

Fisheries management in the Danube basin – Fish spawning area network

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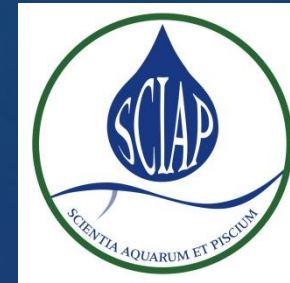
**European funding opportunities in the water sector
Second Stakeholder Seminar of the EU Strategy for the Danube Region
Water Quality (PA4) and Environmental Risks (PA5) Priority Areas**

Budapest, 19-20 November 2015

SCIAP Research and Development Consulting Ltd.

- **Status:** SME

- **Established:** 2005



- **Main activities:**

- ecological research and development of aquatic habitats
- research the structure of fish communities in fluvial ecosystems
- biomonitoring of different semi-aquatic and aquatic habitat types
- fisheries management researches and providing technical expertise
- implementation the ecological based freshwater fisheries management.
- working out sustainable fish farming in protected areas

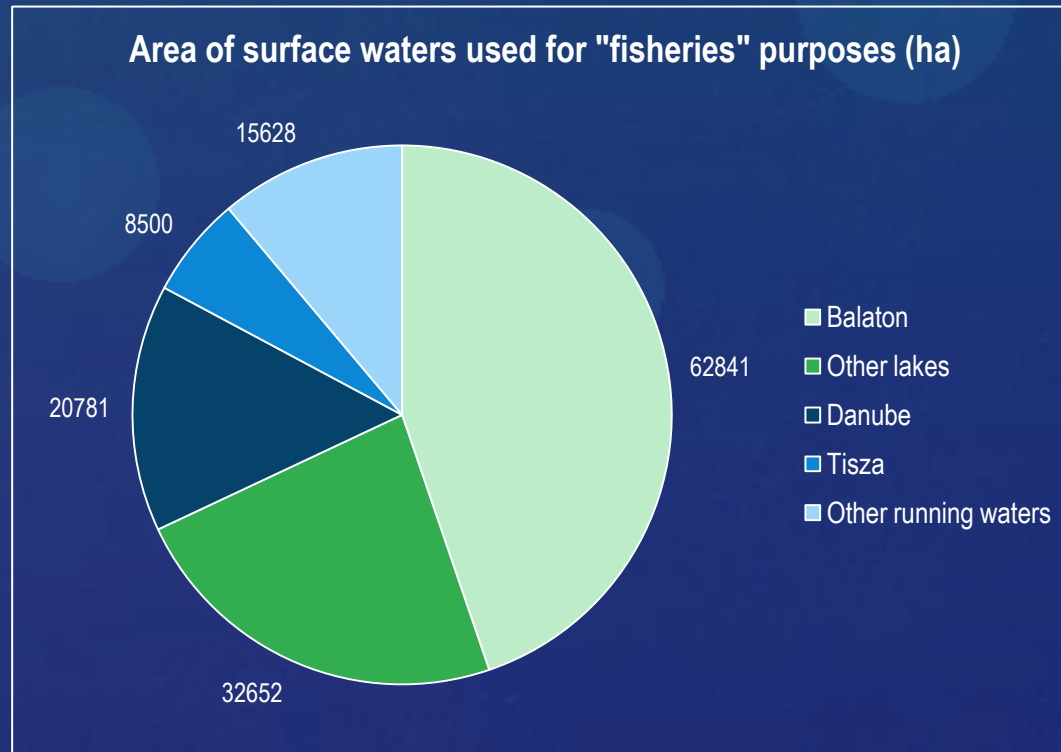
- **Projects:**

- ECOSURV – implement of WFD based biomonitoring system in the Hungarian surface waters. Europe Aid/114951/D/SV/2002-000-180-04-01-02-02. (2003-2005).
- EEOP – Preparation of the biomonitoring system according to Bird (79/409/EGK) and Habitat (92/43/EGK) Directives. Fish. Contract no. 2006/018-176-02-01. (2007-2008).
- EFI+ – Improvement and spatial extension of the European Fish Index. FP6-2005-SSP-5-A. Contract no.: 044096. (2006-2008).
- EEOP – Implementation of Kvassay Jenő Plan, and Revision of RBMP 7.9.0/12-2013-0007 (2015)
- AQUASPACE - Ecosystem Approach to making Space for Aquaculture H2020-SFS-2014-2; 633476 (2015-2017)



Aquatic resources in Hungary

- „Fisheries” water area totally 140,402 ha in 2010
- The share of running waters 32%

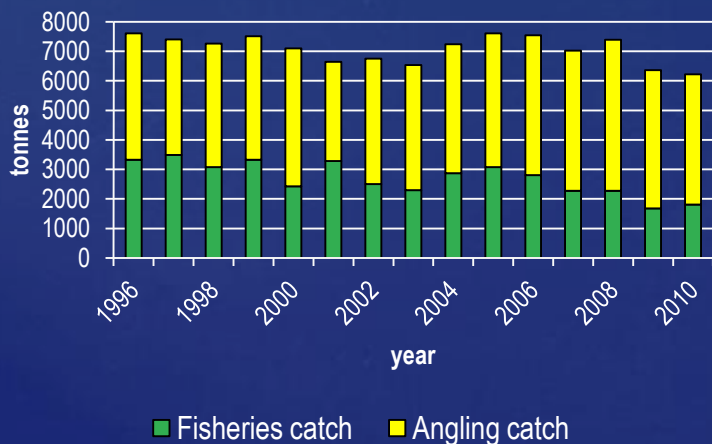


Utilization of fish populations in natural waterbodies

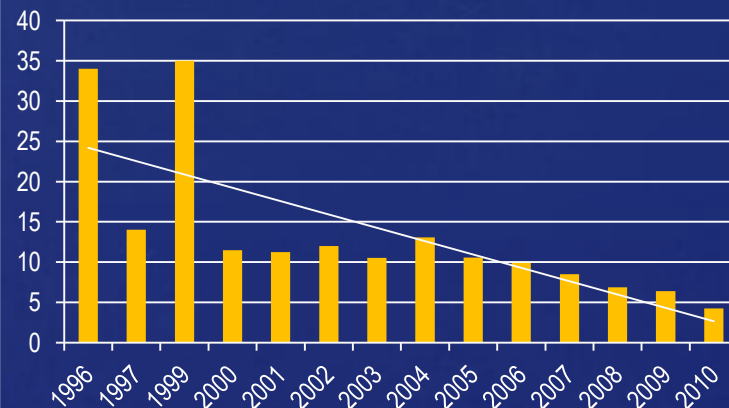
Researches highlight the recent unsustainable fisheries management practice that based on fishpond produced carp stocking (Halasi-Kovács & Váradi 2011)

- Angling has a significant selective pressure on the natural fish species and size groups.
- The transformation and degradation of the natural fish assemblages of Hungarian waters have continued in the last decade.
- While the summarized quantity of utilized fish populations remains stable, a changing fish assemblage structure and the decreasing size of some populations can be observed.

Cummulative catches between 1996-2010



Acipenser ruthenus



New fisheries management approach needed!

- Ecology discipline
- Ecosystem approach
- Water (sub)catchment level



Less stocking more habitat restoration



Where?



How?

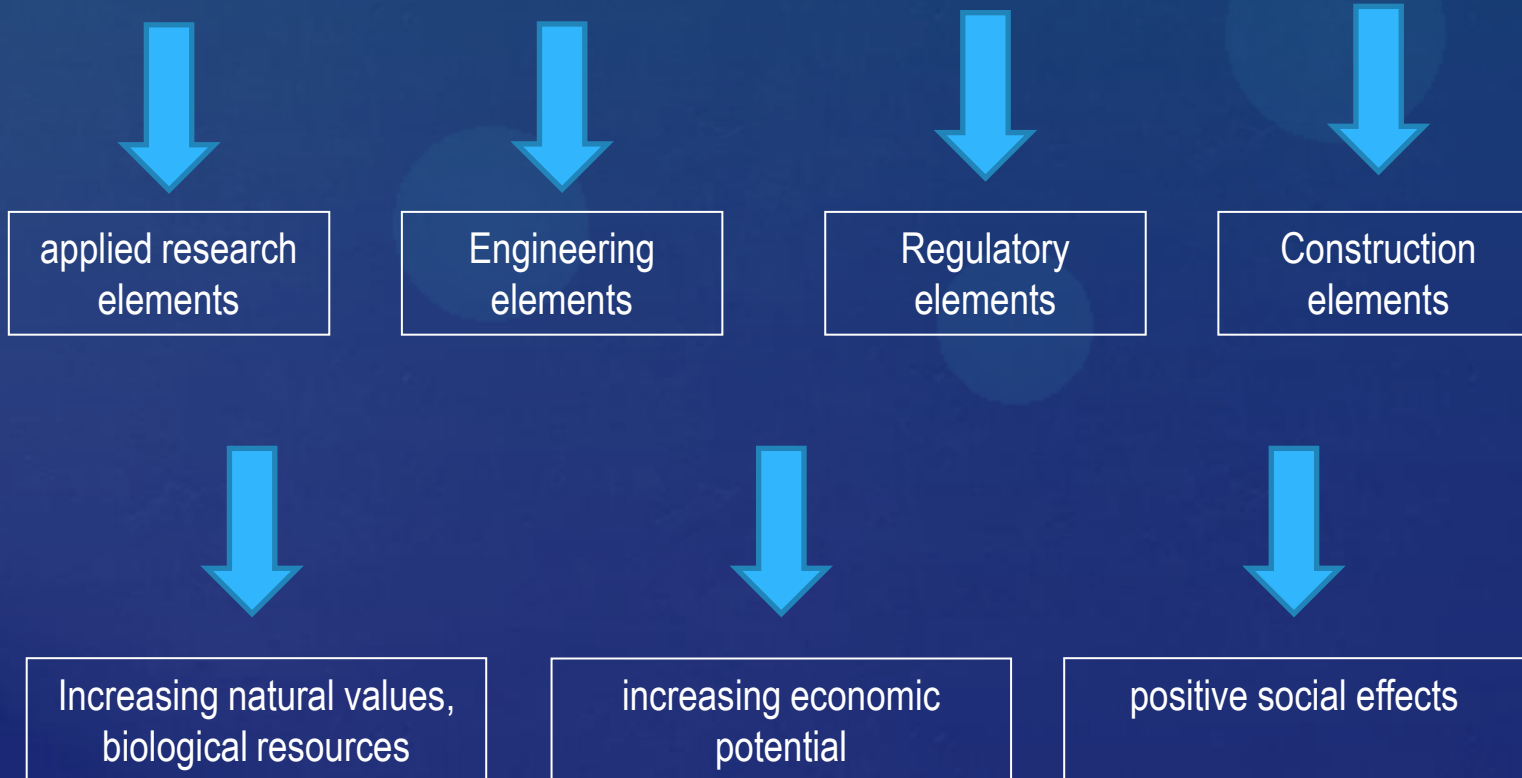


What extent?



Project needs to strengthen fisheries management

Building up a complex, administrative and operational spawning area network that can contribute to the rehabilitation of the self-sustaining fish assemblages in the fluvial ecosystems of Danube drainage.





Thanks for your attention!

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