

Helmholtz Centre for Environmental Science – UFZ Leipzig Rolf Altenburger http://www.ufz.de/

1949

Academy of Sciences of the GDR, Location Leipzig

Reconstruction in the 1950s

"Die Wende" 1989 (the peaceful revolution leading to the German reunification)

1990

12.12.1991

Foundation of the UFZ

Mission:

Remediation concepts for industrial metropolitan areas in the region









UFZ Founding Mandate 1991-2003

"Ecological research to help solve the environmental problems in highly contaminated areas of the former GDR " (December 1991)

Industrial Megasites



Mining Landscapes





The UFZ – Strategy Determinants 1991-2004 (I)

framework, megatrends



acute environmental crisis East Germany

perspective



regional: Eastern Germany



Remediation, end-of-pipe

Water

Recultivation of mining lakes



Ecology

Ecological redesign/restoration



Chemicals

Remediation of contaminated megasites





The UFZ – Strategy Determinants 2004-2018 (II)

framework, megatrends



Climate Change, Energy Transition Sustainable Land Use

perspective



Europe + international



Systemic / technology and preventive measures

Water

EU Water Framework



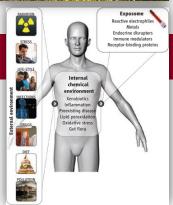
Ecology

Ecosystem services
Energy Land use



Chemicals

Effects on human and the environment









Resources

Personnel

- ~1.100 employees
- 88 % in the scientific-technical domain

Budget

- ~ 60 million EUR (core funding)
- ~ 30 million EUR (third party funding)

Core funding by



Bundesministerium für Bildung und Forschung



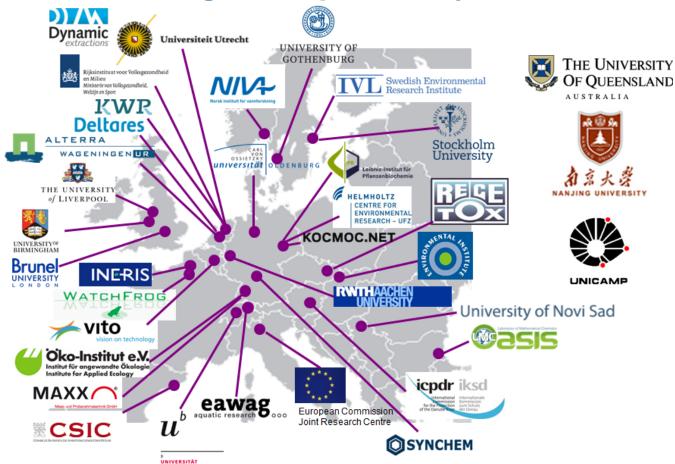
90 %





Large European Projects





Objective Improve Water
Monitoring
→ WFD

39 partners12 mio Euro

Start: 1.10.2013

Duration: 5 years



Science application in case studies





Product – e.g. Policy recommendations



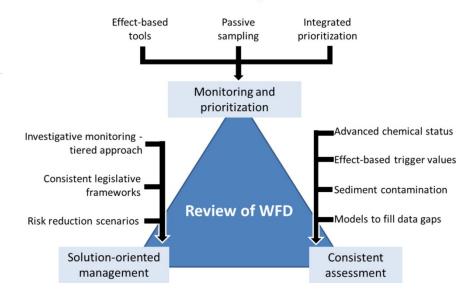


Science of The Total Environment

Volume 576, 15 January 2017, Pages 720-737



Towards the review of the European Union Water Framework Directive: Recommendations for more efficient assessment and management of chemical contamination in European surface water resources



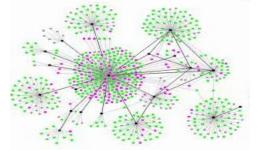


UFZ – Science hub

Resource monitoring & management









Technology implementation





EU training networks

RaiseBio
environment



Outreach

ChemProp

EDA EMERGE

EU scientific committees: EFSA, SCHER

Coordinated actions







Knowledge & Technology Transfer

- Continuous Stakeholder Dialogue





Safeguarding the Future. Research for the Environment.

Thank you for your attention!

