



Integrated Water Management of Transboundary Catchment



Landscape of the Norwegian-Russian border (Norway)

In Europe, border areas usually belong to the most problematic regions of many countries. Borders of states rarely respect the hydrogeological limits of a natural catchment. Usually the catchment, belonging to more states, is managed in different ways, depending on each state, respecting no interests, historical roots, and legislative rules of the neighbour across the border. It may have catastrophic effects.

The main goal of the project will be to create an operational and integrated comprehensive Decision Support System (DSS) for optimal water management catchment in borderland regions, in context of the implementation of the EU Water Framework Directive.

Another objective of the project will be the establishment of an European platform for initiating and promoting international cooperation and networking.

The proposed project incorporates a research program aiming to avoid the extended aquifer contamination, improvement of groundwater and aquifer quality, and reducing of flooding risks.

A selection of reference (pilot) areas across Europe has been made to be able to provide a good contrast in transboundary area typology:

- Gadiana river (Spain/Portugal border)
- Bělá river (Czech Republic/Poland border)
- Pasvik river (Norway/Russia border)
- Nestos river (Greece/Bulgaria border)
- Šumava catchment (Germany/Czech Republic border)



Landscape of the Norwegian-Russian border (Russia)

TransCat sub-objectives:

- Identification of relevant existing and potential conflicts in transboundary water systems.
- Analysis of the existing legal and institutional framework related to transboundary water resource problems.
- Identification of new concepts and proposals for evolution trends within EU framework.



Šumava catchment

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