centre – Institute for Environment and Sustainability – Rural Water and Ecosystem Resources Unit

and

NORMAN –Network for Emerging Pollutants











NORMAN – Network for Emerging Pollutants





WFD River Basin Specific Pollutants



- Discharged in significant quantities: what do we mean by that?
- •What are the relevant substances? "Well known" substances vs less investigated?
 - •Lack of data, limited analytical performance, limited knowledge of the effects (high uncertainty factors), etc:
 - Limitation of the risk assessment methodology (substance-based approaches)

Risk of neglecting less investigated / emerging substances!





MAN

Well investigated vs emerging substances

There is no place

TOP-DOWN approach

TARGET & select:
PRIORITISATION of emerging
SUBSTANCES

Data comparability:

-Common Protocol for methods validation

-ILS

RI

Not monitored

NORMAN strategy

Not regulated

BOTTOM-UP approach

Identification of relevant toxicants via FIELD-BASED approaches

Biological tools in combination with chemical analysis

s not demonstrated: too

net

RESE

Data sharing / data

- , info exchange
- Databases



Setting priorities among emerging substances

- NORMAN Working Group N°1: Prioritisation of emerging substances
 - NORMAN list: more than 400 substances identified in the scientific literature as «emerging substances»
 - Need to establish criteria for setting priorities among emerging substances: definition of action categories to fill current gaps
 - The result of this WG will help future NORMAN actions: investigative monitoring exercises, interlab studies, biological testing (WG on bioassais), etc.



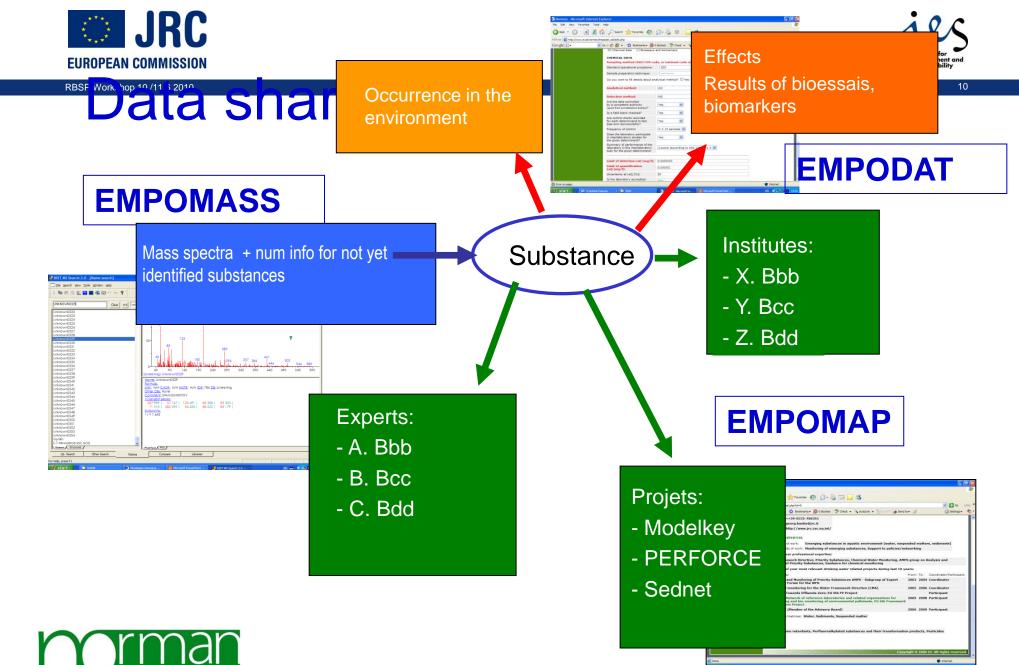


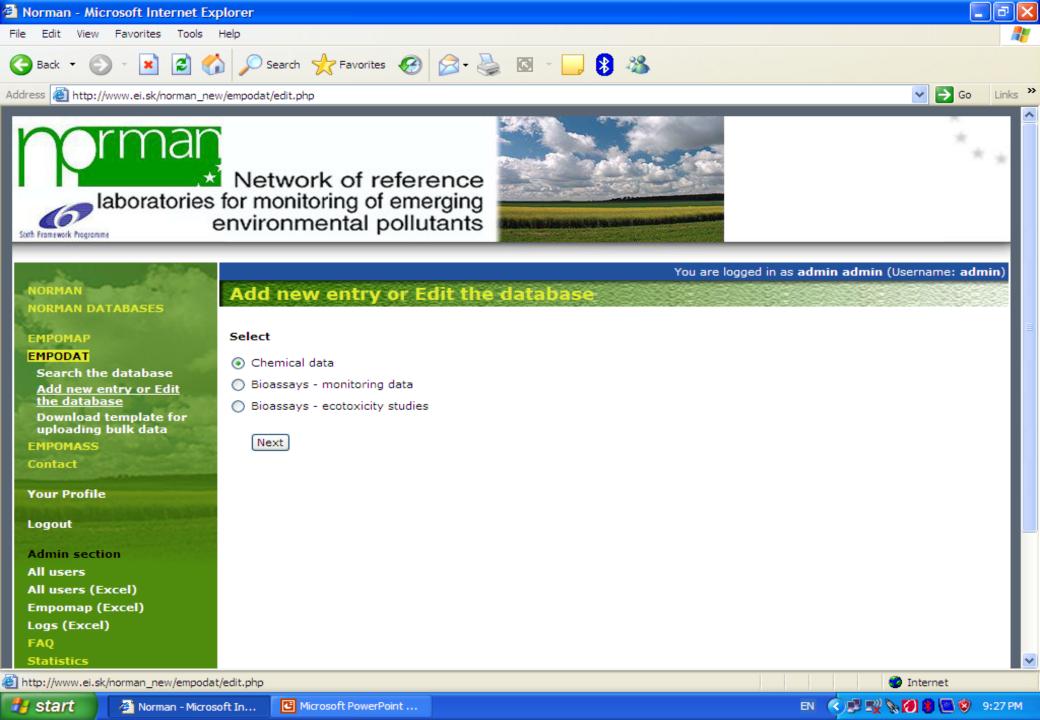


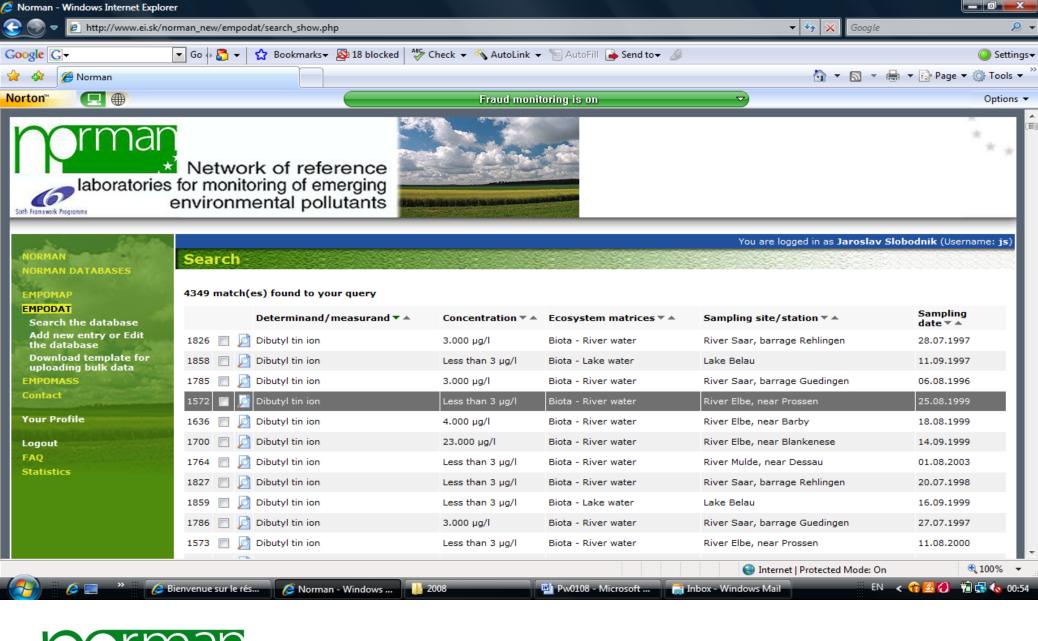
Identification of relevant toxicants and their monitoring

- Monitoring and modelling-based prioritisation can only partly solve dilemma of the complexity of contamination
- Two Working Groups dealing with the biological tools:
 - WG-2 "The value of bioassays / biomarkers in water quality monitoring: strategies for interpretation of results" (INERIS / IVM / RIVM)
 - WG-3 "Effect Directed Analysis (UFZ): combination of extraction, biological testing, fractionation, and chemical analysis to reduce complexity of the mixture of compounds and enable identification of toxicant(s) responsible for observed biological response.

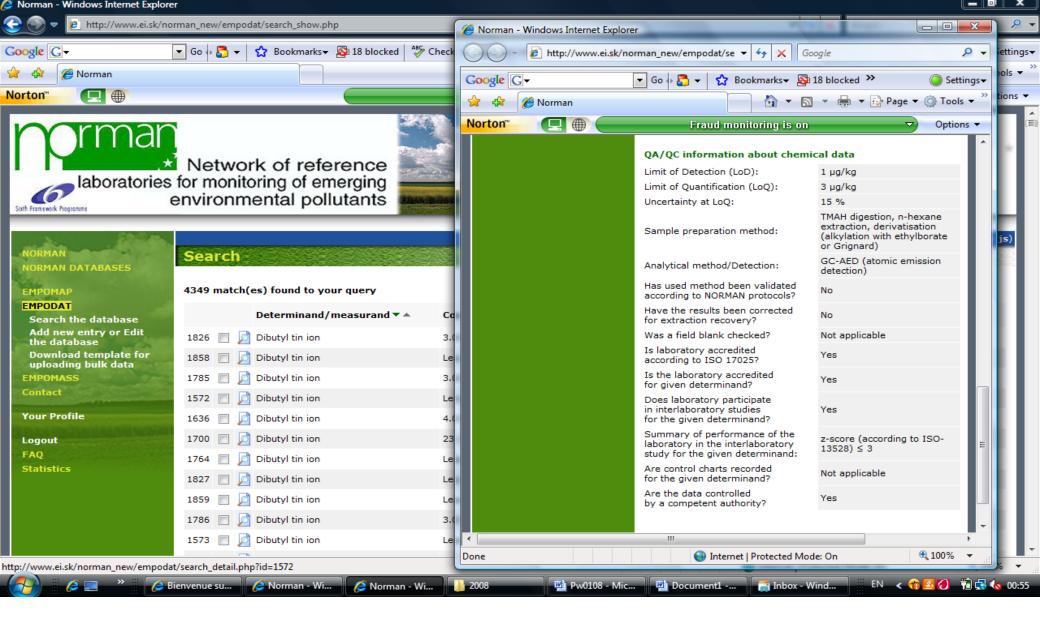






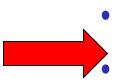












EUROPEAN COMMISSION

Harmonisation and validation of analytical methods Implementation of NORMAN methods validation protocols in European Standardisation (CEN)





Validation protocol developed during the NORMAN project: common European framework for methods validation

TC 230 resolution (397): NORMAN protocol will be the basis for New Work Item Proposal (future CEN TS)







Regulated Pollutants under WFD









Regulated Pollutants under WFD

WFD Priority

Pollutants

Monitoring at EU level









Regulated Pollutants under WFD

WFD Priority Pollutants

Monitoring at EU level

WFD "Other" Pollutants









Regulated Pollutants under WFD

WFD Priority Pollutants

Monitoring at EU level

WFD River Basin Specific Pollutants





Regulated Pollutants under WFD

WFD Priority Pollutants

Monitoring at EU level

WFD River Basin Specific Pollutants

National monitoring









Universe of Chemicals		

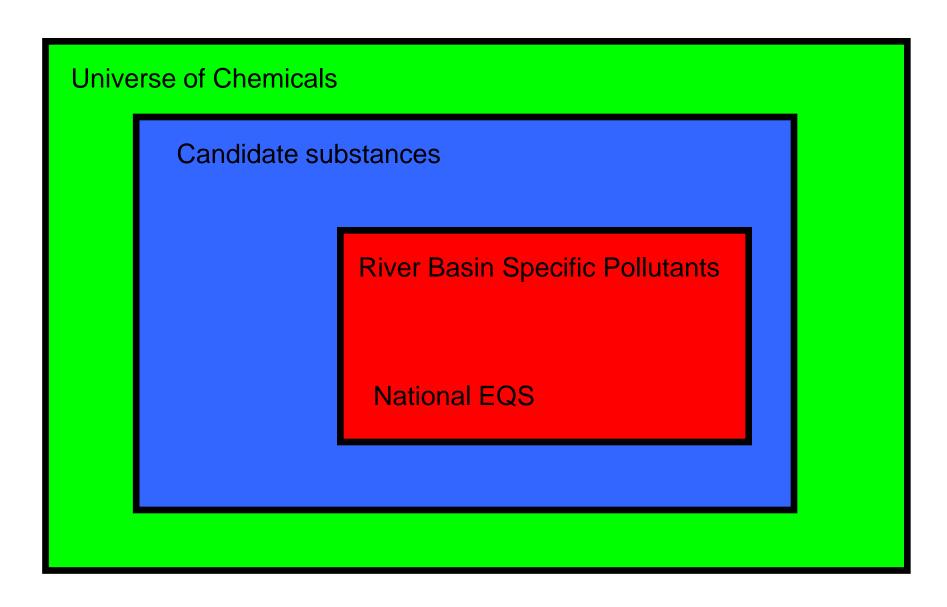




Universe of Chemicals Candidate substances

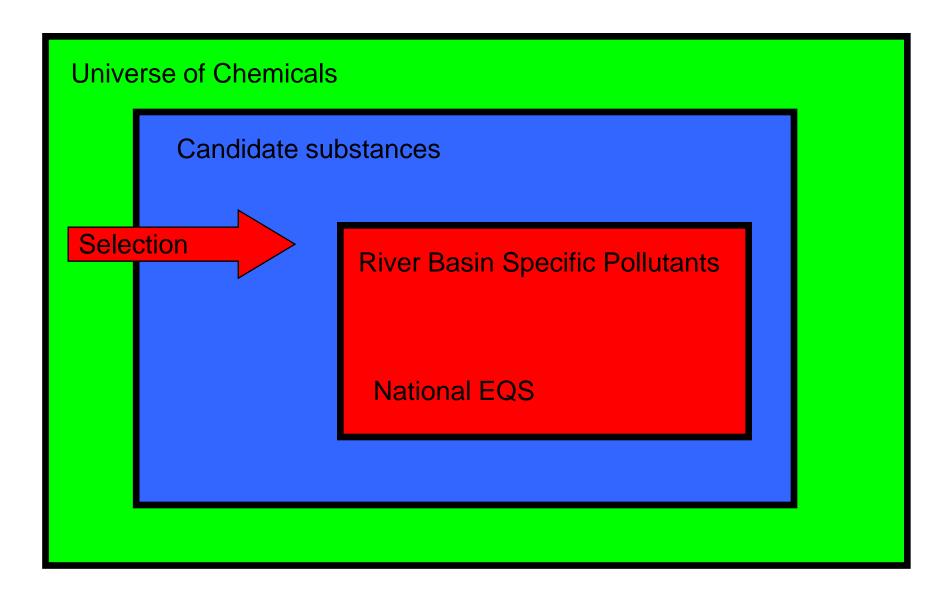
JRC

EUROPEAN COMMISSION



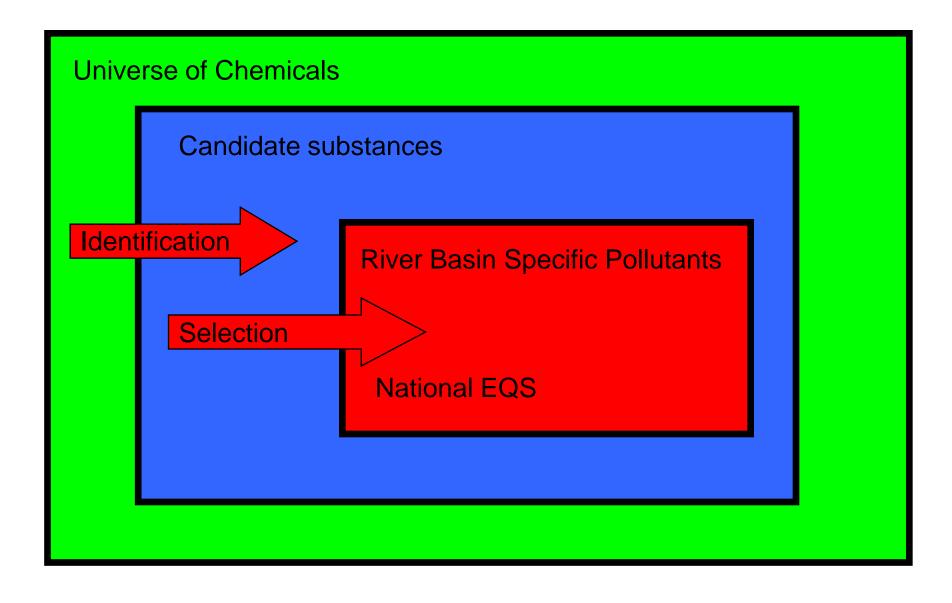
JRC

EUROPEAN COMMISSION



JRC

EUROPEAN COMMISSION







4 thematic areas:

- Data availability
- Identification of RBSP candidate substances
- Selection of RBSP
- Monitoring of RBSP







This workshop is a WORK-shop.....







Scope of the workshop:

- Be a platform for <u>informal</u> information exchange among Member States
- Identification and discussion of <u>relevant</u> questions among Member States
- Identification of <u>priority</u> development needs







Workshop preparation:

- Questionnaire distributed to MS via WG E and Chemical Monitoring group (14.1.2010)
- Drafting of questions for thematic areas







Workshop organisation:

- Introduction and background info
- Overview on questionnaire feedback
- Working sessions on thematic areas
- Wrap up and outcome drafting





Working sessions:

- 5 min flash presentations for "scene setting"
- Discussion of questions
- Answer compilation at tables
- Collection of table answers





Envisaged workshop output:

- Enhanced communication among MS
- Compilation of questionnaire feedback
- Compilation of discussion outcome
- Drafting of report and publication after agreement by participants as EU report
- Overview on feedback presented by Henna Piha

