



INTRODUCTION TO THE PROJECT

Jānis Šīre

Project Manager

EU LIFE Programme integrated project

“Implementation of River Basin Management Plans of Latvia towards good surface water status”



THE OVERALL AIM

To improve the status of water bodies at risk in Latvia by implementing the measures laid down in all 4 river basin management plans

19 partner consortium, consisting from:

- public authorities;
- municipalities;
- scientific organizations;
- companies managing the State property;
- NGO`s (from farmers to environmental protection organizations)



DURATION:

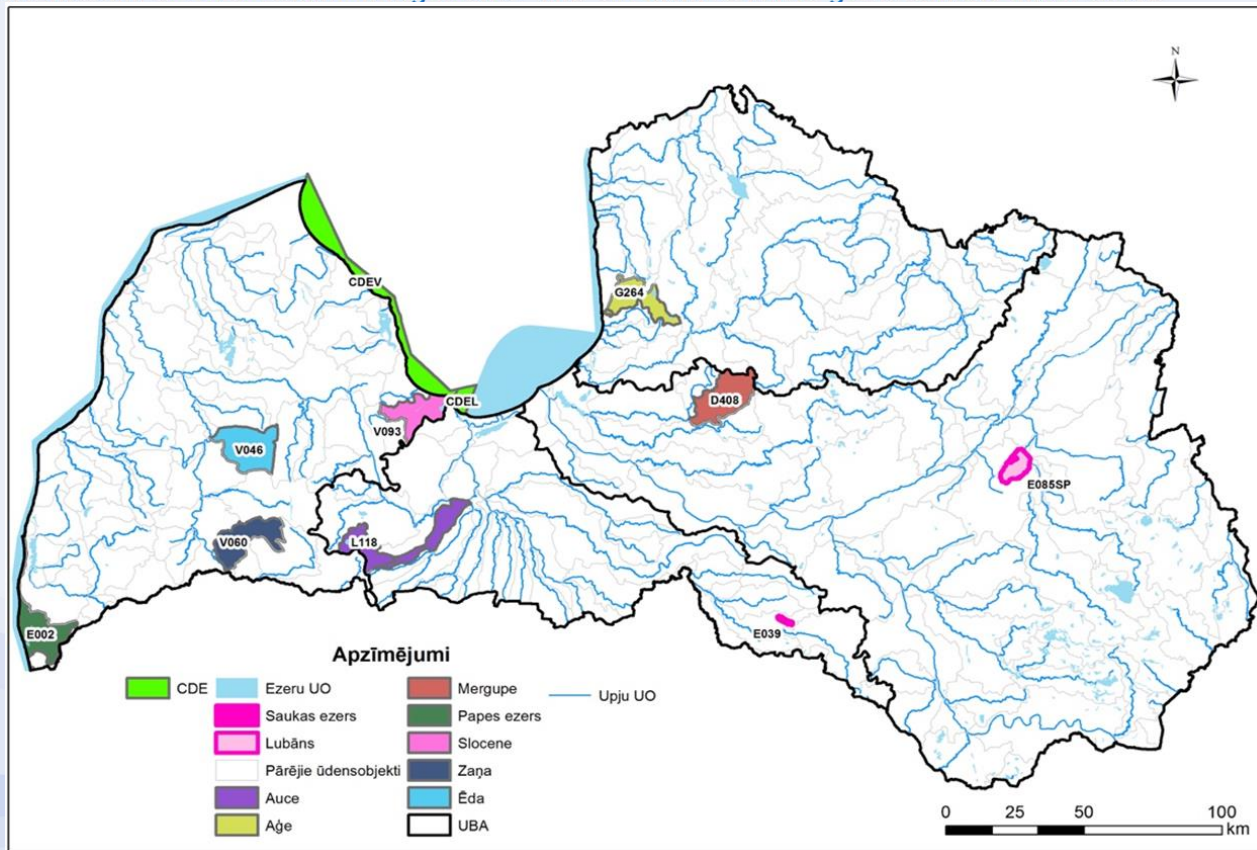
01.01.2020.–31.12.2027.

TOTAL BUDGET:

14 463 050 EUR

COMPLEMENTARY FUNDS:

101 890 569 EUR



SPECIFIC OBJECTIVES

✓ reduce the **point-source pollution**, mainly focusing on urban waste water:

- Engure village - improvements in the operation of existing WWTPs;
- Nākotne village - construction of new wastewater treatment plant

✓ reduce the **diffuse pollution** from agricultural and forestry lands:

- research in Aġe, Slocene, Auce and Ēda rivers;
- green infrastructure solutions such as buffer strips and wetlands



SPECIFIC OBJECTIVES

✓ mitigate effects of **hydrological and morphological alterations**, focusing not only on dams, but also on drainage systems:

- survey of 4 rivers along their entire length;
- inspection of drainage systems and construction of environmentally friendly elements, incl. culvert reconstruction
- construction of a fish pass (on Ağı HPP)
- calculation of ecological flow regime for HPPs in 4 rivers - Ağı, Mergüpe, Auce and Zana



SPECIFIC OBJECTIVES

- ✓ improvement of **river basin management planning** and implementation mechanisms:
 - intensive monitoring in the project's rivers and lakes;
 - SWAT+ model for determination of nitrogen and phosphorus loads;
 - development of river basin management plans
- ✓ **support for the respective authorities** by improving the legislative and regulatory documents and policies:
 - results of measures implemented in practice - efficiency indicators;
 - development of the National sewage sludge strategy;
 - incorporation of the research results into the Common Agricultural Policy document;
 - additions to other regulatory documents

SPECIFIC OBJECTIVES

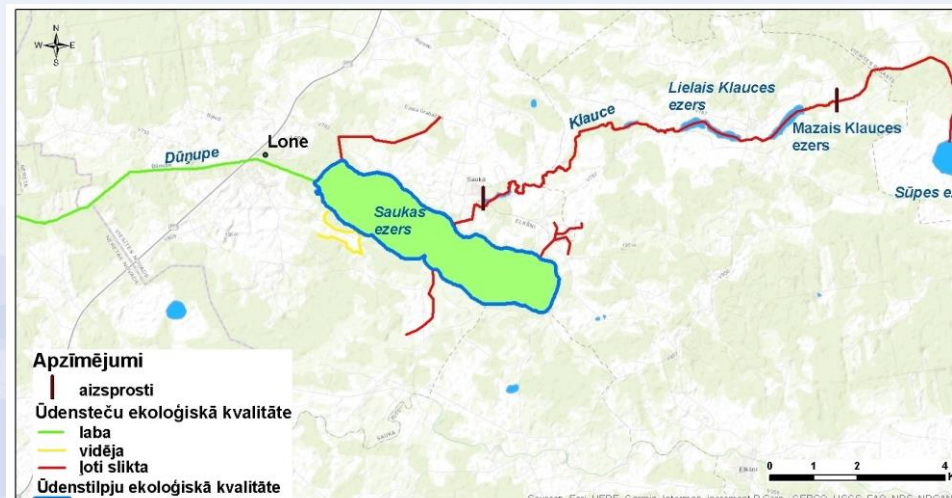
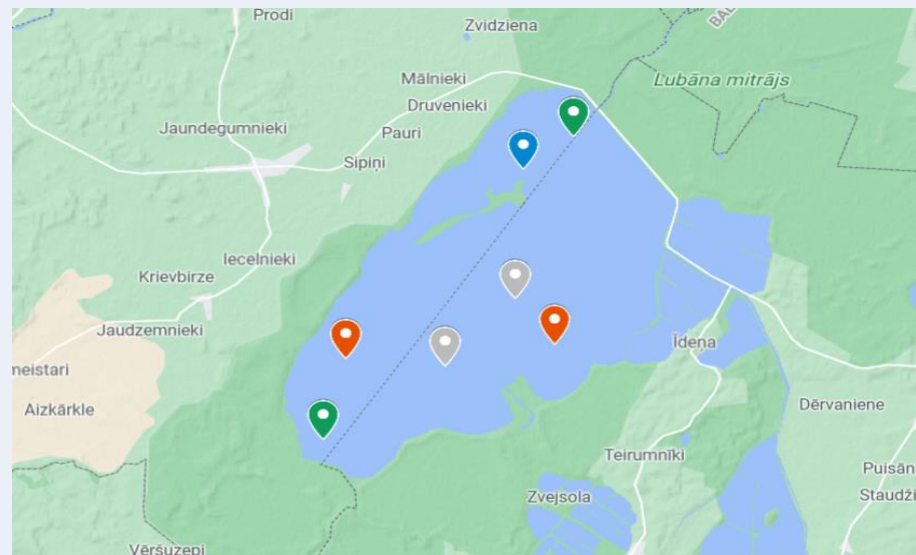
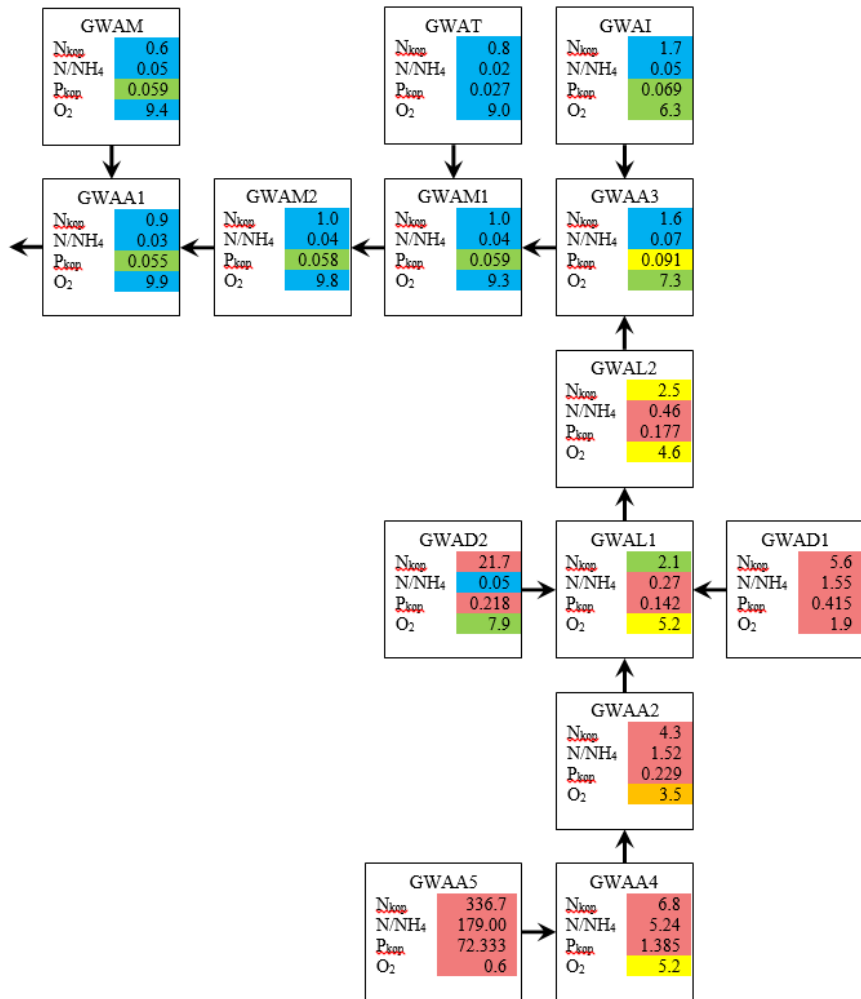
✓ awareness raising activities:

- 4 thematic training programs will be developed (wastewaters, agriculture, forestry, aquaculture);
- river clean-ups, exhibitions and landscape tours;
- a small grant program for local cooperation and involvement (1st stage = 35 proposals → 6 for detailed elaboration → 4 in final phase for approval)



PRACTICAL ACTIVITIES

- Intensive **monitoring**
 - Agricultural impact assessment – 4 rivers (~15x4 samples each month)
 - Forestry impact assessment – 1 river (16 samples each month)
 - Wastewaters – 2x each month (1 year)
 - Detailed monitoring in Sauka lake (lake, in- / out-flowing rivers/ ditches)
 - Additional monitoring in lake Lubans (different sites in the lake)
 - Aquaculture impact (13 fish farms)
 - Hydromorphology/fish survey – 4 rivers in all their length
 - General monitoring in demo WB (12x per year)



Phytoplankton and zooplankton samples



Photo: I. Druvietis

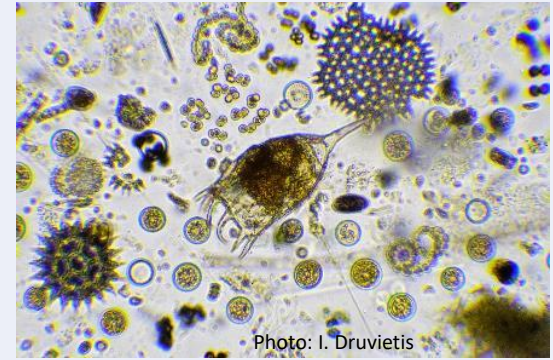


Photo: I. Druvietis



Benthic invertebrates



Macrophytes

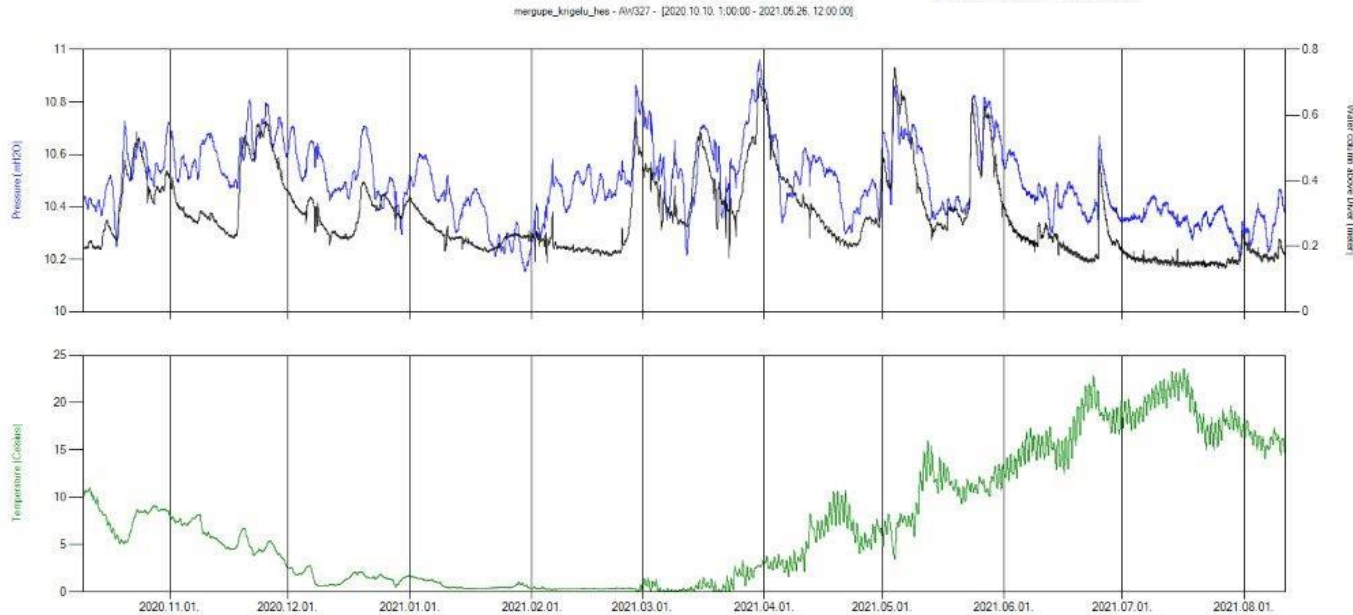
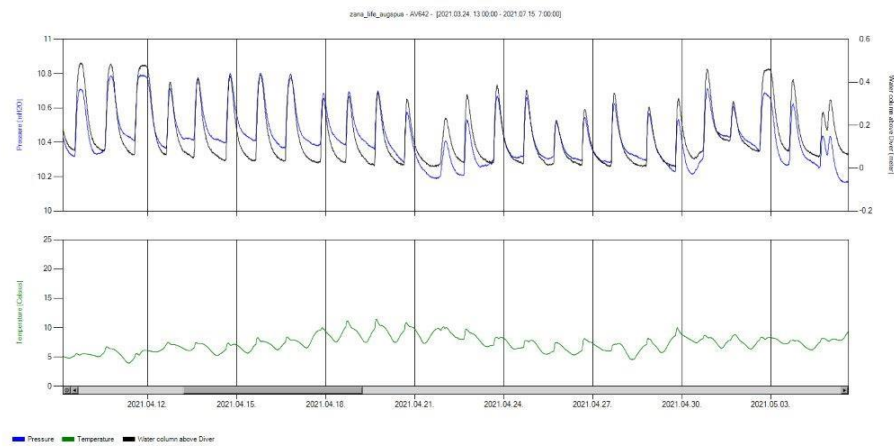


Photo: I. Kokorite

Plankton sampling

HPPs and E-flow

- Field works - ongoing
- Installation of divers
- Control issues - water level/flow regime



Hydromorphological surveys

River inspection

- Includes RHS (river habitat survey) + THS (trout habitat score) + data on rapids, beaver dams and log jams
- Age & catchment – 36.6 km in Age River (95% from riverbed) and 13.7 km in tributaries
- Mergupe & catchment – 43.3 km in Mergupe (83% from riverbed) and 6.1 km in catchment
- Survey of macrophytes and benthic invertebrates performed within activity D1
- Auce and Zaña rivers in 2021!

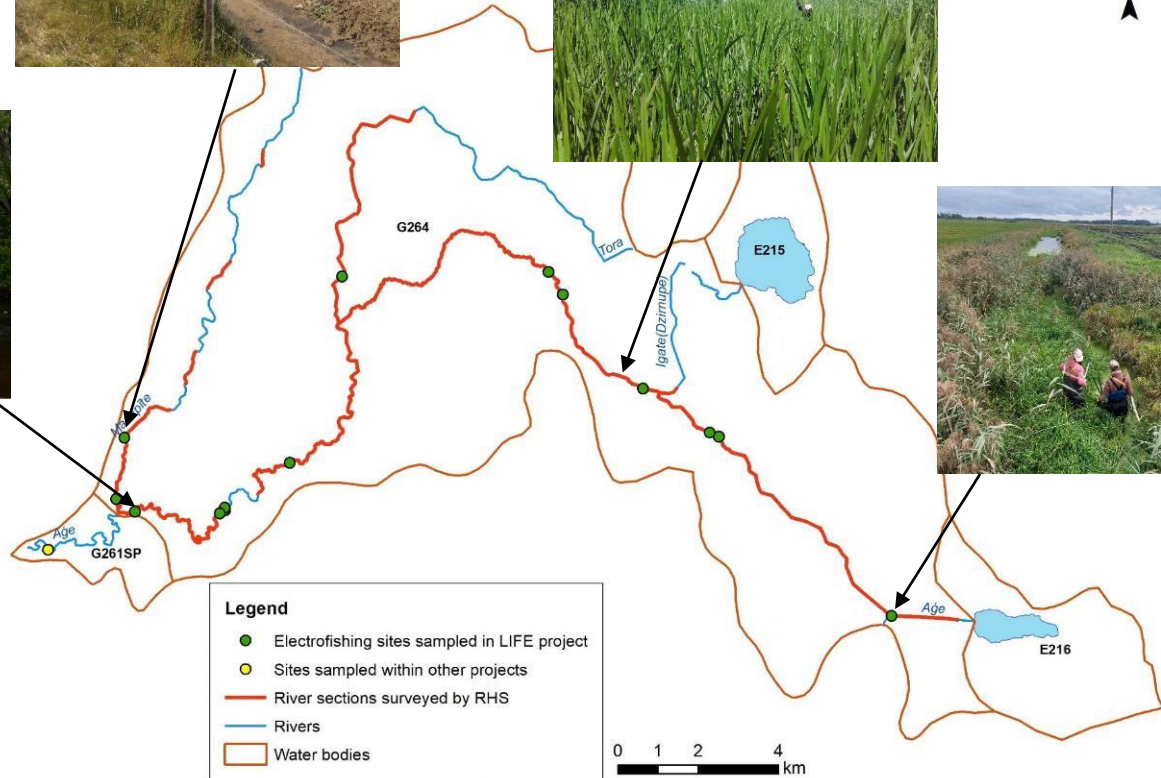
Electrofishing

- Age & catchment – 12 sites in Age River and 4 in tributaries. One additional site sampled within other projects.
- Mergupe & catchment – 11 sites in Mergupe River and 2 sites in tributaries. Two additional sites sampled within other projects



Age river & catchment

Integrated project
Basin Management Plans of Latvia towards good surface water status”



PLANNED NATURE BASED SOLUTIONS

Plan to implement AND TEST measures for improving the ecological quality and assess their effectiveness:

- build and test the applicability of **sustainable and environmentally friendly drainage system elements** - *meandering, artificial rapids etc.*;



Let the rivers flow!



www.goodwater.lv



@goodwater



@goodwater



LIFE GoodWater



goodwater



goodwater

The integrated project “Implementation of River Basin Management Plans of Latvia towards good surface water status” (LIFE GOODWATER IP, LIFE18 IPE/LV/000014) has received funding from the LIFE Programme of the European Union and the Administration of Latvian Environmental Protection Fund. www.goodwater.lv

The information reflects only the LIFE GOODWATER IP project beneficiaries' view and the European Commission's Executive Agency for Small and Medium-sized Enterprises is not responsible for any use that may be made of the information contained therein.



LVGMC

