

# Pasvik Inari

## Trilateral Park

### Monitoring and managing Brown Bears and Visitors...

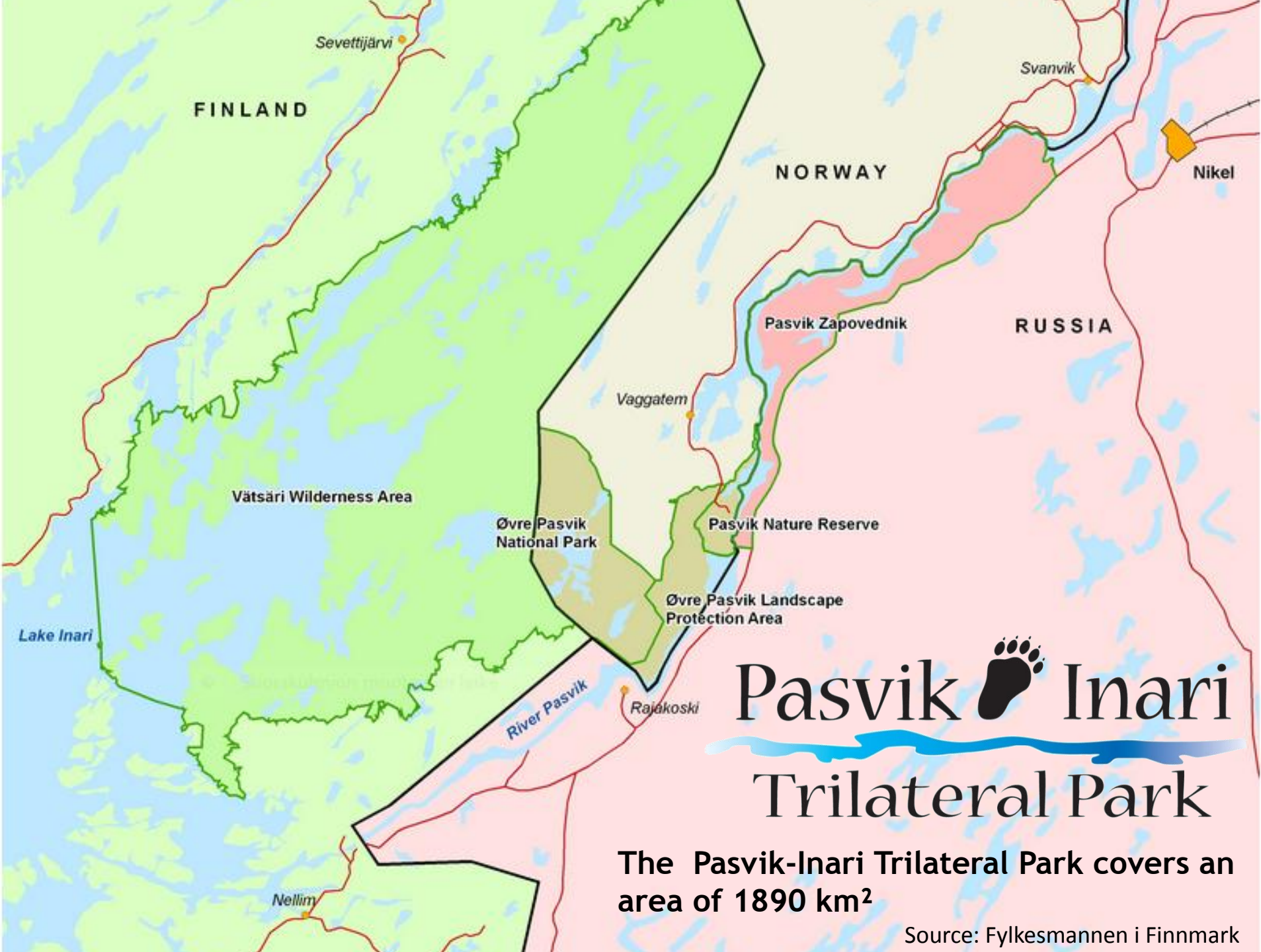


TransParcNet Meeting 2016  
Work shop 1 - 9 th June

Riina Tervo - Parks and Wildlife, Finland  
Tiia Kalske - County Governor of Finnmark, Norway  
Natalia Polikarpova - Pasvik Zapovednik, Russia

Transboundary Parks  
E U R O P A R C





# Pasvik Inari

## Trilateral Park

The Pasvik-Inari Trilateral Park covers an area of 1890 km<sup>2</sup>

Source: Fylkesmannen i Finnmark



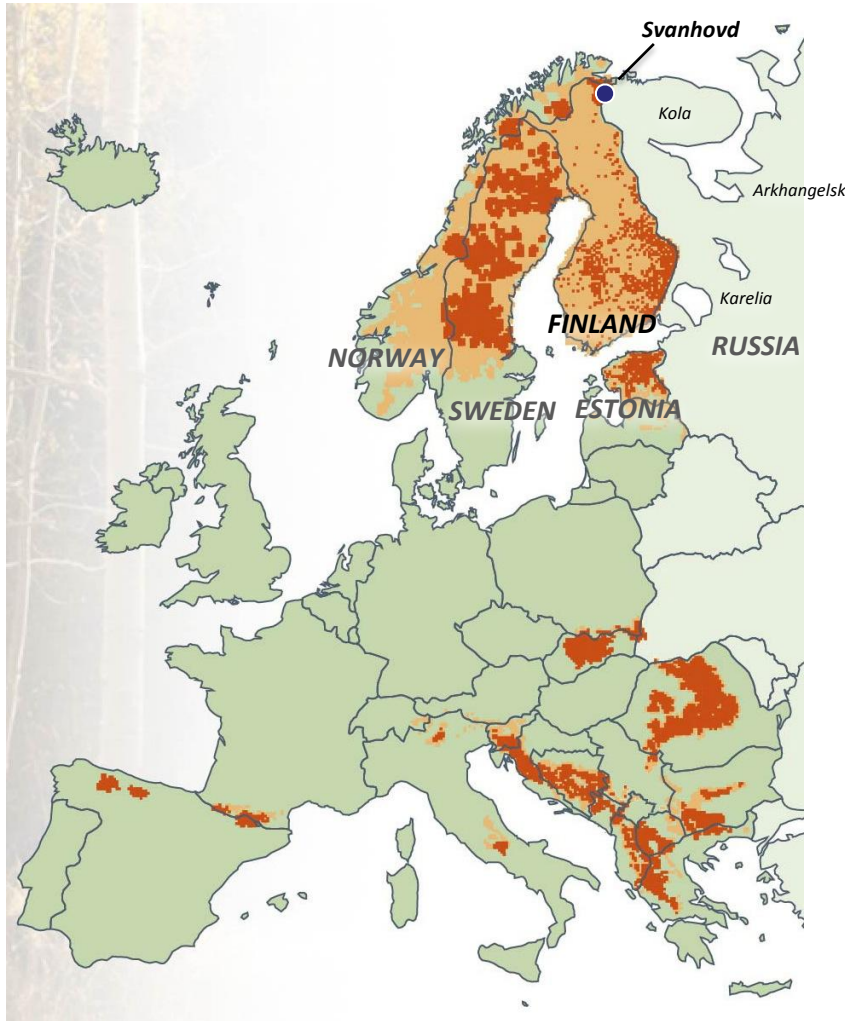
**Borders separate.  
Nature unites!**



Mom is back from her trip abroad...

You have some souvenirs for us?

# The brown bear in northern europe

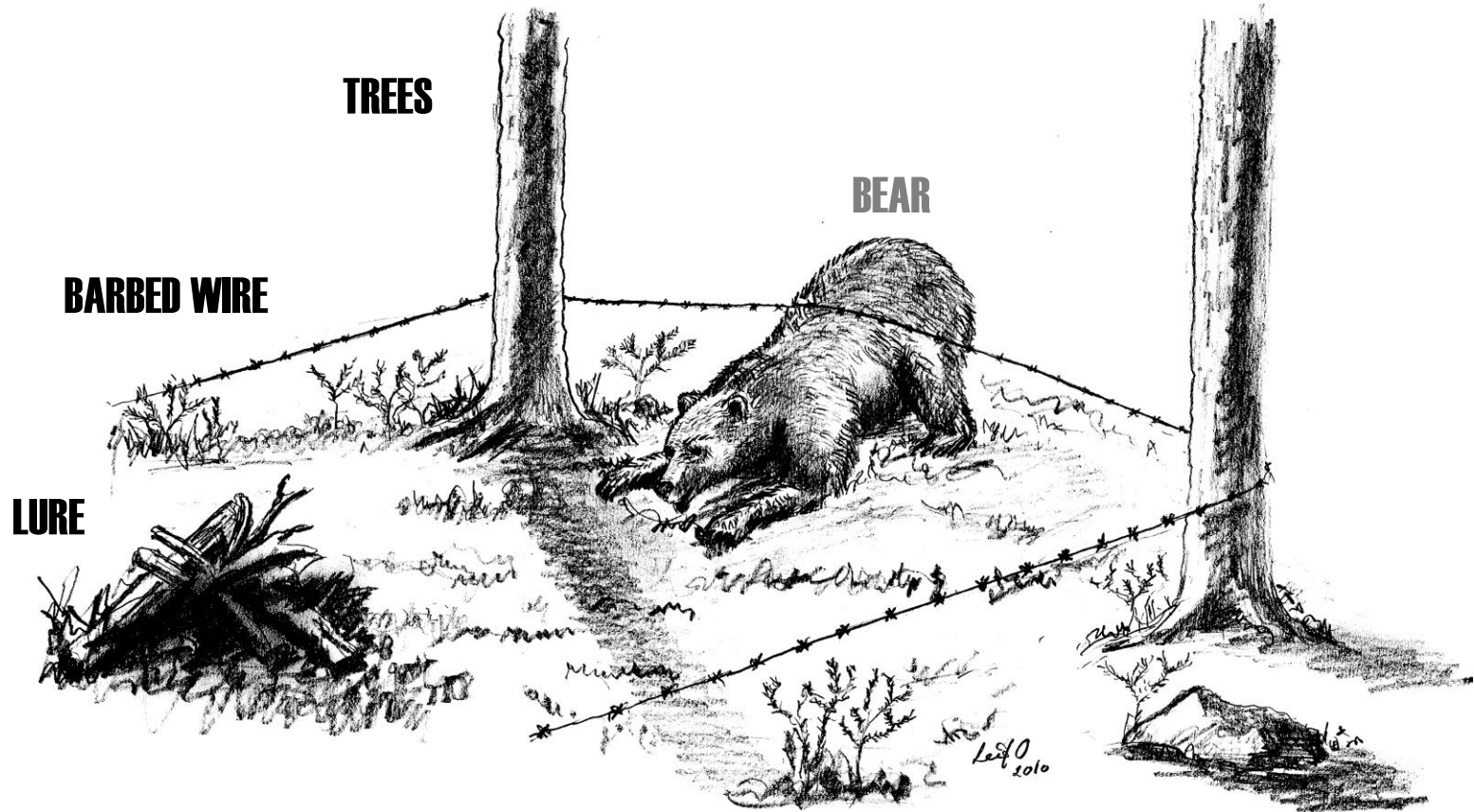


Brown bear distribution in Northern Europe. European Commission.

## Population size estimations

Norway:	[minimum] ~150
Sweden:	~2,800
Finland:	~1,700
Russia:	~130,000
Estonia:	~700

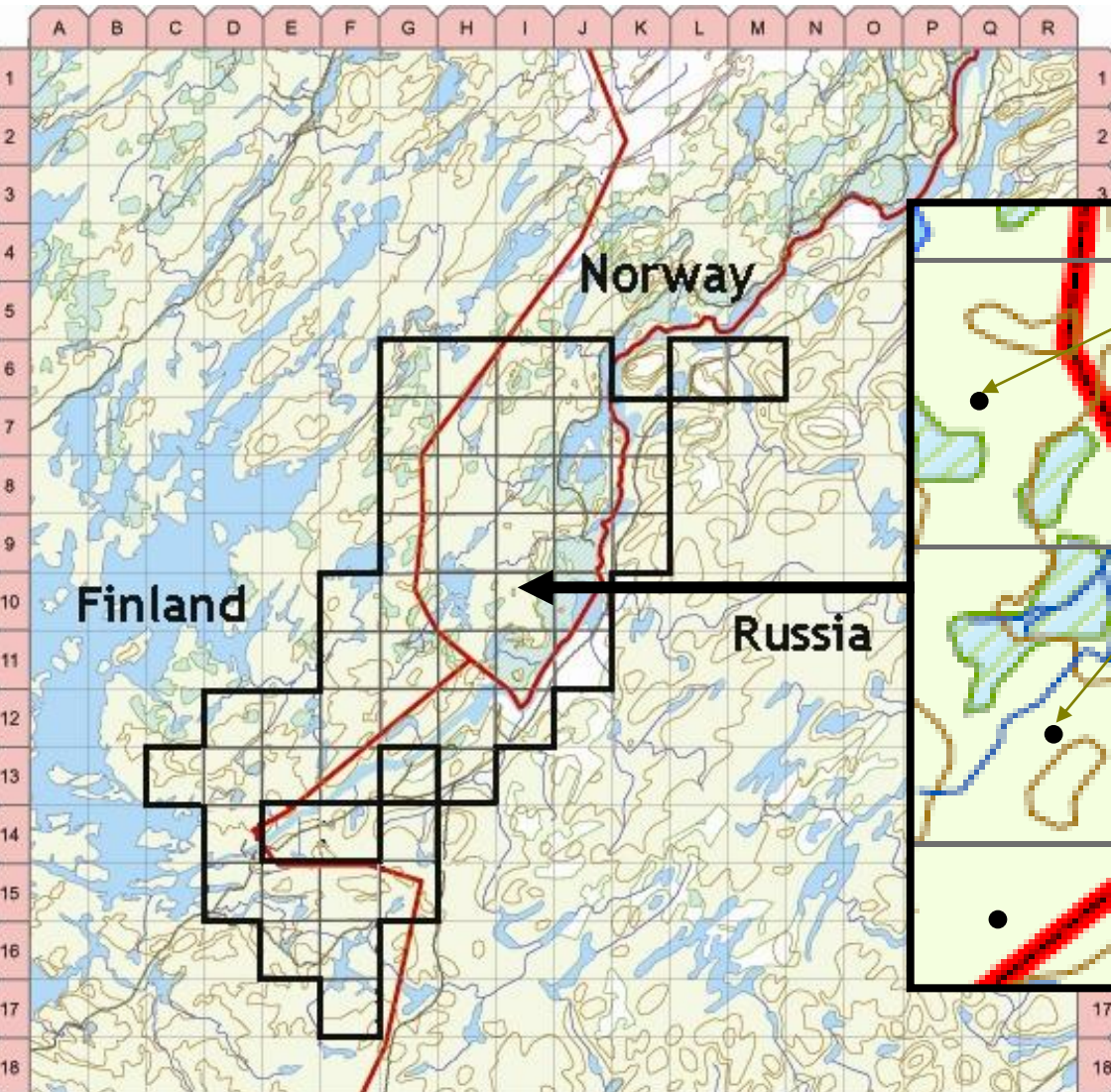
# Hair-snares to pluck bear hair



*Drawing by Leif Ollila*

Input from: Alexander Kopatz – NIBIO Svanhovd, Norway

# Hair-trapping



1 hair snare per 5x5 km grid

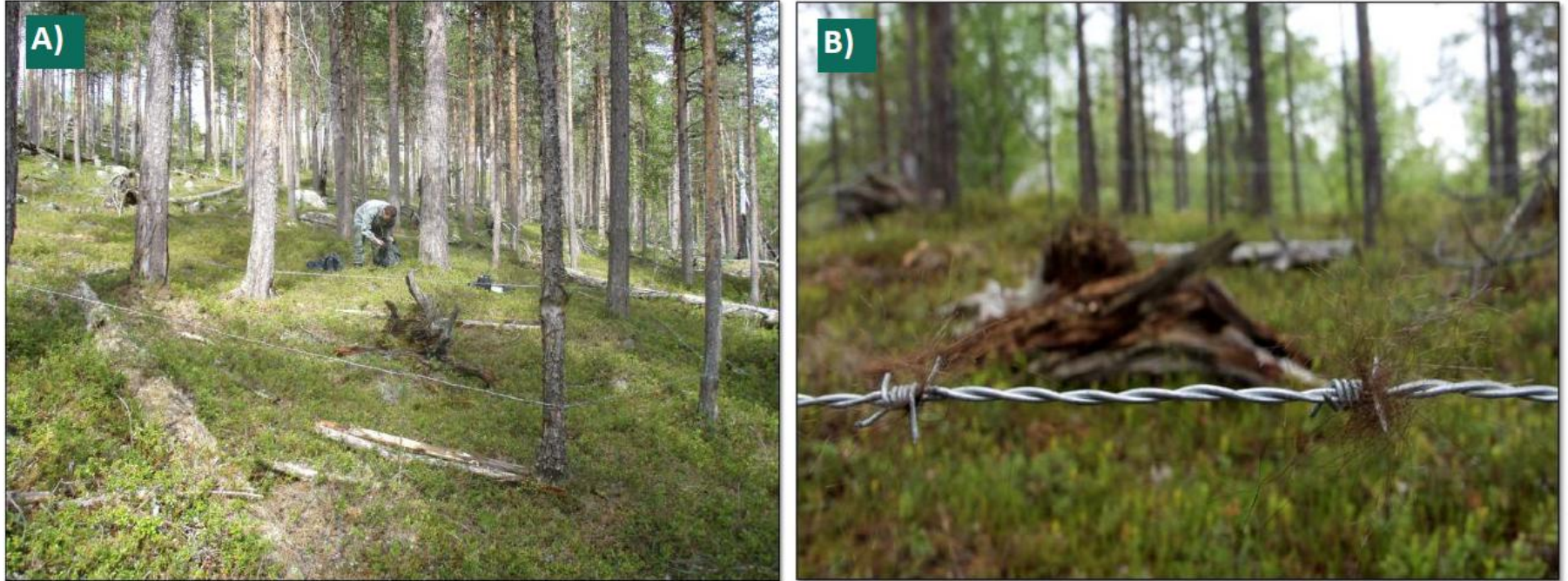
Check snares every 2 weeks

Move the snares once each month within the same grid

Snare placement was localized in advance to avoid potential conflicts with people



# Monitoring of the Pasvik-Inari-Pechenga brown bear population in 2015 using hair-trapping

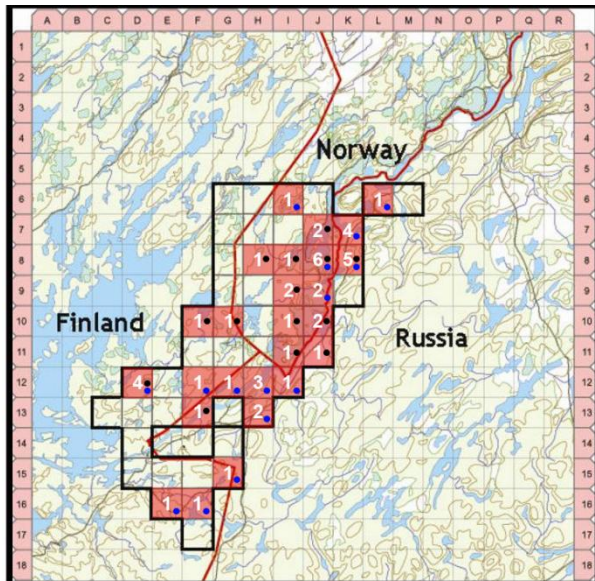


**Figure 2:** A) A typical hair snare with scent lure in the center ringed by a single barbed wire strung between trees at 40-50 cm from the ground. B) Hairsample on a wire. Photos: Sari Magga (left), Alexander Kopatz (right).



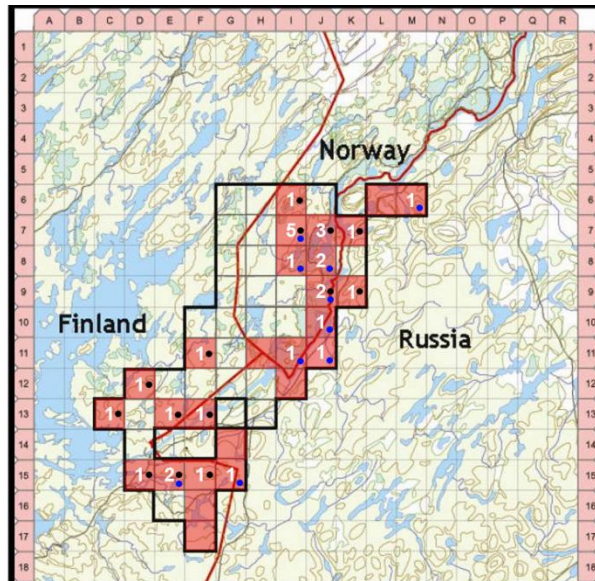
# Monitoring of the Pasvik-Inari-Pechenga brown bear population in 2015 using hair-trapping

2007



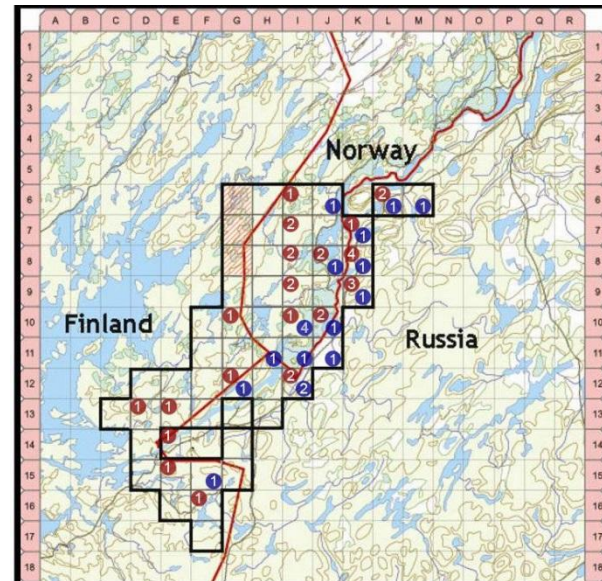
196 samples collected  
 26 of 56 grids showed activity  
**24** bears identified  
 (10 females, 14 males)  
**11** new identified, **13** known

2011



88 samples collected  
 27 of 56 grids showed activity  
**20** bears identified  
 (12 females, 8 males)  
**4** new identified, **16** known

2015



209 samples collected  
 25 of 56 grids showed activity  
**26** bears identified  
 (17 females, 9 males)  
**13** new identified, **13** known

# Remote wildlife cameras

No harm to wildlife was documented or observed



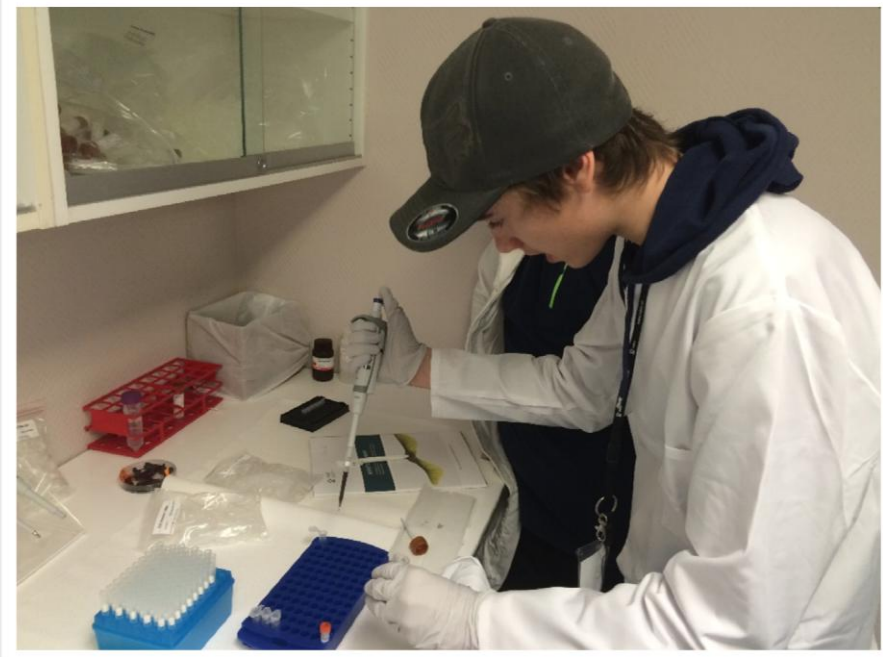
All footage from 2015 has been compiled and can be viewed here:

<http://vimeo.com/144482693>

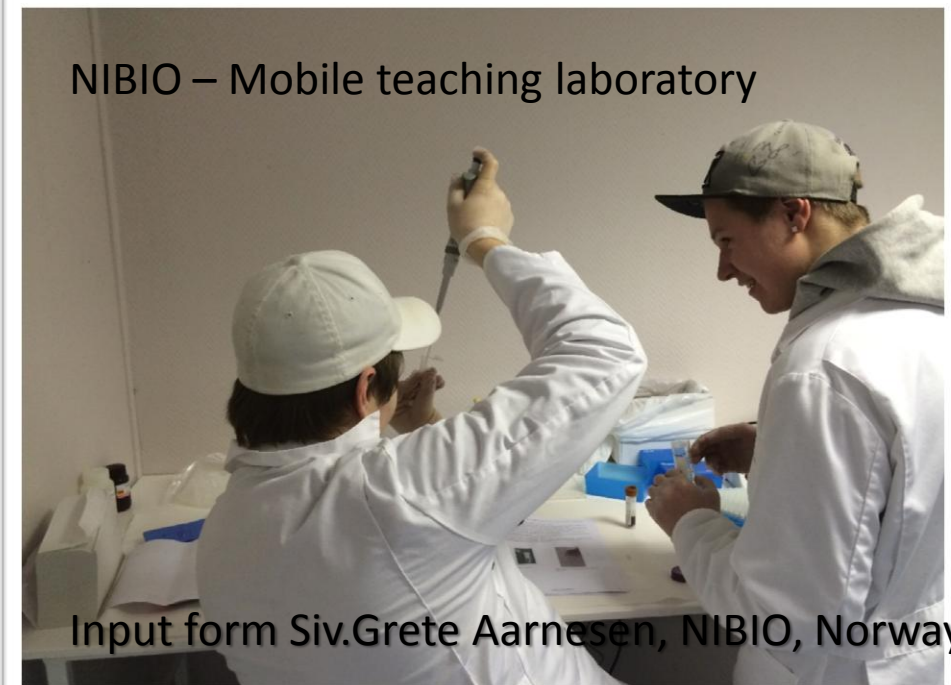
# Monitoring of the Pasvik-Inari-Pechenga brown bear population in 2015 using hair-trapping

## Conclusions

- Hair-traps have shown their power in detecting bear abundance and individuals.
- Compared to 2007 and 2011, the total number of identified individuals in 2015 increased, respectively with 3 and 7 individuals.
- Seven (35%) individuals, detected in 2011, were recaptured in 2015. Four (16.7%) bears, detected in 2007, were recaptured in 2015.
- Two individuals were detected in two countries, and one individual were detected in grids in all three countries.
- The higher number of samples and detected brown bears in 2015 may be caused by more bear activity within the study area, compared to 2007 and 2011.
- A total of 13 new bears were identified in 2015 as compared to 4 in 2011.
- Hair-trapping can lead to a substantial increase in the number of detected bears in the area.
- As is previous studies, no harm to wildlife was documented or observed.
- Sample collection during summer period.
- ***Unique, prestigious pioneer project and study – in management and research.***



NIBIO – Mobile teaching laboratory



Input form Siv.Grete Aarnesen, NIBIO, Norway





Brown Bear Center at  
NIBIO Svanhovd,  
Norway

# Trilateral Visitor Monitoring

Core area	Area / Sight	Country	Way of measuring	2014	2015
Pasvik zapovednik	NPA	RUS	counting (permits for entrance)	895	580
Øvre-Pasvik NP	NPA	NOR	estimate, *counter	c. 1500	1956*
Pasvik NR	NPA	NOR	estimate	c. 500	c. 500
Øvre-Pasvik LPA	NPA	NOR	estimate	c. 1500	> 1500
Vätsäri wilderness area	NPA	FIN	estimate	7 000	7 000
<b>Together NPAs</b>				<b>c. 11 395</b>	<b>c. 11 536</b>
Rajakoski nature school	Visitor centre	RUS	counting	580	370
Svanhovd info centre, NIBIO	Visitor centre	NOR	counter	6 950	8 961
Sámi museum and nature centre Siida	Visitor centre	FIN	counter	98 470	113 474
<b>Together centres</b>				<b>106 000</b>	<b>122 805</b>
Piilola hiking trail	Sight	NOR–FIN	counter	381	160



Photos: Gunnar Reinholdtsen; Riina Tervo, Metsähallitus

# Main infrastructure for visitors

Protected area	Main infrastructure
Vätsäri Wilderness Area (FI)	35 km of marked hiking trails, Piilola trail; 3 open wilderness cabins and one rental hut Siida – Visitors Centre in Inari
Øvre Pasvik National Park (NO)	12 km of marked hiking trails, Piilola trail; ~10 km of skiing routes and 2 open wilderness cabins. Øvre Pasvik National park Centre in Svanvik
Øvre Pasvik Landscape Protection Area (NO)	5 km of marked hiking trails, ~5 km of skiing routes.
Pasvik Nature Reserve (NO)	2 km of marked hiking trail to bird watching hide and an old bears den
Pasvik State Nature Reserve (RUS)	Varlam Island nature and culture site Visitor-centre –ecological school in Rajakoski Coming – Visitors Centre in Nikel city



## PIILOLAN POLKU

Piilolan retkipolku kulkee alkumatkasta vanhaa talojen välistä kulkureittiä Nammijärvelle ja sieltä edelleen Piilolan rajanylityspaikalle. Retkipolku jatkuu Norjan puolella Elenkolan autotuvan kautta Sortbrystjärven gyskäntintpaikalle. Reitin kokonaispituus on 35 km, josta Suomen puolen osuus on 24 km. Reitti on Suomen puolella merkitty siniseksi maastolin puutoipin ja Norjan puolella punaisa roikkuvien sinisiksi maastolin puumerkein. Maasto polun varrella on kaunista nähtävyyttä ja vaarallisempaa, jonka lomassa on metsäisiä soita, jokia ja järviä.

Retkeilijöiden käytössä on Suomen puolella Piilolan autotupa Nammijärvellä sekä Nuottamajärven laavu. Kessijärvellä heti alkumatkasta on Stora Enson omistama avoin tupa, jota myös voidaan käyttää laukupaikkana. Norjan puolella 200 metrin rajan jälkeen on Piilolanportin autotupa ja viisi kilometriä myöhemmin Elenkolan autotupa.

Schengenin sopimuksen perusteella Suomen ja Norjan välisen rajan voi ylittää Piilolan polkua pitkin ellei mukana ole tulostavaa tavaraa. Vapaa liikkuminen koskee myös kolmansien maiden kansalaisia, jolla on viisumi tai oleskelulupa johonkin Schengen-maahan.

## PIILOLA PÄÄLGIS

Piilola vändardempäälgis jota algämäädhi puaris jotteemkäänu läälui kooska Njammijärvän ja tobeaan ain Piilola räjasdälitiemsajan. Vändardempäälgis juakoo Taažabel Eestohpu ävdiintupe peh Sortabesäluopla sojastitiemsajan. Käinu oleskukkoohh li 35 km mast Suomä pehe uke li 24 km. Käinu li Suomäbän merkejum äuväjän määläjum muorästulpuigun ja Taažabel muorän Häägläjäje äuväjän määläjum muoränerhäjum, Meeci peljä pälit li mutis peevyevdi ja vänenädän, mol kooskät lää jeogin, juuvah ja jäävni.

Vändardeljel klävust Suomäbän li Piilola ävdiintupe Njammijärvist sehe Koldemjärvil aitädum tulästitiemsajan. Täälän algämäädhit Kesijärvist li Stora Enso omistam ävus tupa, mon puähtä kevdi vuorästelompudäsajoen. Taažabeln 200 meetrid räaji mäga li Piilolaportti ävdiintupe ja viiti kilometter mägää Eestohpu ävdiintupe.

Schengen sopimus väädüli puähtä Suomä ja Taažä koskääs rääji restajiditit Piilola polk ja jodjin ja meedi li lah täämvaräsää täävir. Riiä ihädem kuääki meideli kuälmädi enämi aalmugiesäniid, käin li visum tai oleskeliupe monni Schengen-määnän.



## PIILOLA-STIEN

Første del av Piilola-stien går langs den gamle gårdsveien til Nammijärvi og deretter videre til den finst-norske grensa ved Piilola. Stien fortsetter til Elenkola på norsk side og ender ved Sortbrystjern. Stien har en total lengde på 35 km hvorav 24 km er i Finland. Stien er merket på finsk side med blåmalte tresloper og på norsk side med blåmalte treskilt opphengt i trær. Stien går i lett kupert furuskogslandskap, med innslag av myr, innsjøer og elver.

Turpsene kan på finsk side bruke ademærkskole Piilola ved Nammijärvi og gapahuken ved Nuottamajärvi. Ved Kessijärvi i begynnelsen av stien ligger en åpen hytte, som eies av Stora Enso. Denne kan brukes som rasteplass. På norsk side, 200 meter, fra grensa ligger Piilolahytta (Piilolaportten), og fem kilometer senere Elenkola ved Ellenvatnet.

Schengen-avtalen tilater grensekryssing mellom Finland og Norge langs Piilola-stien, dersom man ikke har med seg tilpåkligte varer. Dette omfatter også personer som har gyldig visum eller oppholdstillatelse i et Schengen-land.



## PIILOLA TRAIL

The Piilola Hiking Trail follows at first the old route between houses to Lake Nammijärvi and, from there, it continues to the Piilola border crossing point. After that, the trail goes on in Norway to the Elenkola Wilderness Hut and then to the parking lot of Sortbrystjern, where it ends. The total length of the trail is 35 km, of which 24 km are situated in Finland. In Finland, the trail has been marked with blue wood posts and, in Norway, with blue wooden marks that hang from trees. The trail runs in beautiful pine forests and hill country, in the midst of swamps, rivers and lakes.

On the Finnish side, the facilities available for the hikers include the Piilola Wilderness Hut on Lake Nammijärvi and a maintained lean-to shelter on Lake Nuottamajärvi. On the first stretch of the trail, by Lake Kessijärvi, there is an open hut owned by the company Stora Enso, which can also be used by hikers for a stop. In Norway, there is the Piilolaportti Wilderness Hut 200 m after the border and the Elenkola Wilderness Hut five kilometres later.

According to the Schengen Agreement, the border between Finland and Norway can be crossed by the Piilola Trail if the hiker does not carry along any goods that should be declared. Free movement also applies to citizens of third countries provided that they have a visa or a residence permit to a Schengen country.





# Cross-border visitors survey

## Websurvey 2017-

- Questionnaire
  - in four languages
  - delivered in paper, through qr-code and as e-mail in visitor centres, in the NPA's and in the tourism companies
- Outcomes
  - Basic information of the visitor: age, sex, place/country of origin
  - Main reasons for the visit, spending, influence on health and well being
  - Estimate on usage of money in the area in correspondence to length of the stay → effect on local economy (Finland)
  - Dissemination: information about Pasvik-Inari Trilateral Park is delivered!





Takk! Kiitos! Giitu! Спасибо! Thank You!