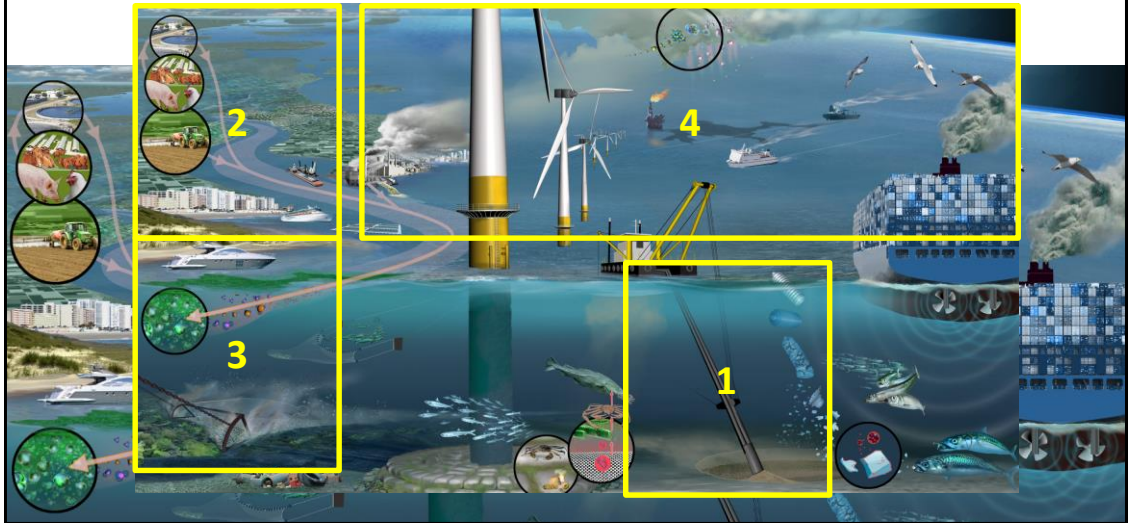


Summary and Outlook

Prof. Dr. Ralf Ebinghaus

RU 2



Summary

Our research data:

- are generated with comprehensive, state-of-the art analytical instrumentation
- are subject to strict QA/QC protocols
- are Open Access and publicly available through 
- bridge multiple Earth compartments (sediment, water, air)
- identify pollution sources by stable isotope signatures and chemical fingerprinting
- are significantly expanded by partners:  as trusted long-term repository
- are used by national authorities (BSH; NPA; Central Command for Maritime Emergencies)
- are used by international agencies (IMO; HELCOM; PoA)
- are used as scientific input for regulatory issues and public outreach (e.g. CoRAP; REACH; ETH Zürich; Greenpeace; NABU)

New lab facilities - almost ready...

Infrastructural and analytical portfolio for coastal research for the decade to come



Coastal Chemistry Platform

augmenting existing and integrating new analytical infrastructure

Outlook

- to focus on matter cycling, including pollution, in regional land-sea-atmosphere systems along gradients of human influence (Europe; China; Arctic)
- to quantify matter fluxes in the coastal transition zones from catchment to ocean
- to identify biogeochemical key processes with new non-traditional stable isotope techniques
- to provide science base for bridging the gap between current European environmental policies (e.g. WFD and MSFD) & provide evidence base for future environmental policy making
- to contribute to UN 2030 Agenda SDG's 6 & 14
- to integrate **DANUBIUS-RI**, MOSES, COSYNA and G-COAST





DANUBIUS-RI

European Strategy Forum
on Research Infrastructures

ESFRI Research Infrastructure „DANUBIUS-RI“

 **Helmholtz-Zentrum
Geesthacht**
Centre for Materials and Coastal Research

HZG

Supersite - Integrated observation, process understanding & modelling system for the Elbe-North Sea continuum

