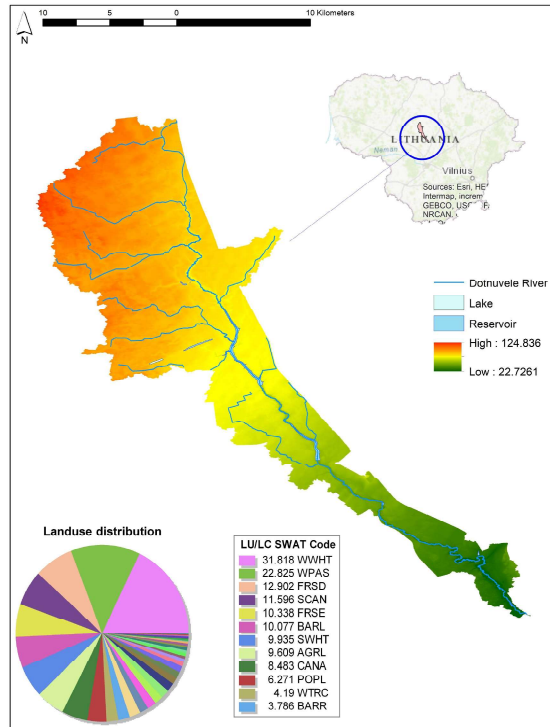


KU STUDY SITE: DOTNUVĖLĖ RIVER BASIN (LITHUANIA)

Natalja Čerkasova, Rasa Idzelytė, Jovita Mėžinė

LOCATION & LANDUSE



GENERAL INFORMATION & PROBLEMS

- Catchment area: 176.42 km²
- Elevation range: 22 – 124 m a.s.l.
- Precipitation: 615 mm/a
- Dominant land use: Winter wheat and Winter Pasture



High diffuse pollution loads to the surface waterbodies due to:

- Fertilizer leaching from the soil;
- Improper storage of manure;
- Improper fertilization and/or use of pesticides;
- Regular (old) tile drainage systems.

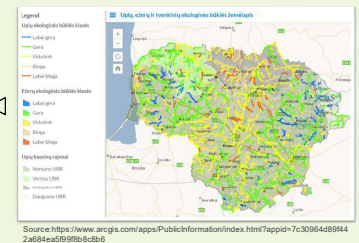
- Eutrophication of the surface waterbodies;
- Decrease in the ecological status.



Tile drainage system (left) regular/old vs (right) regulated

Major Waterbodies in Lithuania and their ecological status¹:

- High (blue);
- Good (green);
- Moderate (yellow);
- Poor (orange);
- Bad (red).



EXISTING NATURAL/SMALL RETENTION MEASURES

CONSTRUCTED WETLAND

- Area: 2.38 ha;
- Volume: 12734 m³;
- Max debit: Q_{30%}: 1.95 m³/s.
- Established in September, 2015; Operating since 2016.



SEDIMENTATION PONDS (3)

- Area: 0.02, 0.03, 0.1 ha
- Volume: 161, 247, 896 m³;
- Retention (normal): 24, 27, 16 days.



DRAINAGE MANAGEMENT SYSTEMS (10)

- Total drained area: 72.91 ha
- Managed area (from the total): 21 ha
- Drainage management system.

STAKEHOLDERS

PARTICIPATION ALREADY CONFIRMED VIA SUPPORT LETTERS:

The Environmental Protection Agency (EPA) of Lithuania



Local farmers who were participating in previous projects (2015-2016) and who's territories are used for NWRM.

We will seek **other local stakeholders** in the field of landscape maintenance, conservation, etc.

Potential stakeholders are:

- The Baltic Sea Conservation Foundation
- Baltic Environmental Forum Lithuania

