



# ALGAE SERVICE FOR LIFE PROJECT: CREATION OF ECOLOGICAL SERVICE TOOLS TO MITIGATE CYANOBACTERIA AND ALGAL BLOOMS IN FRESHWATERS

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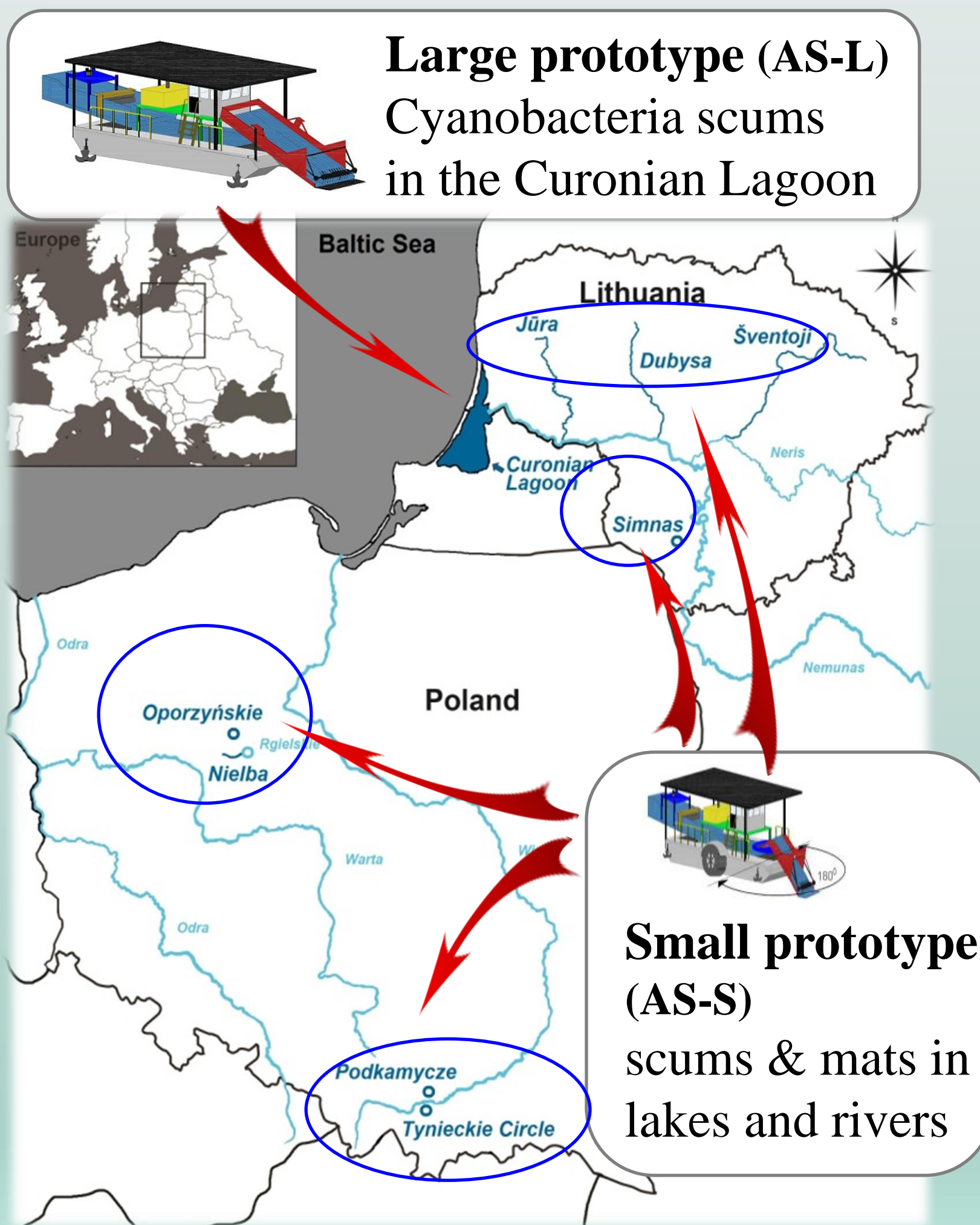


## INTRODUCTION

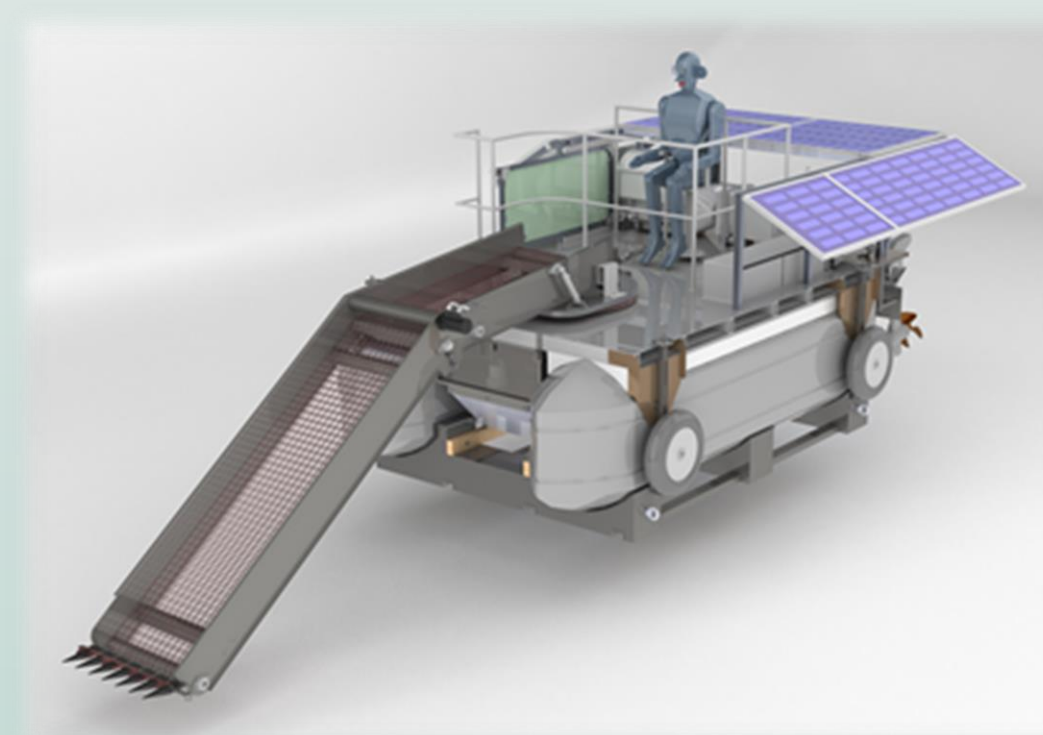
Reduced nutrient loading is essential for the mitigation of harmful cyanobacteria blooms, still the most of proposed measures require long time to get positive results. However, in many cases there is an urgent need to control cyanobacteria during their massive development in a particular ecosystem in order to reduce contamination of aquatic ecosystems with cyanotoxins and to diminish negative effect for the recreation.

The ES LIFE programme project ALGAESERVICE for LIFE that implement innovative complex system into aquatic ecosystems seeks to promote best practices in ecological service and the circular economy approach. **The goal of the project** from ecological service point is to demonstrate integrated efficient management of nutrients load from the watershed and nuisance blooms by harvesting of cyanobacteria scums and macroalgal mats in water bodies of various types (rivers, lakes and large lagoon).

## PROTOTYPES - HARVESTERS



### Testing & Demonstration of harvesters



AS-S harvester, partners from  
SMSE Baltic Environment



Harvested macroalgae biomass

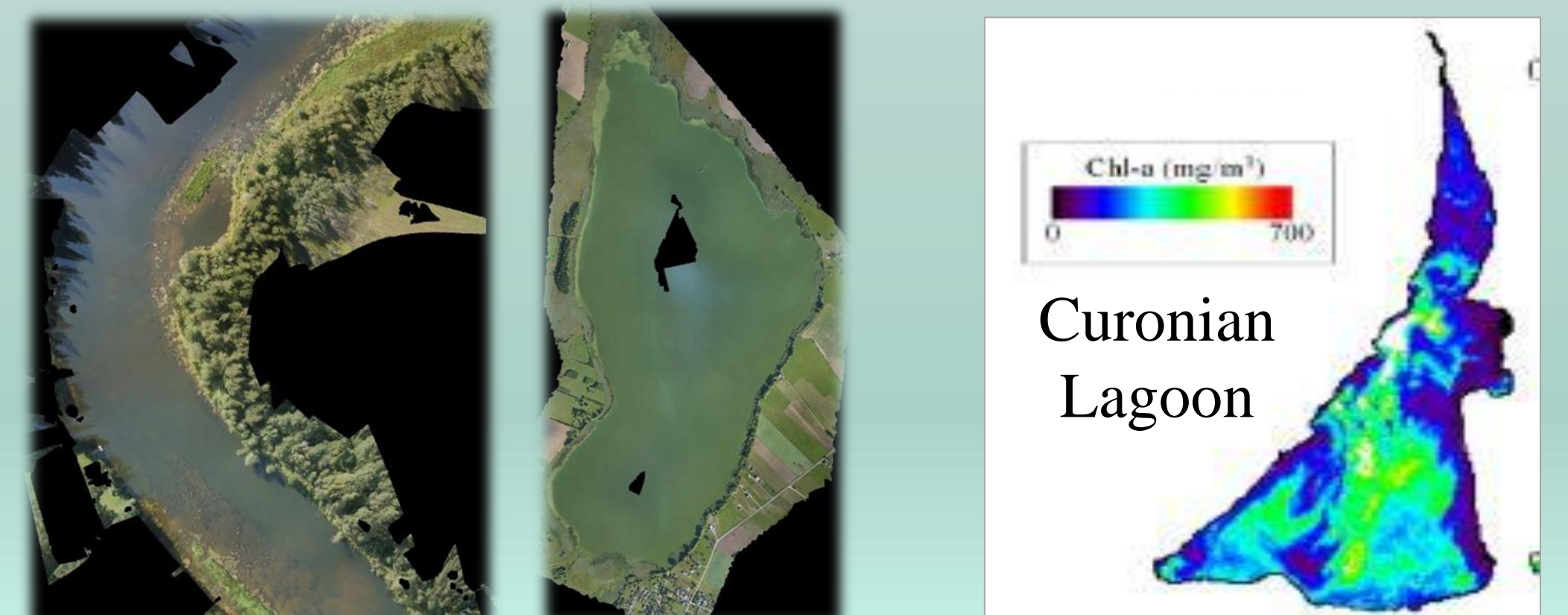
## DISTANT METHODS

Testing of images performed using unmanned aerial vehicles and satellite suitability to increase economic feasibility of algal harvesting and for monitoring of blooms. Implementer – Nature Research Centre.



Calibration with  
*in situ* data

River Šventoji Lake Simnas The Curonian Lagoon

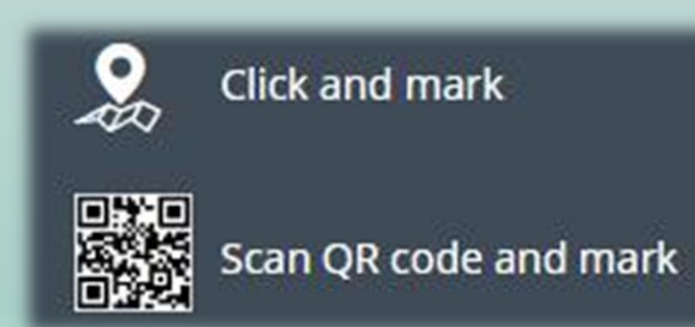


## RAISING AWARENESS



Raising awareness on environmental, water quality and health hazard issues using ArcGIS application.

The tool is created by partners from *Nature Heritage Fund*.



Access of Map: <https://gpf.maps.arcgis.com/apps/View/index.html?appid=297d0c6b02b14719868e9d6d6b885327>

**Coordinating beneficiary:**  
NATURE RESEARCH CENTRE



**Partners:**

Baltic Environment



Webpage: <http://algaeservice.gamtostyrimai.lt>

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