



H2020

## TOOLS IMPLEMENTATION EXAMPLE



### **Where**

Békés County, Hungary

### **Issue type(s):**

Environmental, policy and management, conflicts with other sectors

### **Specific Issue:**

To increase production capacity and income without affecting environmental status of areas under conservation and surface water resources

### **Case study:**

Pond cultivation in Békés County, HU

### **Objective:**

Increase pond surface area and maintain provided ecosystem services

### **Tool(s):**

GIS multicriteria analysis (ArcGIS),

Valuation of ecosystem services

Stakeholder meetings.

### **How tool(s) has/have been implemented:**

GIS multicriteria analysis for site identification according to technical requirements (canal network, depth and thickness of the confining layer, topography) and by exclusion of those areas there are not suitable for pond aquaculture due to issues of water management, infrastructure and environmental regulation

Ecological and sociocultural valuation of ecosystem services Evaluation of environmental and production monitoring data of Biharugra Fisponds; biodiversity data and determination of importance of ES through face-to-face interviews

Cross-sectoral stakeholder meetings Promotion of stakeholder consultation process to solve conflicts between aquaculture producers and other sector representatives.

### **Results:**

Identification of potential sites that have surface water access adequate soil structure and that are not subject to inter-sectoral conflicts

The highest and maximum value was given by local inhabitants to the Habitat service, presenting the high importance of wildlife and biodiversity.



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Significant numbers of issues were suggested by the AquaSpace workshop participants, showing the great interest towards the discussions.

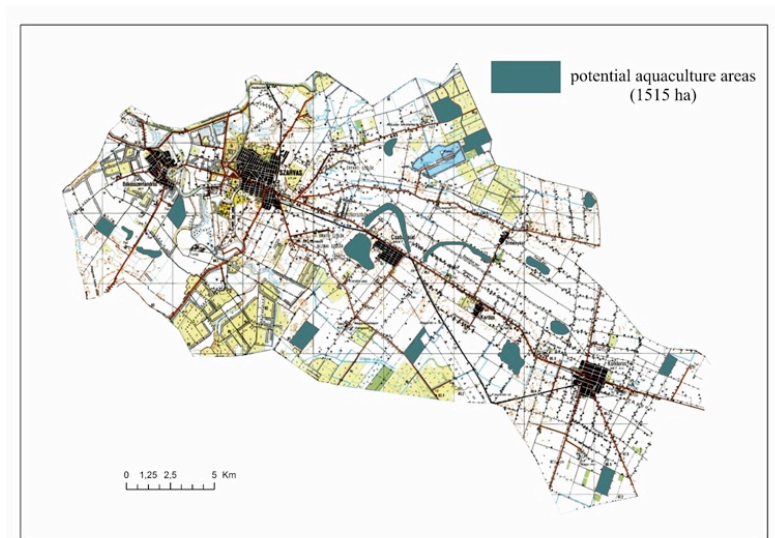


Figure 1: Map created in ArcGIS by combining layers to show potential aquaculture areas

### Links:

AquaSpace D4.2 at [aquaspace-h2020.eu](http://aquaspace-h2020.eu) on Library/Reports page

### Reference

NA

The information in this fact-sheet has been assembled as part of Milestone 20 (WP5) of the AquaSpace project

(Ecosystem Approach to making Space for Aquaculture, [aquaspace-h2020.eu](http://aquaspace-h2020.eu), which has received funding from the European Union's Horizon 2020 Framework Programme for Research and Innovation under grant agreement n° 633476.

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