

**EU Strategy for the Danube Region (EUSDR)**

**Second Stakeholder Seminar of the  
Water Quality (PA4) and the Environmental Risks (PA5) Priority Areas**

***"EUROPEAN FUNDING OPPORTUNITIES IN THE WATER SECTOR"***

**UKRAINE**

**Project Idea # 1**

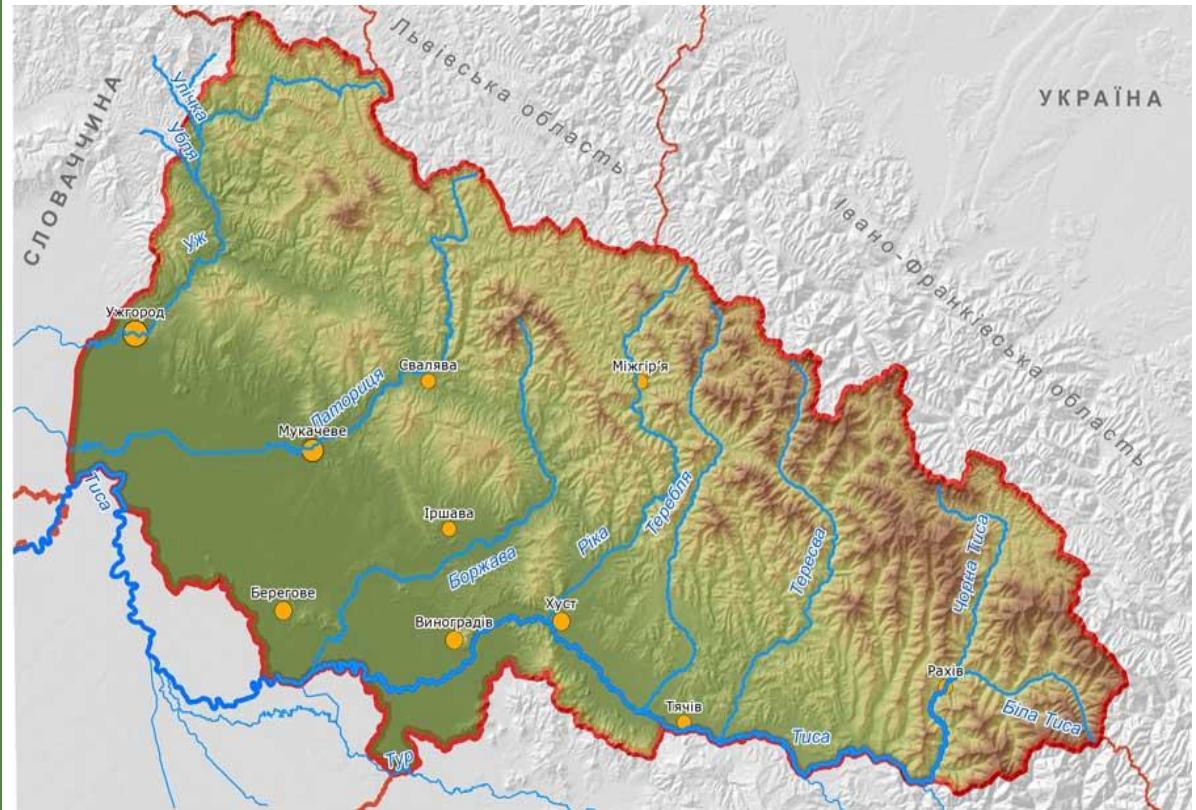
**Development of urban wastewater treatment plants in Transcarpathian  
region, Ukraine**

**Transcarpathian Agency for Investments, Innovations and  
Development**

Transcarpathian Region in Ukraine is a territory of Tisza River basin with over 9000 rivers which feed Danube river with water.

The biggest rivers are: Teresva, Tereblia, Borzhava, Latoritsa and Uzh. The last two flow into the river Bodroh in Slovakia, which later flows into the Tisza River.

Rivers' water regime depends on the weather and climate conditions and it is closely connected with the state of forests in Ukrainian Carpathians.



## Main Priority Area

**PA 4.04 To continue boosting major investments in building and upgrading urban wastewater treatment facilities across the Danube Basin, including measures to build capacity at the regional and local level for the design of such infrastructure**

## Project relevance

The quality and capacity of wastewater treatment facilities in four target cities of Uzhgorod, Mukachevo, Beregovo and Hust lay significantly behind other Danube cities.

## Target groups

- **More than 6.8 million people** - inhabitants of Transcarpathia (Ukraine), Kosice region (Slovak Republic), Eastern part of Hungary (Borsod-Abaúj-Zemplén, Hajdú-Bihar, Jász-Nagykun-Szolnok, Szabolcs-Szatmár-Bereg, Bács-Kiskun, Békés, Csongrád) and North of Serbia (Vojvodina).

## Project objective

To improve the wastewater treatment facilities in Uzhgorod, Mukachevo, Beregovo and Hust, thus reduce pollution in Tisza river.

## Project activities

**Activity 1:** Estimation of building costs and design for 4 cities (Uzhgorod, Mukachevo, Beregovo and Hust);

**Activity 2:** Construction of mechanical and biological treatment facilities in 4 cities;

**Activity 3:** Construction of nutrient removal facilities in 4 cities;

**Activity 4:** Sewage sludge treatment, construction of composting facilities and rainwater reservoir.

**Activity 5:** Reconstruction of the most critical elements of canal network.

## Project timeframe and budget

- 06.2016 - 06.2019

**Approximate total project budget (in million EUR) = 54,6 EUR**

- Preparation and measuring total = 4,6 EUR;
- Project of WWT total = 42,0 EUR;
- Project of canal network total = 8,0 EUR.



## ENPI CBC Project

Development study, preliminary building estimation and design for **Uzghorod and Munkachevo** have been prepared in the frame of Project:

“The development of environmental protection in the cities of Mukachevo and Uzhgorod through assessing the status of existing, polluting water utility systems (water and waste water), additionally, design of a development programme for these systems” HUSKROUA/1101/068 funded from ENPI CBC Programme Hungary-Slovakia-Romania-Ukraine 2007-2013.

## START project

Development study for WWT, preliminary building estimation and design for **Beregovo** will be prepared in the frame of Project, approved on October 22, 2015:

“CleanRiver - creation of feasibility study for improvement of wastewater treatment facilities in Ukraine” funded from START – Danube Region Project Fund.

## Sources of funding

- European Investment Bank;
- ENI CBC HUSKROUA 2014-2020;
- Danube Transnational Programme 2014-2020.

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Project Idea # 2

**Prevention of pollution of Tisza river basin through  
creations of waste management programme**

Transcarpathian Agency for Investments, Innovations and  
Development

# Waste Management

**Another major source of Tisza river pollution is solid waste, generated in the mountain areas of Transcarpathian Region.**

**A system of centralized collection and disposal of solid waste was established in 272 settlements in Transcarpathian Region (45% of all settlements).**

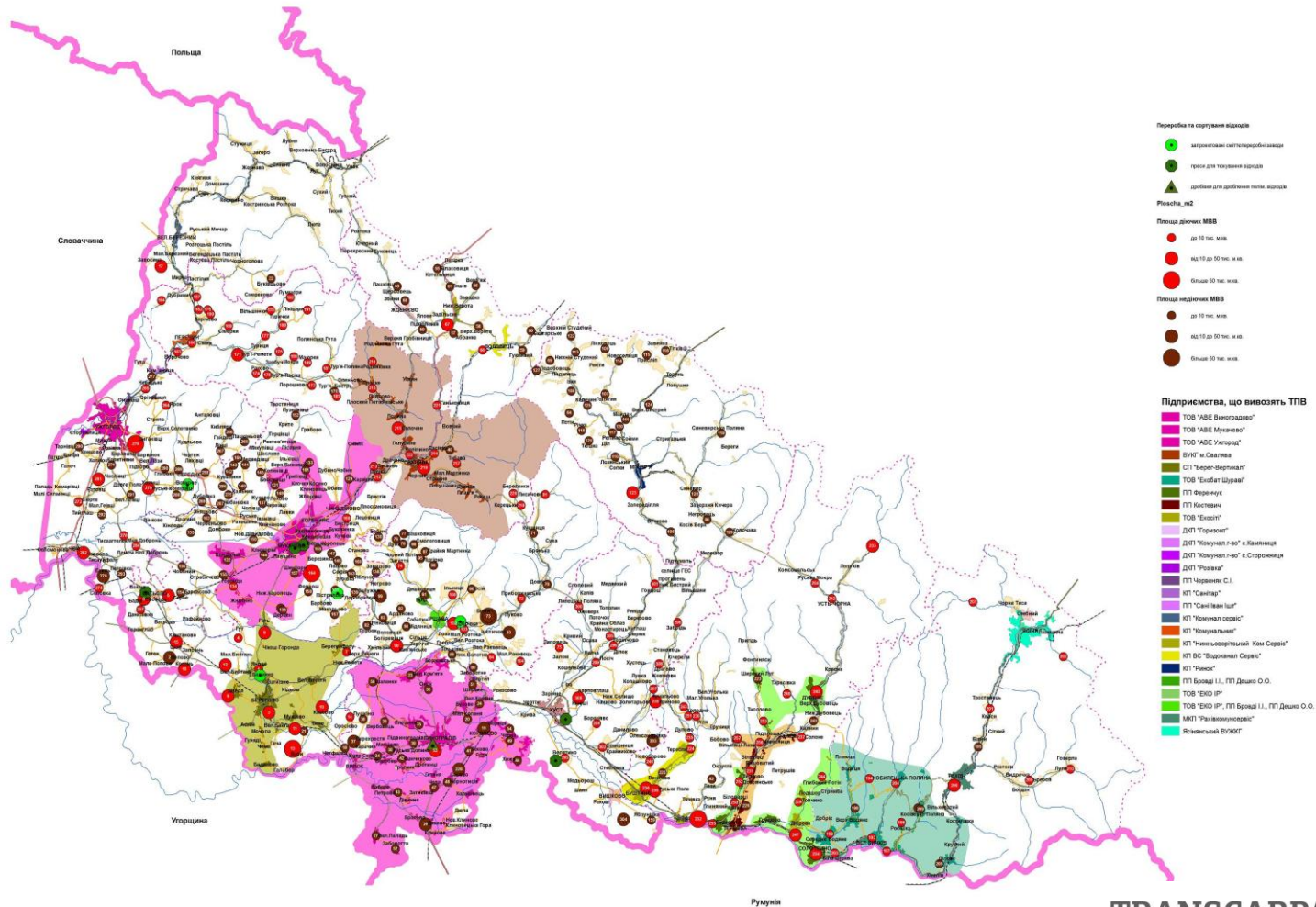
# Waste Management

Collection of domestic waste is carried out by private and public enterprises (28 specialized institutions within local councils), which provide centralized collection and disposal of solid waste from 98 settlements of Transcarpathian Region.

Also three joint Ukrainian-Austrian companies (AVE Ltd. Vynohradovo, AVE Ltd. Mukachevo, AVE Ltd. Uzhhorod) and one Ukrainian-Hungarian company (Bereg-Vertikal Ltd.) carry out centralized collection of solid waste from 126 settlements.



# Locations of waste collection





# Waste Management

In other 55% of the Region waste is disposed to unauthorized dumps or directly into the river.



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# Waste Management

That is why the major source of Tisza river pollution is solid waste, generated in the mountain areas of Transcarpathian Region, Ukraine.



# Waste Management

**Currently more than 4 million tons of solid waste is stored in the existing landfills and dumps of the Region.**

**They are overloaded, and do not meet environmental safety requirements.**

# Waste Management

The problem of waste management has to be solved through creation of infrastructure for collecting, processing and recycling of waste in the areas of Tisza basin.

Waste energy use can be implemented through biogas production facilities and an incineration plant.

This will ensure sustainability and a long-term effect on environmental protection of the Region.

**Mike Nagorkin**

project manager

**NGO Transcarpathian Agency for Investments,  
Innovations and Development, Ukraine**

+38-066-518-1369

[mikenagorkin@gmail.com](mailto:mikenagorkin@gmail.com)

**Thank you!**