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Bulgarian Biodiversity Foundation

The active salinas Atanasovsko lake and coastal habitats management

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Avec le soutien financier de



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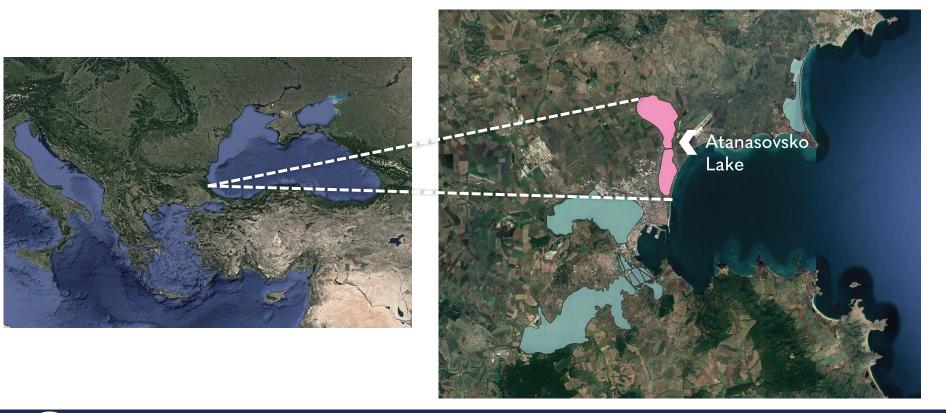








Where is Atanasovsko Lake?





The richest in birds place in Bulgaria





Coastal habitats in Atanasovsko Lake

Bulgarian Biodiversity Foundation



 1150* Coastal lagoons (20%)
 Unfavorable bad status

 1410 Mediterranean salt meadows (0.2%)
 Unfavorable bad status 1310 Salicornia and other annuals colonizing mud and sand (1.5%)
 Favorable status

Atanasovsko Lake salinas

- Traditional salt extraction since 1906.
- 170 basins separated by 151 km earthen dykes, wooden barriers and 50 km internal salt channels.
- Salt layer 3-5 cm.
 Harvesting is once per year still by hand.



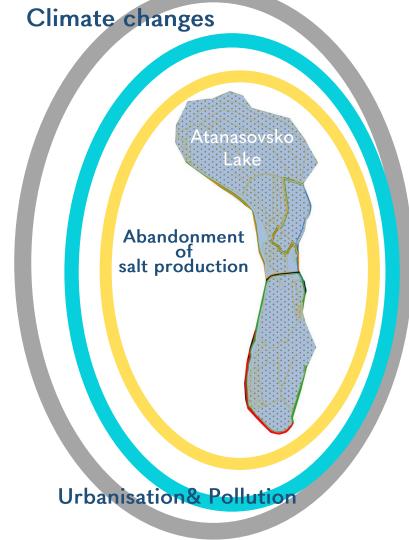


Water conditions in the salinas / coastal lagoon/

- The Bypass channel collects all the surface water flow from the catchment area ~ 250km² - two parts drainage (18 km) and sea channel (5 km).
- Water levels and salinity are controlled in each basin -high in summer and low in winter.
- Controlled supply of sea water in spring and summer.
- No connection between the northern and southern part.







Threats and impacts

- Effects of climate change and Abandonment of traditional salt production -> disturbance of the water regime and destruction of the traditional salt production infrastructure
- Urbanization of the adjacent territory -> habitat loss, water and noise pollution and increased human pressure.
- **Pollution** from the agricultural land -> negative influences in trophic chains.





Restoration actions for coastal habitats for limiting the threats

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Improve protection against floods and decrease pollution from surface water inflow





First ever complete cleaning of the bypass channel (23 km).

Repairing the protective dyke and forming a road for quick access in a case of emergency situations.

Restoring the sluice gate to control seawater supply, water levels and salinity and to protect the coastal lagoons from floods.











restoration of small dykes (19km)



clearing the silt from the bottom of internal salt channels (14 km)



repairing three completely damaged earthen dykes (6 km) to prevent formed "dead water volumes" and to ensure favorable conditions for nesting birds

Increase the breeding and roosting sites









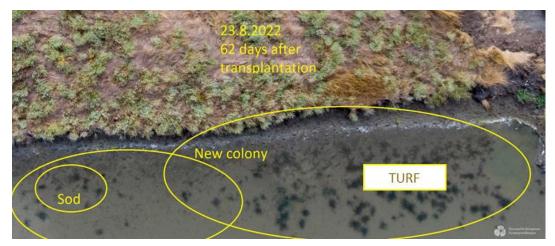
restore the water regime over 16 ha freshwater habitat for bird species of conservation concern

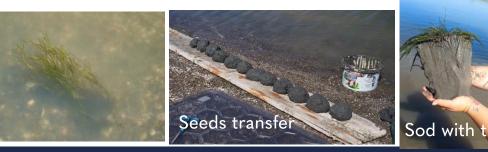
Transplantation the seagrass Ruppia maritima

Three methods are applied -> restore the typicality and representativeness of the Coastal lagoons habitat

TURF transfer with plants on wooden frame











Creation of products from coastal habitats and salinas and increase the added value

Pelican soap





Assessment of the success

Greater Flamingo has increased its presence in Atanasovsko lake from 5 individuals in 2014 to 3000 in 2022







Thank you

www.facebook.com/saltoflife.biodiversity.bg www.lagoon.biodiversity.bg/en





