INTRODUCTION TO THE LIFE GOODWATER IP PROJECT AND ACTIVITIES PLANNED FOR REDUCING IMPACTS OF HYDROMORPHOLOGICAL MODIFICATIONS IN RIVERS IN LATVIA

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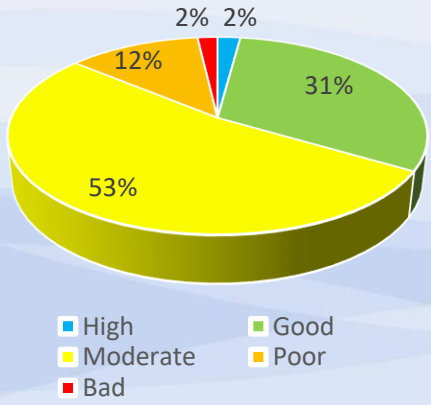
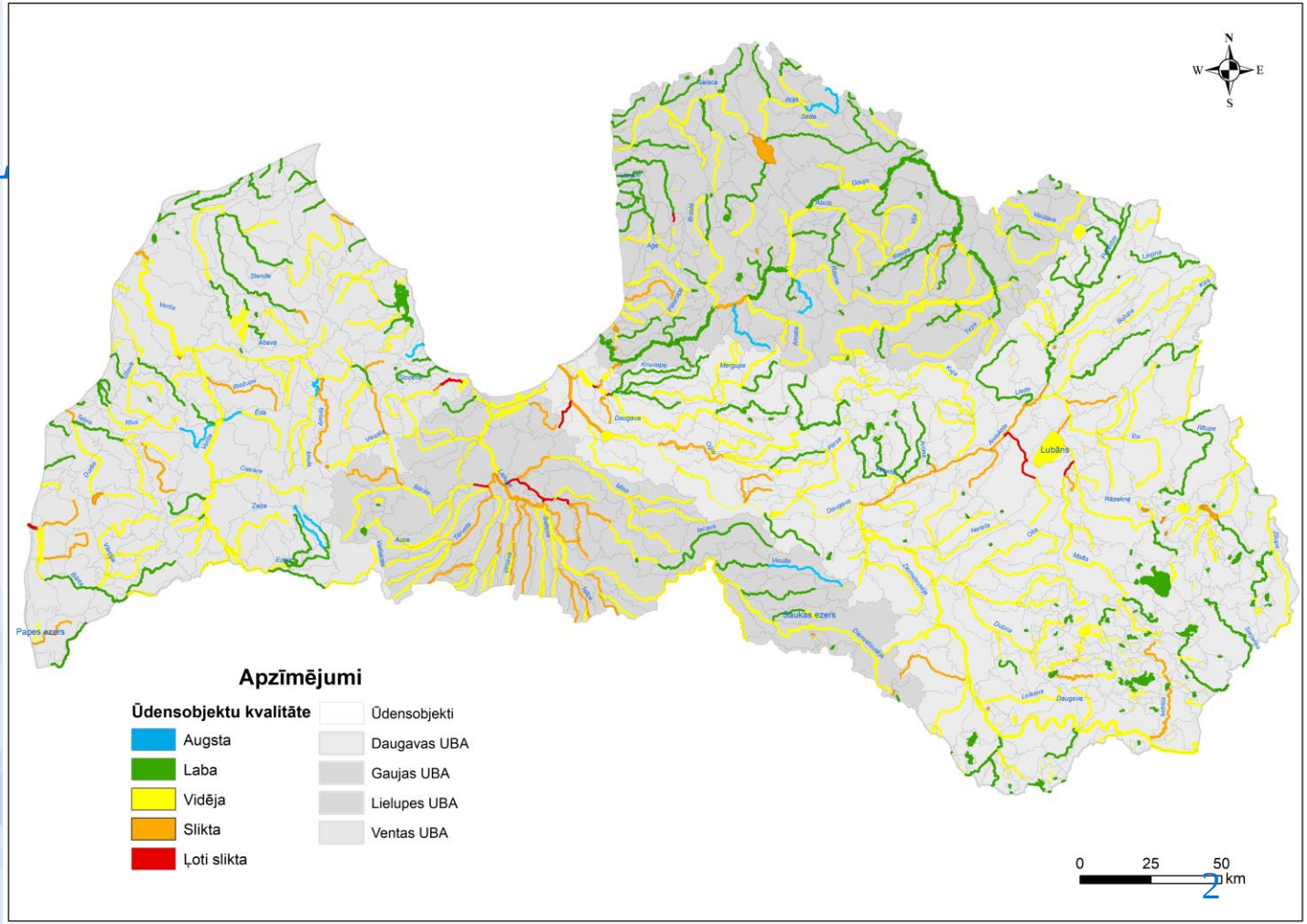
Cēsis, 21.09.2023.

EU LIFE Programme integrated project
"Implementation of River Basin Management Plans of Latvia towards good surface water status"

ECOLOGICAL WATER QUALITY IN LATVIA

2022





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)

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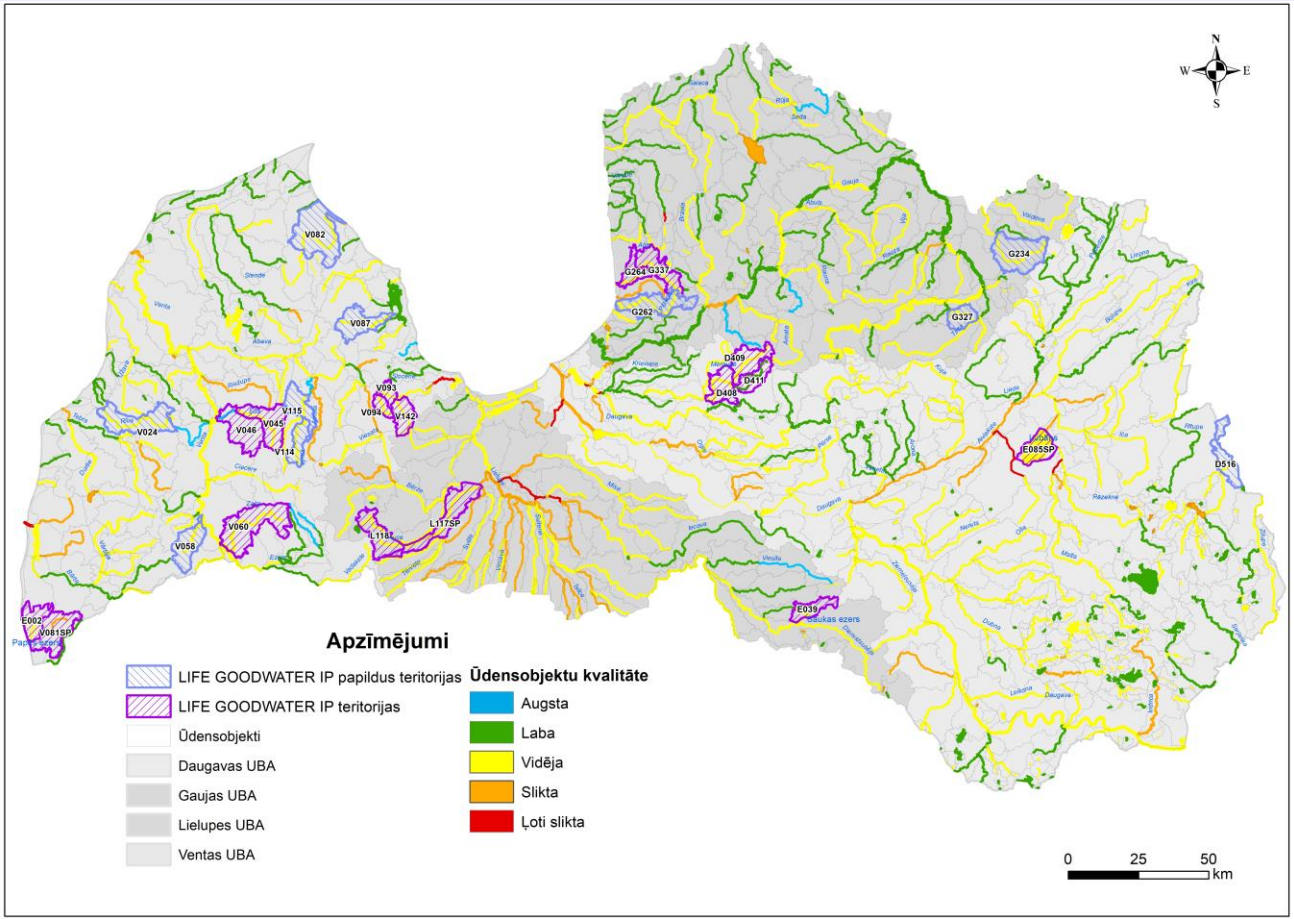
DURATION:
01.01.2020.–31.12.2027.

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:

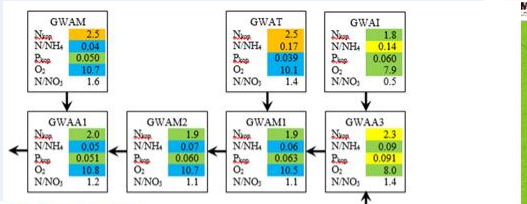
- Engure village – **improvements** in the operation of existing WWTPs;
- Nākotne village – **construction** of new wastewater treatment plant;

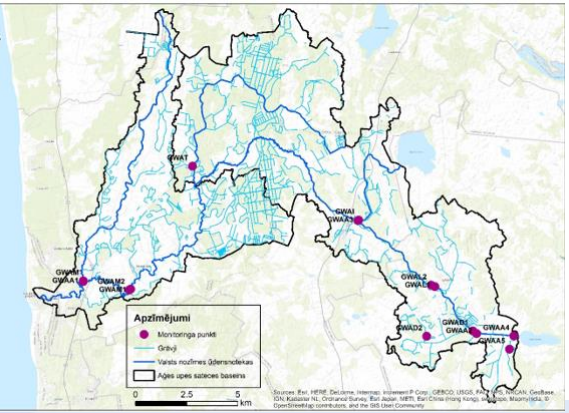
- Mathematical model for assessment of decentralized sewage system status and potential health risks to inhabitants

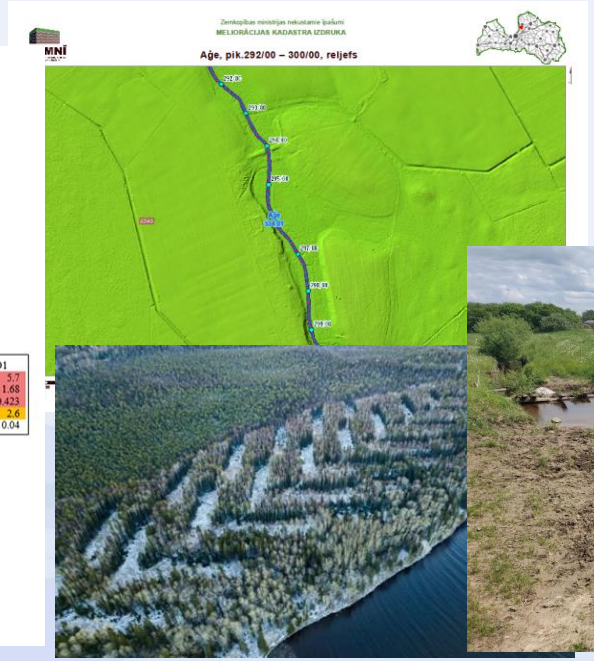
SPECIFIC OBJECTIVES

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

- **research** in Aģe, Slocene, Auce and Ēda river basins;
- **green infrastructure solutions** such as buffer strips, wetlands, wood chips reactors, …







SPECIFIC OBJECTIVES

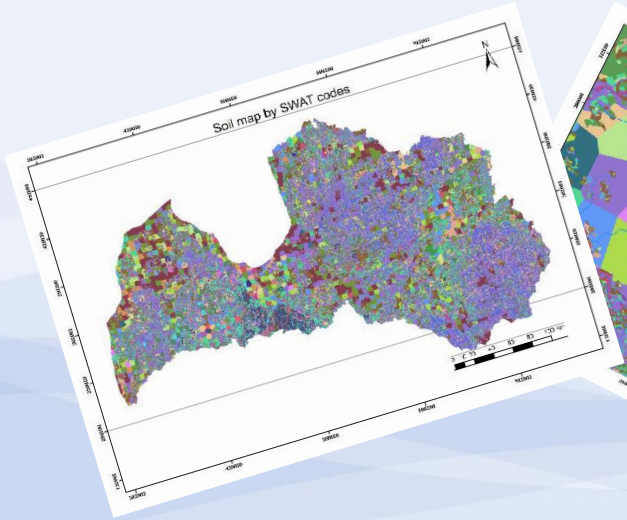
✓mitigate effects of **hydrological and morphological alterations**, focusing not only on barriers, but also on drainage systems:

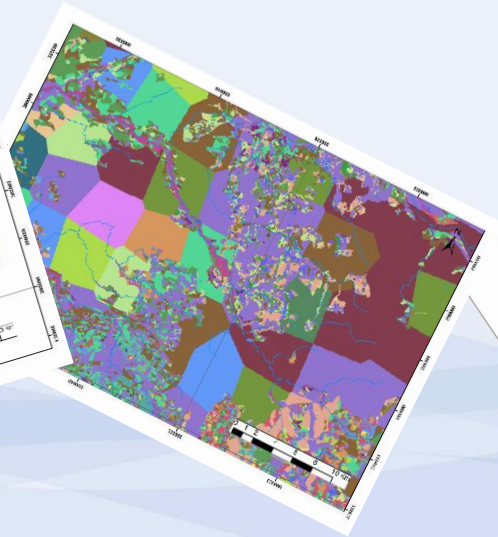
- **Hydromorphological survey of 4 rivers (RHS & THS)** along their entire length (Aģe, Mergupe, Auce and Zaņa);
- **inspection of drainage systems** and construction of environmentally friendly elements, incl. culvert reconstruction
- **calculation of ecological flow regime** for 7 HPPs in 4 rivers
- **construction of a fish pass** (on Aģe HPP)

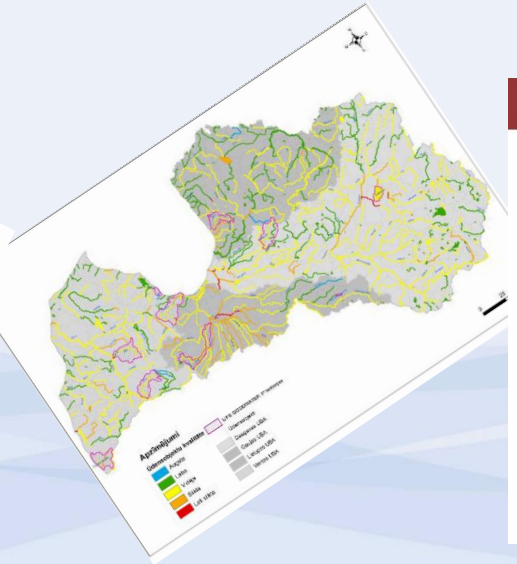
SPECIFIC OBJECTIVES

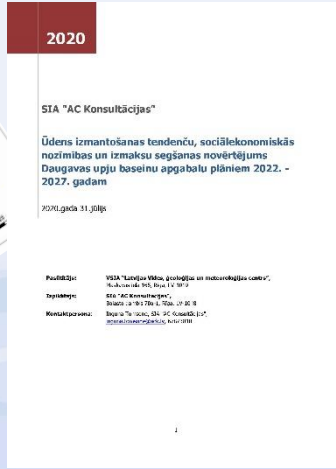
✓improvement of **river basin management planning** and implementation mechanisms:

- **intensive monitoring** in the project's rivers and lakes;
- **SWAT+ model** for determination of nitrogen and phosphorus loads;
- development of 3rd and 4th cycle **river basin management plans**









SPECIFIC OBJECTIVES

✓**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 management 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 developed (wastewaters, agriculture, forestry, aquaculture) **https://macies.goodwater.lv/**;
- river clean-ups, exhibitions and landscape tours;
- a small grant program for local cooperation and involvement:
  - **8 initiatives** approved (implemented / in process)

REDUCING IMPACT OF HYDROMORPHOLOGICAL MODIFICATIONS

✓**Improvement of habitat quality**

- **Fish spawning places**
- **River crossing places (cows)**

REDUCING IMPACT OF HYDROMORPHOLOGICAL MODIFICATIONS

✓Diversifying habitats, using wooden constructions

REDUCING IMPACT OF HYDROMORPHOLOGICAL MODIFICATIONS

- ✓Improvement of natural water flow (clean-up events)

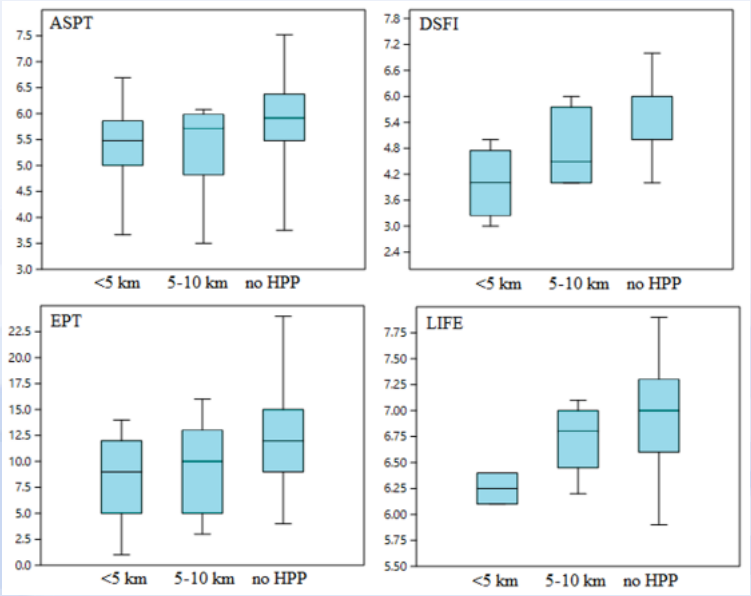
REDUCING IMPACT OF HYDROMORPHOLOGICAL MODIFICATIONS

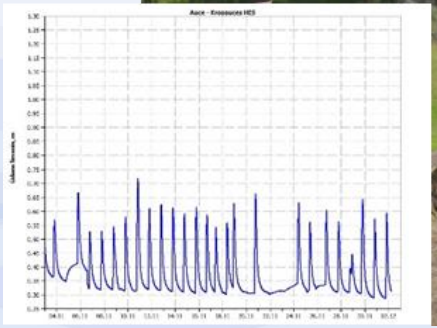
- ✓Removing of barriers – smaller and bigger
- ✓Reconstruction/ improvement of culverts

REDUCING IMPACT OF HYDROMORPHOLOGICAL MODIFICATIONS

✓**Hydropwerplants:**

- **Construct fish pass;**
- **Ensure ecological flow regime;**
- **Avoid hydropeaking**





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LET THE WATERS FLOW!

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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 State Regional Development Agency Republic of Latvia.

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