



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

NORMAN's missions and objectives of the meeting

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www.norman-network.net



NORMAN Expert Group meeting on “Linking Environmental Quality Standards and Passive Sampling” - Brno, 3-4 July 2013

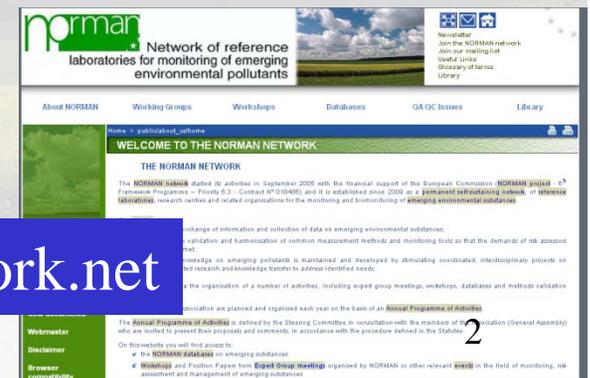
NORMAN network – emerging environmental substances

Description :

- Network of reference laboratories, research centres and related organisations for monitoring of emerging environmental substances
- Former EU-funded project, established as a permanent network in 2009 (non-profit organisation)
- > 50 members from leading organisations in EU and beyond (19 European countries and Canada)

Mission :

- Exchange information on emerging environmental substances
- Improve data quality
- Promote synergies among research teams

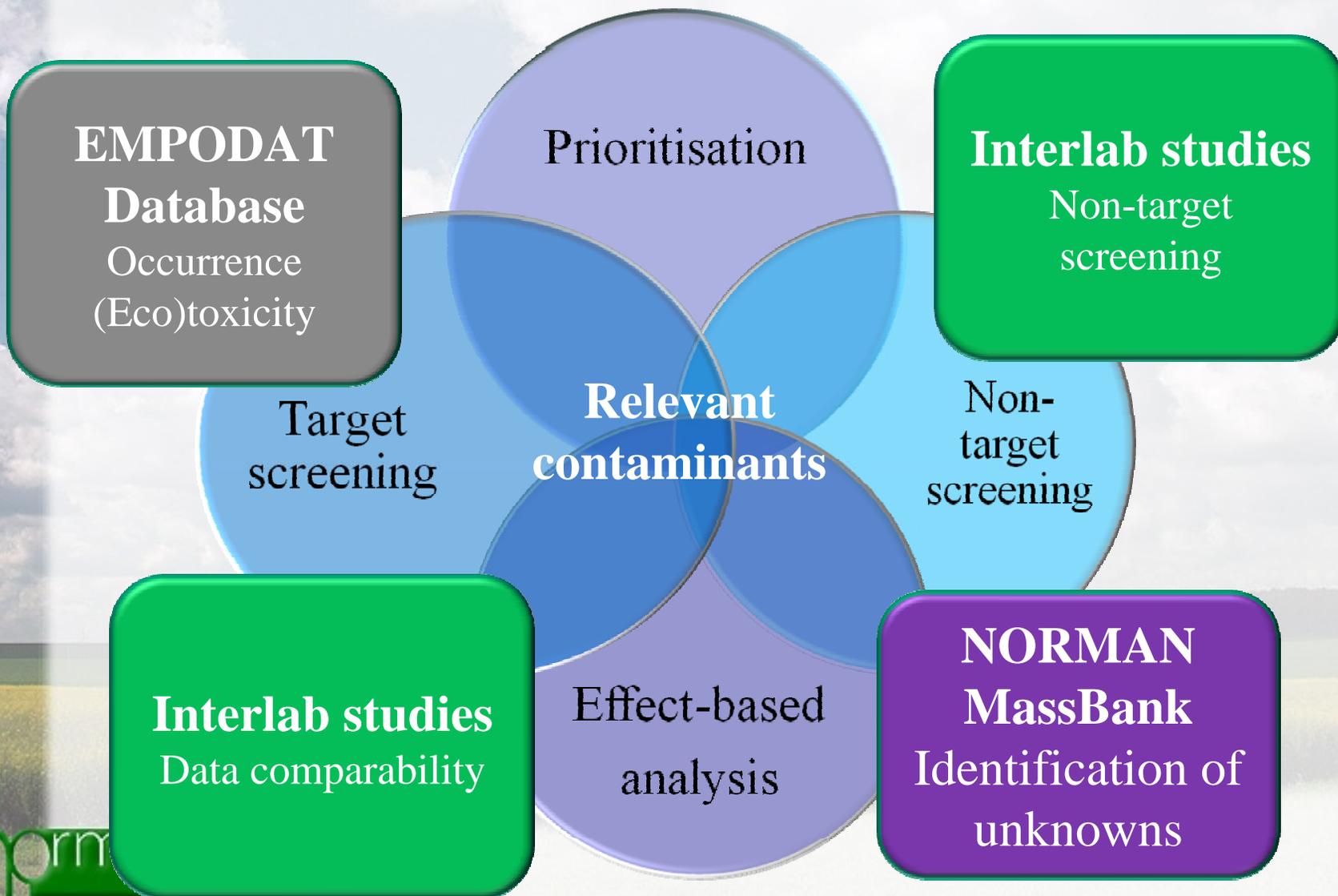


The screenshot shows the NORMAN network website. The header features the NORMAN logo and the text "Network of reference laboratories for monitoring of emerging environmental pollutants". Below the header is a navigation menu with links for "About NORMAN", "Working Groups", "Workshops", "Databases", "QA/QC Issues", and "Library". The main content area is titled "WELCOME TO THE NORMAN NETWORK" and contains introductory text about the network's establishment in 2009. A blue banner at the bottom of the screenshot displays the website URL: <http://www.norman-network.net>. The footer includes a "Webmaster" section with contact information and a "Disclaimer" section.



<http://www.norman-network.net>

NORMAN supports progress of knowledge on emerging contaminants



NORMAN network: some achievements

EMPODAT database:

- Created and regularly maintained since 2006 (as part of the original NORMAN project)
- In 2013 invited to become part of the Integrated Platform for Chemical Monitoring (IPChem)

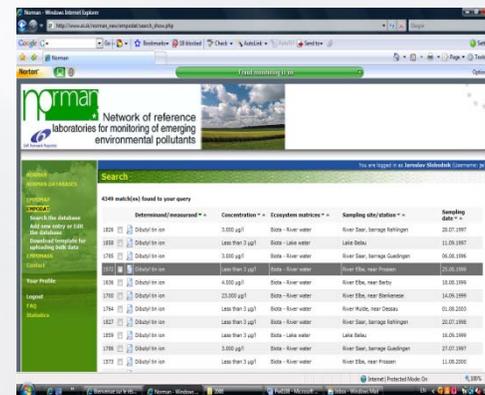
NORMAN MassBank :

- The NORMAN MassBank server was established in 2011
- NORMAN joined the global 'metabolomics' MassBank consortium (www.massbank.jp) in August 2012

NORMAN Framework for method's validation:

- Designed to support validation of measurement methods for monitoring of emerging contaminants
- Today under negotiation at CEN : on its way to becoming a CEN Technical Specification (CEN TS, NWIP at CEN TC 230)

Passive sampling



High Resolution Mass Spectral Database
NORMAN MassBank



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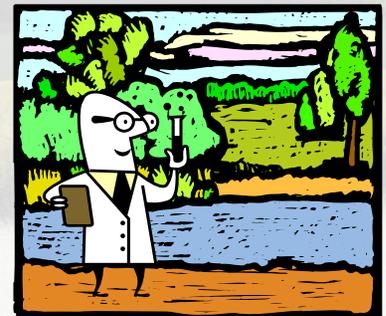
NORMAN and passive sampling

What does NORMAN do and
.....why are we here today ?

Activities of NORMAN in passive sampling

(Action leader: B. Vrana, WRI, SK; F. Smedes, Deltares, NL)

- An **expert group meeting** on passive sampling in Prague in 2009
- A **position paper** “*Passive sampling of emerging pollutants in the aquatic environment: state of the art and perspectives*” in 2010
- An **interlab. study** organised by NORMAN and DG JRC in support of CIS WFD in 2011 =>> **Workshop** (29-30 October 2012, Ispra, Italy)



Follow-up...Passive sampling for compliance checking

- **11 substances** will have **EQS in biota** (fish) in the « new » EQS Dir (2008/105/EC)
- Multiple factors affect pollutant levels in fish
 - data from chemical **monitoring in biota** are expected to be **very variable**
- Not much experience with biota monitoring in continental water:
 - Member States need detailed **guidance** for **harmonised procedures**
- Passive sampling :
 - easy to deploy, no maintenance required
 - can significantly reduce data variability (comparable worldwide)
 - a promising alternative (or complement) to biota monitoring for compliance checking and trend assessment
- However, **not used for compliance checking because no EQS**

Passive sampling for compliance checking: Questions to be discussed

- What **data format** is the most suitable for comparison of passive sampling results and EQS?
- How to **adapt** the **EQS derivation procedure** to allow comparison of passive sampling data with EQS?
- How can we deal with **uncertainty** of measurement by **passive sampling** AND uncertainty in derivation of **EQS** and still produce information that provides the required level of protection for the environment?

First expert group meeting in ecotoxicology and passive sampling

- Only invited experts
- This is not a workshop
- Outcomes of this meeting will need to be written in a report (Position paper) summarising the position of the experts on this high-priority topic (wide dissemination !)
- Objective of the discussion: agree on concrete guidance for WFD decision-makers for use of passive sampling for compliance checking and EQS derivation
- Definition of next steps, further meetings, organisation of further work, roadmap

Acknowledgment

- In kind contribution of RECETOX in the organisation of this Expert Group meeting



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YOUTH AND SPORTS



INVESTMENTS IN EDUCATION DEVELOPMENT

I wish you a fruitful meeting !



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NORMAN interest in passive sampling

- Non-mechanical devices (easy to deploy and require no maintenance)
- Measurement of a freely dissolved concentration of contaminants in water (=> relevant extracts for toxicity testing)
- Continuous sampling – measurement of TWA concentrations (=> monitoring of peak events)
- Extremely low limits of detection (low pg/L level)
- **Worldwide comparable**

