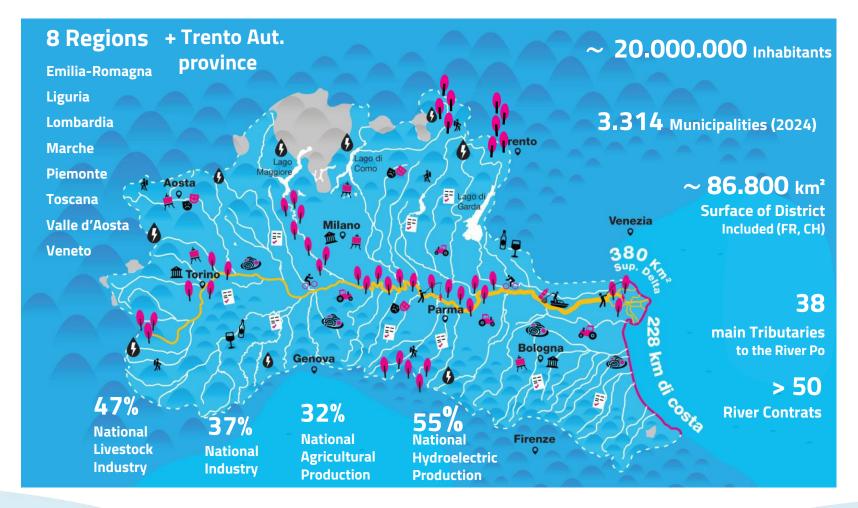


Policies that work:italian and dutch Institutions to protect the blue gold (The case of Po basin)

Alessandro Bratti General Secretary (Rimini, 6 November, 2024)

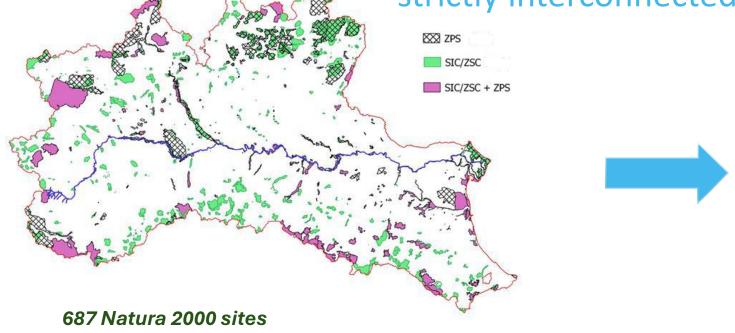
Po River Hydrographic District

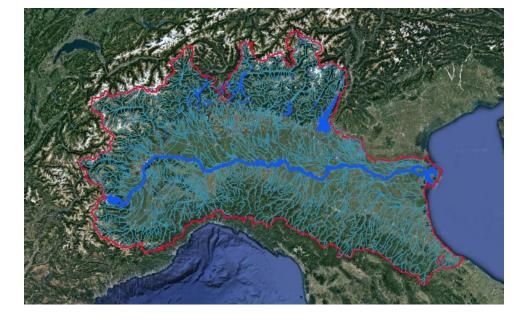






River Po basin ecological corridors and biodiversity: our natural capital strictly interconnected with water





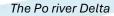
cover 20% of the entire river district

52 Natura2000 sites along the River Po











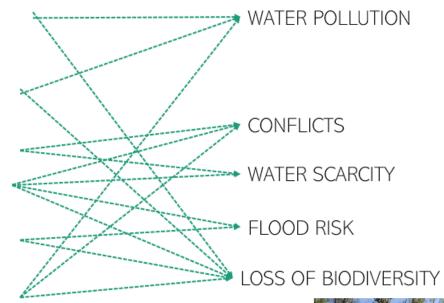
Egretta garzetta and Sterna hirundo

Main criticalities



Land use

- 1. POINT DISCHARGES FROM URBAN SETTLEMENTS AND INDUSTRIES
- 2. DIFFUSED POLLUTION FROM AGRICULTURAL RUN OFF
- 3. WATER ABSTRACTION
- 4. CLIMATE CHANGE
- 5. HYDROMORPHOLOGICAL ALTERATIONS
- 6. PRESENCE OF INVASIVE SPECIES









....in a climate changing context



The Po River Basin District is located in the climatic transition zone between the Mediterranean and Northern Europe, in which *uncertainty* about the *future climate* is *higher* than in other European areas

BIODIVERSITY AND CLIMATE CHANGE



climate change and biodiversity are interconnected.

Innovative and multi-sectoral actions are needed to prevent and mitigate the complex threats to human health from the ongoing and interconnected crises of climate change, biodiversity loss and pollution.



Flooding in South East Po Basin in 2023/2024



The rainfall events of 1-3 May and 16-17 May together accounted for 50% of the average annual rainfall in the Emilia-Romagna region.

The rainfall event affected the entire river network, both natural and artificial, causing the **flooding of 23 rivers**.

Widespread flooding has occurred in the area between Bologna and Rimini, with levee breaches and widespread slope instability throughout the hilly and mountainous area (>80,000 landslides).

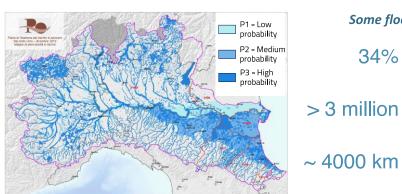






The main river network consists of the Po river and its main tributaries that flow in the plains and the main mountain valleys. The main river network has a length of about 6000 km.

FLOOD RISK MANAGEMENT PLAN - FRMP



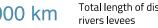
Flood hazard map

Some flood risk numbers

District area potentially subject to flooding

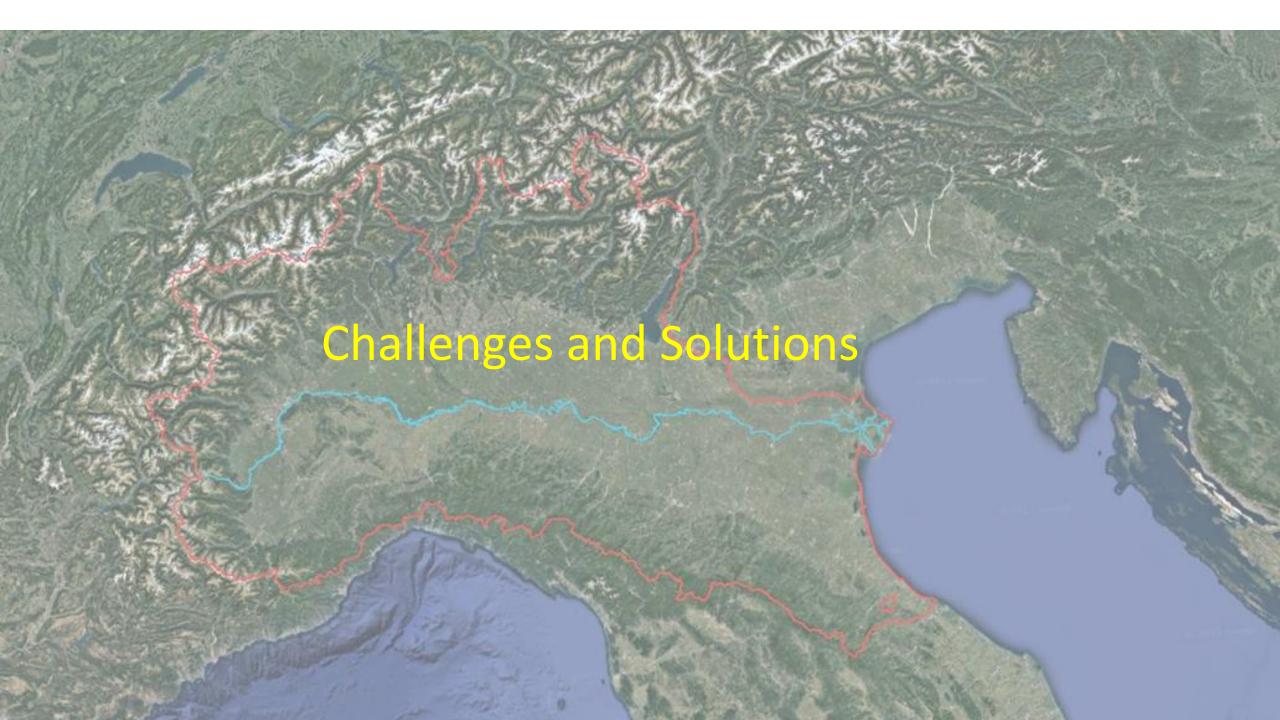
> District inhabitants living in areas with medium flood hazard level (P2)

Total length of district









The integrated planning: an opportunity for NbS



EU Floods Directive 2007/60/EC

win-win Measures Water
Framework
Directive
2000/60/EC



improvement of the ecological status of watercourses and the protection of ecosystems and biodiversity

reduction of hydraulic risk and identify the morphological and ecological recovery measures of river beds

> EU Nature Directive 2009/147/EC 92/43/EEC







The Biodiversity Strategy calls for greater efforts to restore freshwater ecosystem and the natural functions of rivers, to achieve not only the WFD objective of achieving good ecological status, but also the objective of habitat and species restoration

FRMP – Plan measures typologies

Measures to adapt to climate change and win-win



Sediments management (General Sediment Management Programme)



Vegetation management in the riverbed and floodplain areas



Return of naturalness to watercourses to improve the natural lamination of floods



Relocations
Adjustment of bridges

Grey measures



Adjustment and completion of levee systems and expansion tanks



Monitoring and control of levee vulnerability



Assessment of residual risk in fascia C, flood forecasting, warning and emergency management



Levee relocation



Improvement of the outflow capacity and flood plains by lowering the flood plains



Controlled flooding

Our commitment to the protection and restoration of biodiversity in the Po area



WATER QUALITY

Improve knowledge of nutrient transport to the sea

Links between Water Framework
Directive and Nature Directives
(Birds and Habitat)



ECOSYSTEMRESTORATION







Natural connections for Natura2000 in Northern Italy to 2030

ecological restoration of habitats and species and reducing the impact of invasive alien species

strengthen the governance of the Natura 2000 network and connection areas



THE VALUE OF NATURE

Enhancement of wetlands and their role in mitigating climate change

knowledge of the ecological values and ecosystem services provided by the river system



EDUCATION AND AWARENESS RAISING

The "Divento un Po Grande"
Project supports the new
generations of the UNESCO Po
Grande MAB Reserve

Pilot awareness-raising action "Adopt the Sturgeon"

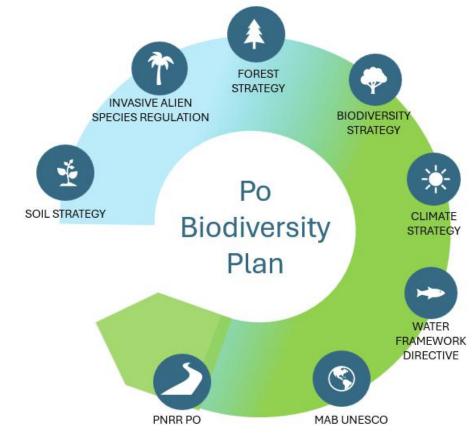


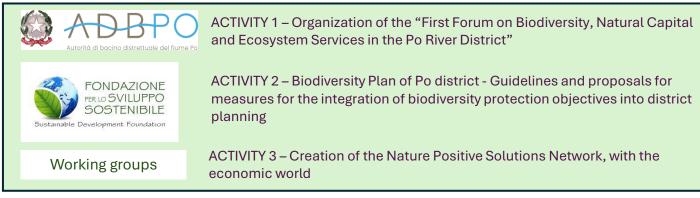
Research and development for the biodiversity of the Po River District

Concrete actions for WORKING WITH NATURE to increase natural capital through the protection, management and restoration of the functions of complex aquatic ecosystems



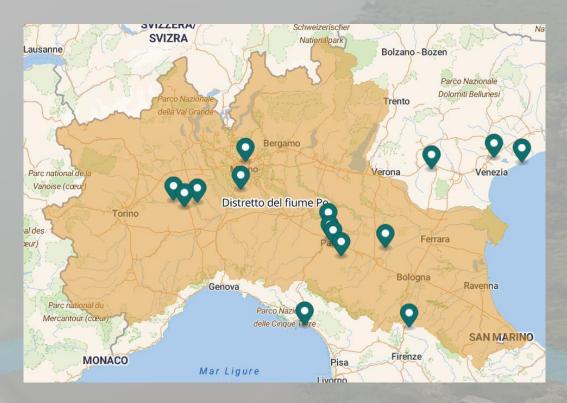








GOOD PRACTICES FOR THE VALORIZATION OF NATURE



The Nature Positive network is a dynamic network of companies that wish to make a difference in Italy by concretely committing themselves to the transition of the production system towards a nature-positive economy.

How? Through the implementation of effective actions in favor of the protection and enhancement of nature

Around 30 companies have already signed up their commitment towards a nature-positive economy in the Po River District

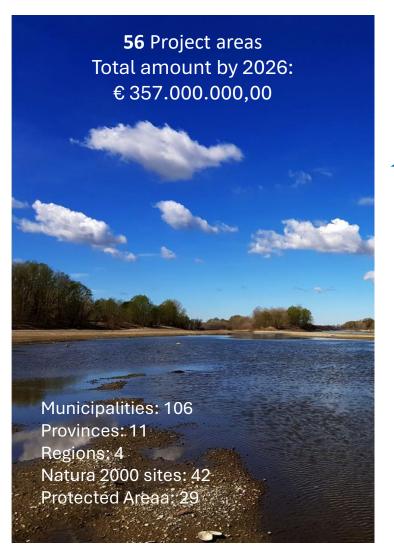
https://naturepositivenetwork.net/



The restoration of river ecosystems to improve the ecological status and reduce hydraulic risk







ENVIRONMENTAL-NATURAL INTERVENTIONS



Reforestation



Requalification of oxbow lakes and of abandoned branches



Control of invasive alien species

HYDRAULIC-MORPHOLOGICAL INTERVENTIONS



Reduction of the artificial riverbed, alongside the adjustment of navigation groynes and the decommissioning/ modification of defense works



Restoration and re-opening of oxbow lakes, abandoned branches and opening new fluvial branches

Culture-based Solutions: MAB UNESCO Biosphere Reserve



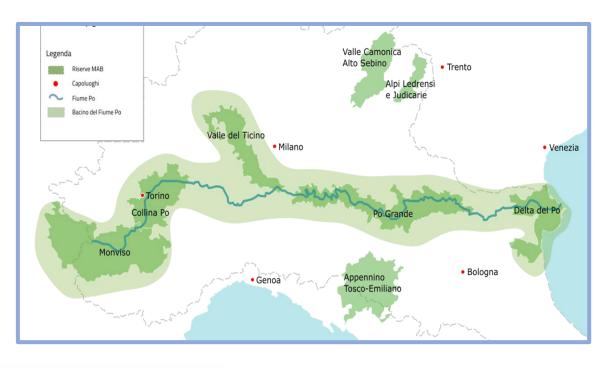
CONSERVATION: contribute to the conservation of landascapes, ecosystems, and species



DEVELOPMENT: foster economic and human development that is socio-culturally and ecologically sustainable

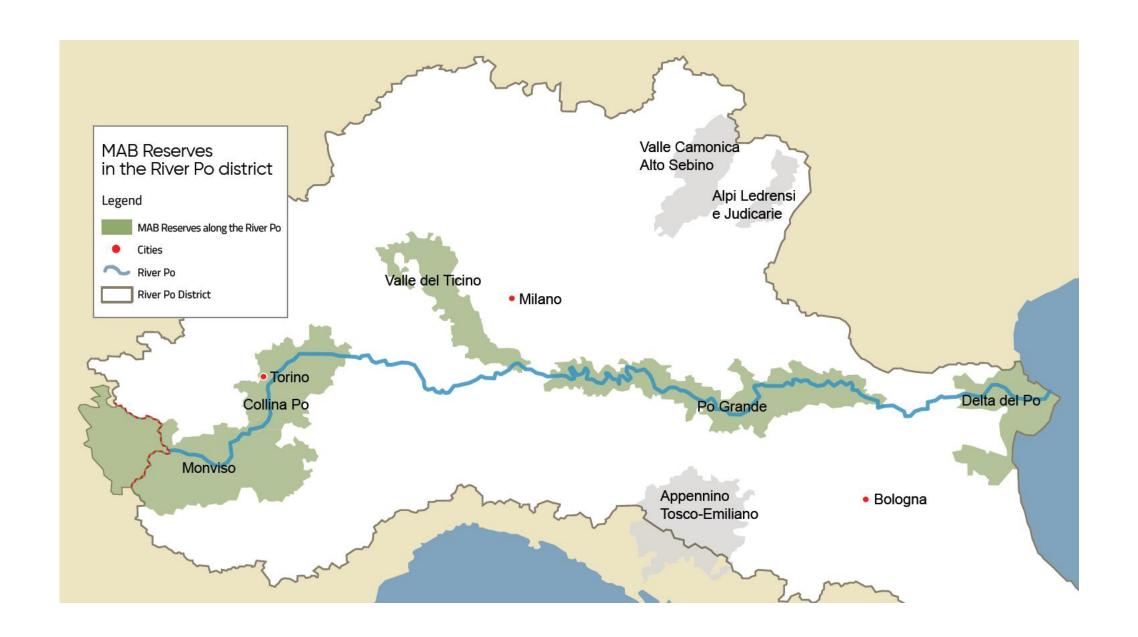


LOGISTIC SUPPORT: support in the demonstration of projects, environmental education and training, research and monitoring related to local, regional and global issues of conservation and sustainable development











https://www.adbpo.it/