

Cyanobacterial scums



Cyanobacterial and algal blooms

<https://bit.ly/34rZ2Tb>



Macroalgal mats



## ALGAE – ECONOMY BASED ECOLOGICAL SERVICE OF AQUATIC ECOSYSTEMS

LIFE17 ENV/LT/000407

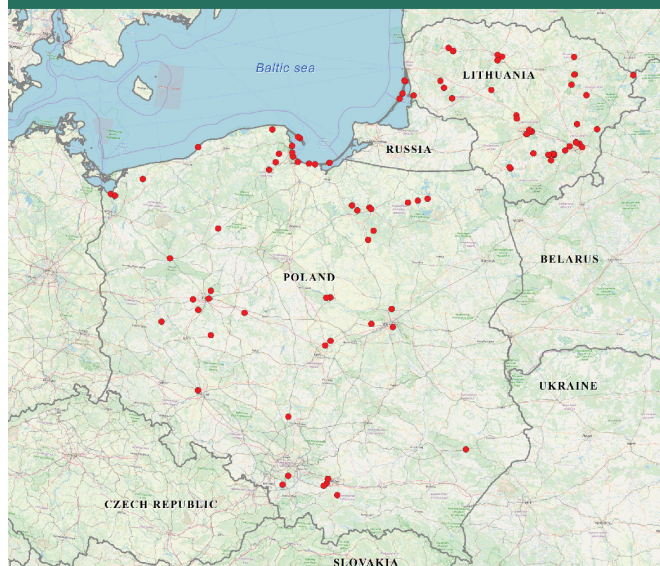
### MARK CYANOBACTERIA & ALGAL BLOOMS

ArcGIS registration system for blooms in water bodies:

<https://arcg.is/0jqvCn>



Application is designed to mark blooms in water bodies and to create database.



Interactive map: <https://arcg.is/1v5faT>

### COORDINATING BENEFICIARY



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Baltic Environment



EU contribution to the project **AlgaeService for LIFE**

2 193 710 EUR (59.7%)

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PROJECT IS  
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## PROJECT DURATION

2018 08 01  
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2023 07 31



## PROJECT AIM

The project AlgaeService for LIFE seeks to promote best practices in ecological service and the circular economic approach by implementing an innovative complex system which has both demonstration and innovation character.



## PROJECT OBJECTIVES

- To demonstrate integrated efficient management of nutrients and nuisance blooms at the catchment scale by harvesting of cyanobacterial scums and macroalgal mats in various types of water bodies (rivers, lakes, the Curonian Lagoon).
- To test and demonstrate the redesigning of waste biomass of cyanobacteria and macroalgae into potential valuable products for sustainable management and recycling of environmental resources.
- To raise awareness to environmental, water quality and health hazard issues among the national governments, local authorities, the business community and society for the continuation and transfer of proposed measures application on a broader scale after the end of the Life project.



Eutrophication of water bodies and global climate change favour intensive growth and recurrent blooms of algae and cyanobacteria, accumulation of excess biomass.

Cyanobacterial and algal blooms diminish the recreational value of water bodies, endanger human health and biota, and cause economic losses.

## PROJECT ACTIONS



Construction of two technologically different prototypes for harvesting excess biomass of cyanobacteria and macroalgae; testing and demonstration of their efficiency in aquatic ecosystems of various type and size in Lithuania and Poland.



Creation and testing of methodology for evaluation of cyanobacterial and algal agglomerations *in situ* using traditional phycological and remote sensing (satellite and unmanned aerial vehicle images) methods.



Evaluation of ecological and economic benefits of harvested biomass and potential of developed technologies application for human needs.



Testing of harvested biomass from water ecosystems for redesigning into a low value (biogas, fertilisers) or high value (phycocyanin, other commodities) bioproducts.



Raising awareness and dissemination of the project results on national and international levels.

