



The Torne River International Watershed LIFE

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Metsäkeskus
Forest Centre



Havs
och Vatten
myndigheten



Luke
NATURAL RESOURCES
INSTITUTE FINLAND



Elinkeino-, liikenne- ja ympäristökeskus
Närings-, trafik- och miljöcentralen
Centre for Economic Development, Transport and the Environment



METSÄHALLITUS
FORSTSTYRELSEN
MEAHCIRÁÐÐEHUS

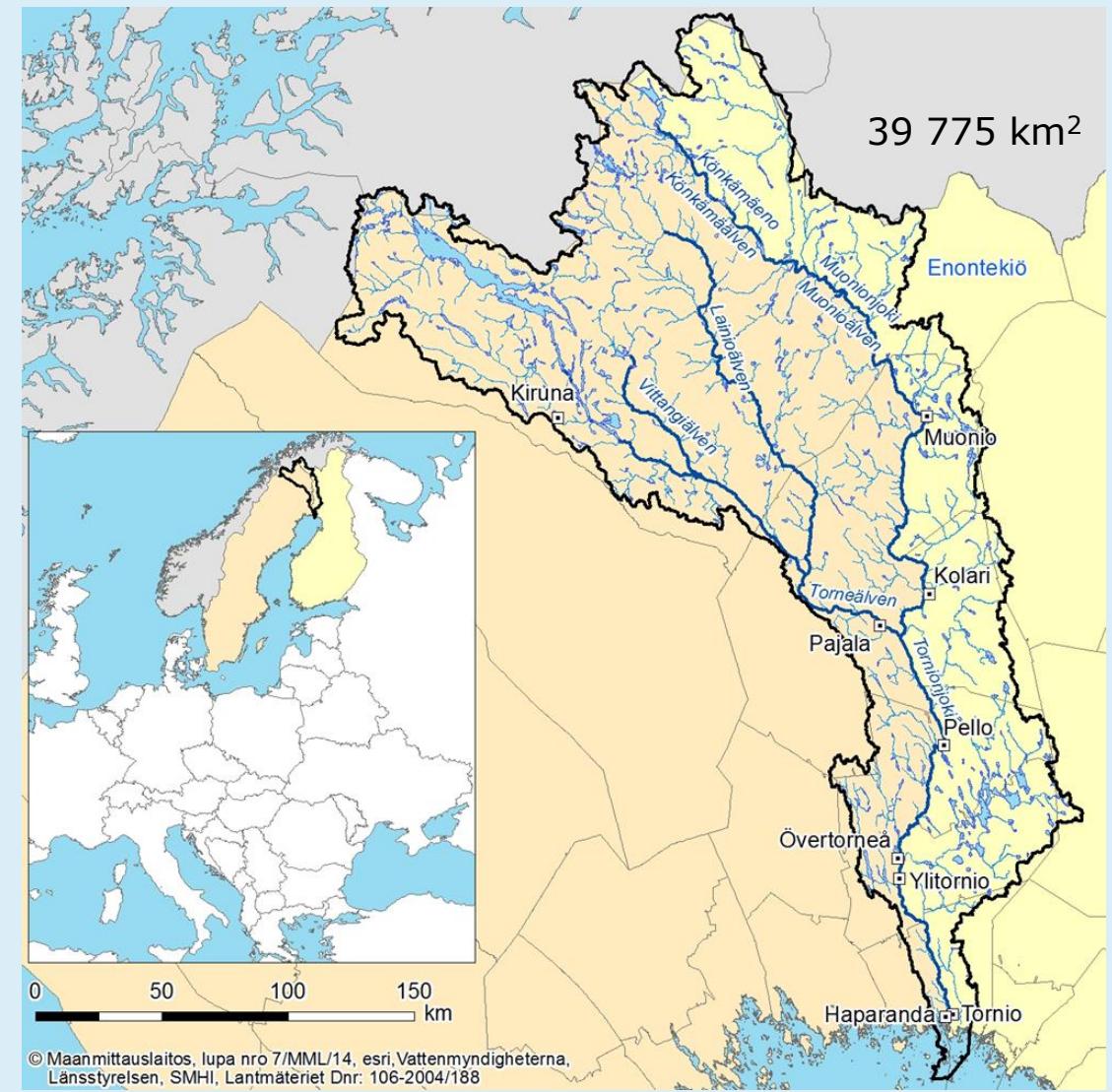


Project area: Torne river watershed

Budget: 21 million Euro

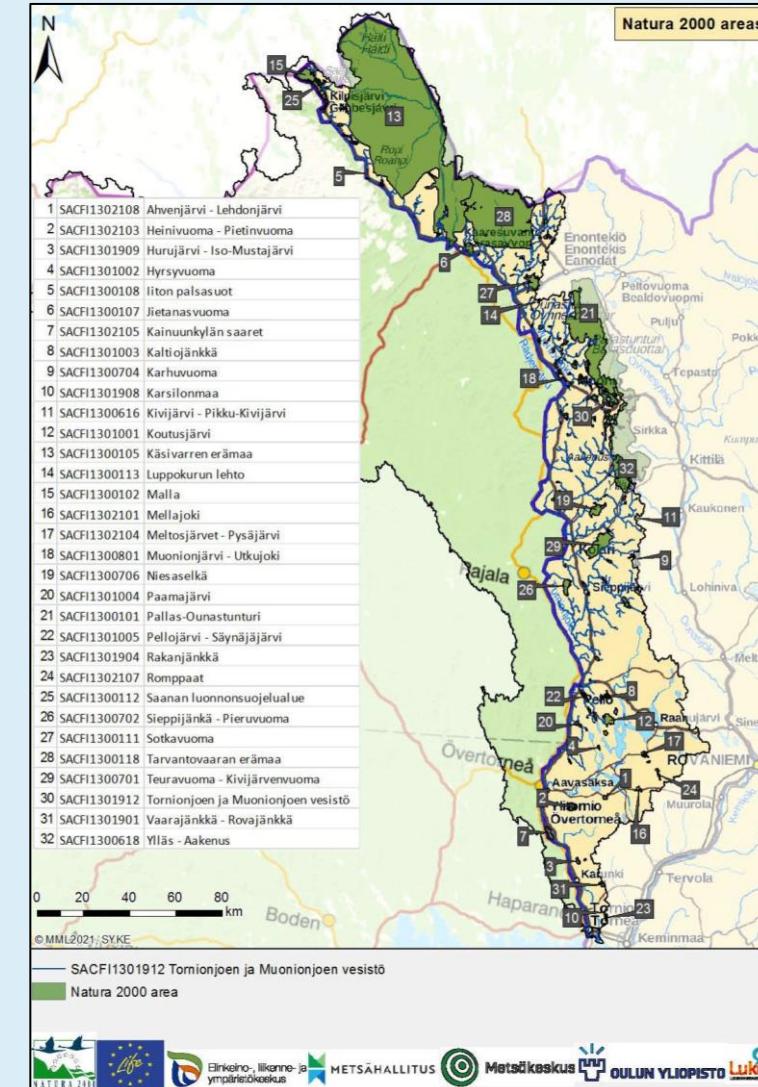
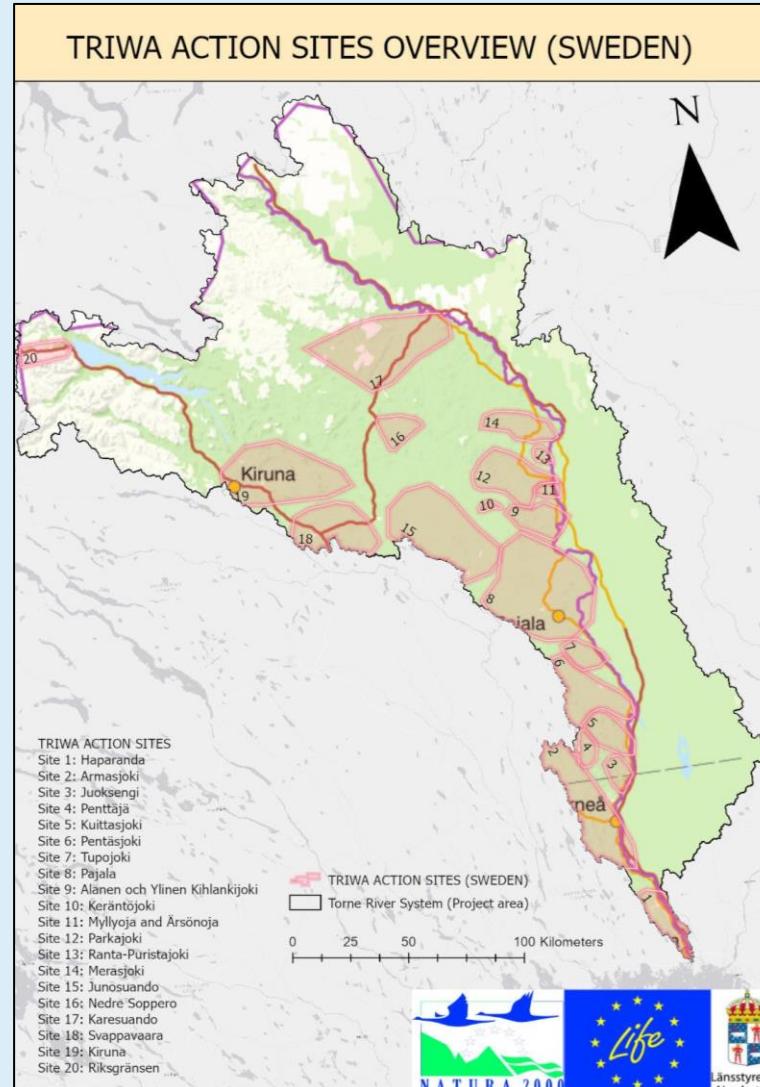
EU Co-funding: 60%

Project time: 2023-2030



The TRIWA project will take place in both Finland and Sweden

Action sites from mountain to coast



Natura 2000 areas

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Coordinating Beneficiary

County Administrative Board of Norrbotten (CABN)



Associated Beneficiaries

Centre for Economic Development, Transport and the Environment for Lapland (ELY)

Metsähallitus

Finnish Forest Centre (Metsäkeskus)

Sveaskog AB

University of Oulu

Natural Resources Institute Finland (Luke)

Swedish Agency for Marine and Water Management (SwAM)

Luleå University of Technology



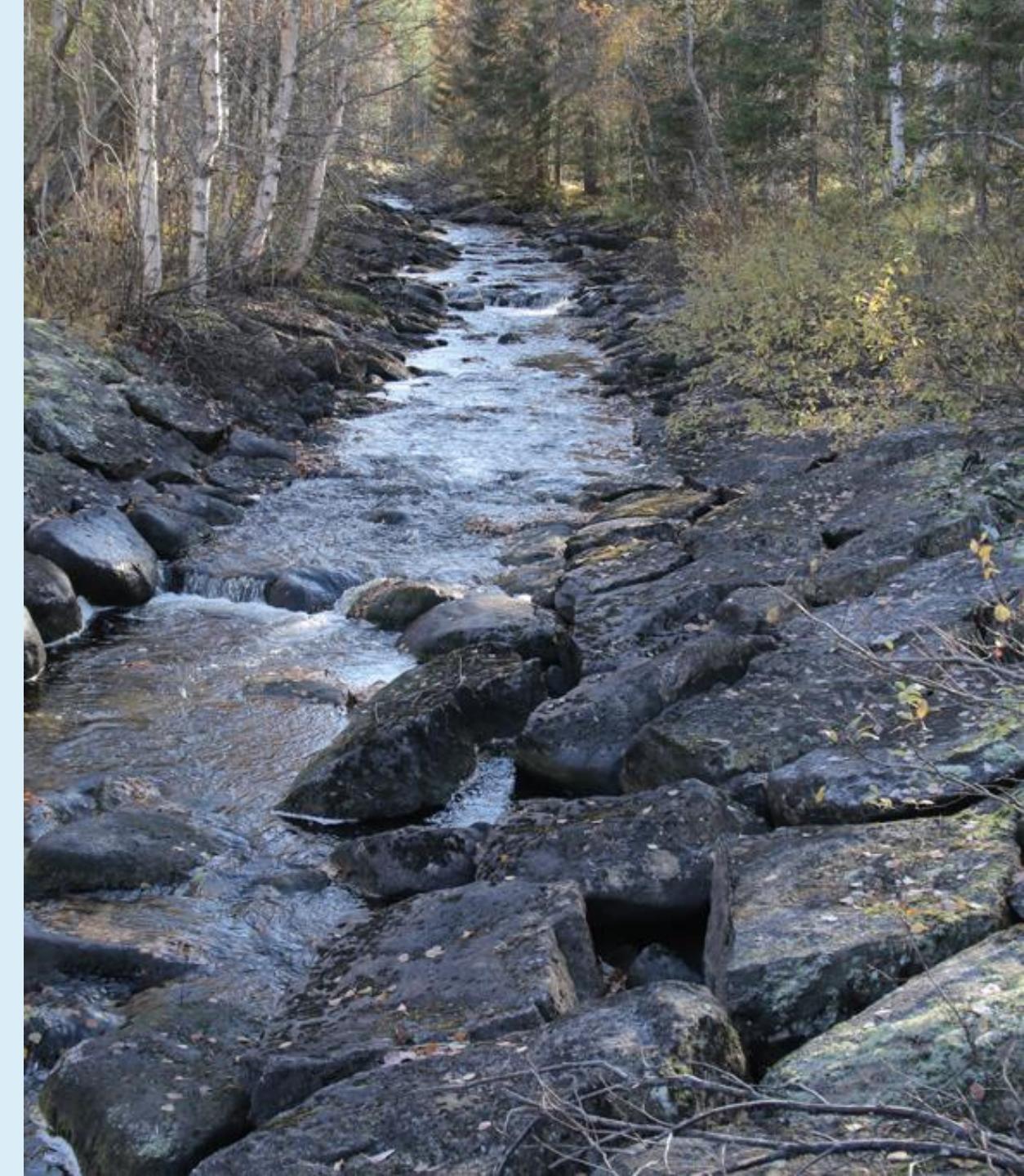
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Background

Historical human impact

- Timber floating
- Forestry roads
- Ditching





Timber floating



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Forestry



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Transportation



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Timber floating





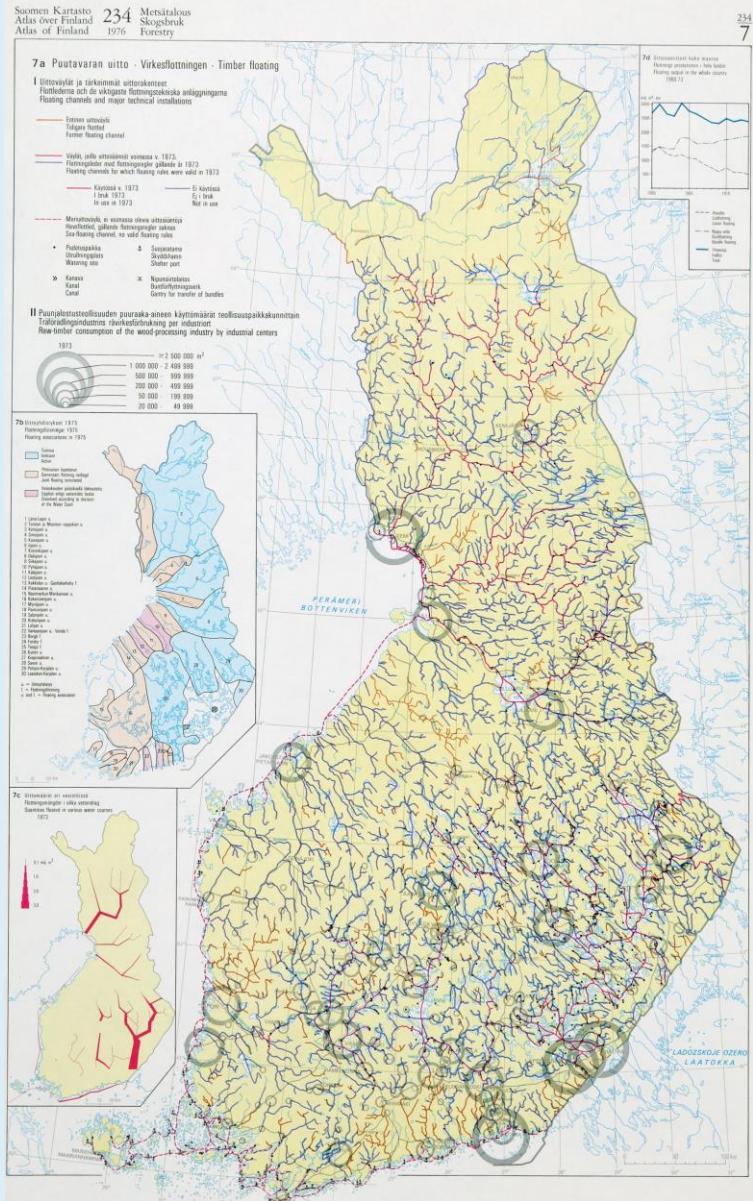
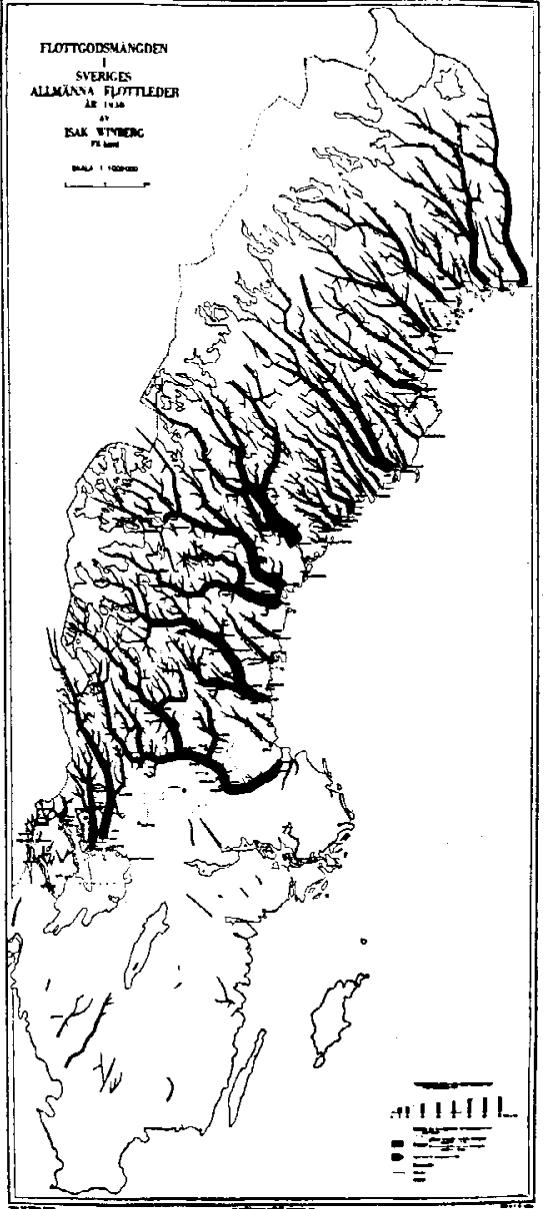
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A dangerous work



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Network for timber floating



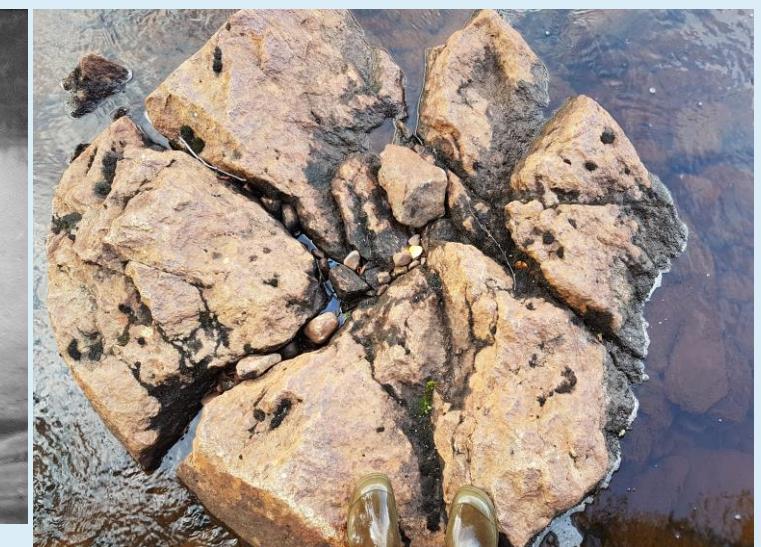
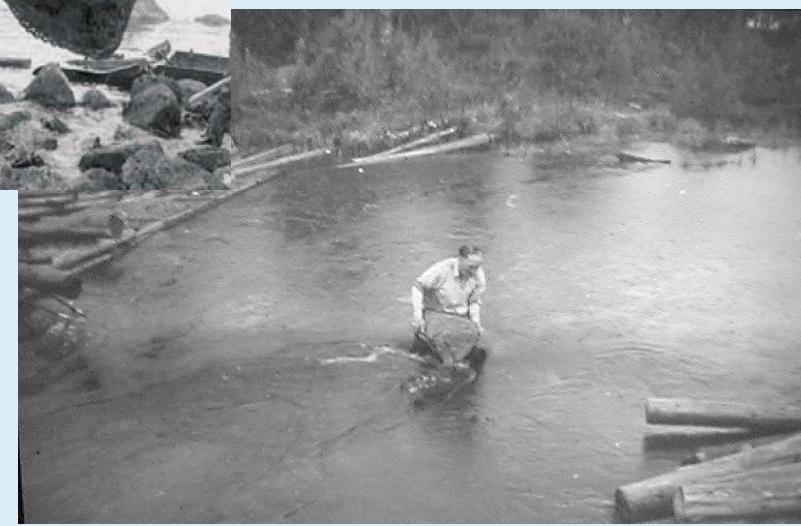
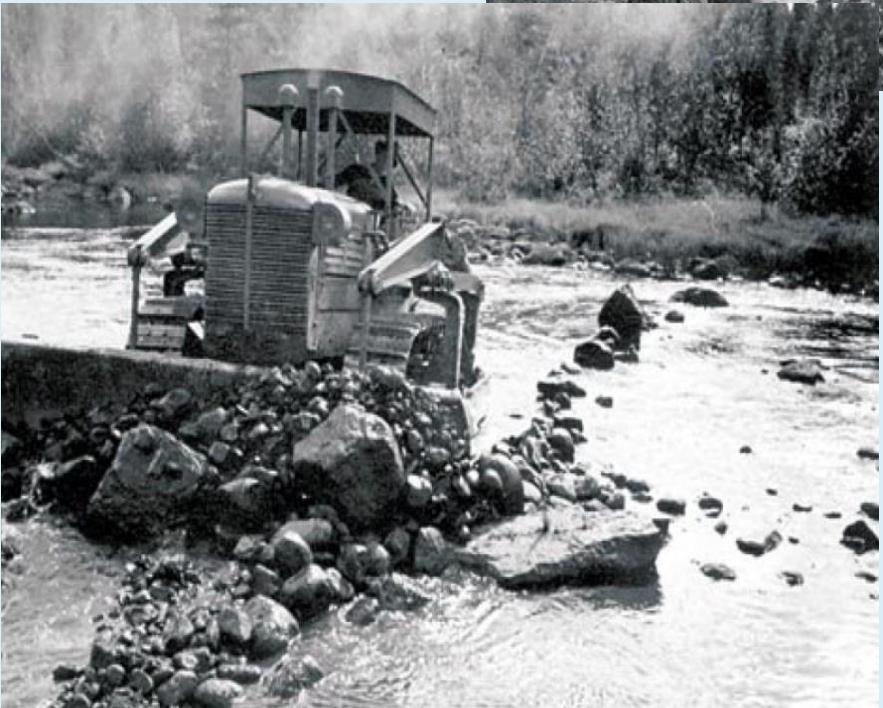
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Clearing and straightening of rivers and streams



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Removal of boulders and stones



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Restoration using excavators



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Restoration by hand



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Before

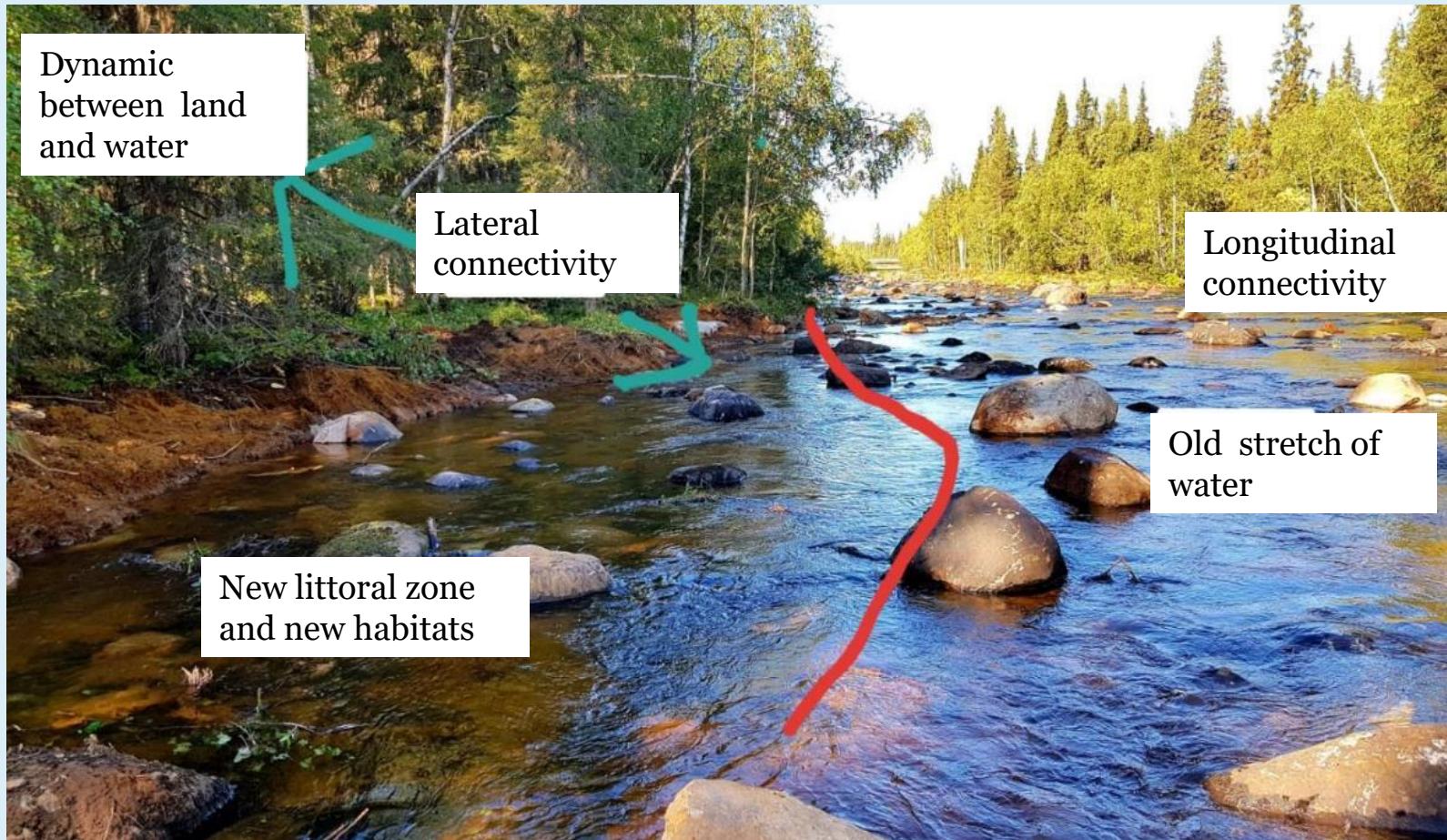
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Y 1693242**



After

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Y 1693242

Focusing on recreating natural processes and many different habitats



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Migration barriers



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Everyone can travel safe, easy and green!



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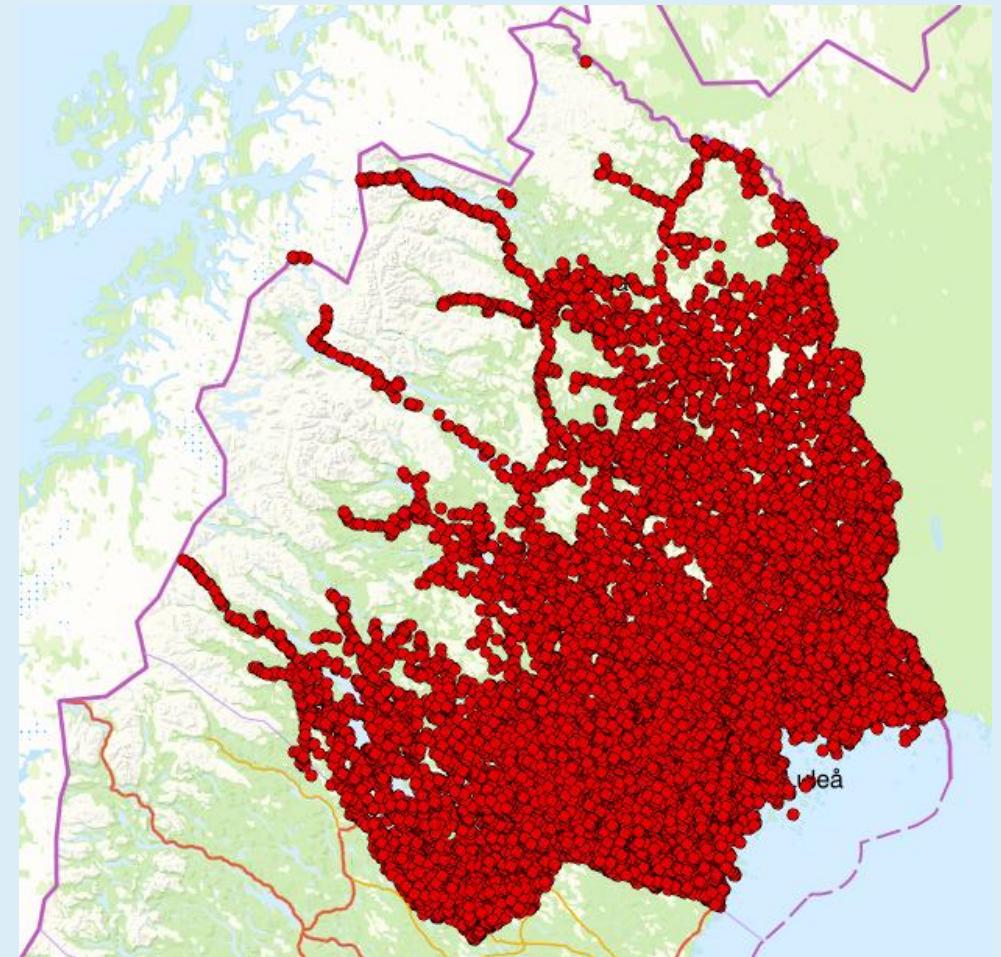
Everyone can travel safe, easy
and green!



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Approximately 20 000 road water crossings

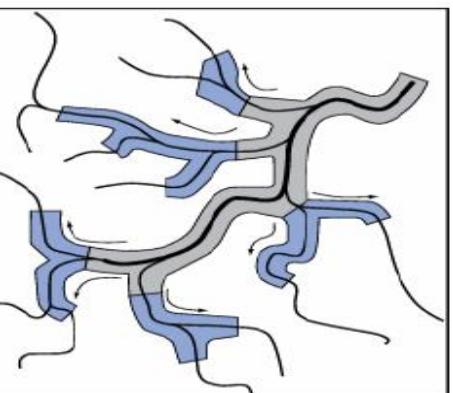
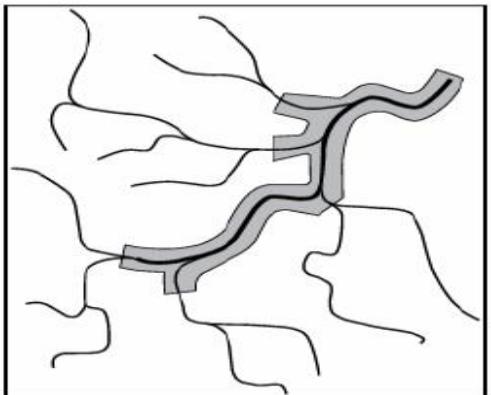
30% are migration barriers



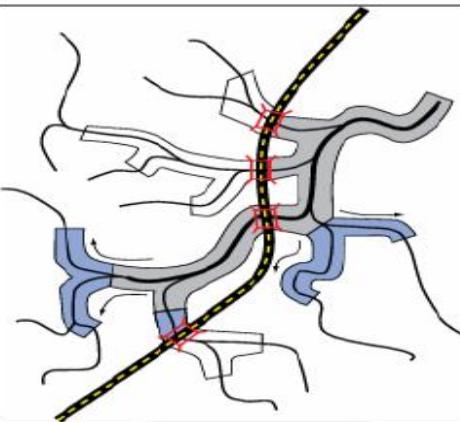
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Larger trout use
the mainstream



Spawning takes
place in the
tributaries



A road with
bad road
water
crossings can
affect an
entire
population!



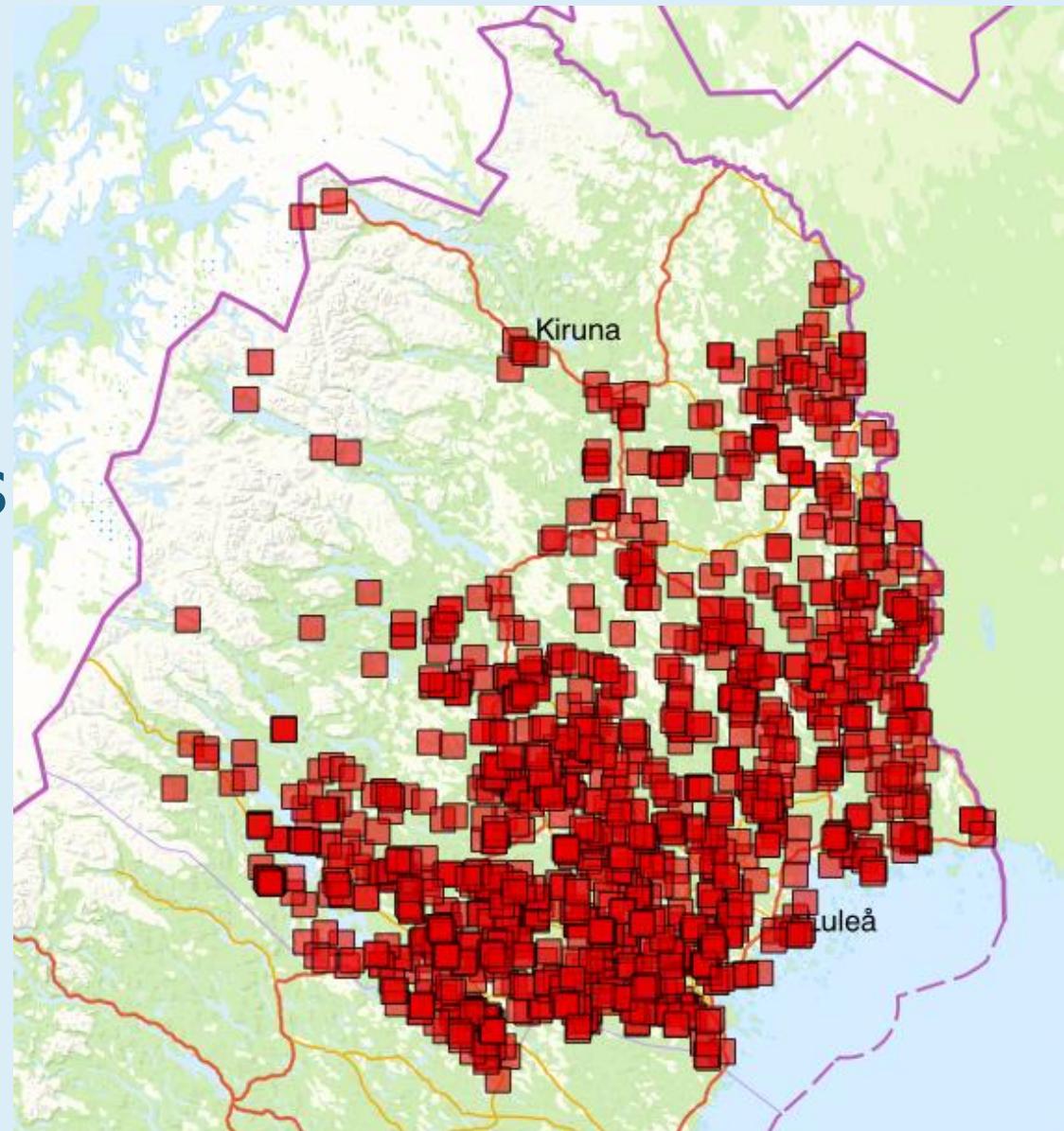
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Approximately 1 000 dams

50% are migration barriers





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Before





After

Before





After



Before



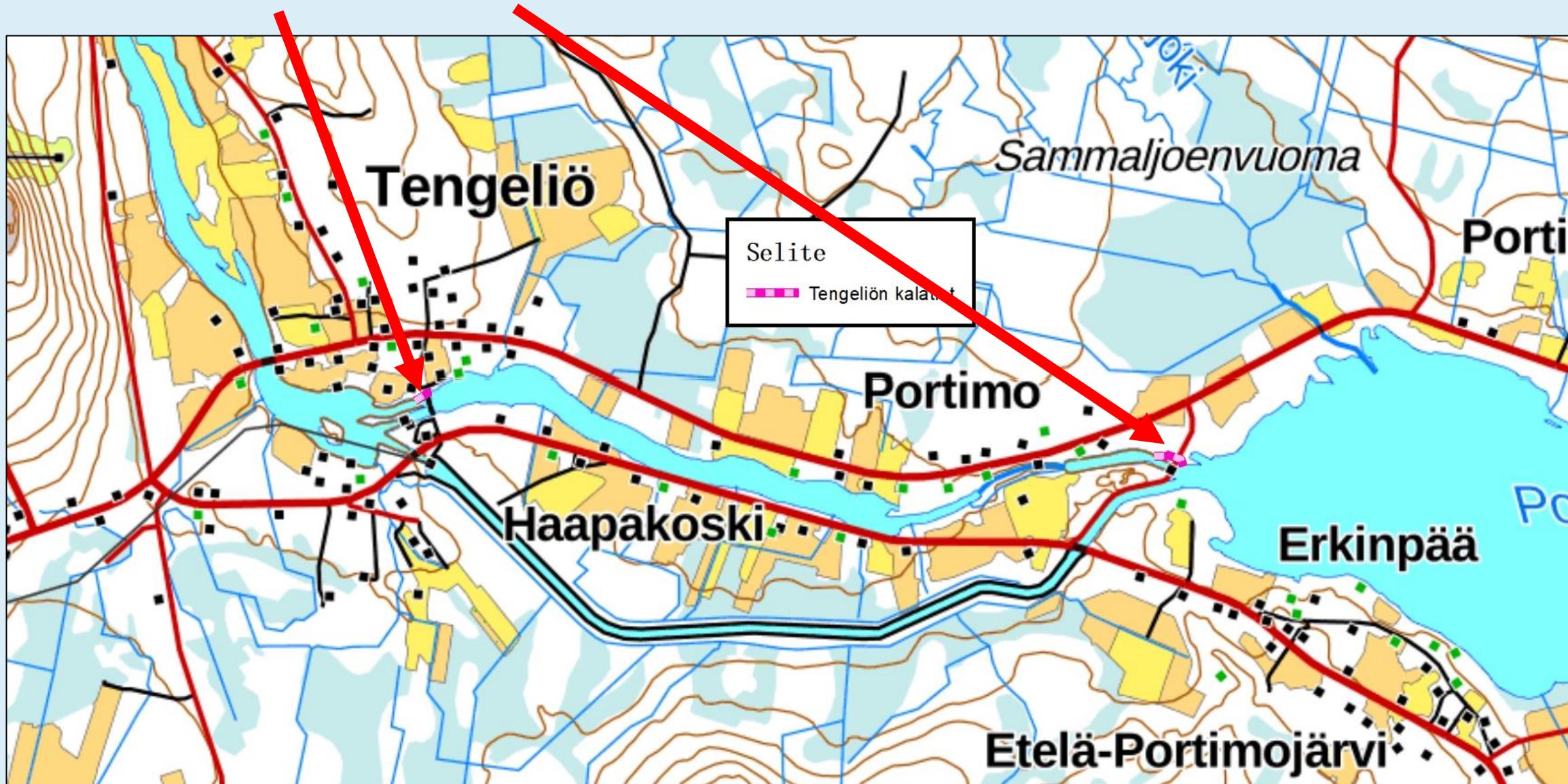


After



Hydropower dams in Tengeliönjoki

Two bypasses in Haapakoski and Portimokoski





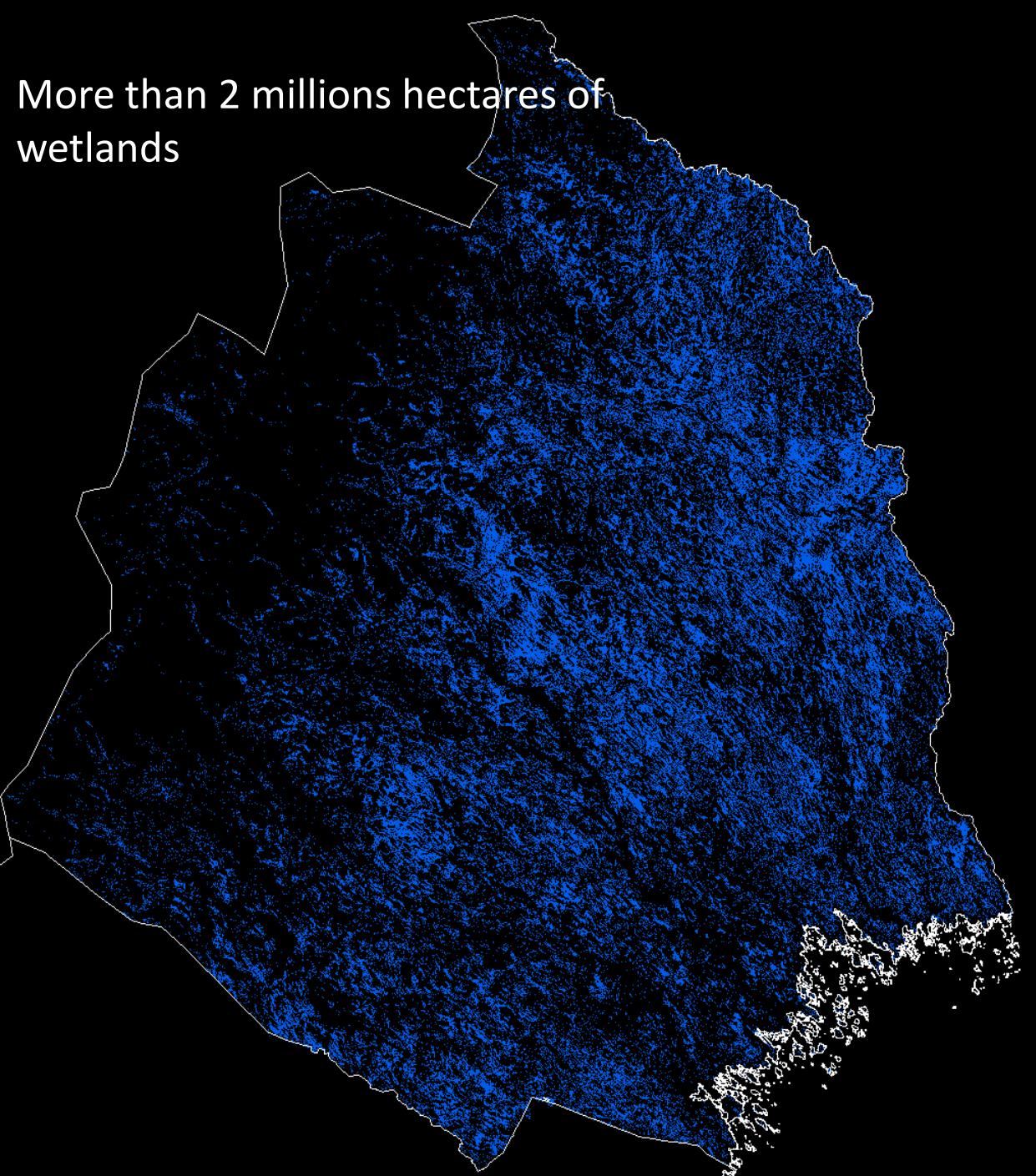


Wetlands

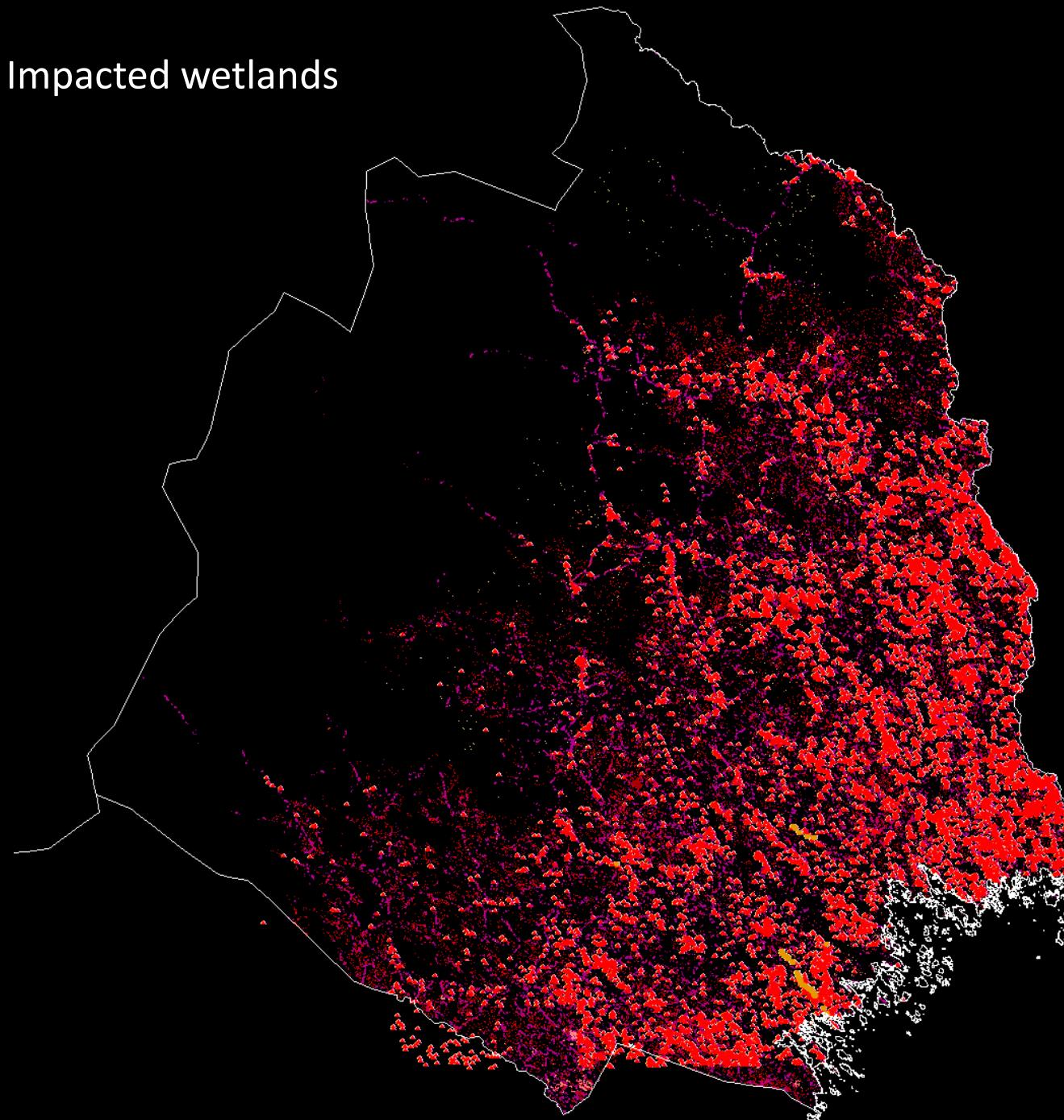


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More than 2 millions hectares of
wetlands

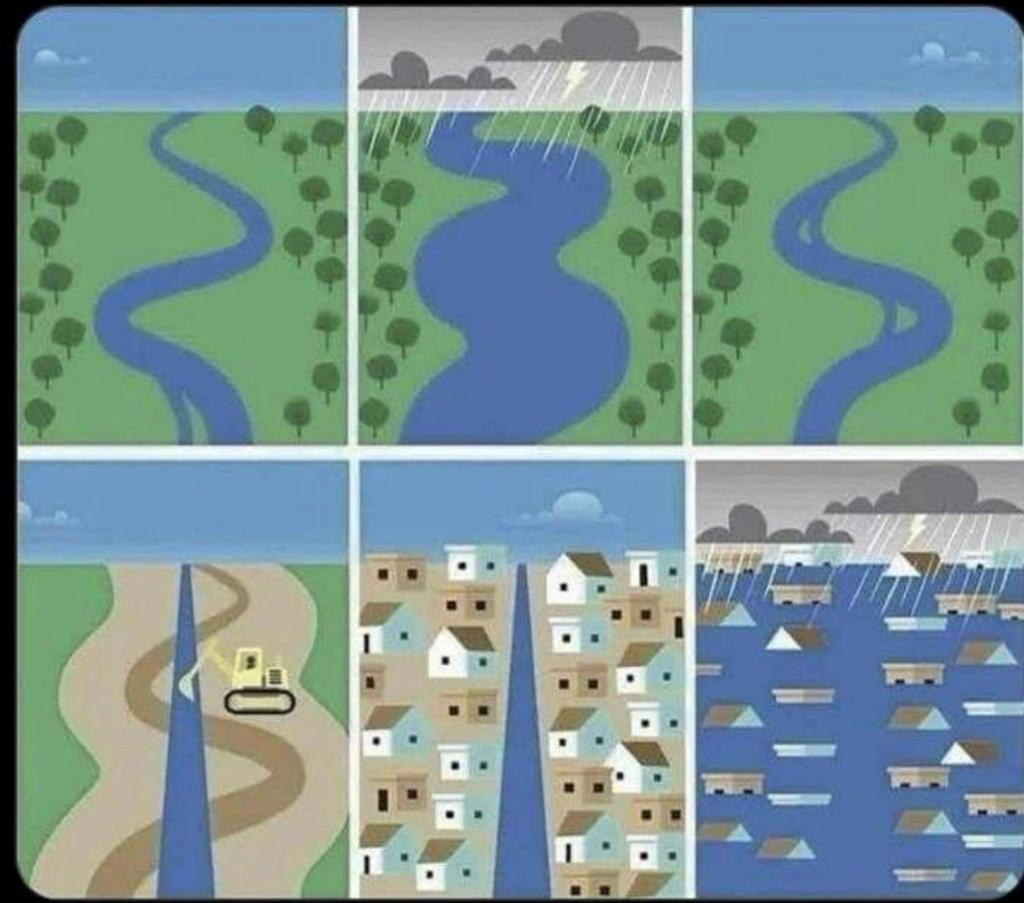


Impacted wetlands



Someone: "hey, why are wetlands important?"

Wetlands:



Ditching



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Restore wetlands using excavators



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Restore by building dams by hand

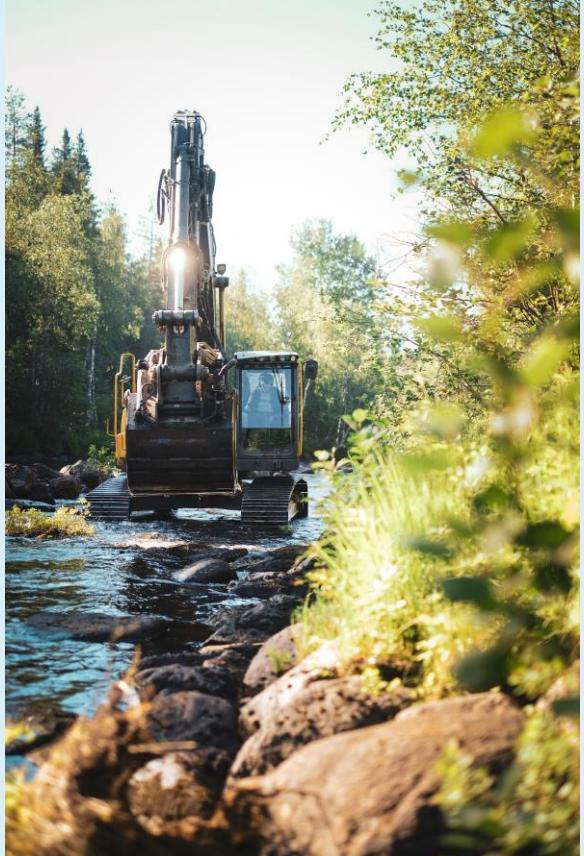






In TRIWA, we will:

- restore 96 km of streams
- remove 399 migration barriers
- restore 2 500 hectares of wetlands



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The project will also contribute to that:

- we will keep and improve the biodiversity and habitats for species listed in EU:s Habitat directive.
- the water will reach good or high ecological status according to EU:s Water Framework directive.



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The project will also:

- decrease the emissions of greenhouse gases from wetlands.
- produce an Environmental Management System that will decrease the emissions of greenhouse gases from excavators and transports.



TRIWA create jobs!

In short term

- Local entrepreneurs, consultants, accommodation is needed during the project

In long term

- Positive effects on ecotourism, sportfishing, commercial fishing etc.





Tack!
Kiitos!
Thank you!