



GOOD PRACTICE

Title of the practice

Flood modeling and mapping in the Eastern European countries



Detailed description of the practice

Implementation of flood forecasting model and development of Flood Hazard (FHM) and Flood Risk maps (FRM) for transboundary rivers in the Eastern European countries including:

- Modeling of rainfall-runoff process based on historical records of flow and corresponding meteorological conditions and calculated hydrographs based on transboundary exchange of morpho metric and hydrological information.
- GIS data processing in the distributed hydrological modeling for transboundary river watershed.
- Implementation of the contemporary flood forecasting models, FHMs and FRMs couples for entire transboundary parts of rivers for all boarding countries.
- Using the upstream rule of the LAWA method in flood modeling: Cross border rivers at risk are analyzed up to the river mouth, across the border. These solutions will be urban, rural and natural parts of catchment of the Pripyat and Western Bug river.

Evidence of success

Transboundary exchange by the hydrological information between EU and non-EU countries. Common modeling and flood-mapping took place in the frame of pilot implementation and the European Flood Risk Management Directive. The solutions can improve Flood Risk management including international cooperation in transboundary river basins.

Location of the practice

Country: *Belarus, Poland, Ukraine*

City: *Minsk*

Contact details to obtain further information on the practice

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