# Natural Water Retention in the Rhine basin; Research and stakeholder engagement

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Implementiation of Nature-Based Solutions to tackle climate change

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### Why wetlands matter

What Are Weblands > What Are Weblands? Weblands occur where weater meets land. They include mangrower, peatlands and marshes, rivers and lakes, deltas, floodplains and flooded forests, rice-fields, and even coral reefs. Weblands exist in every involution and in every climatic zone, from the polar regions to the tropics, and from high altitudes to dry regions.

Since 1900 more than 64% of wetlands have been lost through drainage and conversion, and much of the rest have been degraded.





## **Wetlands International**

**Our vision and mission** 

Our **vision** is that of a world where wetlands are treasured and nurtured for their beauty, the life they support and the resources they provide.

Our **mission** is to sustain and restore wetlands, their resources and biodiversity.



### **Wetlands International**







### Water management toolbox

A natural water system is a robust system

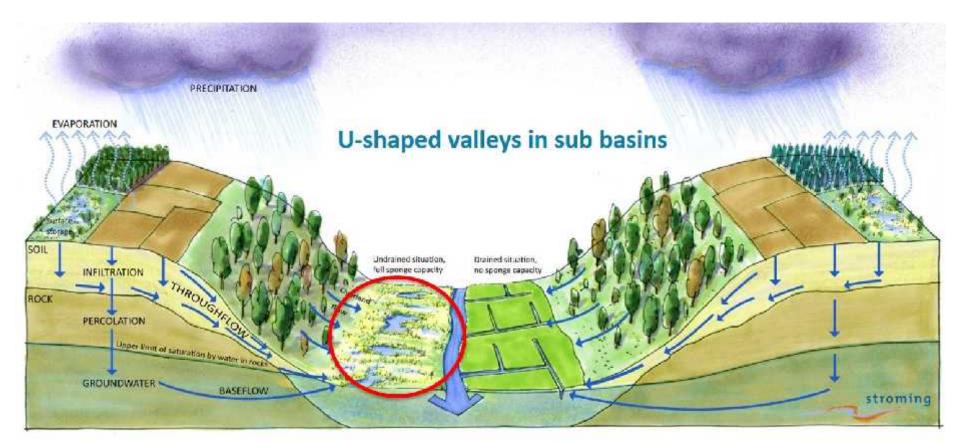


# **Basin approach**

- Dutch NGOs promoting climate adaptation measures upstream in Germany
- Why?
  - o Increase in climate risks
  - Strategic measure (high precipitation and extensive land use)
  - o Cost-effectiveness
  - Additional benefits for nature and people



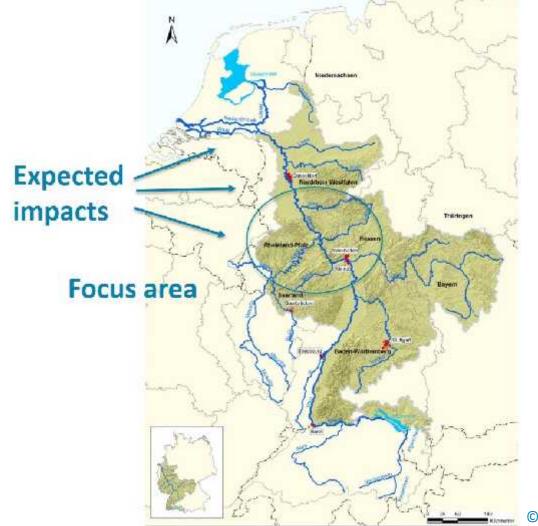
#### **Restoration of the sponge function of drained soils**



Restoring natural drainage conditions allows for peak flow reduction



#### **Restoration of the sponge function of drained soils**



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### Stakeholder engagement

- 1. How to communicate benefits to upsteam and down stream communities cross border and rural to urban centres
- 2. What information is need and what approach?
- 3. How to get support for Natural Water Retention Measures...



# **Challenges – is there support for NWRM?**

- Extensive agriculture
- No large connected area needed: flexibility
- Spatial measures cheaper in Germany
- Positive local and downstream benefits
- National and European Legislation
- Challenge to convince technically-oriented water managers
- Change of land use and drainage conditions needed

   Understanding culture and traditions related to land
   use
- Better data needed:

Area, size, costs, benefits



But:

3.

1. Does it work?

space?

2. Is there enough

Is it affordable?

### Conclusions

- Nature-based solutions: still islands in wider ocean of business as usual
- Transboundary cooperation
- Need to close the evidence gap
- Stakeholder engagement is key





### **Questions?**

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