NATURE-BASED SOLUTIONS FOR RESILIENCE
The experience of the French Biodiversity Agency
Climate change and biodiversity erosion: the consequences of inaction

- Heatwaves
- Pollution and loss of natural water treatment capacities
- Soil erosion
- Increased droughts and flooding
- Coastal erosion, loss of agricultural land
- Typhoons, marine submersion
Ecosystems as natural resilience factors

Planting « rain trees » in the city of Lyon (November 2021)
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Wetland restoration to prevent flooding and improve natural epuration in the Brie valley
© Aquibrie

Mangroves protecting the Z’Abricots port from typhoons (Martinique)
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Win-win policies targeting both climate and biodiversity

- Sustainable management of mountains forests to prevent avalanches
- Greening cities and encouraging water infiltration to prevent flooding and protect from heatwaves
- Planting river banks and restoring wetlands to face flooding
- Planting hedges to fight soil erosion
- Using dunes, mangroves and corals to protect from extreme weather events and marine submersion

Réalisation Patrick MATIN © Agence Blue LIFE, 2022
The French Biodiversity Agency, a historical expertise on nature-based solutions for water

Guide on river restoration published by the OFB

Plant-based water treatment system in Martinique (excerpt from technical guide)

Restoring ecological continuity on the Tarn
The ARTISAN project:

**National action**
- Stakeholder support
- Ressource centre

**Regional Action**
- Regional adaptation strategies
- Stakeholders network

10 pilot sites

5 sites on water related issues (flooding, droughts, quantitative and qualitative management)

River banks, wetland, mangroves, hedges restoration, rainwater infiltration
Thank you! Merci!