



LIFE GoodWater IP activities for improvement of ecological water quality in Latvia

Linda Fībiga, 13.05.2022,

DAML

EU LIFE Programme integrated project

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



Latvia University of Life Sciences and Technologies



UNIVERSITY OF LATVIA



BIOR



ABOUT PROJECT

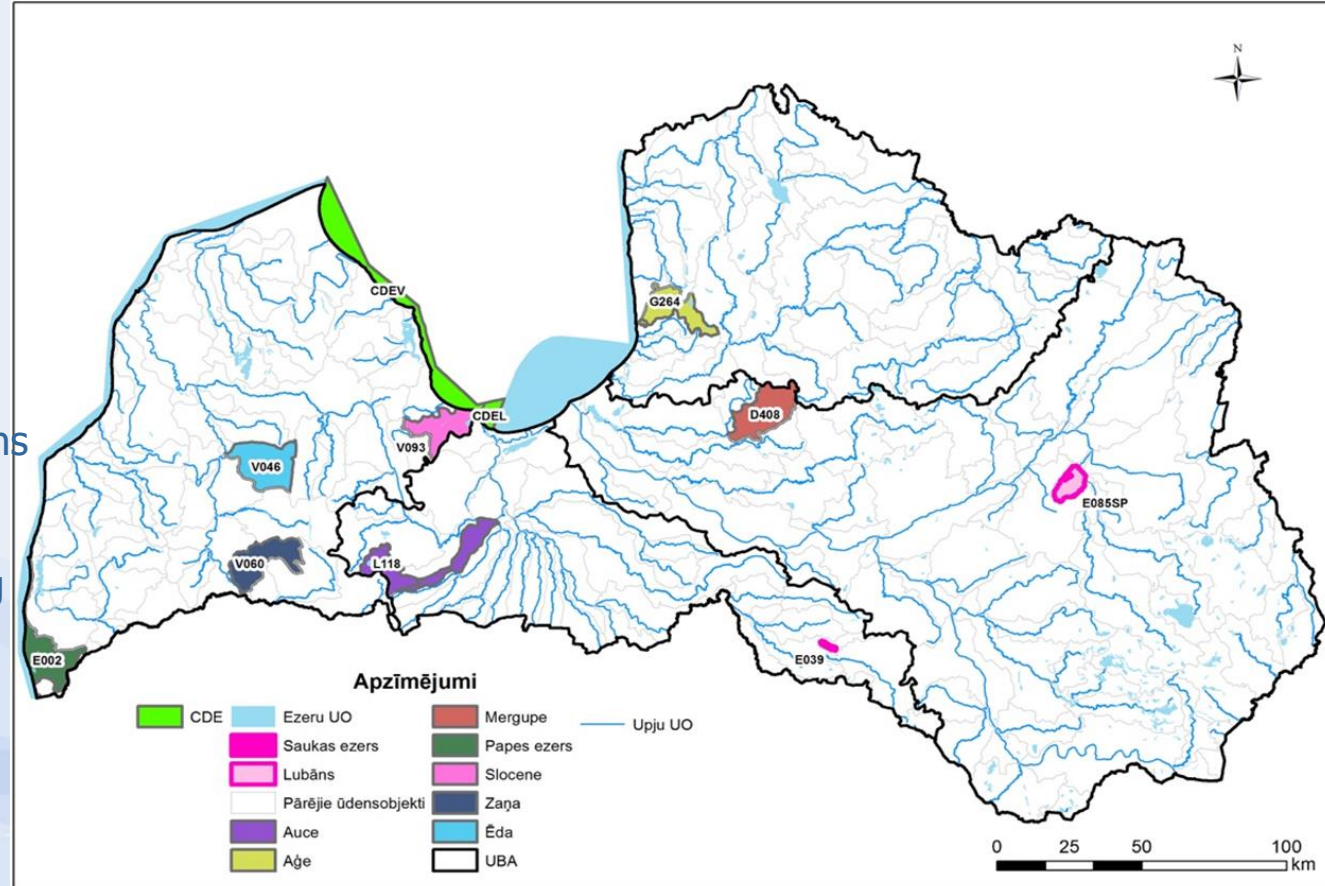
01.01.2020. – 31.12.2027.

19 partners:

- LEGMC
- ministries
- scientific organizations
- municipalities
- NGOs
- companies managing State property

9 water bodies

14 M EUR



THE AIM OF PROJECT

To improve the status of water bodies at risk in Latvia by means of the full implementation of the measures laid down in the Daugava, Gauja, Lielupe and Venta river basin management plans

POINT SOURCE POLLUTION

58 rivers, 61 lakes

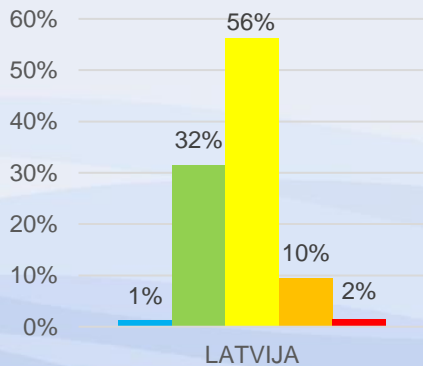
DIFFUSE SOURCE POLLUTION

44 rivers, 31 lakes

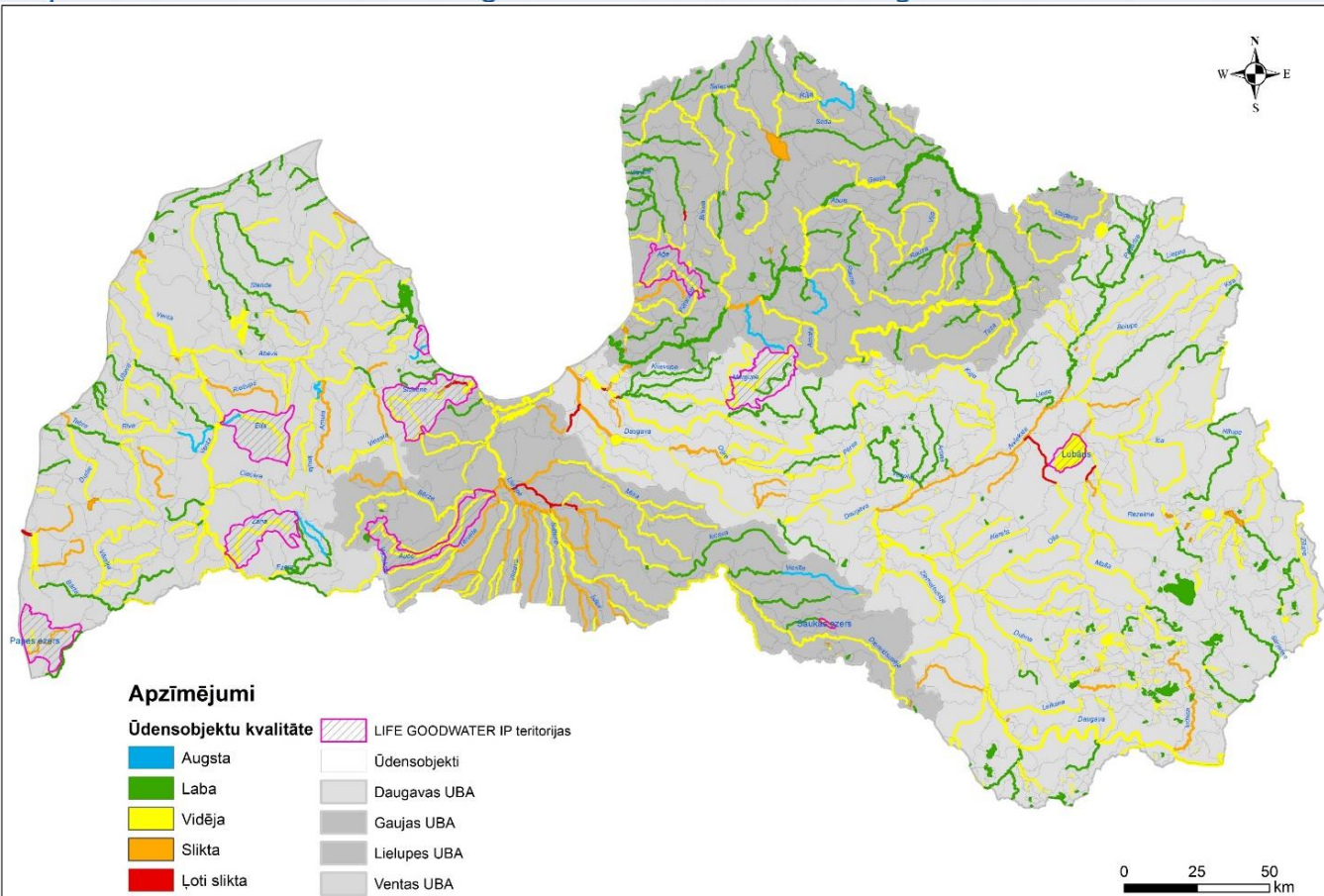
HYDROMORPHOLOGICAL ALTERATIONS

63 rivers, 18 lakes

ECOLOGICAL WATER QUALITY IN 2020



■ augsta ■ laba ■ vidēja
■ slikta ■ ļoti slikta

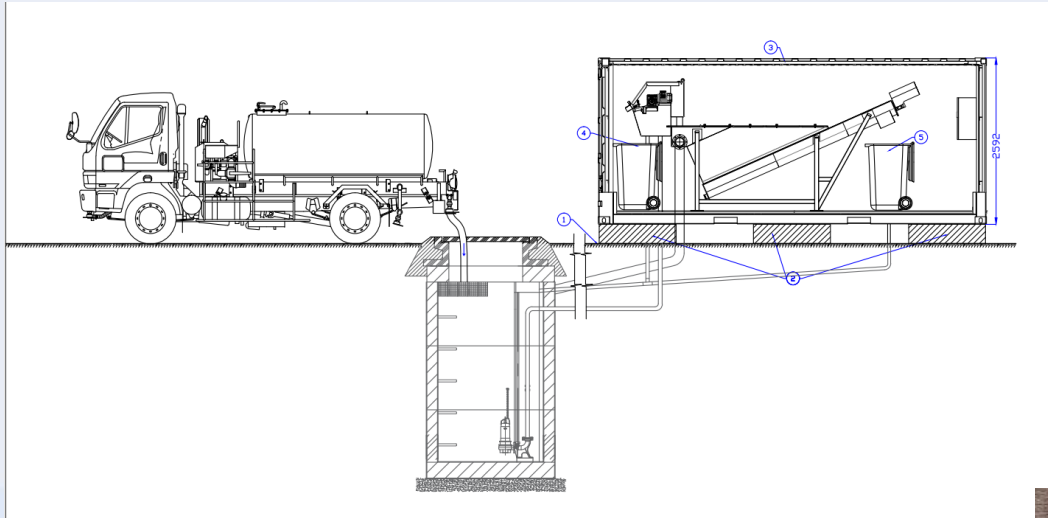


SPECIFIC OBJECTIVES

- to reduce point source pollution (wastewater)
- to reduce the diffuse source pollution – runoff of nutrients and other pollutants from agricultural and forestry lands, especially in the winter period;
- to reduce or mitigate the effects of hydrological and morphological alterations of water bodies at risk, including those caused by renovation / reconstruction of drainage systems & HPPs
- to improve river basin management planning and its implementation mechanisms
- to increase the awareness of various stakeholders and to promote their involvement in the implementation of the RBMPs
- to provide support to respective authorities for improvements of respective legislative and regulatory documents and policies

REDUCTION OF POINT SOURCE POLLUTION

- A3 Preparatory activities for reducing pollution from point sources, including sewerage systems – *in Engure and Nākotne villages*
- A4 Development of recommendations for management of the lake – *Sauka lake*
- C2 Improving capacity for efficient sewage sludge and wastewater management – *development of National sewage sludge management strategy*
- C4 Reducing pollution pressures from aquaculture on WBs – *survey of potential impact of aquaculture enterprises and elaboration of recommendations*
- C7 Demonstration and pilot activities for reducing pollution from point source including sewerage systems – *practical construction works in Engure and Nākotne villages*
- C8 Demonstration actions to improve water status of demo lake – *practical construction works*



Technical layout scheme of Engure WWTP



Plankton sampling in Sauka lake

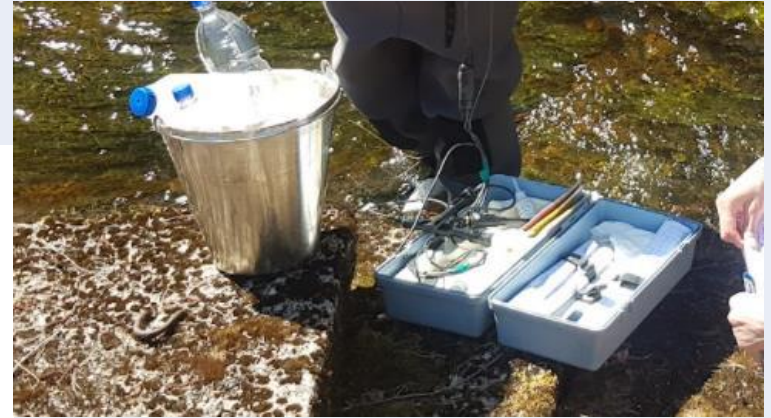
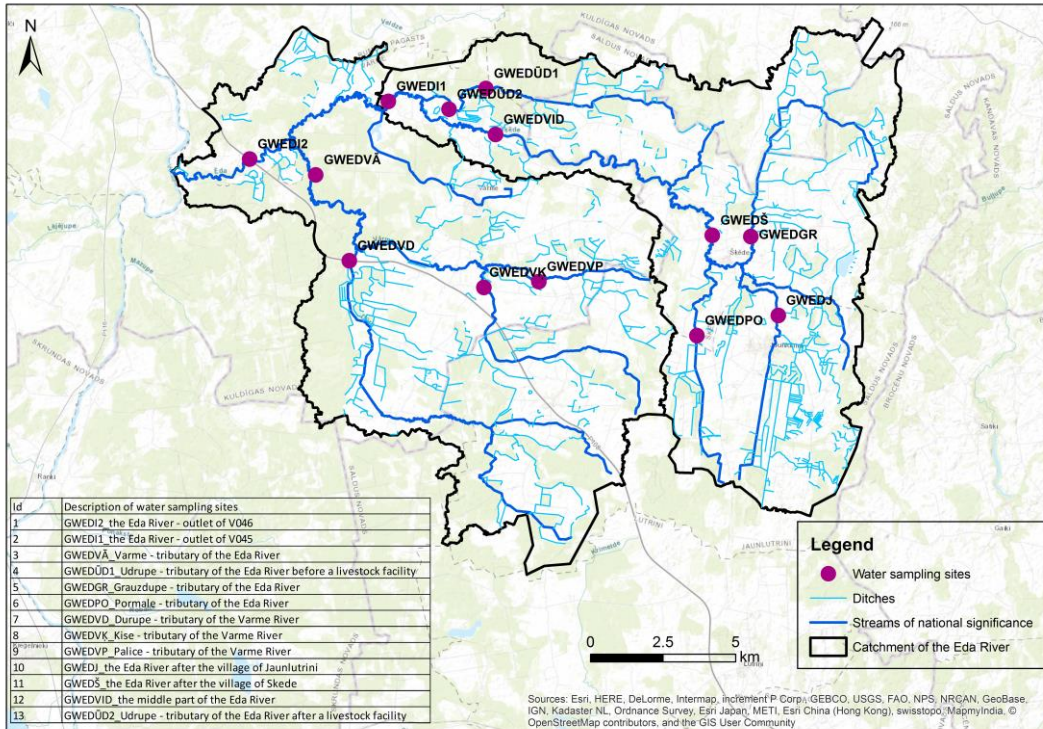
Effluent of
aquaculture
systems



REDUCTION OF DIFFUSE SOURCE POLLUTION

- A1 Preparatory activities for reducing pollution with nutrients from agriculture – *detailed monitoring in demonstration WB, selection of potential measures, selection of appropriate areas for measures*
- A2 Preparatory activities for reducing pollution with nutrients from forestlands – *detailed monitoring in demonstration WB Aģe, selection of potential measures, selection of appropriate areas for measures*
- C5 Demonstration activities for reducing pollution with nutrients from agriculture – *implementation of measures*
- C6 Demonstration activities for reducing pollution with nutrients from forestlands – *implementation of measures*

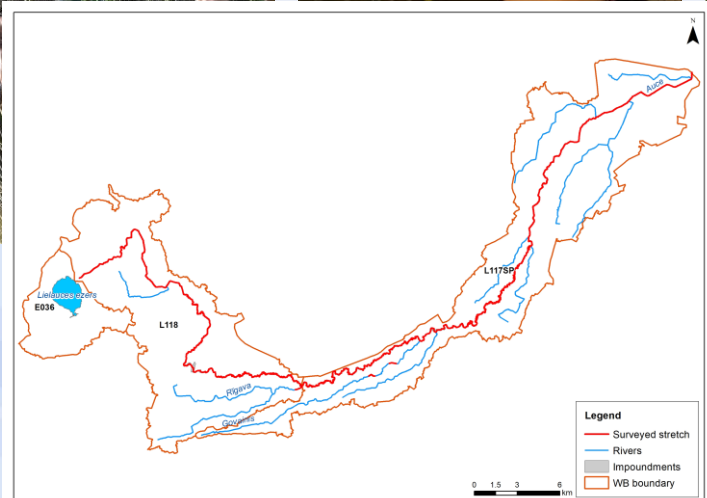
Monitoring



HYDROMORPHOLOGICAL ALTERATIONS

- A5 Preparatory works for reducing effects of hydrological and morphological modifications on WBs at risk – *mapping of rivers, prioritisation of measures*
- C3 Assessment of natural flow regime in the WBs at risk affected by small HPPs – *field works, modelling, estimation of E-flow*
- C9 Demonstration actions for reducing effects of hydrological and morphological modifications on WBs at risk – *practical measures in drainage systems, reconstruction of culverts, construction of fish pass*

Mapping of rivers



New obstacles



Ecological flow – field works



Let the clean 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. www.goodwater.lv

The information reflects only the LIFE GOODWATER IP project beneficiaries’ view and the European Climate, Infrastructure and Environment Executive Agency (CINEA) is not responsible for any use that may be made of the information contained therein.



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