

Finnish-Russian co-operation on migratory brown trout populations in the Oulanka River system



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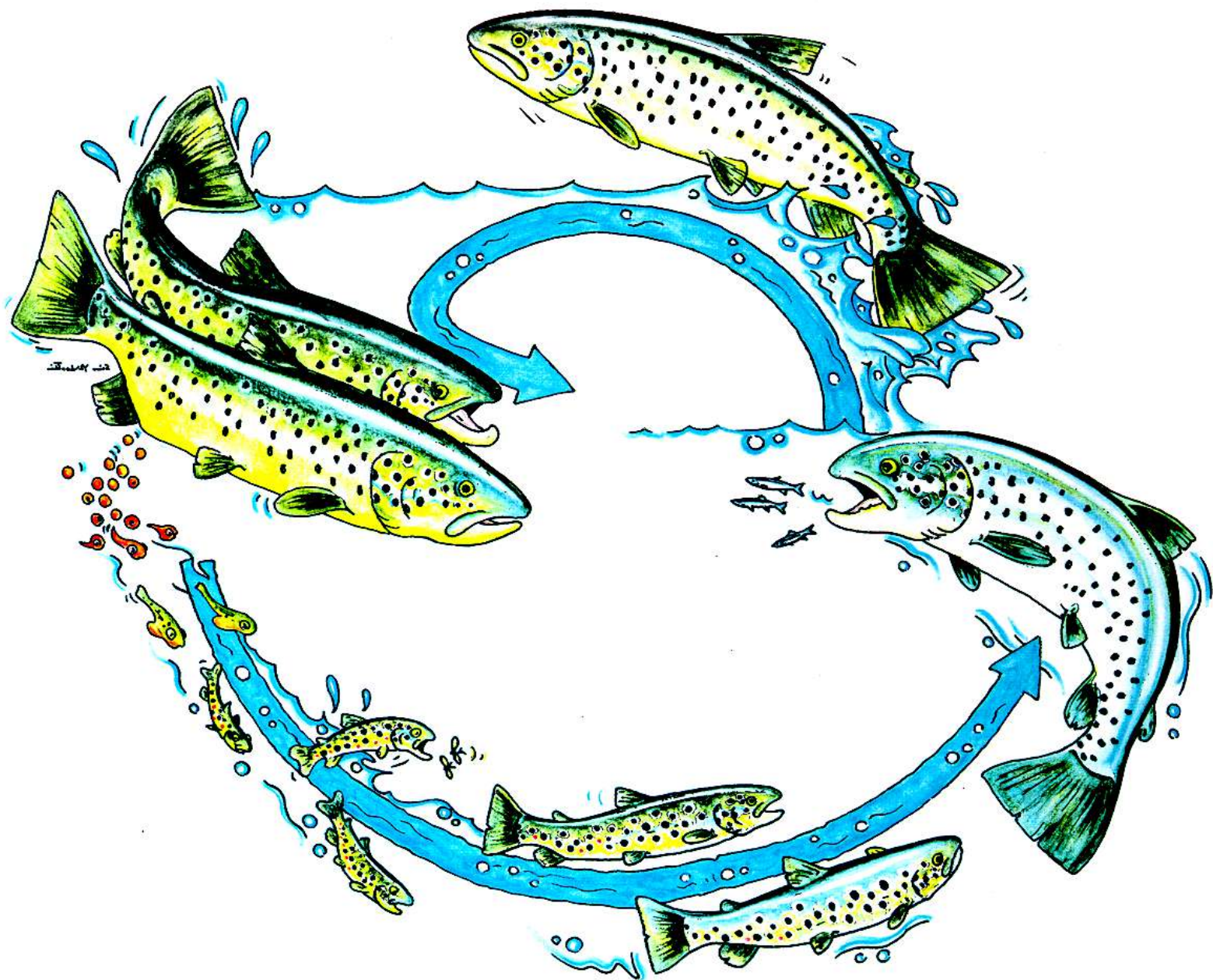
CBC // Cross-border cooperation



**OULANGAN
VILLI TAIMEN**

YHTEINEN AARTEEMME

ENPI CBC
KARELIA
EUROPEAN UNION
FINLAND
RUSSIA

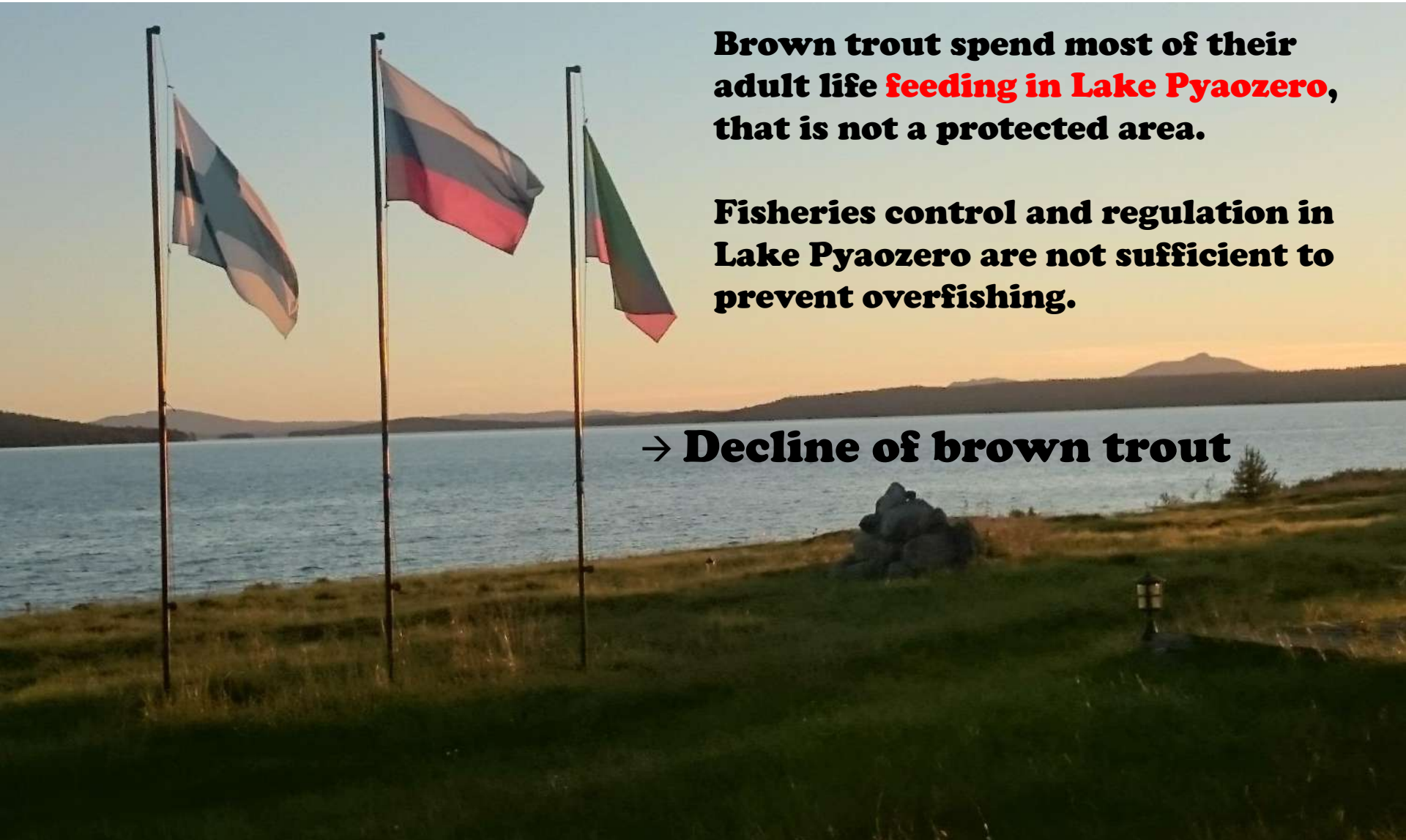


Management challenges of brown trout in the Oulanka River system

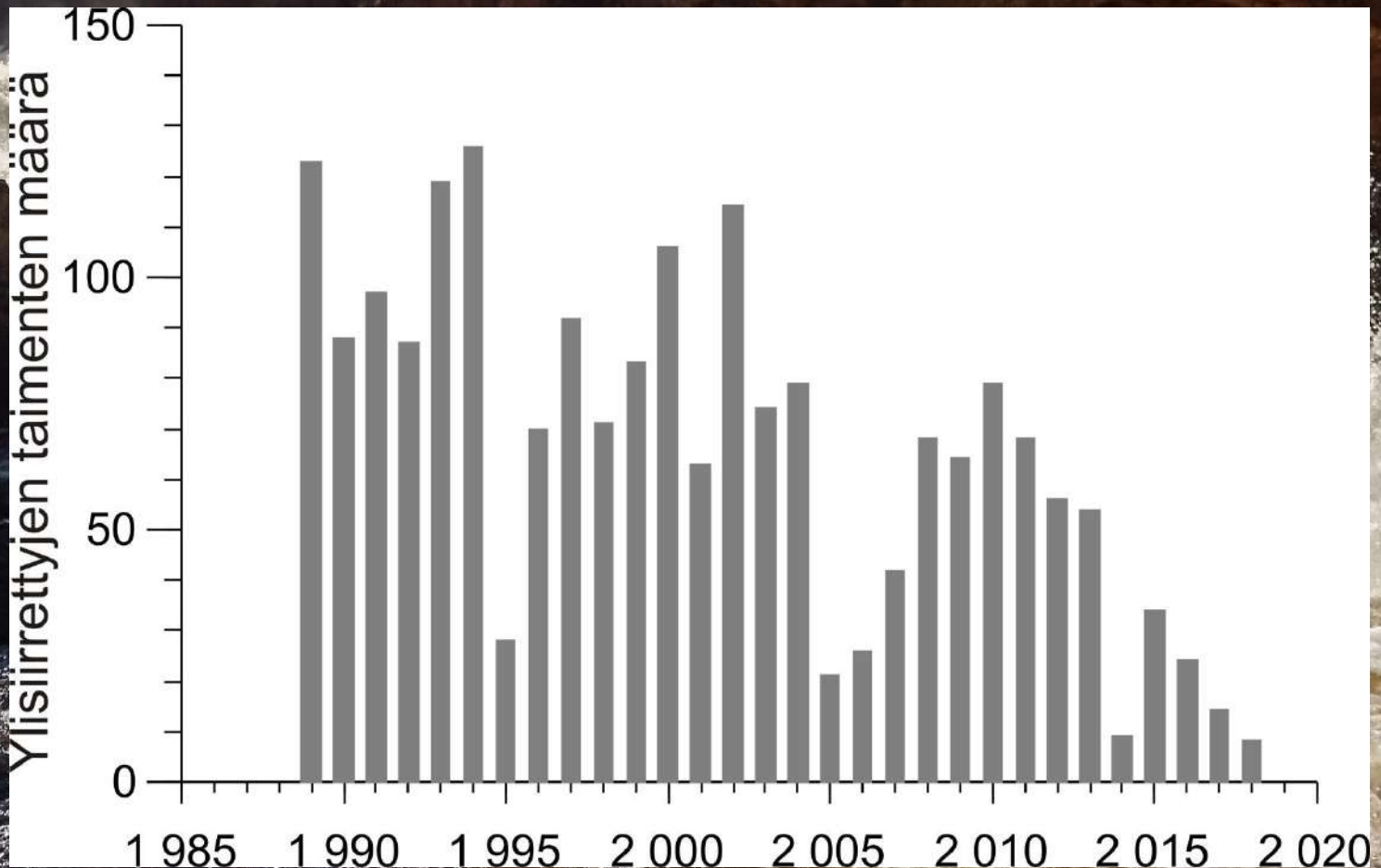
Brown trout spend most of their adult life **feeding in Lake Pyaozero, that is not a protected area.**

Fisheries control and regulation in Lake Pyaozero are not sufficient to prevent overfishing.

→ Decline of brown trout



Number of adult brown trout captured at Kiutaköngäs waterfall each July 1989-2018

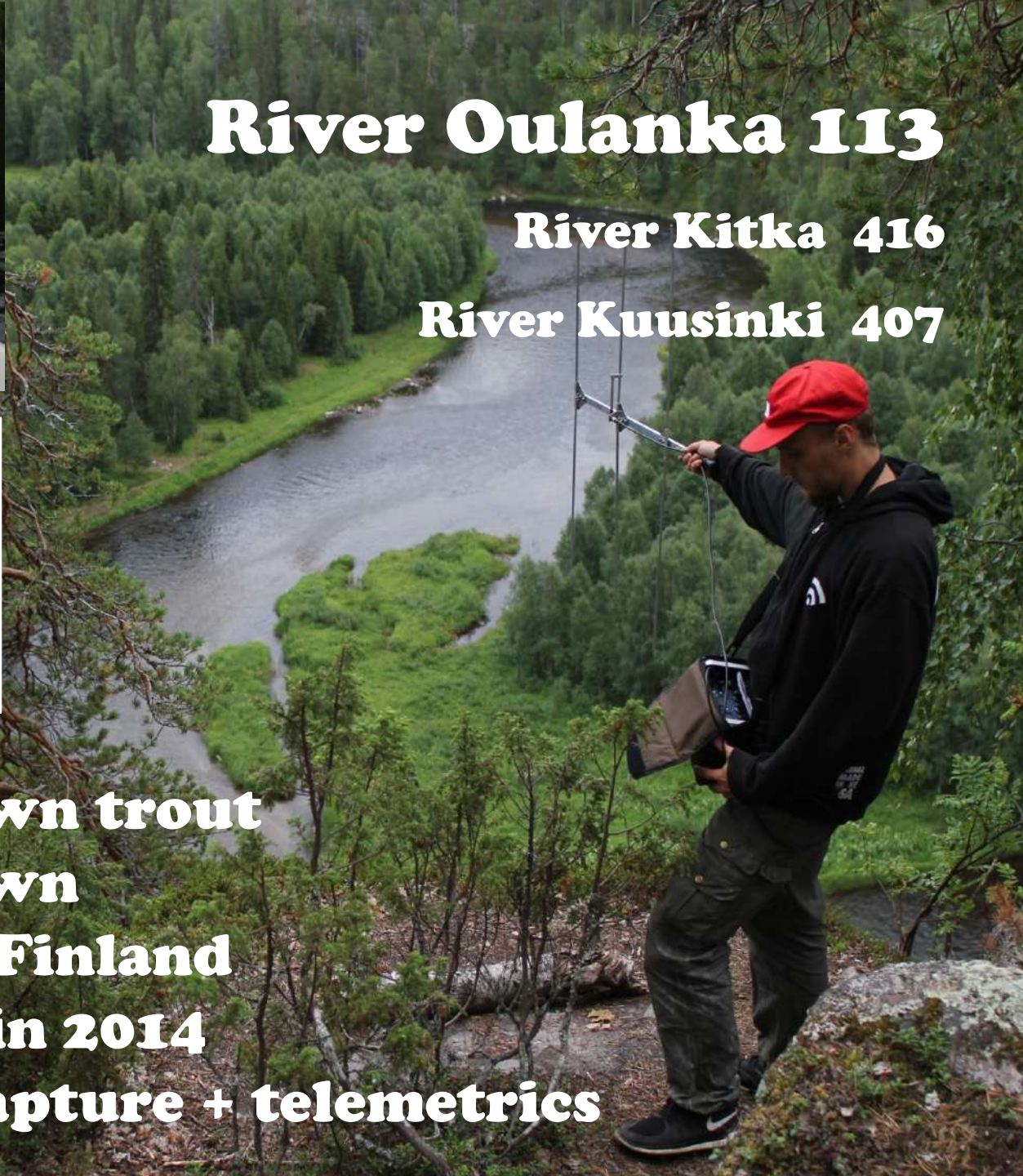




River Oulanka 113

River Kitka 416

River Kuusinki 407



**Number of brown trout
running to spawn
from Russia to Finland
was estimated in 2014
with mark-recapture + telemetrics**

Oulangan
kansallispuisto

Iovskoye vdkh.
Иовское вдхр.

**Genotyping
work by
KO1017 SALMUS**

Kumskoye vdkh.
Кумское вдхр.

Kumskoye vdkh.
Кумское вдхр.

Kumskoye vdkh.
Кумское вдхр.

Oulanka **You are here!**



Kitka

Kuusinki

Sova 35

Pala 37

Asterva 51

Silta 36

Olanga 7

Lohi 48

Nuris 36

Tava 36

Lake Pyaozero
250+

Karmanga 35


Kitti 37

Ponseli 37

**Where is the population
decline worst
and how steep is it?**

Genetic profiling

- **13 rivers + lake feeding area**
- **sampling 1990's + 2016**

2020-2023**Prospering native brown trout
and local fishing professions****PRO TROUT**

*Fisheries of Lake Pyaozero
are utilized, controlled and managed in a way that
amends erosion of fish biodiversity in the border area
and makes fishing-based nature tourism
a sustainable income option for the local people.*





PROTROUT Crew :

- **Metsähallitus, Wildlife Service Finland**
 - **Natural Resources Institute Finland**
Karelian branch of the federal state
budgetary institution "GLAVRYBVOD"
 - **Northern Research Institute of Fisheries**
PetrSU
 - **Karelia-Sever Tur Ltd.**
 - **NGO "Baltic Salmon Center"**
- +
- **Paanajärvi National Park**
 - **Loukhsky District Administration**

