




UNDP/GEF TISZA MSP DEMONSTRATION PROJECT

**Selected Measures Towards Integrated
Land and Water Management
in Upper Tisza
ACHIEVEMENTS**

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Main objective of the project:




to demonstrate

Innovative + Cost-effective solutions

to the **typical** environmental problems

faced in Upper Tisza floodplain

with guidelines for their further replication

Project components:
1. Improvement of communal waste management system

Two goals:

1. to develop sustainable solid waste management system
2. to introduce separate waste collection (PET bottles)

Methods:

- capacity building of municipal services (purchasing of containers and press)
- Environmental awareness raising campaigns










One of the posters developed in frame of this component

DANGEROUS INHABITANTS OF THE RIVER
 (time of decomposition of garbage in water)

Item	Decomposition Time
Beer can	200-400 YEARS
Plastic	PROBABLY NEVER
Glass	100 YEARS
Rubber	10 YEARS
Can	80-100 YEARS
Packing	50 YEARS
Foil	7 YEARS
Battery	10 YEARS
Paper	1 MONTH
Cigarette end	1 YEAR
Polyethylene	PROBABLY NEVER

Project components:
2. Local flood protection plan




Elaboration of different scenarios of in-village stream flood management depending on water level in Tisza

+

Design and construction works

+

Flood Hazard and Flood Risk Maps



Results archived:

- One of the **first applications of requirements of EU FLOOD DIRECTIVE**: development of flood risk and flood hazard maps
- Close public involvement and **PUBLIC CONSULTATION** — key to sustainability
- **PRACTICAL ACTIONS** with involvement of public (cleaning of riverbed, creation of retention pond, sediments trapper)



Project components: 3. Restoration of habitats

Ukraine

- **FIRST SCIENTIFIC METHODOLOGY** of friendly habitat restoration at mountainous creeks by Institute of Hydrobiology;
- **On-job training** of forest enterprise stuff
- **RIVER TROUT** as indicator of the habitat restoration



Mountainous creek before cleaning



Restored habitat – trout is back 😊



Project components: 3. Study of lake biodiversity

Romania

- Assessment of **ECOLOGICAL POTENTIAL** of the lake Teplytsya as recreational zone
- Practical measures to **CONSERVE LAKE HABITAT**



Biodiversity poster



Project components:

4. Local wastewater treatment facilities

- Demonstration of possible **LOCAL and COST-EFFECTIVE BIOLOGICAL** treatment facilities
- Decrease of **DIRECT INFLOW** of nutrients into transboundary part of Tisza



Boarding school



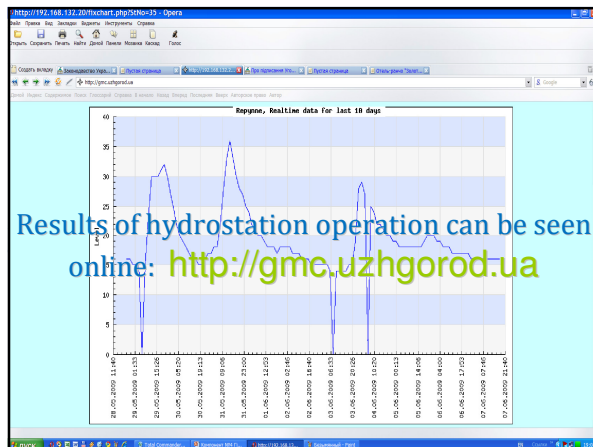
The actual co-funding from the side of Rakhiv regional administration – is more than 50% of the project (preparatory works and sewage works)



Project components:

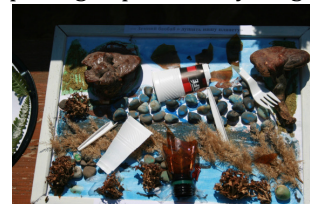
5. Re-opening of hydrological gauging station

- monitoring data **ON-LINE** for UA and RO partners
- The **ONLY** station for Shopurka river (tributary of Tisza – the catchment 286 km²)
- **LARGE** partner contribution – equipment (Zakarpattya Hydromet)



Possible topics for follow-up

- 1) Assessment of flood prone areas due to local streams for whole Upper Tisza basin
- 2) Establishment of biopositive flood constructions
- 3) Completing of plastic recycling cycle



Thank you for attention!

VELYKY BYCHKIV

thanks for clean road and the river!

