

Restoration of hydromorphological quality of rivers in Latvia – within LIFE GoodWater IP and beyond it

Kaspars Abersons, Institute of Food Safety, Animal Health and Environment "BIOR"

EU LIFE Programme integrated project

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













































River restoration

A variety of measures aimed at restoring the natural state and functioning of the river system to support the ecological, recreation, flood management and landscape development.





What harms our rivers?

Straightening of riverbed

Migration barriers

Exploitation of HPP's

Land use

Pollution

Other human activities











Most popular measure in Latvia – cleaning of riverbed







In recent years – also other measures







Longitudinal connectivity

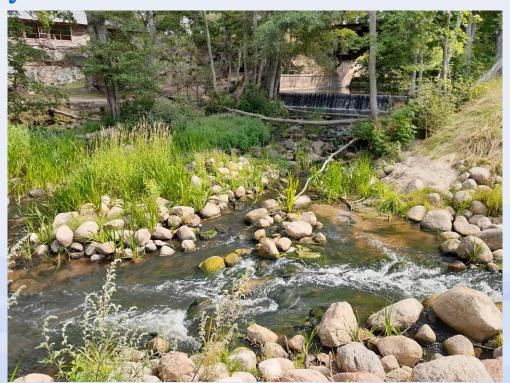
Very important measure

Implementation is rather complicated

Popularity is rising

Two approaches:

- complete or partial removal of barrier
- ensuring passage for fishes and invertebrates





Longitudinal connectivity

In Latvia only gaining momentum

Only two sites monitored, in both improvement is confirmed

In LIFE GoodWater IP:

- fish pass in Age HPP
- passage in at least two culverts
- other, as much as possible











Straightened riverbed

In Latvia:

- only few forced remeandering projects
- traditional way of channel maintenance is rather drastic

In LIFE GoodWater IP:

- less drastic channel maintenance
- artificial wetlands and spawning grounds
- construction of instream structures











Creating instream structures

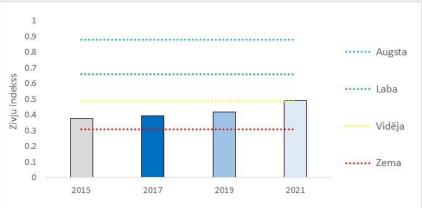
Worldwide: popular yet contradictory measure

In Latvia: very few registered projects, but many small-scale unregistered activities

In LIFE GoodWater IP:

- wooden constructions (started)
- artificial spawning grounds (planned)







Instream structures – GoodWater IP







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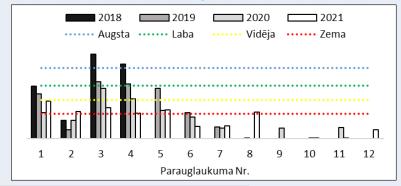
Cleaning of riverbed

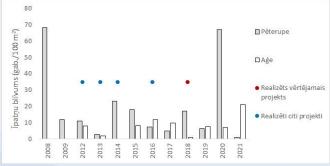
Dealing with consequences not causes

Sometimes the only possible solution

Most popular measure in Latvia

Can have good effect, but this effect is temporary









Cleaning of riverbed

Within GoodWater IP

Only once:

- to give a momentum to reach heavily clogged with sand and wood
- part of the wood was later returned





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Other activities

Sufficient ecological flow in HPP:

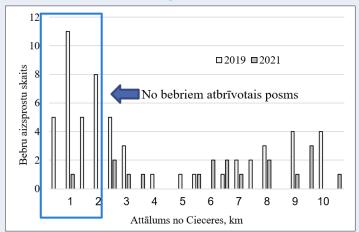
- we are ready to work with MesoHABSIM
- main struggle is to get the calculated e-flow in water permit

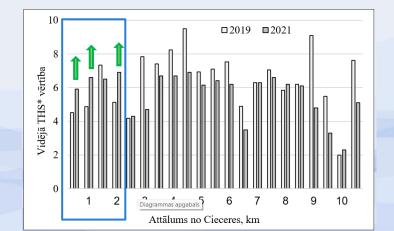
Reducing impact of beavers:

- destroying dams and limiting of population

Dealing with two-legged beavers:

- stone-pile weirs is a bad habit







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Thank you!

Contact me: kaspars.abersons@bior.lv













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