

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

NORMAN DATABASES

Jaroslav Slobodnik Environmental Institute, Kos, Slovak Republic

Launch meeting of the new permanent network and project final workshop, Paris, 20 October 2008



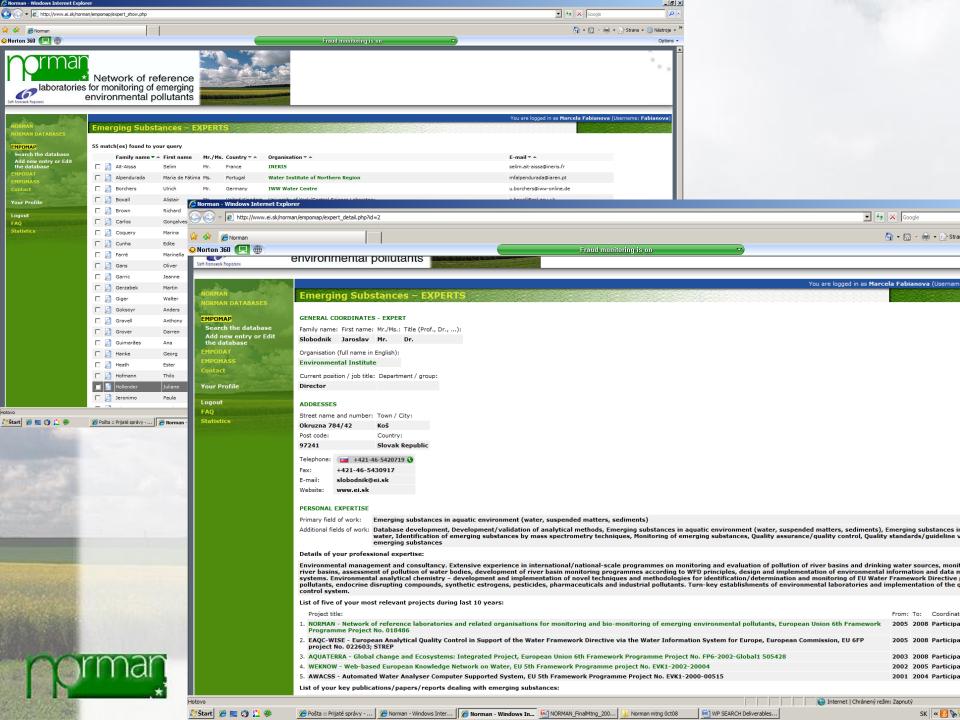


EMPOMAP: Database of European leading experts, organisations and projects

- Publicly available since February 2007
- Improved user-frendliness
- Users invited to register their projects/ organisations/ expertise
 - No. of registered users >245 (ca. 140 organizations)
 - Experts -55 (+8 in draft)
 - Organizations 24 (+5 in draft)
 - Projects 100 (+5 in draft)





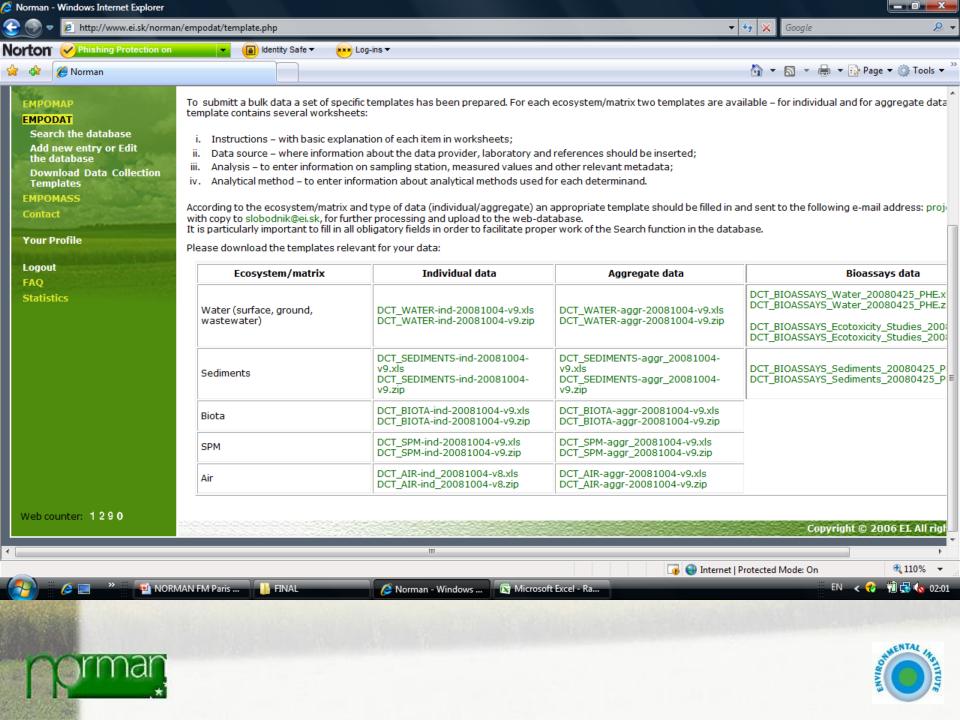


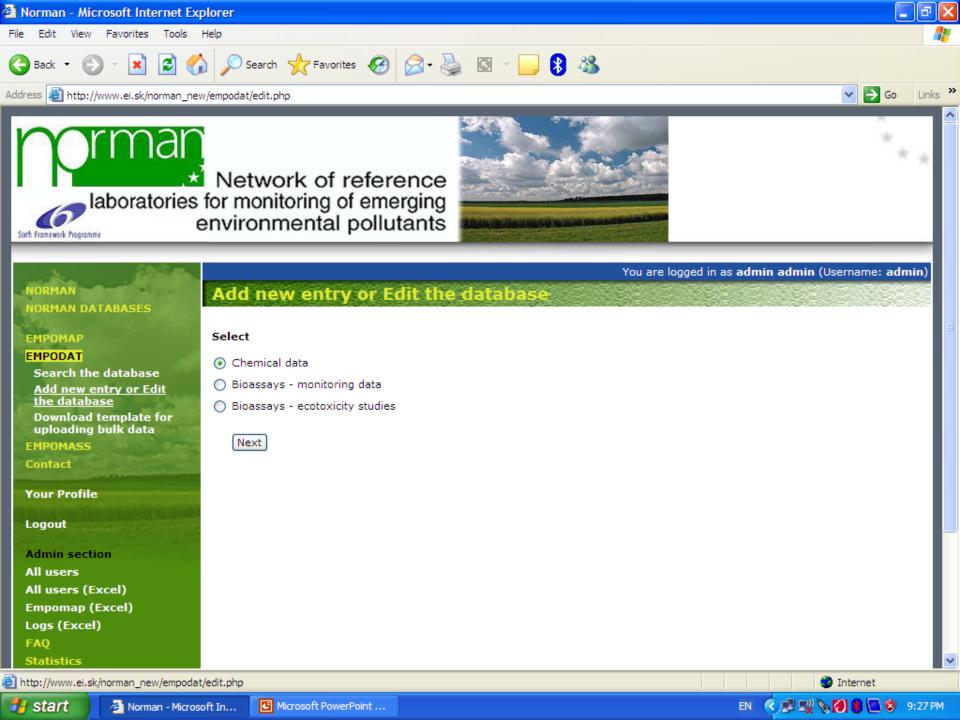
EMPODAT: Database of occurrence/monitoring data on emerging substances

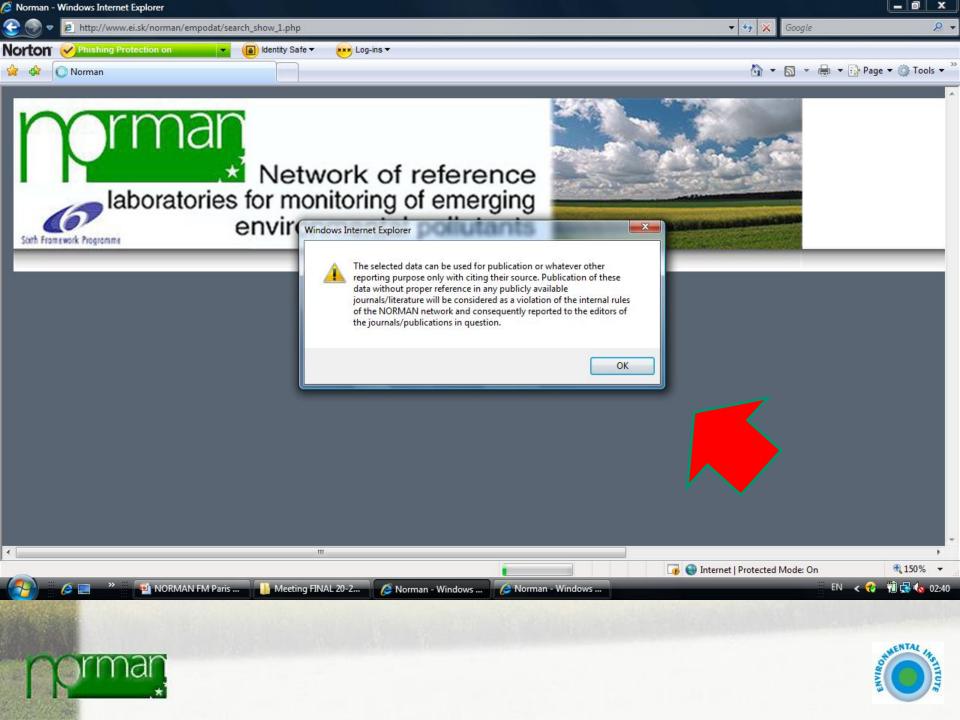
- Web-database on-line
- Three modules:
 - Chemical data including sub-module on nanoparticles
 - Bioassays monitoring data
 - Bioassays ecotoxicity studies
- Data entry
 - Data Collection Templates for bulk data upload downloadable
 - On-line entry form for single entries
 - Matrices: water, sediment, SPM, biota, air

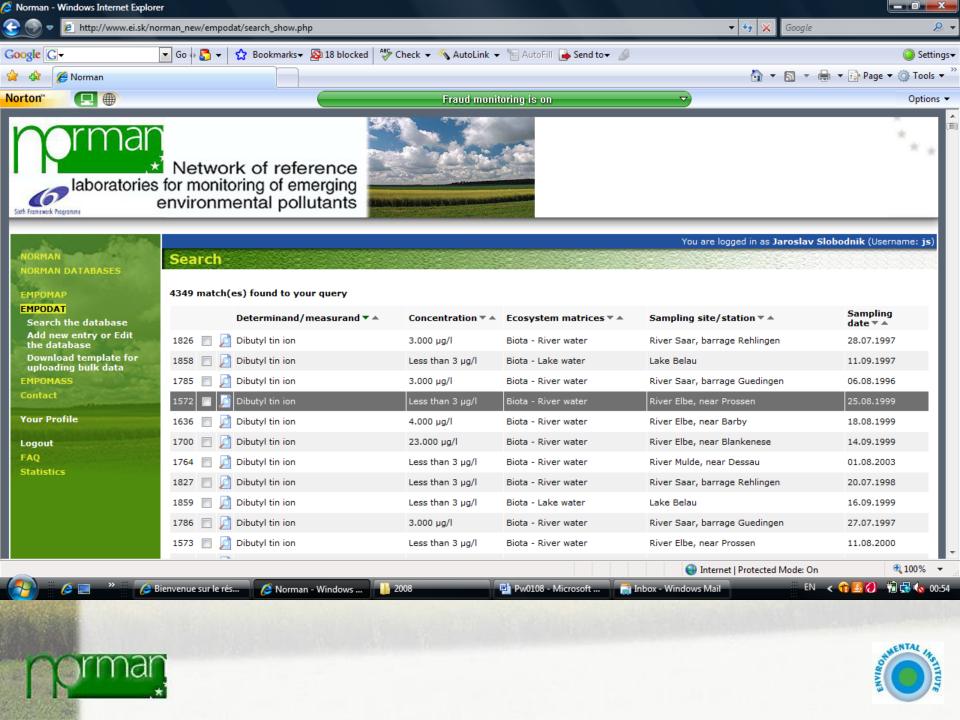


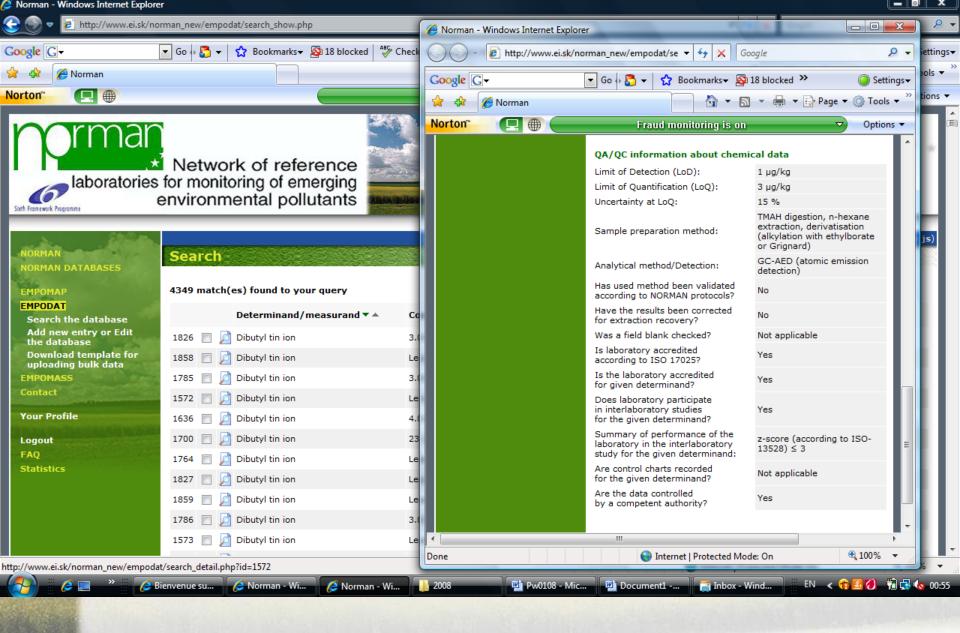




















Implementation of Requirements for Priority Substances within the Context of the Water Framework Directive



Common template for data collection Final version 20th March 2007

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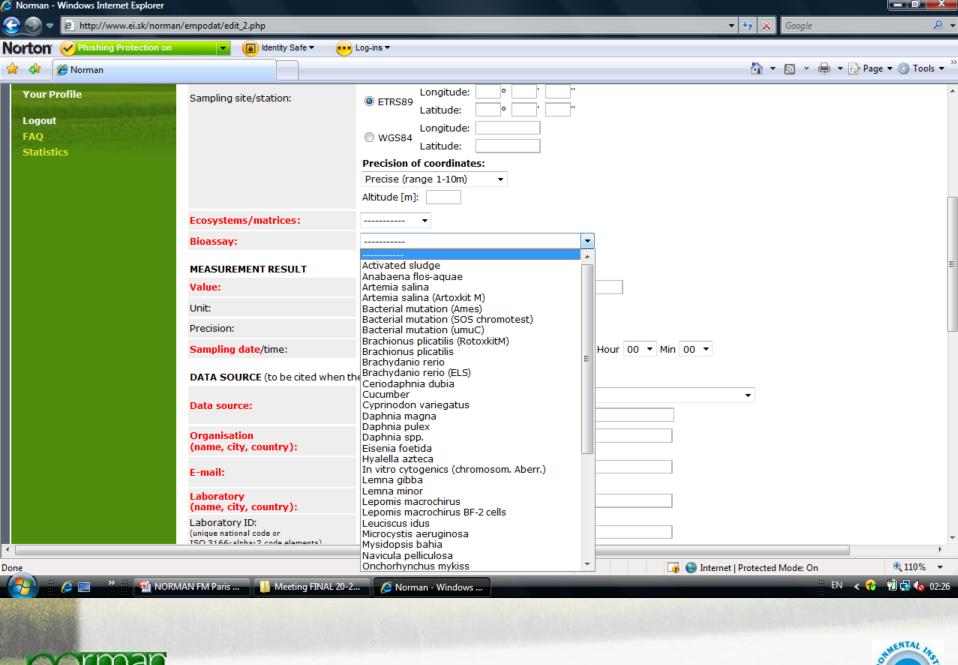
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EMPODAT

Organization – data provider	matrix	data entries uploaded	
EI / SHMI (Slovakia)	Surface w. / waste w./ sediments	5067	
JRC (Italy)	Surface water	744	
IJS (Slovenia)	Surface water	86	
UBA (Germany)	Surface w marine	180	
CSIC (Spain)	Surface w. / sediments	880	
FI- IME / German Env. Speciment Bank (Germany)	Biota	1185	
ICPDR (Danube Basin)	Surface water	560	
TOTAL		8702	



EMPODAT

Country	No of data entries	Country	No of data
Austria	44	Bulgaria	63
Croatia	32	Germany	1258
Hungary	73	Italy	744
Romania	178	Serbia	85
Slovenia	86	Slovakia	5132
Spain	880	Intl. waters	125



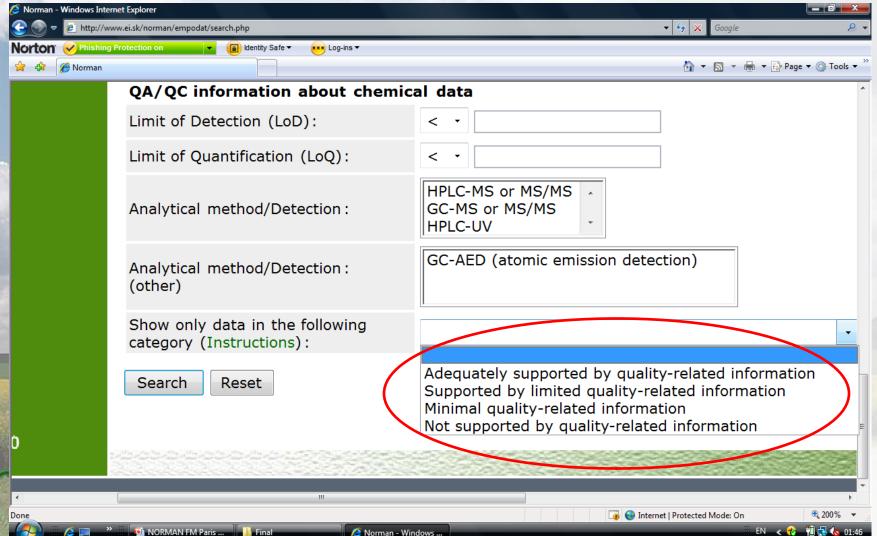


EMPODAT

Organization – data provider	Matrix	Data in pipeline	
UK EA (UK)	Surface w. / ground w. / sediments	734	
BRGM (France)	Surface w./ground w.	648	
SYKE (Finland)	Biota / sediments / surface w.	4730	
IRSA (Italy)	Surface water / SPM	230	
IVL (Sweden)	Sediments	650	
UBA (Germany)	Biota	84	
WRI (AQUATERRA Danube Survey)	Sediments - bioassays	817	
TOTAL		7893	

EMPODAT – Data scoring





No.	Metadata	Information provided	Rating	Minimum requirements - category 3	Minimum requirements - category 2	Minimum requirements - category 1
1	1 Limit of Detection (LoD)	Filled in	10	10	10	10
109		Not filled in	0		100	
2	2 Limit of Quantification (LoQ)	Filled in	8		8	8
5	198	Not filled in	0			
A.	3Uncertainty at LoQ	Filled in	6		6	6
113		Not filled in	0	THE A.		
100	4 Coverage factor	Filled in	2			2
10,354	Charles and the second	Not filled in	0			
	5 Analytical method	Filled in	2		2	2
ł		Not filled in	0	74		
	6 Sample preparation method	Filled in	2	No.	2	2
		Not filled in	0			
	7 Has standardised analytical method been used?	Filled in	6			
No.		Not filled in	0			
V	8 Has the used method been validated according to one of the NORMAN protocols?		6	6		
		V2 – between laboratories	8		8	
	100	V3 - routine	10			10
Entit !		No	0			
-		Not known	0			

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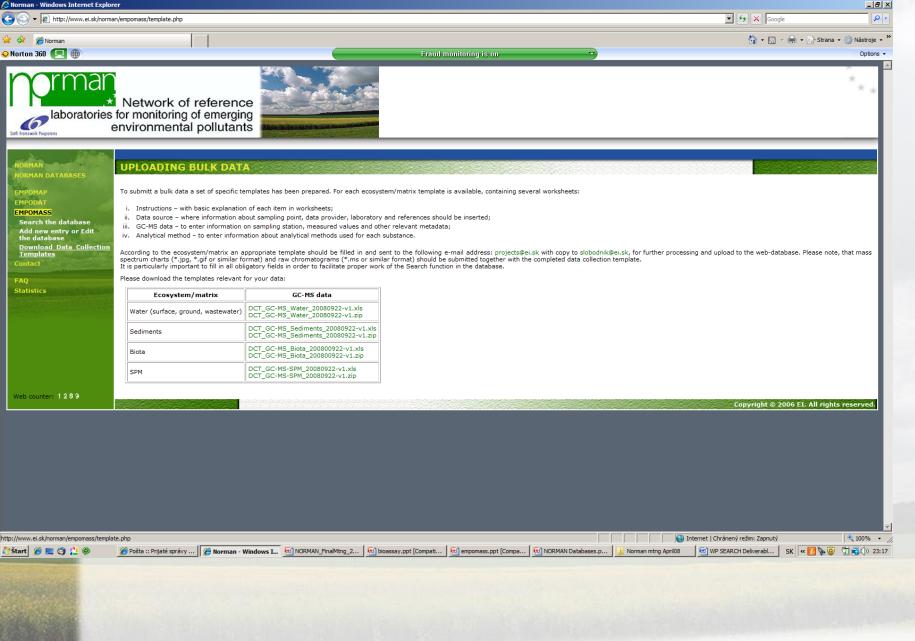
Code	Category	Score
1	Adequately supported by quality-related information	68-92
2	Supported by limited quality- related information	52-67
3	Minimal quality-related information	22-51
4	Not supported by quality- related information	0-21

EMPOMASS: Mass spectral database of unknown and provisionally identified substances

- Web-database on-line
- Two modules
 - GC-MS
 - LC-MS-MS
 - including option of accurate mass measurement
- Data entry
 - Data Collection Templates for bulk data upload downloadable
 - On-line entry form for single entries
 - Matrices: water, sediment, SPM, biota, air

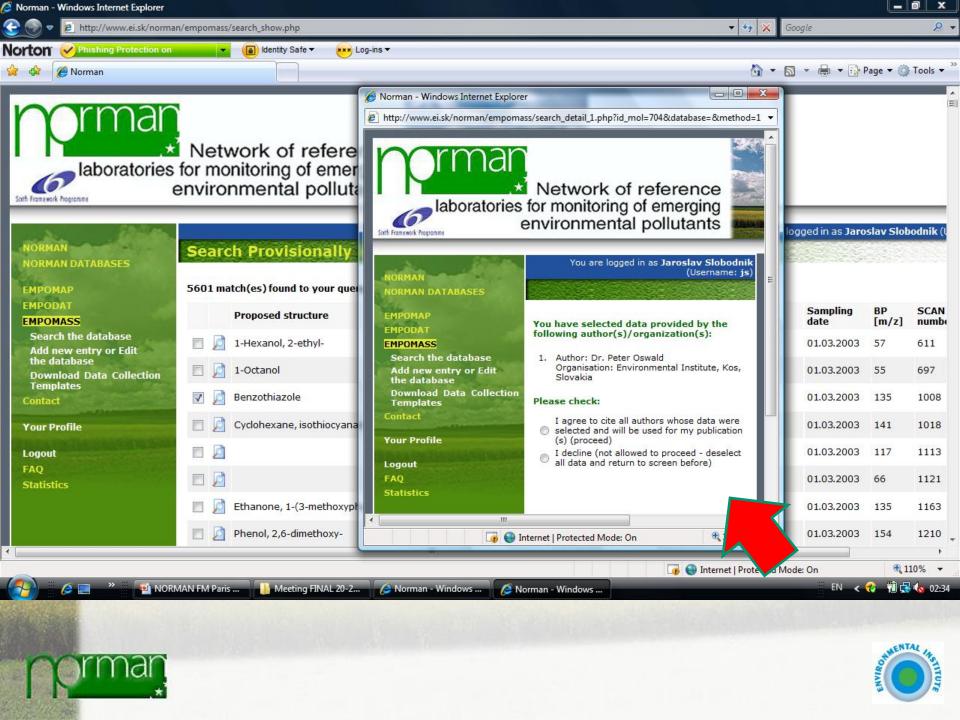


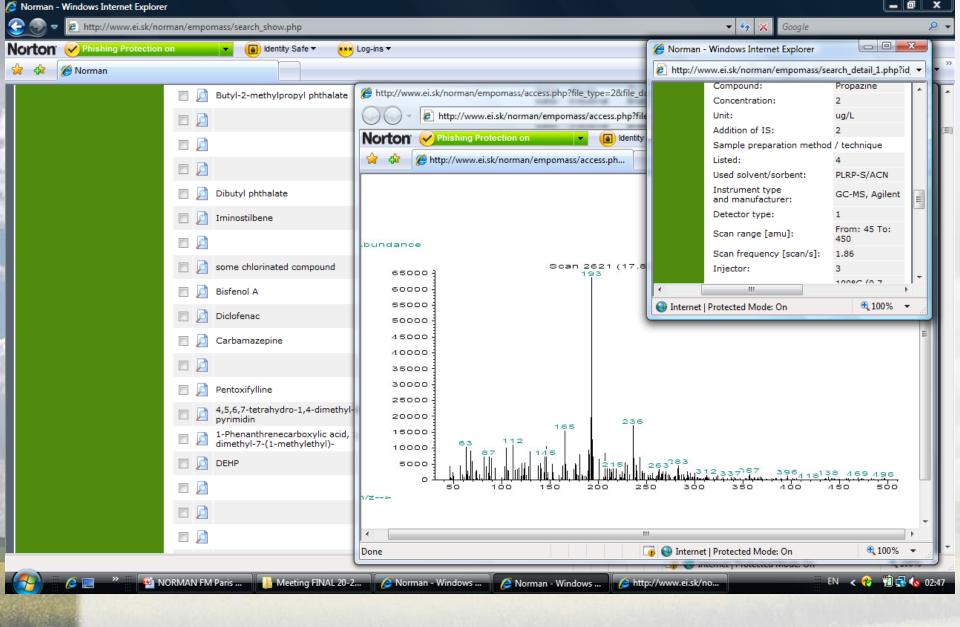
















EMPOMASS

Organization – data provider	Matrix	Data entries uploaded	
EI / SHMI (Slovakia)	Surface w. / waste w./ sediments	5600	
ITM (Sweden)	??	??	
Deltares (The Netherlands)	??	??	
MODELKEY	??	??	
TOTAL		5600	





Future steps

- Data collection and processing
- Evaluation of the data from Norman databases
 - Target substance(s): benchmark values, location, quality of the data, data gaps, etc.
 - 2009 organic phosphorous flame retardants and siloxanes
- Re-programming of all databases in AJAX software
 - Speed and flexibility of "SEARCH" function
- Interlinking of all three databases
 - Automated procedure for registering organisations-projects-experts when working in EMPODAT or EMPOMASS





Upgrade of the list of NORMAN substances I

- Present list O.K. but:
 - Duplication of entries
 - Wrong/missing CAS#
 - Some classes without substances
 - Under-represented drinking water sector
- Addition of some compounds even if already regulated (e.g., TBT, atrazine flagged)
- Degradation products and parent compounds flagged
- Possible structure (each compound one line only):



Upgrade of the list of NORMAN substances II

- Criteria to be developed by Working Group on Prioritisation
- Considerations to include:
 - All OTHER POLLUTANTS from each MS
 - Annex III substances subject to review for possible identification as priority substances or priority hazardous substances DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on environmental quality standards in the field of water policy



Permanent NORMAN Network

- All databases free access for public
- EMPOMAP no restrictions
- EMPODAT and EMPOMASS restrictions in access of some features for non-members
- NORMAN Network (paying) members considerations
 - Full access with the data export to Excel
 - Features on data quality/availability/reliability
 - Regular analysis of data in the databases reports available only to members before publication
 - Graphical presentation of the data (GIS??)
 - ???





Other considerations

- Continue lobbying at DG ENV and DG RESEARCH to make an upload of all data on emerging substances generated within future EU-funded (e.g., FP) projects mandatory
- Harmonise efforts with:
 - Reporting/upgrade of DWD
 - REACH
 - EEA WISE





Acknowledgements

- ALL NORMAN partners and Contact Points
- Marcela Fabianova
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- Lubos Cirka



