

ENVIRONMENTAL PROTECTION OF INTERNATIONAL RIVER BASINS PROJECT

EUROPEAID/131360/C/SER/MULTI



This project is funded by
the European Union

Implementation of Pilot Projects from the Selected Programme of Measures in Belarus

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**EU - Eastern Partnership countries Regional Cooperation:
Progress on Water Management Reforms and Targets for the Future**

**Joint High Level Event of the EPIRB and EUWI+ Projects
19-20 September 2016
Kiev, Ukraine**

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Selected Pilot Projects

Ministry of natural resources and environmental protection of the Republic of Belarus and NCC approved the next priority measures from PoM:

1. Preparation of methodological documentation for WFD compliant monitoring programmes in support of implementation of the 2014 Water Code of the Republic of Belarus: **15,000 EUR**
2. Flood risk assessment and mapping of the Upper Dnieper basin, including determination most at risk areas, field surveying of critical sites, mapping and initial design of protection measures: **30,000 EUR**
3. Detailed assessment sources of pollution of potable GW sources supplying the “Novinki” region in the territory of Minsk: **35,000 EUR**
4. Preliminary assessment of the impact planned construction hydropower stations on the hydrological regime and preparation necessary amendments to RBMP of Upper Dnieper: **20,000 EUR**

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Pilot-2: Flood risk assessment and mapping of the Upper Dnieper basin, including determination most at risk areas, field surveying of critical sites, mapping and initial design of protection measures

- The main aim of the pilot project was a development preliminary programme of measures to improve the flood situation for regularly flooded territory of city Dobrush based on flood hazard and flood risk maps according to EU Flood Directive.
- OUTPUTS:
- Set of flood hazard and flood risk maps of territory city Dobrush for spring floods of 0.5%, 1%, 10%, 25% probability and flash floods with 10% probability in GIS format.
- *Preliminary programme of measures to improve the flood situation was included in RBMP of Upper Dnieper and submitted to local (city Dobrush) authorities that are responsible for protection of flooded areas.*

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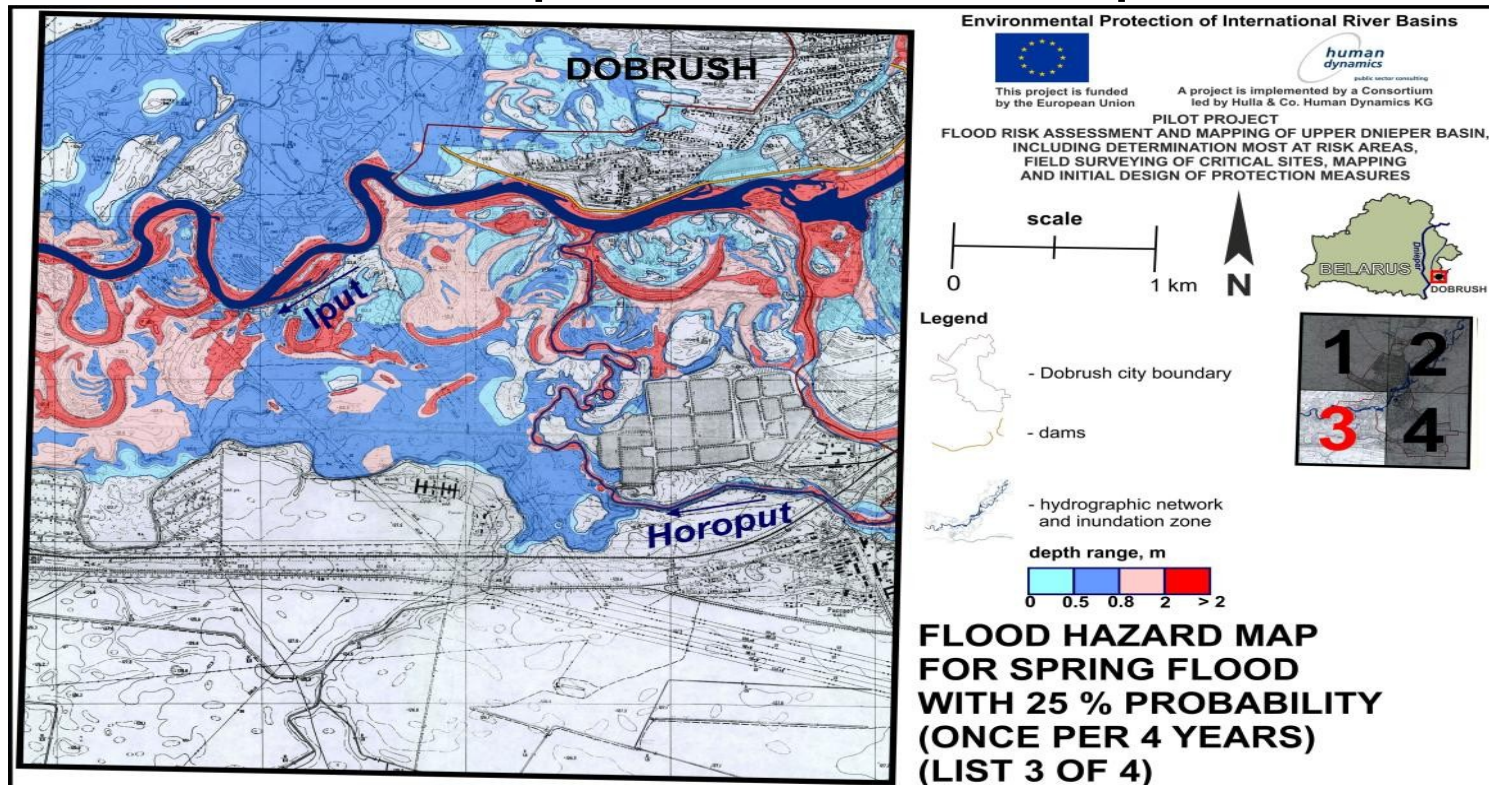
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Pilot-2: Flood risk assessment and mapping of the Upper Dnieper basin, including determination most at risk areas, field surveying of critical sites, mapping and initial design of protection measures

Example of the flood hazard map



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Pilot-3: Detailed assessment sources of pollution of potable GW sources supplying the “Novinki” region in the territory of Minsk. This will include the development of a mathematical model to elaborate potential pollution pathways and identification of protection measures to be implemented

- Groundwater in Belarus is the main source of drinking water supply. The water intake Novinki is the main and one of the oldest intake in Minsk - capital of Belarus . Groundwater monitoring has revealed the development of anthropogenic pollution of the aquifers mainly by nitrates. The main aim of the pilot project was elaboration of potential pollution pathways for water intake Novinki and identification of protection measures. The major steps for achieving aim were implemented:
- Analysis of point and non-point pollution sources
- Assessment of impact of abstraction on acceleration of pollution.

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Pilot-3: Detailed assessment sources of pollution of potable GW sources supplying the “Novinki” region in the territory of Minsk. This will include the development of a mathematical model to elaborate potential pollution pathways and identification of protection measures to be implemented

- Mathematical modelling of groundwater flow direction and groundwater quality
- Control groundwater sampling in Novinki well field
- Elaboration of potential pollution pathways and identification of protection measures
- Outputs:
- Recommendation with identified protection measures were included in RBMP of Upper Dnieper and submitted to “Minskvodokanal” which exploits the water intake Novinki

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Gaina river

Thank you for your attention!

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