Restoration of river continuity in Romania

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Figure 26: Current situation on river continuity interruption for fish migration in the DRBD

- Total barriers: Danube River 83, DRBD Tributaries 32, All DRBD rivers 51
- Barriers passable for fish by 2015: Danube River 947, DRBD Tributaries 304, All DRBD rivers 336
- Barriers not passable for fish by 2015: Danube River 1,030, DRBD Tributaries 616, All DRBD rivers 667
River Basin Management Plan

- Main planning instrument for the implementation of the WFD
- Objectiv is the good water status
- Has a river basin approach
- Include basic and supplementary measures
- Tackling hydromorphological alterations
Types of measures envisaged in the second River Basin Management Plan

- Wetland restoration particularly in connection with future flood control projects
- Fish passage were is possible. Particularly attention is given to Iron Gates for sturgeon migration
- More strict standards for waste water treatment were the good water status will not be reached
- Reduction or ban of sand and gravel exploitation from the river bed
- Limitation of the hydromorphological deterioration within the transport projects
- Increase the flow downstream of main dams wherever is possible
Measures for river restauration

• Measures to ensure longitudinal conectivity

• Measures to ensure lateral conectivity

• Improvement of the hydrological regime of the water bodies
Measures for longitudinal connectivity

- Study for the longitudinal reconnection of the Someșul Mic, river pe sectorul “confluence Nadaș-confluențe Someșul Mare
- Study for assess the possibility to implement the longitudinal reconnection on Ișalnița reservoir water body
- Study for the reservoirs with dams 15m < H < 50m, related to the fish migration corridor on the water body “Crișul Repede- reservoir Tileagd -> in Lugasă reservoir - ouă Ac.Tileagd + tributaries”
- Proposed measures for Mănăstirea dam, Apahida bottom sill and Gherla bottom sill.
Iron Gate I and II

• “Possible solutions for fish migration at Iron Gates I and II” Project- 2013-2014 with Dutch Partners for Water
• Pre-feasibility solutions
• There is a need for feasibility studies – together with ICPDR we are looking for EU support
Measures and costs

- 18 measures for longitudinal connectivity
- 2 millions Euro
- 600,000 Euro for studies
Ecological rehabilitation works
Rehabilitation of the wetland areas in the Danube floodplain
MEASURES

Managing And Restoring Aquatic Ecological Corridors For Migratory Fish Species In The Danube River Basin

Interreg
Danube Transnational Programme

Project co-funded by European Union funds (ERDF, IPA)

Overall project budget: 2,512,931.08 €
ERDF and IPA Contribution: 2,135,991.36 €
ERDF Contribution: 2,045,645.09 €
IPAII Contribution: 90,346.27 €

Lead partner:
University of Natural Resources and Life Sciences, Vienna

www.interreg-danube.eu/measures
Specific Objectives of MEASURES

• (1) Identification & mapping of migratory fish habitats.

• (2) Development of a harmonized & improved strategy (including prioritization) for the re-connection of migratory fish habitats to secure and re-establish vital ecological corridors in the DRB to be implemented into policy and management plans.

• (3) Provision of a strategy to conserve Danube sturgeon species, including an appropriate design of broodstock facilities.
Workpackages in the MEASURES project

WP M
Project Management
BOKU

WP C
Communication
WWF - RO

WP T1
Infosystem Eco-Corridors
IBRA

WP T2
Mapping the Corridor
DDNI

WP T3
Strengthen Migratory Fish
NAIK-HAKI

WP T4
Securing the Eco-Corridor
BOKU

Project co-funded by European Union funds (ERDF, IPA)
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Project partners:

**Austria** - University of Natural Resources and Life Sciences, Vienna

**Bulgaria** - WWF Bulgaria, Institute of Biodiversity and Ecosystem Research - Bulgarian Academy of Sciences

**Croatia** - Karlovac University of Applied Sciences

**Hungary** - National Agricultural Research and Innovation Centre, Research Institute for Fisheries

**Romania** - Institute of Biology Bucharest, Romanian Academy, Danube Delta Research and Development, Ministry of Waters and Forests, WWF-Romania

**Serbia** - Institute for Multidisciplinary Research, University of Belgrade

**Slovakia** - Trnava University in Trnava, Faculty of Education

**Slovenia** - Institute for Ichthyological and Ecological Research REVIVO

Associated strategic partners:

**Austria** - International Commission for the Protection of the Danube River, Austrian Federal Ministry for Sustainability and Tourism, Danube River Network of Protected Areas

**Germany** - Bavarian State Ministry of the Environment and Consumer Protection, German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety, Leibniz Institute of Freshwater Ecology and Inland Fisheries - a member of the Research Association Berlin e.V.

**Netherlands** - World Fish Migration Foundation,

**Romania** - Ministry of Environment, Biodiversity Directorate, River Administration of the Lower Danube Calati,

**Hungary** - Ministry of Foreign Affairs and Trade, Ministry of Agriculture, Department of Angling and Fisheries Management, Duna-Drava National Park Directorate

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Thank you very much for your attention