

# Transboundary water management in the joint border area of Finland, Norway and Russia

TransParcNet 2018 “Bridges over troubled water”  
June 7<sup>th</sup> 2018

Riina Tervo, Metsähallitus, Parks & Wildlife Finland  
Tiia Kalske, County Governor of Finnmark  
Marina Trusova, Pasvik zapovednik



# Pasvik Inari

## Trilateral Park



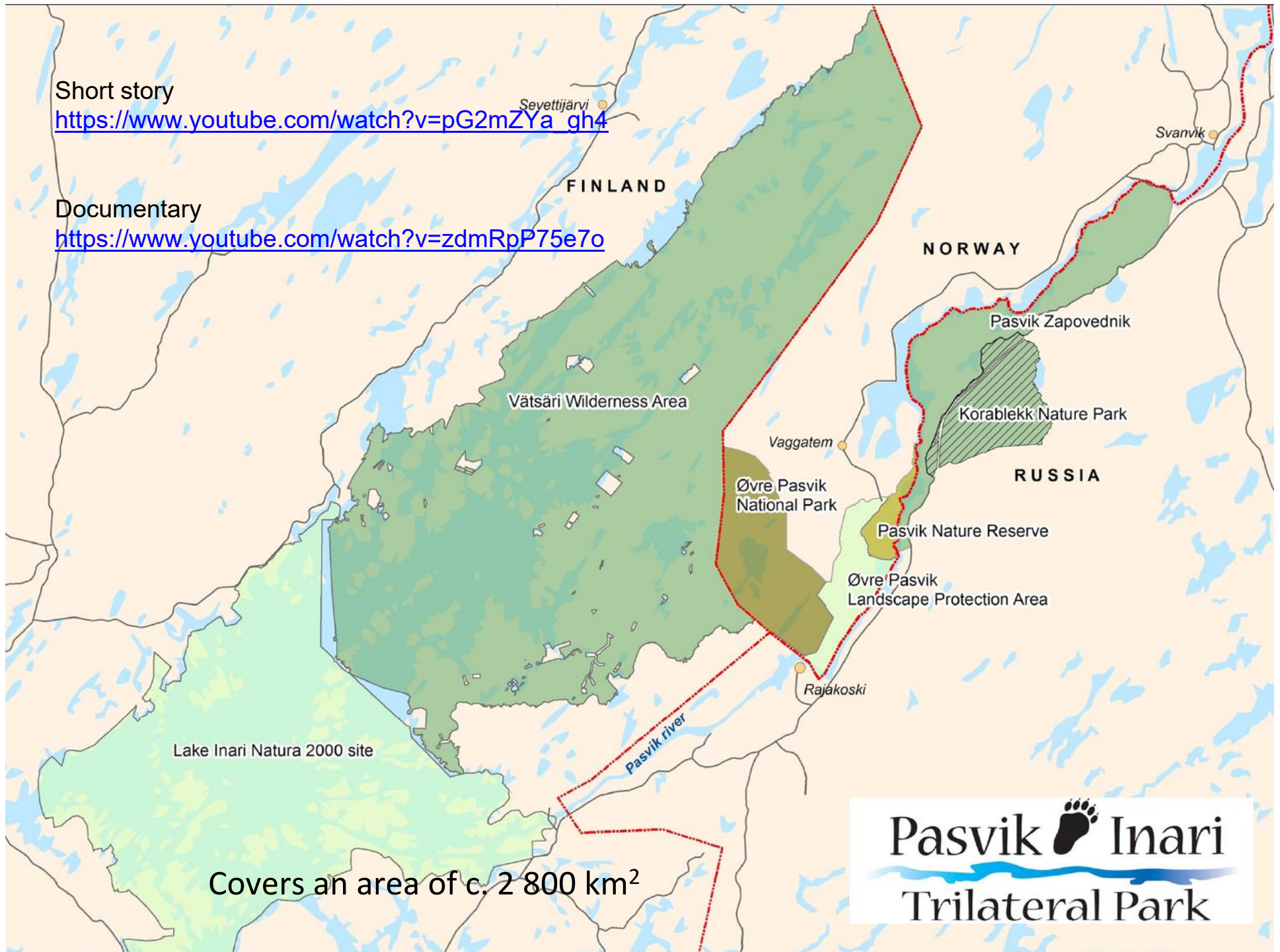


Short story

[https://www.youtube.com/watch?v=pG2mZYa\\_gh4](https://www.youtube.com/watch?v=pG2mZYa_gh4)

Documentary

<https://www.youtube.com/watch?v=zdmRpP75e7o>



Pasvik  Inari  
Trilateral Park



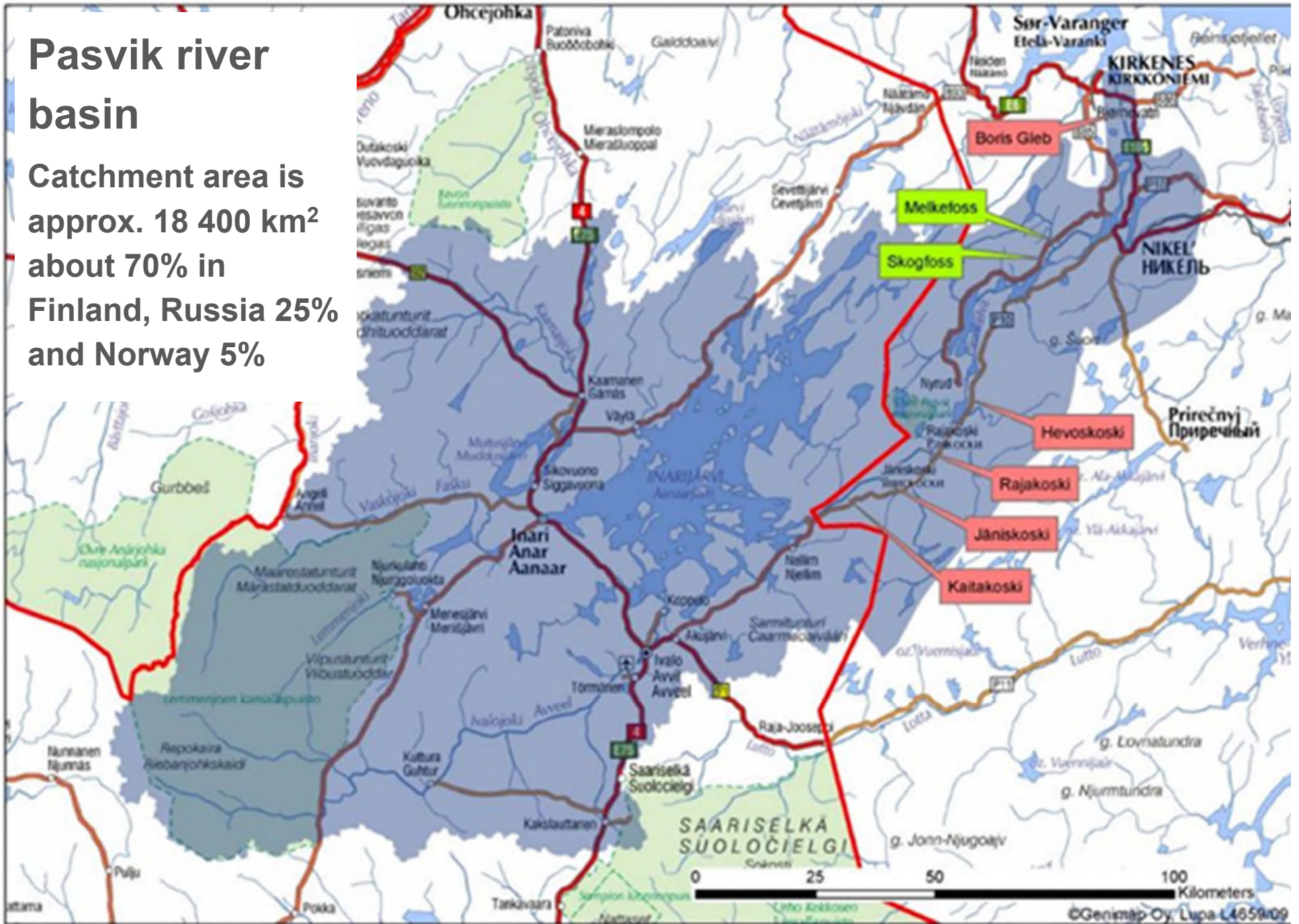
# Borders separate. Nature unites!

Pasvik Nature Reserve (NO) and Pasvik zapovednik (RU) along the Pasvik river, at the Norwegian Russian border.  
Photo: Rolf E. Sch. Kollstrøm



# Pasvik river basin

Catchment area is approx. 18 400 km<sup>2</sup>  
about 70% in Finland, Russia 25% and Norway 5%



# Challenges in the border river catchment area



- Mining and metallurgical industry
- Hydroelectric power stations and dams
- Introduced species
- Climate change



Source: Sør-Varanger Museum ©



# Lake Inari – third biggest lake in Finland



The large and oligotrophic Lake Inarijärvi is situated upstream and upwind from the pollution sources.

The water quality of Lake Inarijärvi is mostly excellent. No clear signs of eutrophication have been observed.

# Water level regulation in Lake Inari



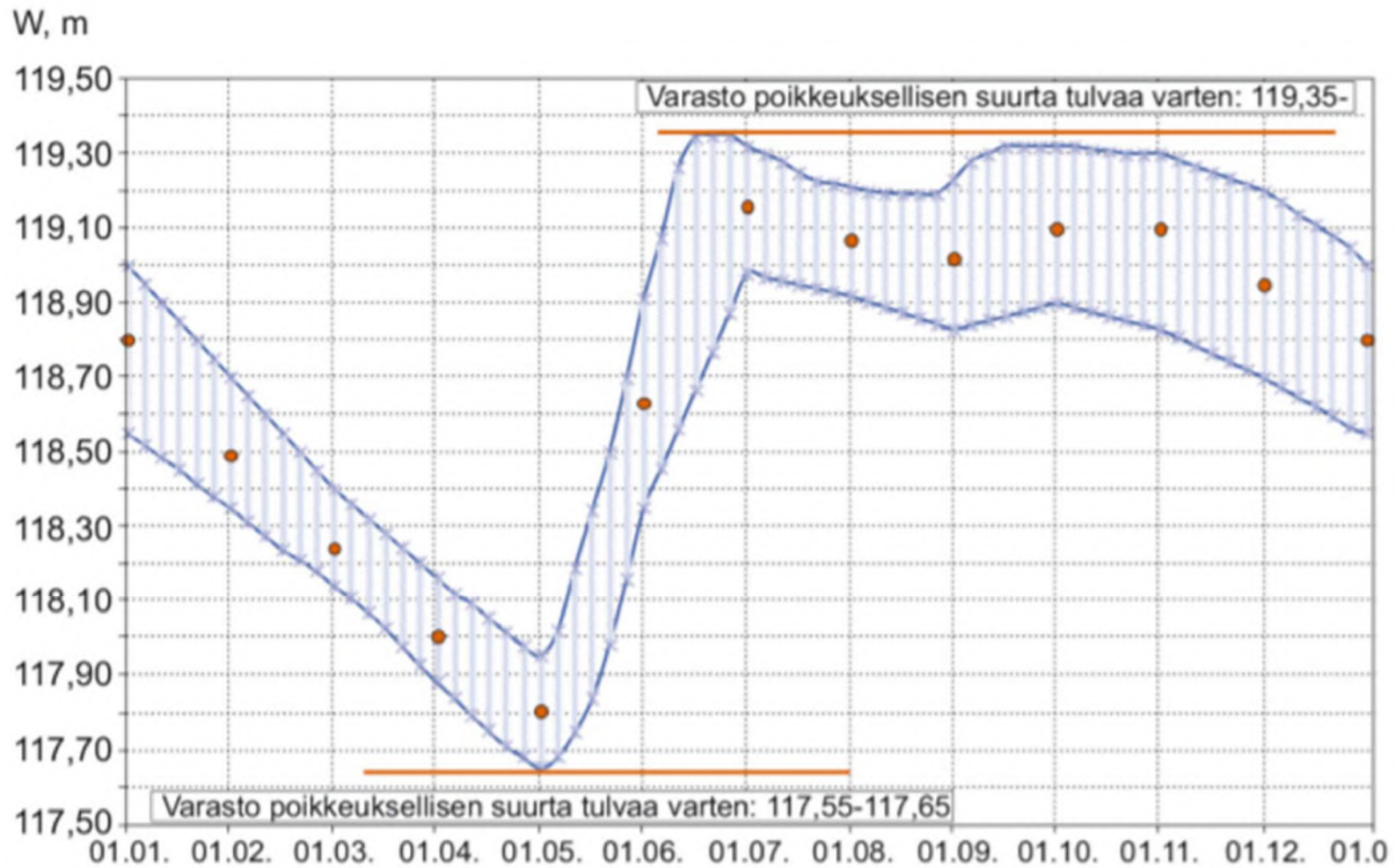
*Photos: Centre for Economical Development,  
Transport and the Environment*

Lake Inari regulation -  
State agreement between  
Soviet Union/Russia,  
Norway and Finland since  
1959

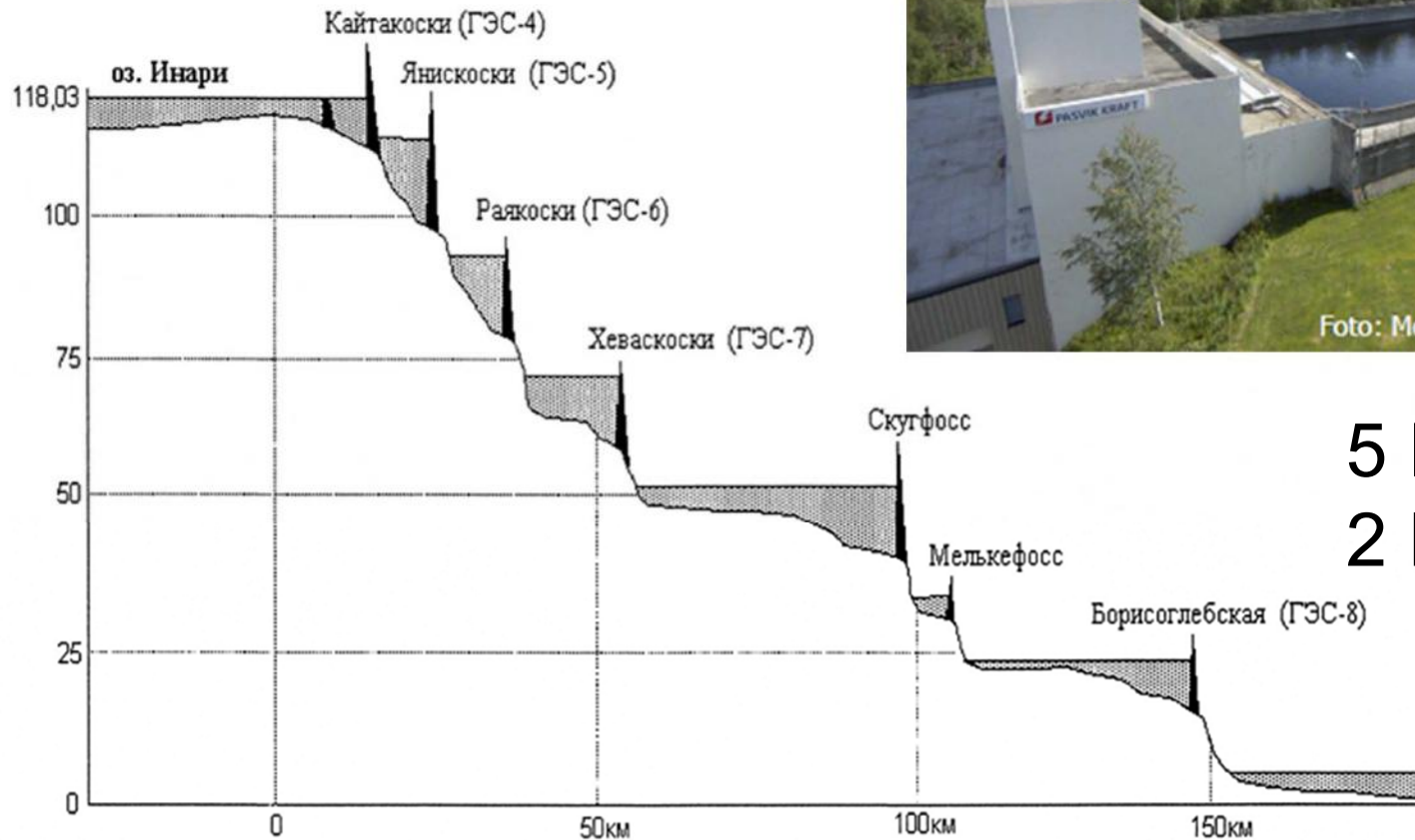
Finland, Norway and  
Russia have set up a  
Lake Inari-delegation, to  
which each country has  
designated a control  
supervisor.



# Ecological target zone for Lake Inari, accepted by regulatory commission in 25.3.1999



# Longitudinal profile of Pasvik river and 7 HEP stations

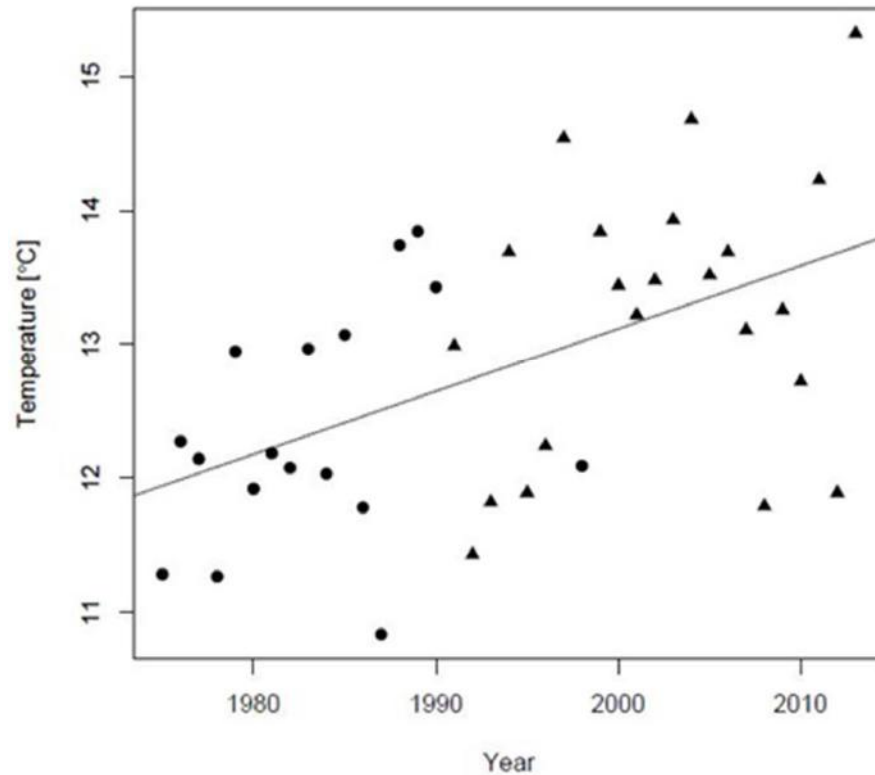


5 Russian  
2 Norwegian



# Climate change

*It is getting warmer and more wet*



Average water temperature has increased approx. 2 degrees in the Pasvik river the past 40 years

Lake Inari freezes later, ice is thinner and ice-cover period is shorter

Warmer water is affecting the fish - trout will loose and perch will win....

# Vendace invasion

(Vendace: *Coregonus albula*)







Photo: Erno Salonen, Natural Resources Institute Finland

# Joint water monitoring

[www.pasvikmonitoring.org](http://www.pasvikmonitoring.org)

The screenshot shows a web browser window displaying the homepage of the Pasvik Programme. The browser's address bar shows the URL <http://pasvikmonitoring.org/>. The page features a large header image of a river flowing through a landscape with a large, dark, rounded hill in the background. The text "Pasvik Programme" is overlaid on the right side of the header, with the subtitle "Environment Monitoring in the Norwegian, Finnish and Russian Border Area". On the left side of the header, the "KotArctic" logo is visible, which includes the European Union flag and the text "CENTRE FOR NORTH-SOUTH COOPERATION". Below the header, there are six navigation tiles arranged in a 2x3 grid, each with a representative image and a right-pointing arrow:

- Monitoring Programme**: Image of an industrial facility with smokestacks.
- Threats to the Environment**: Image of a sailboat on a calm lake.
- State of the environment**: Image of two fish, likely trout, in a stream.
- Cooperation project**: Image of a group of people standing in a forest.
- Publications**: Image of several report covers, including one titled "PASVIK PROGRAMME SUMMARY REPORT".
- Contact**: Image of a building facade with a logo and text in multiple languages.

The Windows taskbar at the bottom of the screen shows the time as 13:39 on 8. mai 2018.





NORSK-FINSK GRENSEVASSDRAGSKOMMISSJON  
SUOMALAIŠ-NORJALAINEN RAJAVESISTÖKOMISSIO

Since 1980 – a governmental Agreement between Norway and Finland on a transboundary water commission

- Cooperative body for coordination of both countries interests in the joint rivers *Tana-*, *Pasvik-* and *Neiden*.
- The Transboundary water Commission is an advisory body for respective countries governments
- Russia has been observer since 1993





Pasvik  Inari  
Trilateral Park



# Future projects

## Kolarctic ENI CBC – programme: 3 accepted applications

- REARC - Ecological Restoration of Arctic Rivers
- Cross-border dialogue and Multi-Use Planning in the Pasvik and Grense Jakobselv river catchments
- PAN - Phenomena of Arctic Nature (visitor centers)

## Other projects:

Brown trout genetics and ecology







Kiitos! Takk! Спасибо! Giitu! Thank you!



Photos: Steinar Wikan, Per Arne Amundsen, Riina Tervo, Paul Aspholm, Valery Buzun, Natalia Polikarpova, Alyona Aphanasova, Johannes Abildsnes