

Measures for conservation and restoration of natural heritage in

Bourgas and Enez (MoreCare), CB005.12.1.115





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



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PARTN RSHIP

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.





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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





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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.



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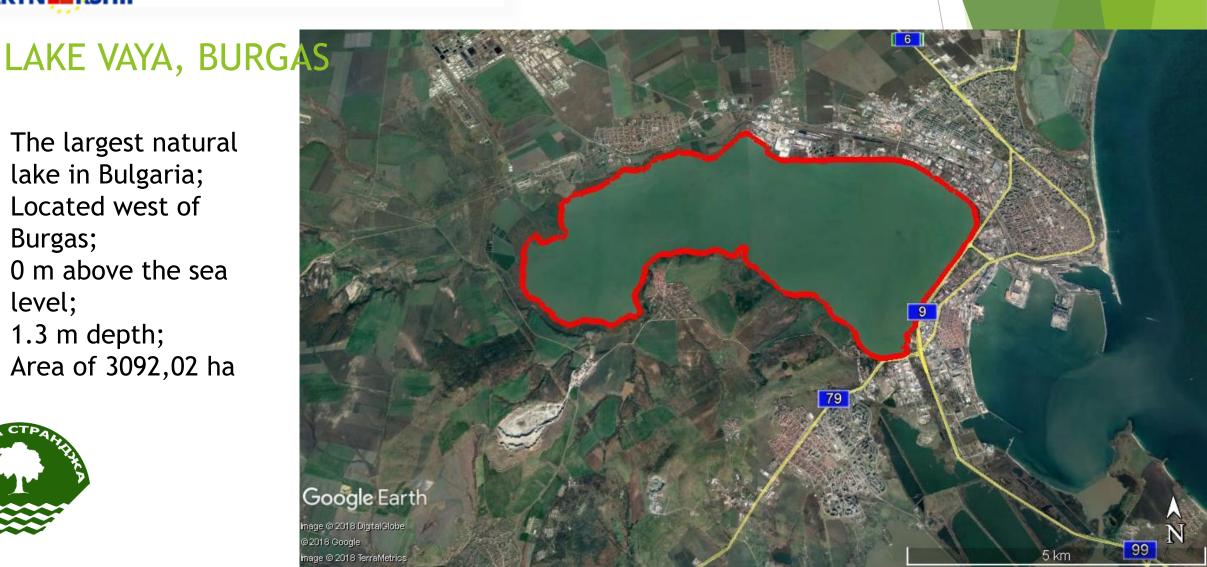


The largest natural

lake in Bulgaria;

- Located west of Burgas;
- 0 m above the sea level;
- 1.3 m depth;
- Area of 3092,02 ha





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LAKE VAYA, BURGAS

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





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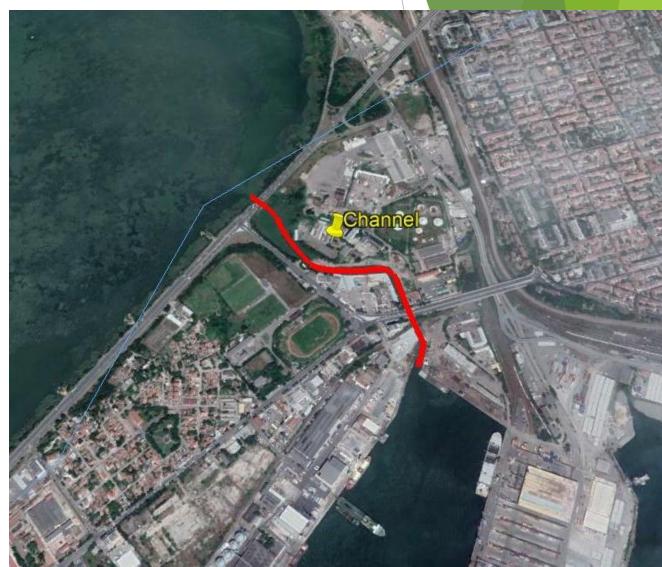




LAKE VAYA, BURGAS

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





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LAKE VAYA, BURGAS

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





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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



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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



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