



Ecosystem services - lakes Vaya (Burgas, Bulgaria) and Gala (Enez, Turkey)

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Ecosystem services

The benefits that people receive from nature

- 4 categories ESC:
- **Support services** - the services that create the conditions necessary to provide all other ecosystem services such as photosynthesis or soil formation.
 - * **Material services** - all products originating from ecosystems, such as foods, fibers, fuels, herbs and medicinal plants, genetic material, drinking water.





Ecosystem services

The benefits that people receive from nature

- 4 categories ESC:
- **Regulating services** - the ability of ecosystems to regulate important natural processes such as climate regulation, water quality and quantity, etc.
 - * **Cultural services** - intangible benefits of ecosystems such as the aesthetic and recreational value of the landscape.





ECOSYSTEM SERVICES OF THE LAKE VAYA, BURGAS



Measures for conservation and restoration of natural heritage in Bourgas and Enez (MoreCare), CB005.12.1.115



LAKE VAYA, BURGAS

- The largest natural lake in Bulgaria;
- Located near of Burgas;
- Length 9.6 km, width reaches 4.5 km;
- Fed by waters of Aytoska, Chukarska and Sandardere rivers and rains;
- The salinity of water is about 10.58 promiles and has a significant seasonal and annual variations.





LAKE VAYA, BURGAS

- The largest natural lake in Bulgaria;
- Located west of Burgas;
- 0 m above the sea level;
- 1.3 m depth;
- Area of 3092,02 ha





LAKE VAYA, BURGAS

- Connected with the sea through a narrow channel, with a length of 800 m





LAKE VAYA, BURGAS

- The channel provides water from the sea, and through it nutrients and many marine inhabitants goes into the freshwater lake;





LAKE VAYA, BURGAS

- Until 1990, an industrial fishery was held in the lake and more than 800 tons of fish are caught.





LAKE VAYA, BURGAS

- In 1997 is declared Vaya protected area (379.4 ha - 12% of the lake);
- In 1998 the lake was designated as CORINE Site;
- In 2003, the Burgas Lake was declared as a Wetland of International Importance according to the Ramsar Convention with an area of 2899.9 ha;
- In 2005 the area was designated by BirdLife International as an Important Bird Area

- In 2007 it was included in the Natura 2000 Network



Vaya protected area - biodiversity

- 326 species of plants;
- 57 species of medicinal plants;
- 20 fish species till 1970,
*today 7 species from the Red Book
have disappeared;*
- 8 species of amphibians;
- 14 species of reptiles;
- 245 bird species (67 are
*included in the Red Book of Bulgaria);
With the highest concentration in
Bulgaria for the pink pelican
(Pelecanus onocrotalus)*

- 36 species of mammals



Interreg - IPA CBC Bulgaria - Turkey



PARTNERSHIP

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Thank you for attention

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