# Wetlands

- Why and how restore

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## 1. Biodiversity

**Why:** Wetlands are rich in biodiversity - Up to 40% of the world's species live and breed in wetlands

How: Mapping of species and spreading knowledge about nature to everyone





#### 2. Water Quality Improvement

Why: Wetlands act like natural filters, trapping pollutants, excess nutrients (like nitrogen and phosphorus), and sediments.

Wetlands in Norway purify water equivalent to 4.000 NOK per hectare per year

**How:** Preserve key species such as river mussels, restore and expand riparian zones



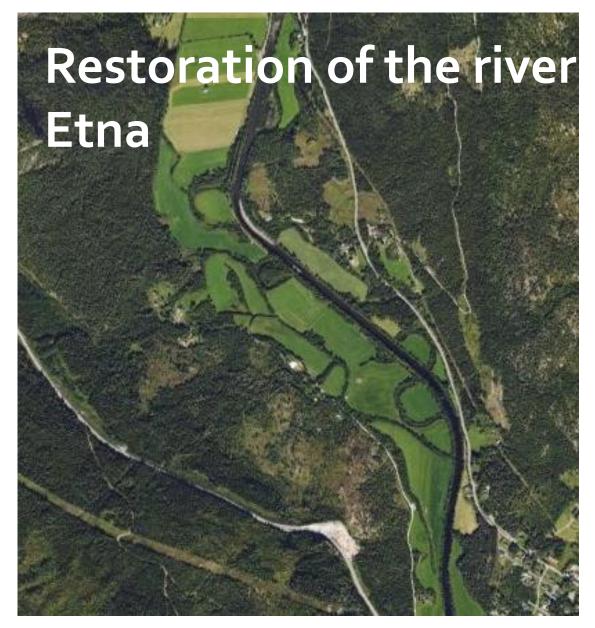
#### 3. Flood Control

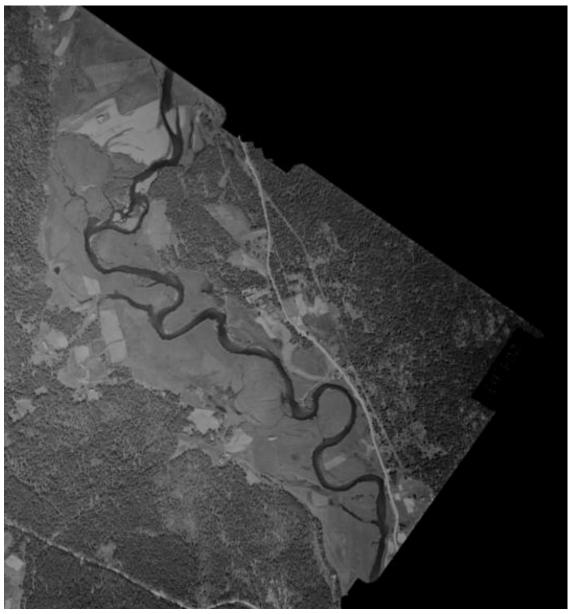
Why: Wetlands absorb and store excess rainwater, reducing the risk of flooding downstream. They slow down water flow and reduce peak flood levels during heavy rains.

**How:** Restore channelized rivers









## 4. Climate Change Mitigation



**Why:** Wetlands are **carbon sinks**, meaning they store large amounts of carbon in plants and soil.

**How:** Restoring wetlands to **reduce greenhouse gases** in the atmosphere.





#### **5. Economic Benefits**

Why: Healthy wetlands support fisheries, tourism, and agriculture. They can reduce infrastructure damage costs by providing natural flood protection.

**How:** Restore agricultural ponds





#### 6. Recreation and Culture

Why: Wetlands offer recreational activities and many wetlands have cultural and spiritual significance for Indigenous and local communities.

**How:** Conservation of wetlands – RAMSAR





Restoring wetlands is not just about protecting nature—it's also about **protecting people**, **preserving resources**, and ensuring a more **resilient future**.



# Removal and demolition of the old mill dam in the river Vangselva, Jevnaker

- Reopened for fish migration upstream from the barrier, like Lake trout (Salmo trutta lacustris). Now 25 km of river course and side streams with good spawning opportunities!
- Important outcome:
  - reopening of natural sediment transport and supply of spawning gravel to lower parts of the river. The dam has accumulated waste, sediment and unnatural materials for the last 100 years.
  - The removal will contribute to improvement of habitat quality for other organisms connected to the river (amphibians, reptiles, birds and mammals)



# Restoration of Vangselva - 2025

### Demolition of Vang mill dam, Jevnaker municipality, Norway

#### Grant from:

European Open Rivers Programme

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