



Sediments moving to land  
and soil moving to water

## Examples

### **Sediment becoming soil**

- Coastal wetland restoration (Kate)
- Sedimentation in flood plains after floodings (Luca)
- Deposition of DM on peatlands (Leon)

### **Soil moving to water**

- Erosion of material from flood plains or river banks (Patrick)

## Processes affected by transitions

- Fine structure of material (hydrological effectivity)
- Biological activity (nutrient cycling)
- Geochemical processes (e.g. gas production in the peatland)
- Bioavailability of contaminants

spatial scale?  
temporal scale?  
impact on ecosystem services?  
Communication of complex issues?

## Implications for sediment managers



- Over/underestimation of risks
- Taking time scales into account
- Ecological values? – Compensation measures?
- Communication?

## Examples

## Processes affected by transitions

## Implications for sediment managers

### Sed Soil ≠ sediment

- Necessary for sediment managers to address transitions
- (Karl) ➤ It can take decades before land reclaimed from the sea can fulfil the same ecosystem functions as “old” land
- We will have to look much more in detail into transition processes
- (Luc) ➤ We may have to develop new approaches to study this (time dependent!)

### Soil moving to water

- Erosion of material from flood plains or river banks (Patrick)

temporal scale?  
impact on ecosystem services?  
Communication of complex issues?

Communication of risks  
to be taken into account  
in decision making?