BIOR

INSTITUTE OF FOOD SAFETY, ANIMAL HEALTH AND ENVIRONMENT

PRIORITIZATION OF SITES FOR REMOVAL OF OBSTACLES TO FISH MIGRATION IN LATVIA

KASPARS ABERSONS

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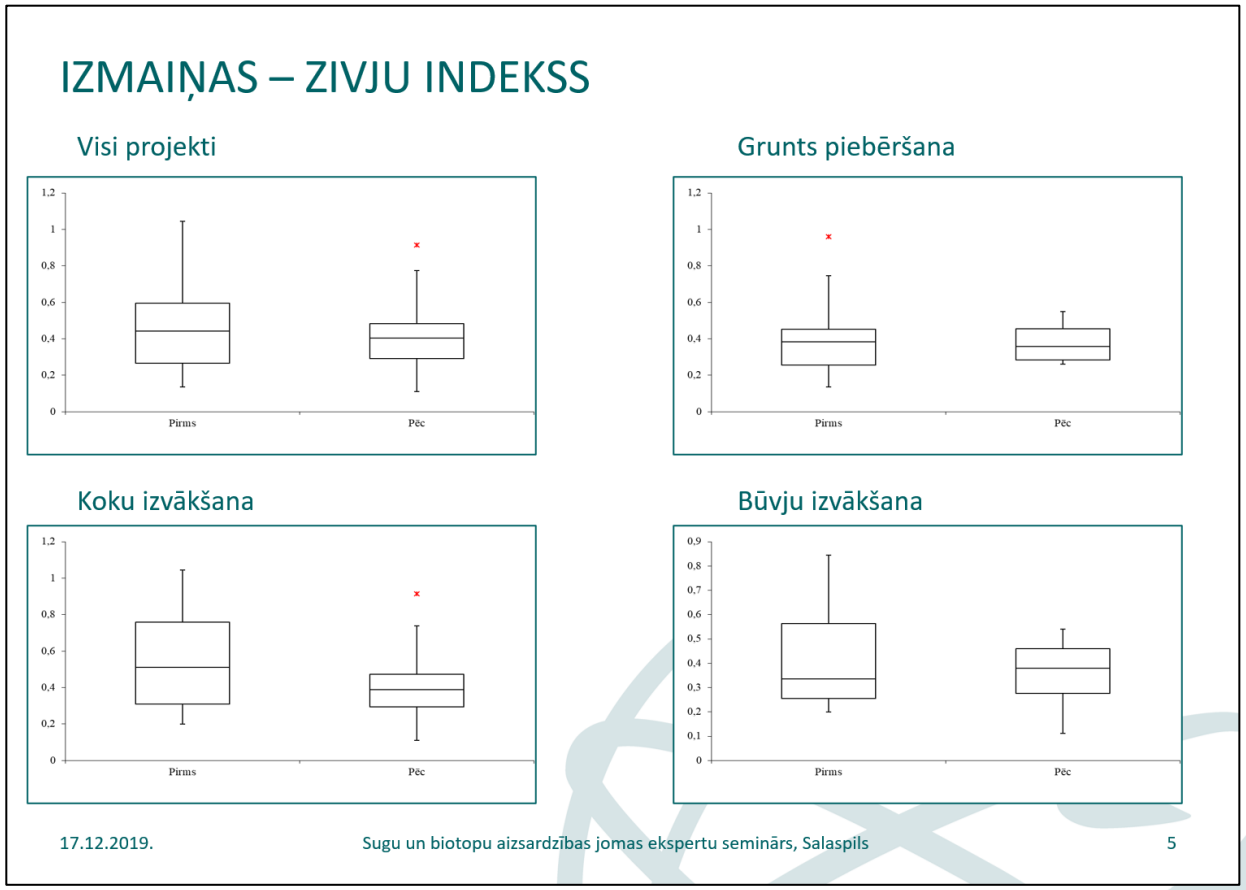
IMPULSE



December 17, 2019, ~15:00

Salaspils, seminar for experts of species and biotopes

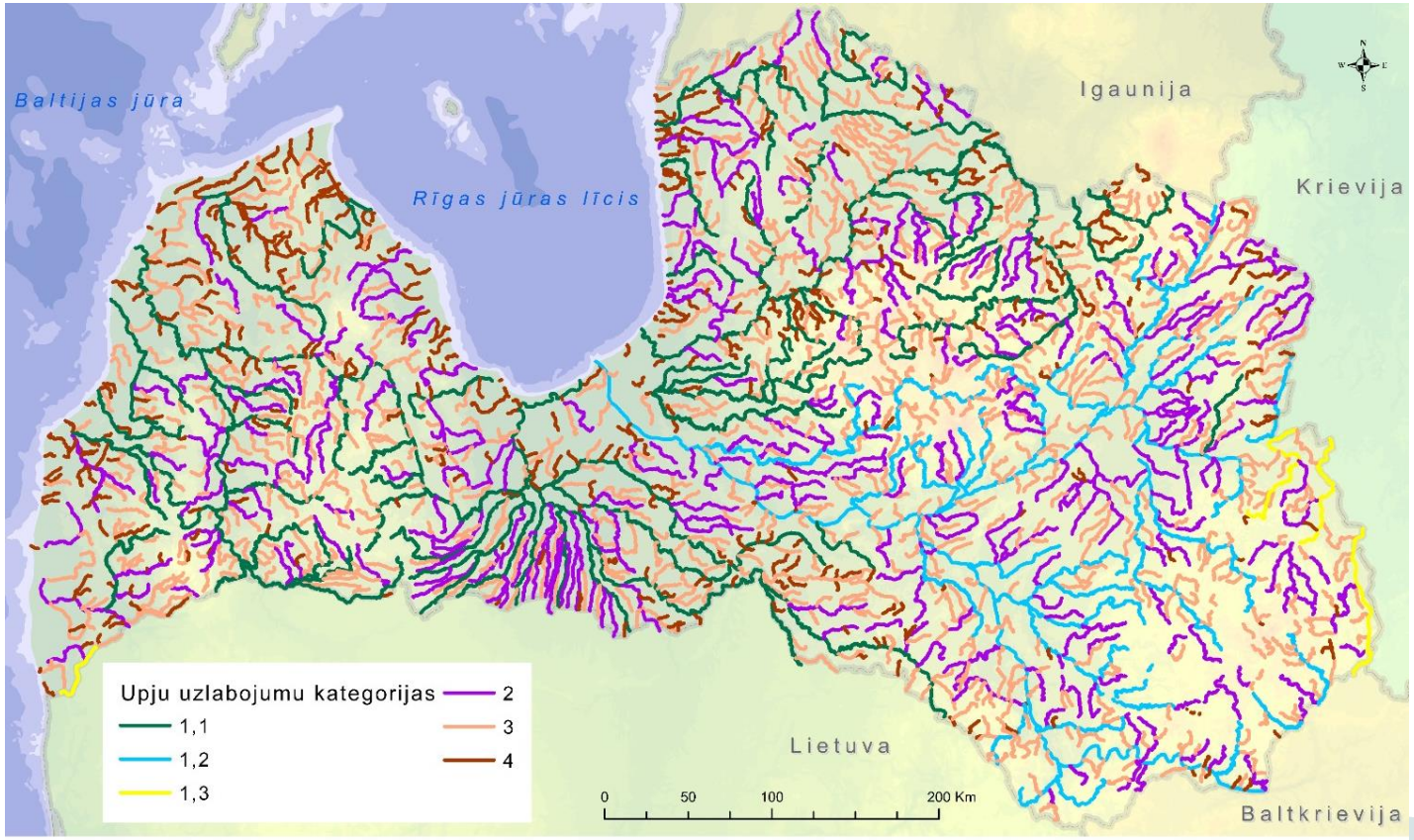
Question from the audience:

- "Do you expect anyone to be able to evaluate the potential of the river?"

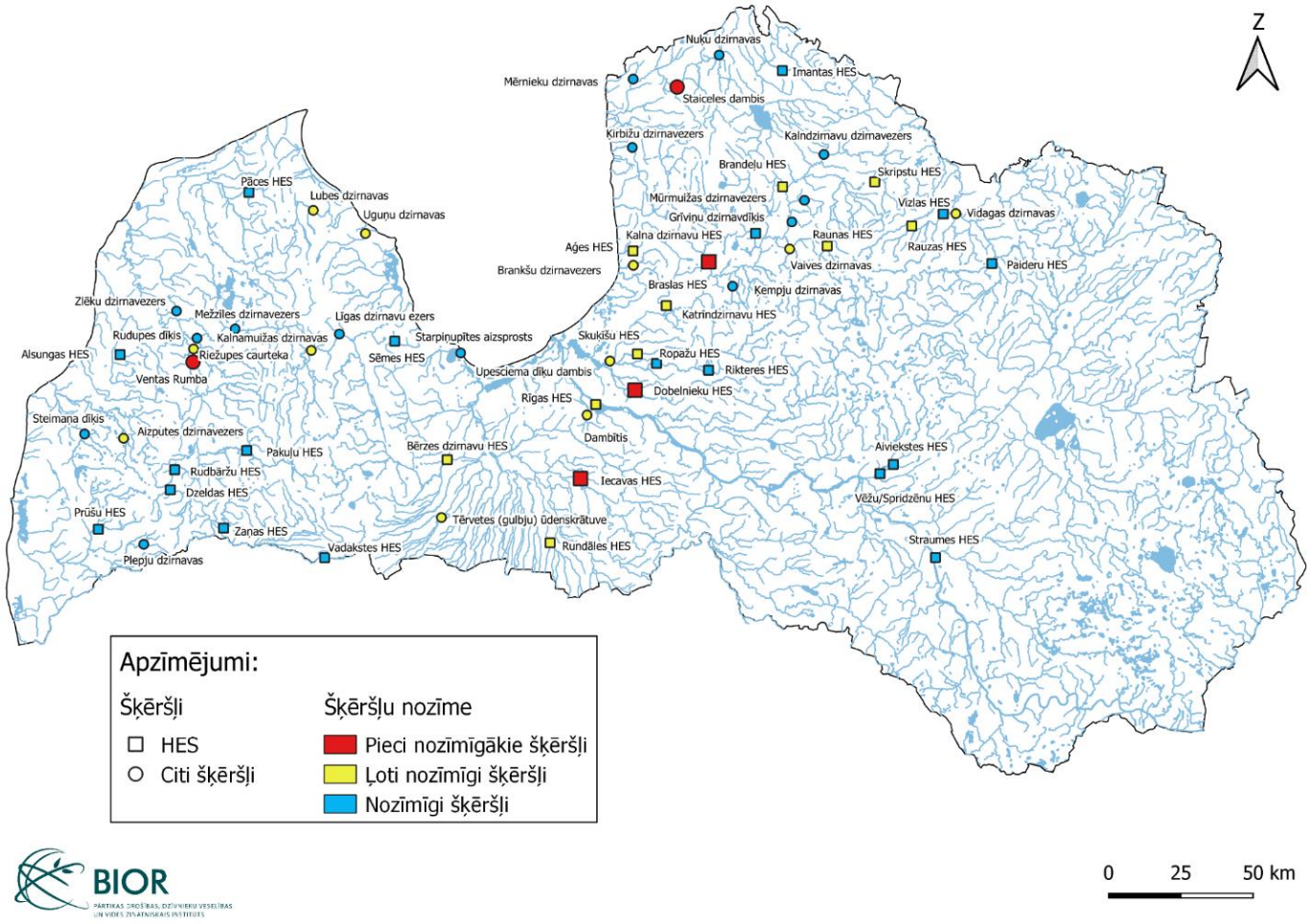
UNANTICIPATED PREPARATION

"River listing" project and (later) determination of conservation objectives for protected fish species:

- Creation and improvement of database
- Elaboration of the approach
- Creation and improvement of models
- Identiffication of most important barriers



NEXT STEP



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Another question from the audience:

- "How the map of TOP50 barriers can be used?"

In the end we applied for another project

TOP70 BARRIERS PROJECT

Aim:

- Feasibility study for 60 fish migration barriers

Result – database containing:

- List of applicable measures for each barrier
- Expected cost for each measure
- Benefit for migratory species for each measure

Backed by European Maritime, Fisheries and Aquaculture Fund!

STEP 1 - WHICH BARRIERS SHALL BE INCLUDED?

Initially – protolist of 100 barriers

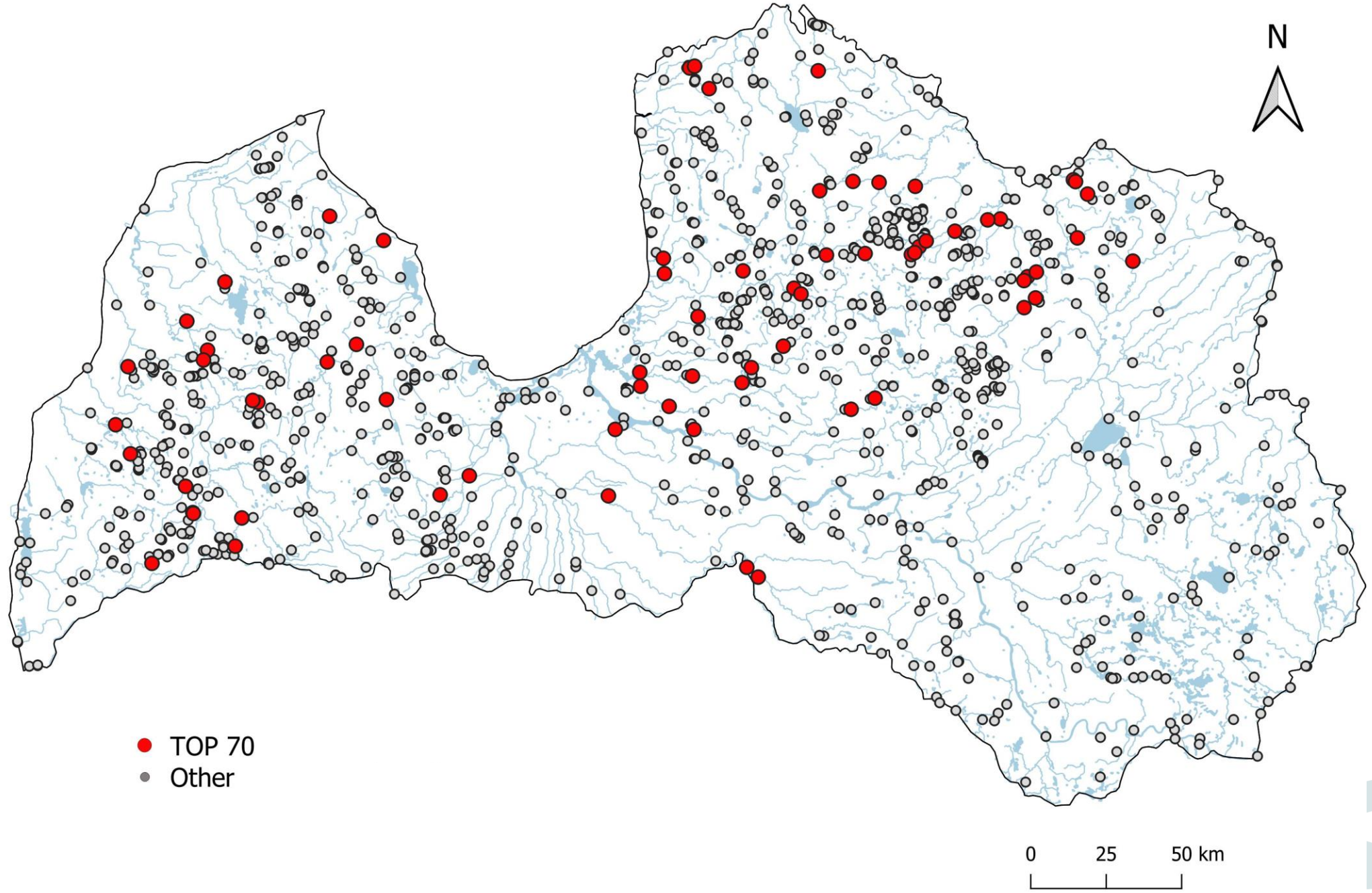
- Most important barriers from previous project
- Barriers in cascade with previous

Protolist discussed with experts and organisations:

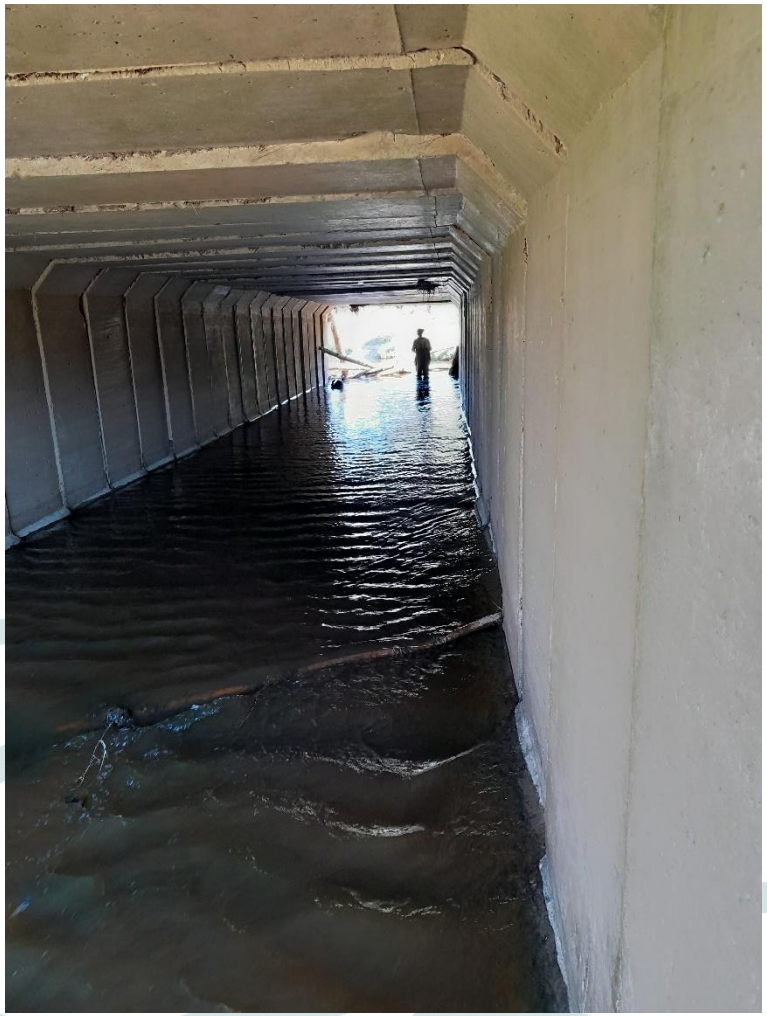
- Initially increased to 128
- Later reduced to 70

Some unexpected changes during implementation:

- But still 70 ☺


N
TOP 70
Other
0
25
50 km

STEP 2 – VISITING BARRIERS



STEP 2 –SOLUTIONS

List to choose from:

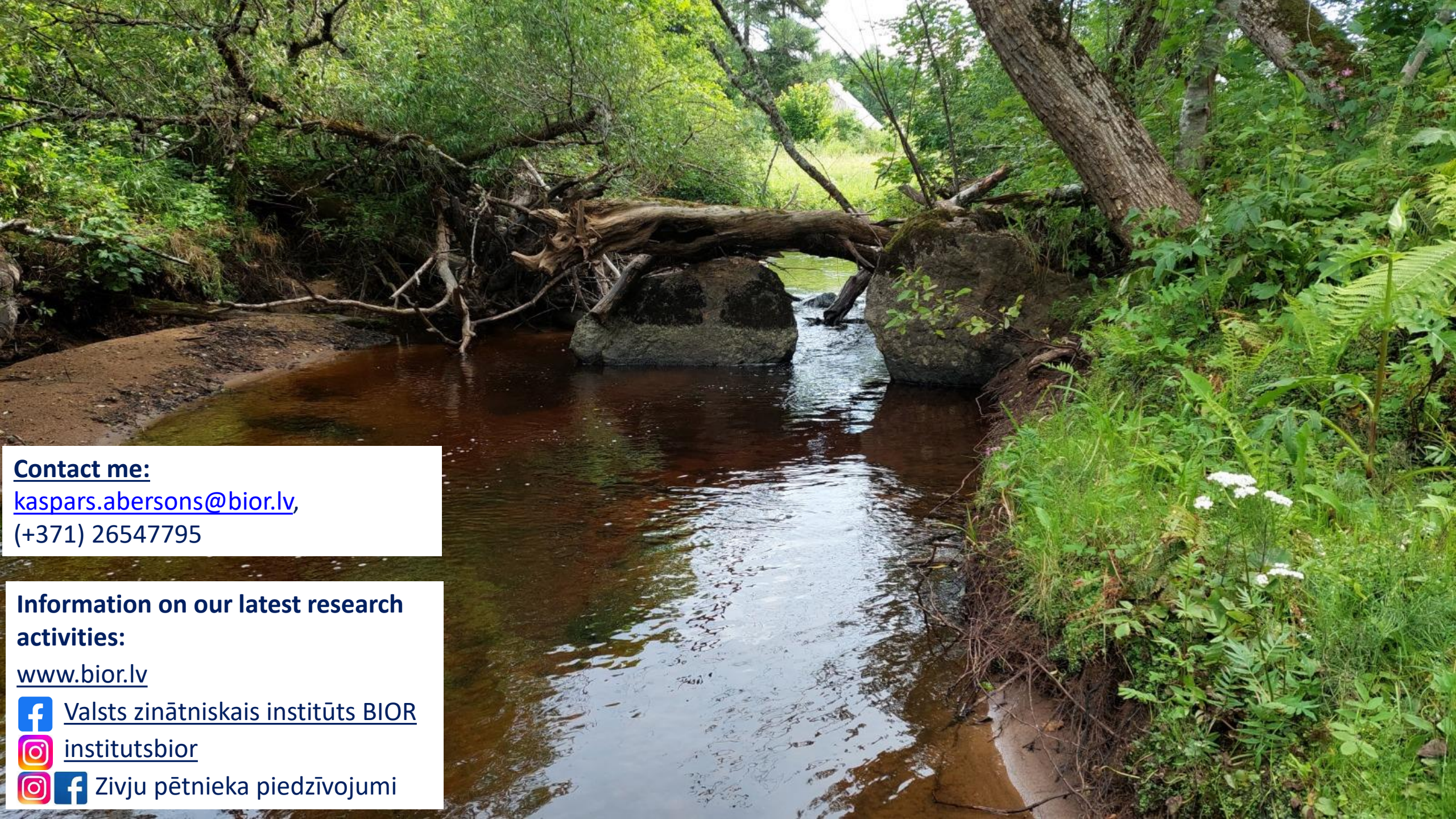
- Complete removal (and reconstruction of bridge)
- Partial removal (and reconstruction of bridge)
- Lowering of the head of barrier + artificial rapid
- Lowering of water level + artificial rapid
- Natural fish pass
- Technical fish pass

STEP 3

Lots of calculations and try and error experiences

STEP 4

Putting results into a database and running a final seminar



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Zivju pētnieka piedzīvojumi