# Wetlands & climate adaptation an EU perspective

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Wetland solutions to protect against droughts and floods

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#### River flooding and adaptation





#### Coastal flooding and adaptation

Today High emissions
No adapt Adapt

Damage (€ billion/year)

1.4

239
23

People exposed (million/year)

0.1

2.2

0.8

Adaptation leads to

90% reduction in damage

63% reduction in people exposed



#### **Drought & water scarcity**

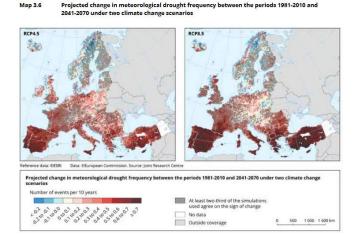
#### **Current:**

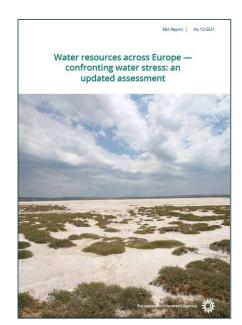
 economic damage: EUR 9 billion/yr & unquantified damage to ecosystems and their services

#### Future:

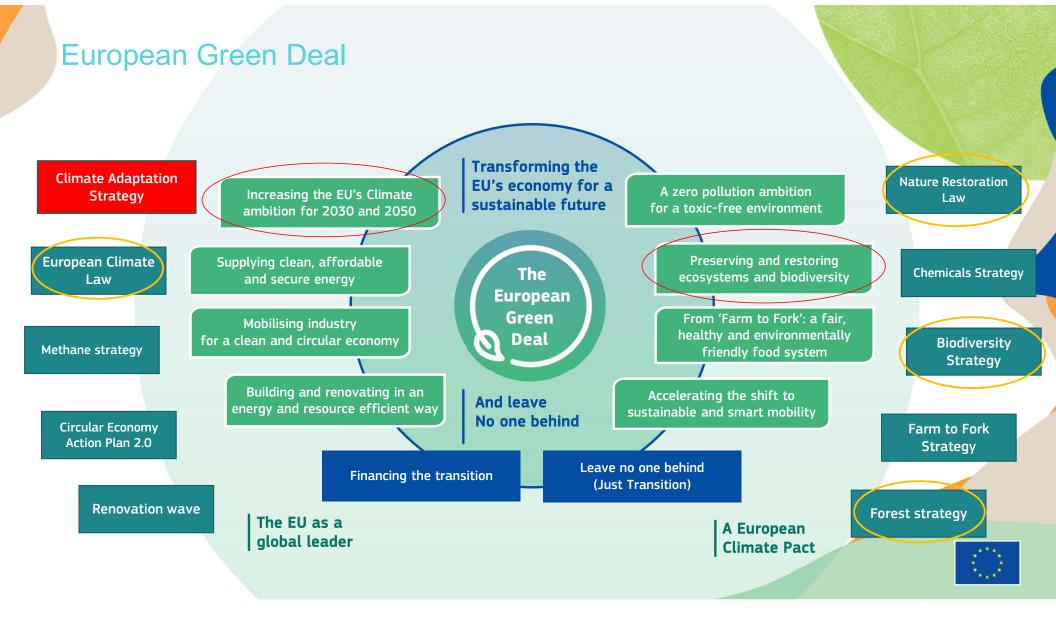
 Up to 40% less aquifer recharge and river discharges (+3°C)

• Up to 45 billion €/yr









#### A new EU strategy on climate adaptation

- February 2021, a European Commission strategy
- Vision: by 2050 the EU will be a climate-resilient society, fully adapted to the unavoidable impacts of climate change
- Objectives:
  - Smarter adaptation
  - More systemic adaptation
  - Faster adaptation
  - Stepping up international action for climate resilience



© picture: Peter Lőffler



### Water (related) actions in the EU Adaptation Strategy

- Close knowledge gaps on climate impacts and resilience
- Help data collection
- Stimulate cooperation on adaptation regionally and across borders
- Missions Adaptation & Water
- Climate proofing infrastructure
- EU disaster risk prevention and management

## Ensuring the availability and sustainability of freshwater

- Climate-resilient management of water across sectors and borders
- Help MS with drought management plans & land-use.

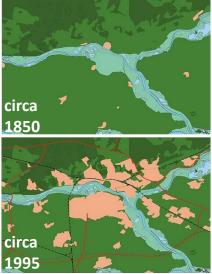
#### Nature-based solutions

- Assist Member States in rollout of NBS
- Develop the financial aspects of naturebased solutions

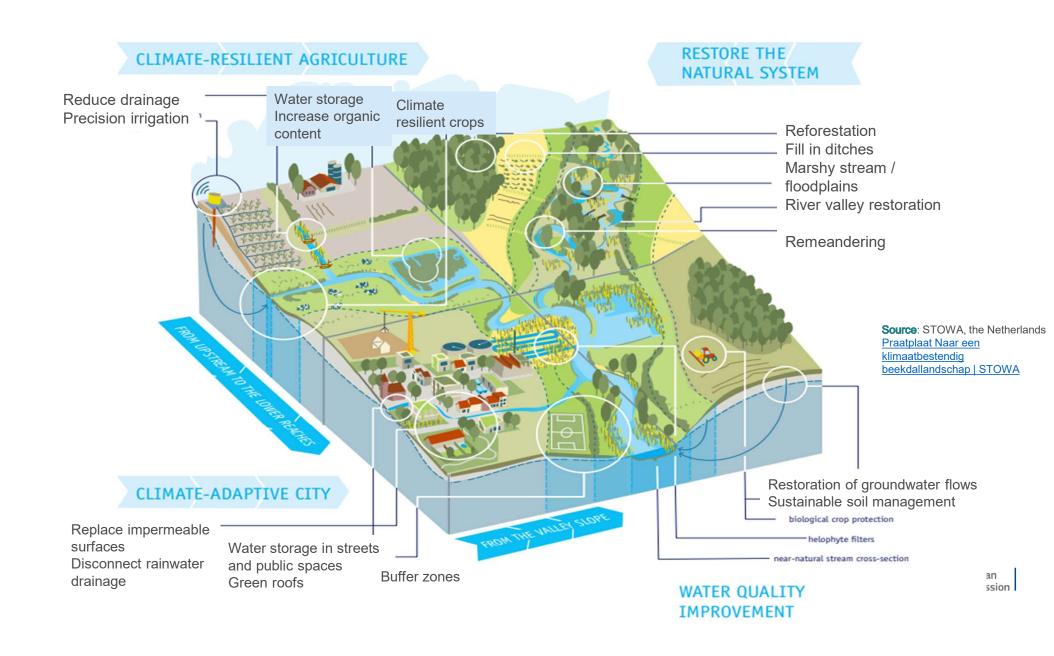


Loss of floodplains along Rhine tributaries (NL)







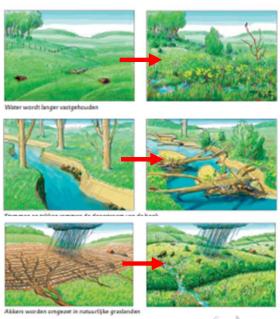


## Restoration of the sponge function of the landscape



- Climate adaptation: restoration of the resilience of a large area to deal with the increasing risks of extreme droughts, flooding, and heat waves.
- Climate mitigation: enhancing carbon sequestration







### Projects & reports



#### **REST-COAST**

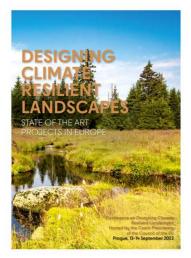
Large scale RESToration of COASTal ecosystems through rivers to sea connectivity

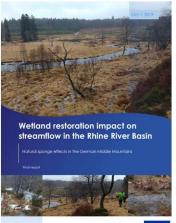


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WaterLANDS: Waterbased solutions for carbon storage, people and wilderness







European Commission

## Thank you



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