VIII SedNet Conference

8 November 2013

Work group initiative

Sediments in a changing environment

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Participation and Interests

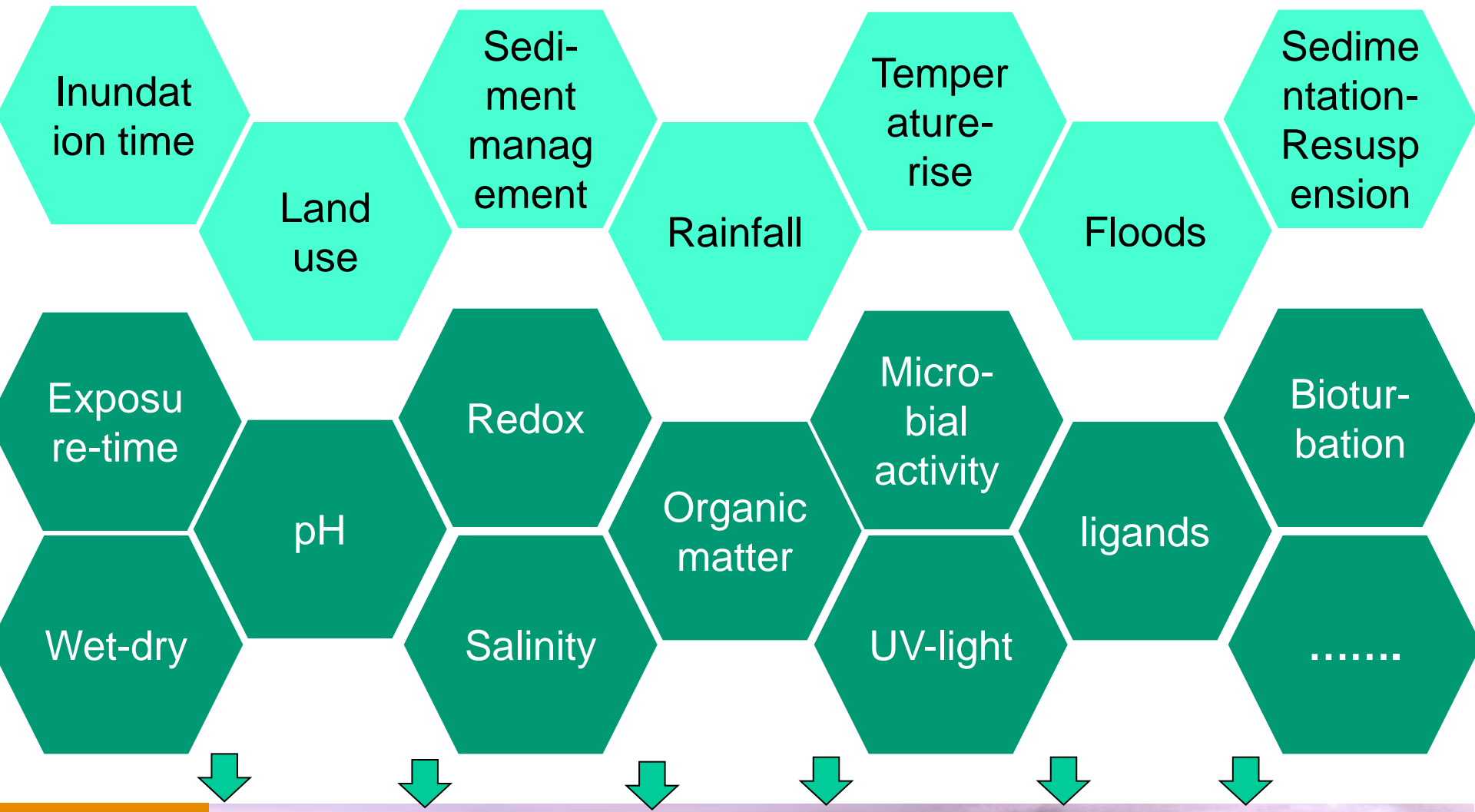10 people with interests in networking and exchange of knowledge on

- Impact of wet-dry cycles on bioavailabilty
- Fate of heavy metals transported in rivers
- Change of bioavailability of contaminants in DM when put on land (H15)
- Impact of changes oxic-anoxic-oxic
- What happens when soil becomes sediment becomes soil
- Impact of UV-radiation
- Processes impacting nutrient cycles in sediments
- Interaction of different environmental parameters with metal speciation

Drivers: Climate change, management measures, natural processes etc

Sediments in a changing environment

Inundation time

Land use

Sediment management

Rainfall

Temperature-rise

Floods

Sedimentation-Resuspension

Exposure-time

pH

Redox

Organic matter

Micro-bial activity

ligands

Biotur-bation

Wet-dry

Salinity

UV-light

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Contaminated Sediments – bioavailability of contaminants
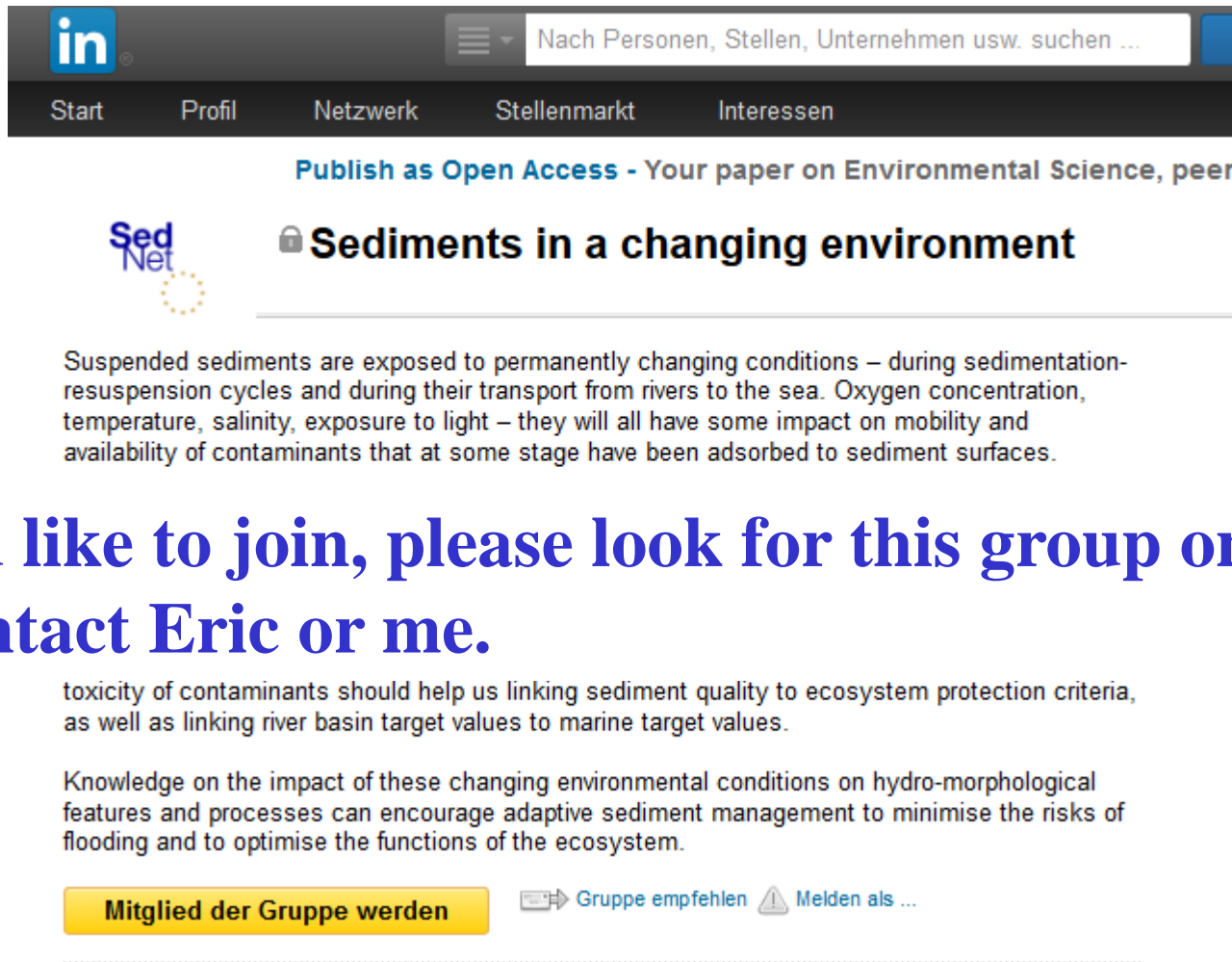**Ecosystem services**

How to continue:

- We are going to build up a network
  - to exchange ideas, knowledge, information
  - to tackle specific questions
  - to bring experts of different fields together

In the near future: doing a workshop, working on a review.

But for now….

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We have started a discussion group on linked-in
and invited all participants of the work group

in.   Nach Personen, Stellen, Unternehmen usw. suchen ...

Start   Profil   Netzwerk   Stellenmarkt   Interessen

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🔒 **Sediments in a changing environment**

Suspended sediments are exposed to permanently changing conditions – during sedimentation-resuspension cycles and during their transport from rivers to the sea. Oxygen concentration, temperature, salinity, exposure to light – they will all have some impact on mobility and availability of contaminants that at some stage have been adsorbed to sediment surfaces.

If you like to join, please look for this group on linkedin or contact Eric or me.

toxicity of contaminants should help us linking sediment quality to ecosystem protection criteria, as well as linking river basin target values to marine target values.

Knowledge on the impact of these changing environmental conditions on hydro-morphological features and processes can encourage adaptive sediment management to minimise the risks of flooding and to optimise the functions of the ecosystem.

Mitglied der Gruppe werden   📧➡ Gruppe empfehlen   ⚠ Melden als ...