Photo of Chukotka, a large region covering 737,000 km2 in Russia's Far East. © Alexander Kutskiy.

ENVIRONMENT HOUSE GUEST DISCUSSION

REINDEER HERDERS AND RESILIENCE

24 February 2023 | 10:00 - 11:00 CET | IEH, Room 3 & YouTube

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UN environment programme

GENEVA ENVIRONMENT NETWORK

ENVIRONMENT HOUSE
GUEST DISCUSSION

REINDEER HERDERS AND RESILIENCE

24 FEB 2023 | 10.00 - 11.00 CET
International Environment House

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SPEAKERS

Anders OSKAL

Secretary General, Association of World Reindeer Herders &
Executive Director, International Centre for Reindeer Husbandry

Svein Disch MATHIESEN

Professor, The Arctic University of Norway

Ersin ESEN

Programme Management Officer, Europe Office, United Nations Environment Programme

Diana RIZZOLIO

Coordinator, Geneva Environment Network | Moderator

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Q&A

Closing Remarks

UN environment programme

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UN environment programme

GENEVA ENVIRONMENT NETWORK

ENVIRONMENT HOUSE GUEST DISCUSSION: REINDEER HERDERS AND RESILIENCE

Diana RIZZOLIO

GENEVA ENVIRONMENT NETWORK

Coordinator,
Geneva Environment Network

24 February 2023| 10.00 - 11.00 CET | International Environment House

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Anders OSKAL

Association of World Reindeer Herders

International Centre for Reindeer Husbandry

Secretary General, Association of World Reindeer Herders & Executive Director, International Centre for Reindeer Husbandry

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World Reindeer Herders

International Centre for Reindeer Husbandry
Международный Центр Оленеводства
Riikkaidgaskasaš Boazodoalloguovddáš

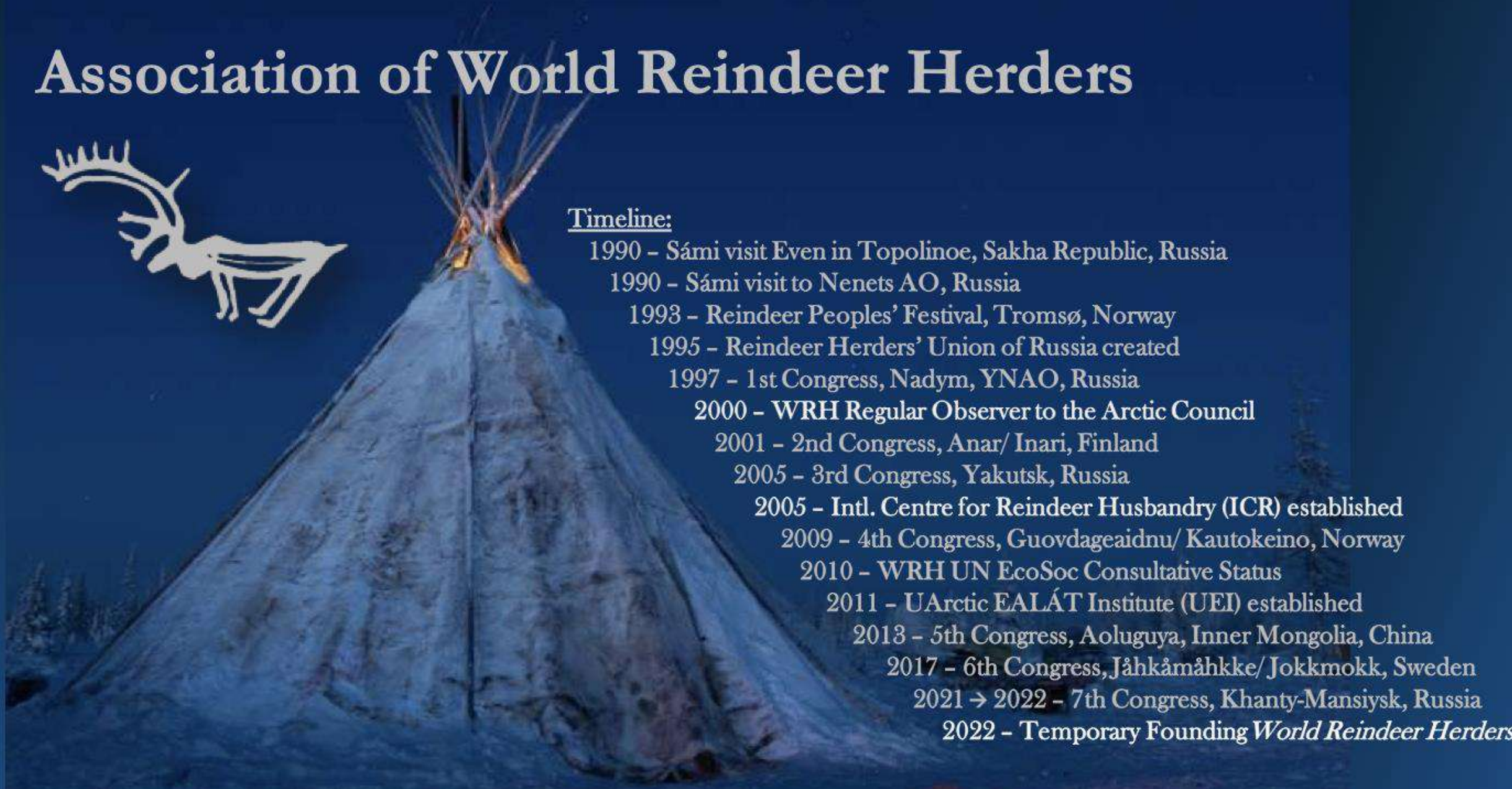
UArctic EALÁT Institute

Status of Circumpolar Reindeer Herding – Challenges and Opportunities
UNEP/ Environment House Guest Discussion, February 24, 2023

Anders Oskal
WRH GenSec / ICR ED

Pic: E.I Turi, IPY EALÁT, 2008

Association of World Reindeer Herders

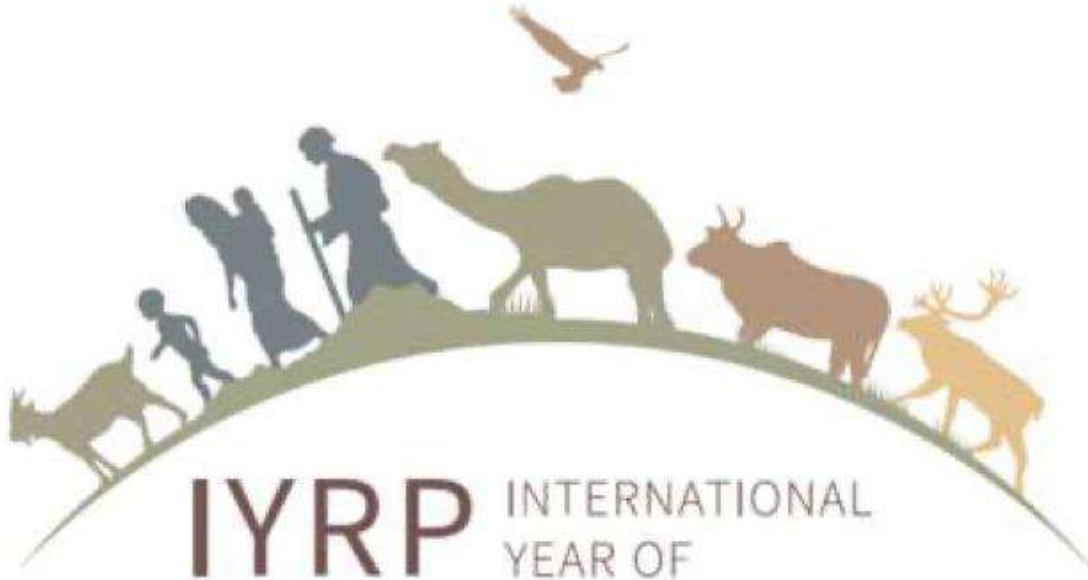


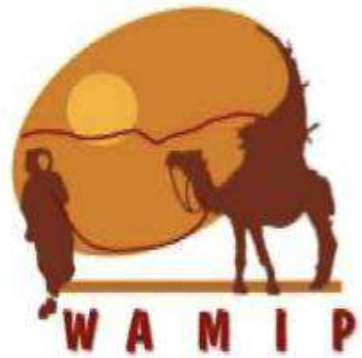
Timeline:

1990 – Sámi visit Even in Topolinoe, Sakha Republic, Russia
1990 – Sámi visit to Nenets AO, Russia
1993 – Reindeer Peoples' Festival, Tromsø, Norway
1995 – Reindeer Herders' Union of Russia created
1997 – 1st Congress, Nadym, YNAO, Russia
2000 – WRH Regular Observer to the Arctic Council
2001 – 2nd Congress, Anar/ Inari, Finland
2005 – 3rd Congress, Yakutsk, Russia
2005 – Intl. Centre for Reindeer Husbandry (ICR) established
2009 – 4th Congress, Guovdageaidnu/ Kautokeino, Norway
2010 – WRH UN EcoSoc Consultative Status
2011 – UArctic EALÁT Institute (UEI) established
2013 – 5th Congress, Aoluguya, Inner Mongolia, China
2017 – 6th Congress, Jåhkåmåhkke/ Jokkmokk, Sweden
2021 → 2022 – 7th Congress, Khanty-Mansiysk, Russia
2022 – Temporary Founding *World Reindeer Herders*

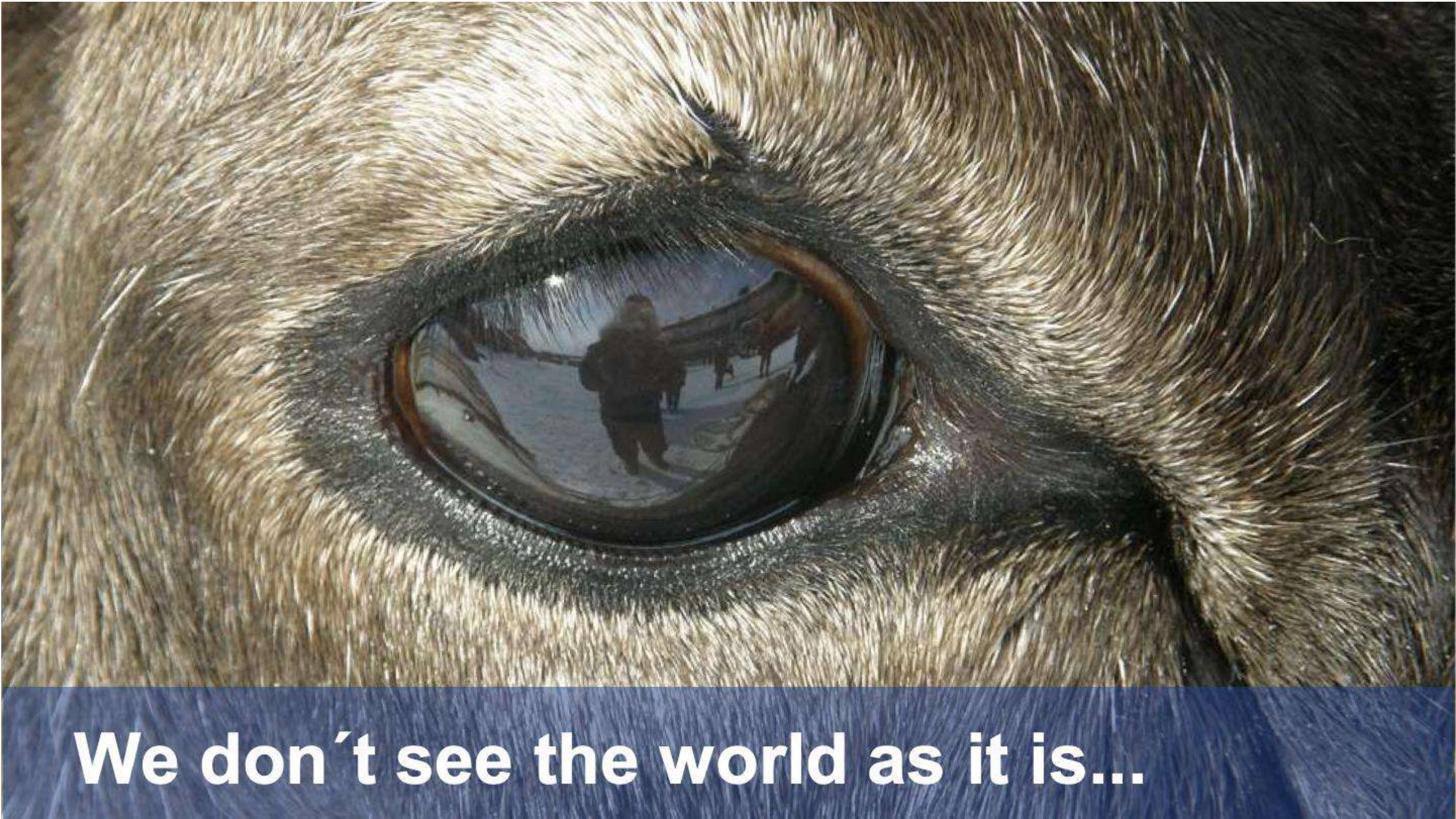
Khanty reindeer herders´ camp, YNAO, Russia. Pic: A.Ausland, ICR

UN year for pastoralists in 2026



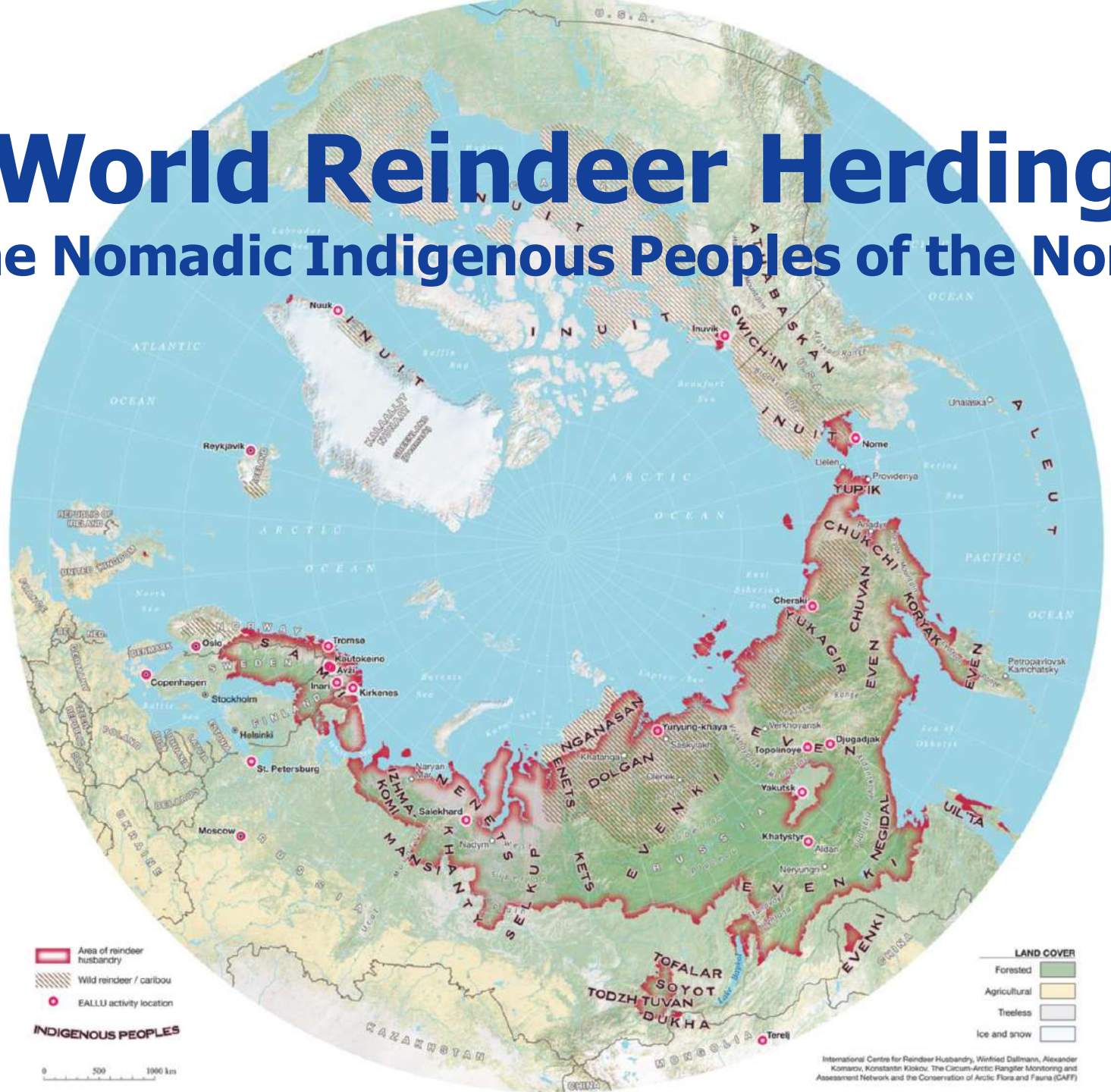


ICR


We don´t see the world as it is...

World Reindeer Herding

The Nomadic Indigenous Peoples of the North



Reindeer herding peoples

A diversity of indigenous cultures

24 Indigenous Peoples, about 100 000 people in all
About 2 300 000 domesticated reindeer
About 4 000 000 km² pasturelands
Across 10 National States

Reindeer peoples by language groups

Uralic group:	Altaic group:	Tungusic group:	Paleoasiatic group:	Others (newcomers):
Sámi	Dolgan	Even	Chukchi	Inupiat
Khanty	Tofalar	Evenk	Koryak	Yupik
Mansi	TodzaTuva	Negidal	Chuvan *	Inuvialiut
Nenets	Soyot	Orok	Yukagir *	Komi
Selkup	Dukha			Yakut
Enets				Finn
Nganasan				Norwegian
Khet *				Russian

* = *isolated languages*

Pic: L.Monami

Pic: E. Agruboeva

Reindeer Herding is an Arctic Indigenous, Nomadic Civilization

Pic: S.D Mathiesen, ICR/ EALÁT, 2008

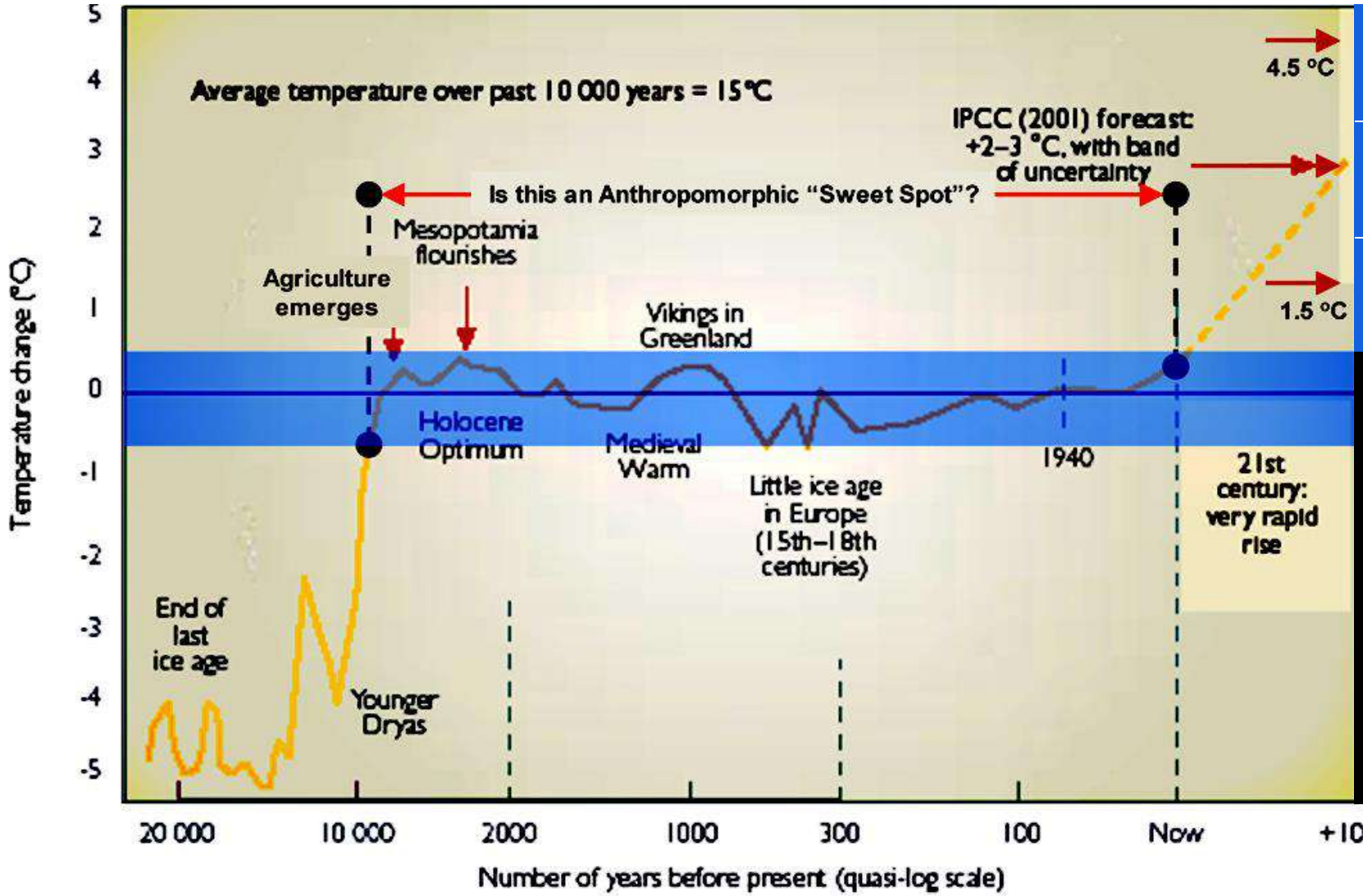
Pic: B. Alexander

Reindeer herding is essentially about utilizing marginal and variable resources, by mobility, ie. by following the reindeer

Reindeer herding in Yamal
Pic: Anders Oskal/ ICR, 2006

Our life is to follow the reindeer
Close interaction with and dependence
on our animals and nature
International Centre for Reindeer Husbandry
Международный Центр Оленеводства
Riikkaidgaskasaš Boazodoalloguovddáš
Photo: J.M. Gaup, 2009

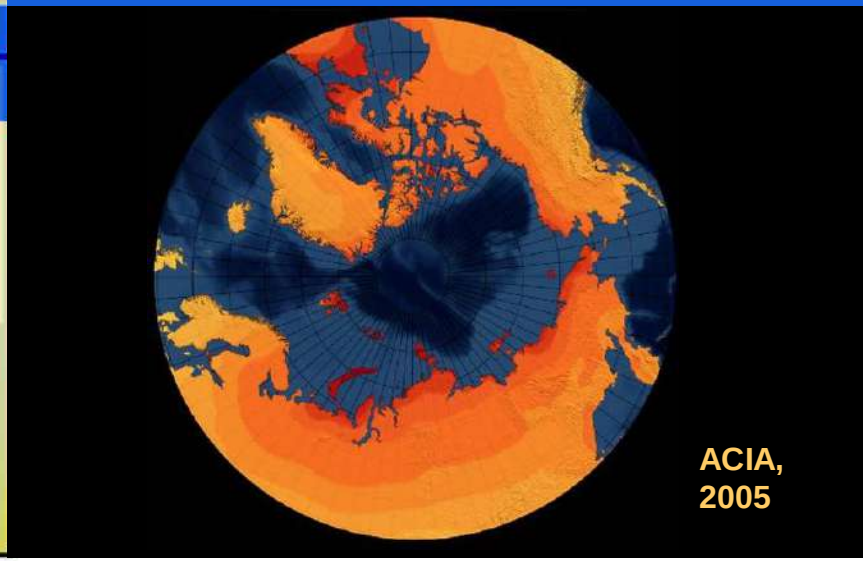
Climate Change as a Challenge for Humanity



750 ppm ~ 4.3 ^{0}C

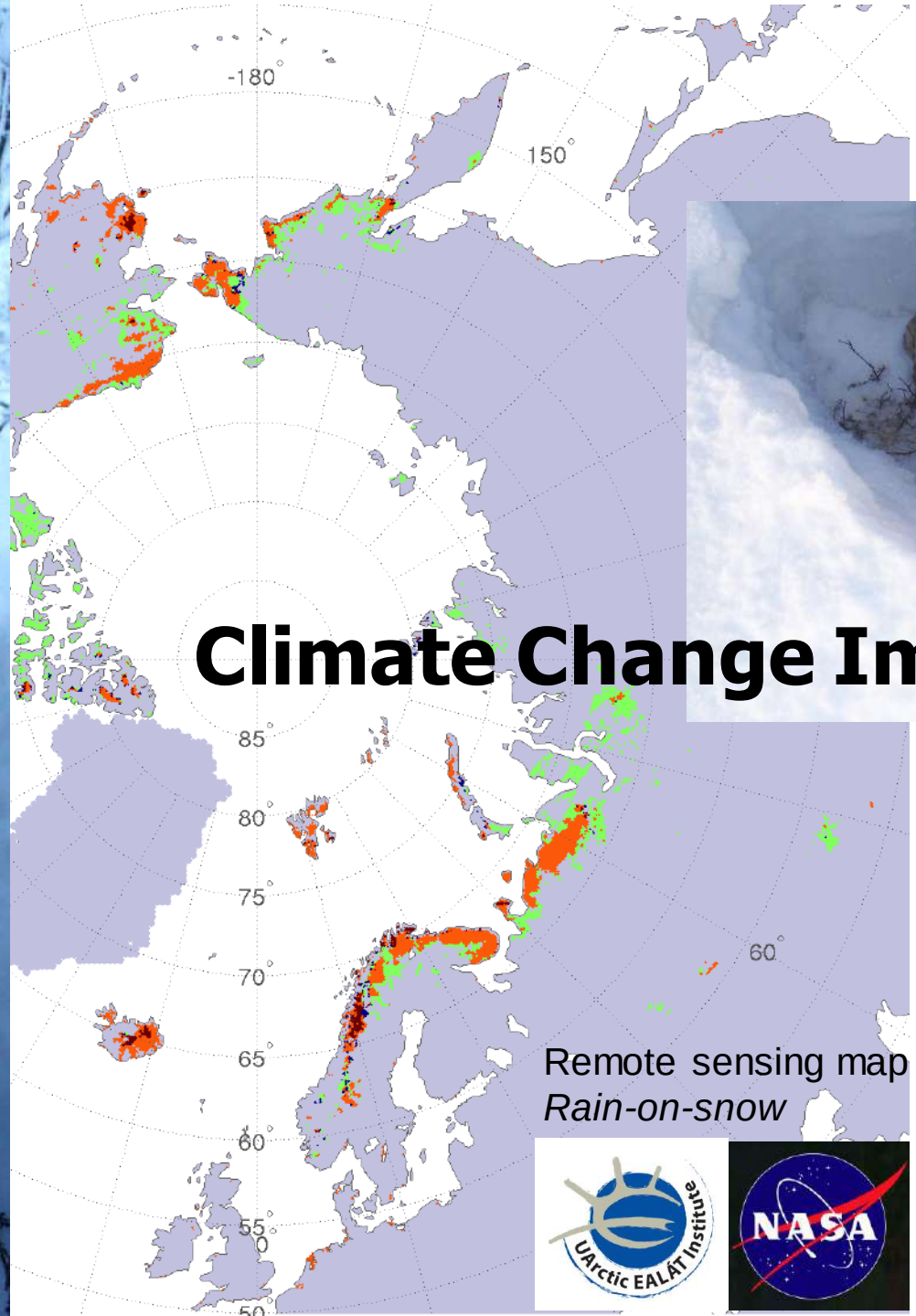
550 ppm ~ 3 ^{0}C

450 ppm ~ 2 ^{0}C



ACIA, 2005

Ex: Snow Change, Extreme Weather Events, Access to Pastures



Climate Change Impacts

Remote sensing map
Rain-on-snow

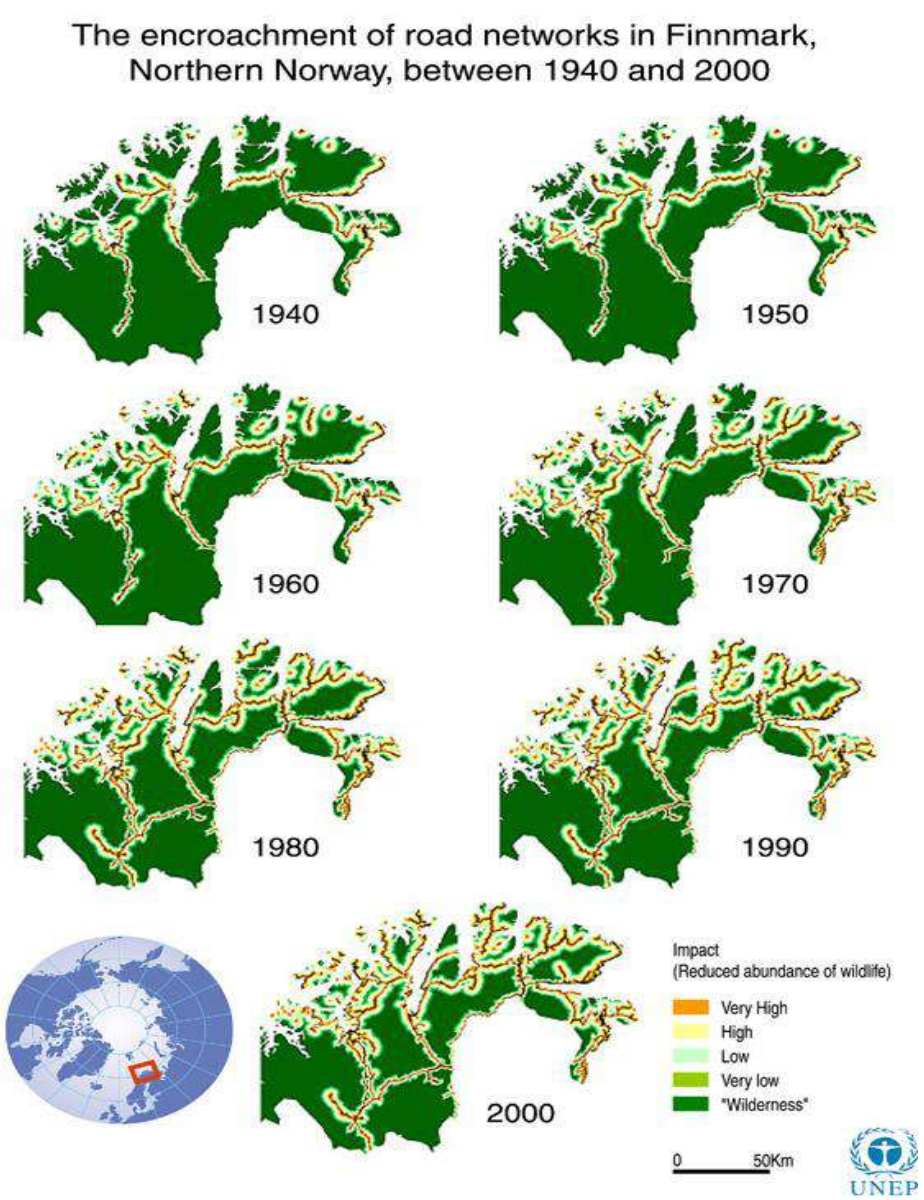
Climate Change & Loss of Pastures: Taiga / Tundra Fires

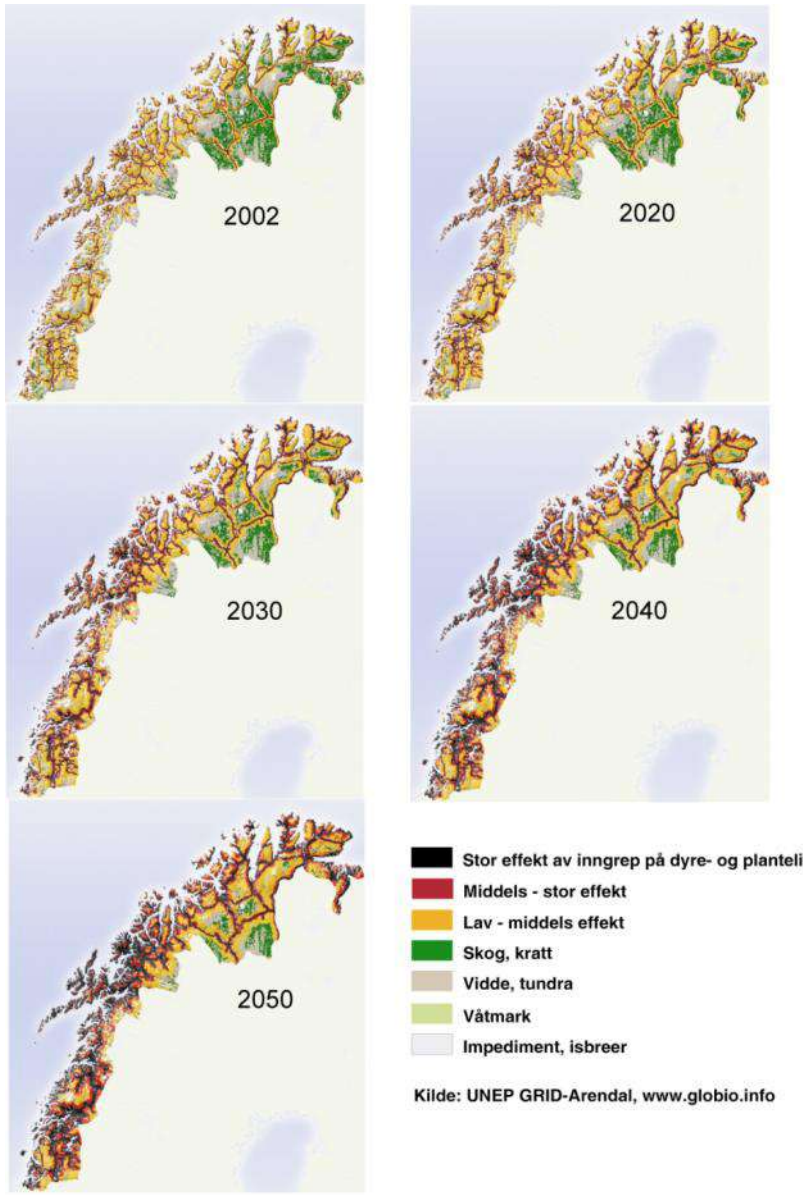
Pics: ArcticPortal/ NASA, NOAA/NASA Sentinel/ P.Markuse, fires.ru, Siberian Times

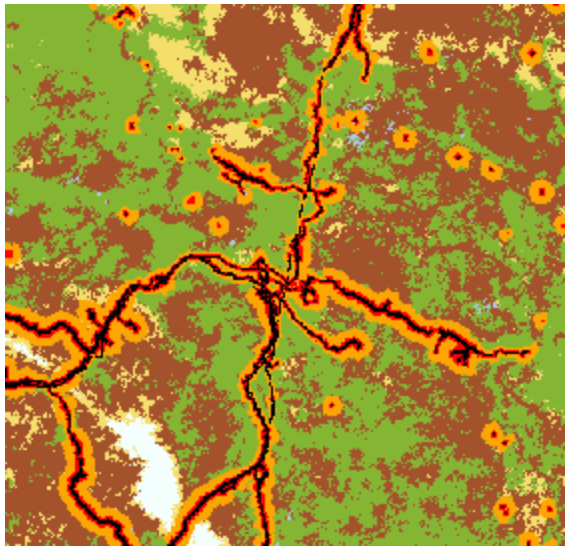
The Arctic is becoming an integrated part of the global economy

Pic: Nenets Reindeer Herder in Bovanenkova, YNAO, ICR/ IPY EALÁT

GLOBIO - Global Methodology for Mapping Human Impacts on the Biosphere







UNEP GRID ARENDAL

ICR

Ex: Mitigation - Windmills on coastal mountains in Scandinavia

fjord, Norway. Nrk.no

- **28 Polar Regions Chapter**
  - **28.4 Human Adaptation**
  - **28.4.1 Indigenous Peoples**

"…Protection of grazing land will be the most important adaptive strategy for reindeer herders under climate change."

(Nymand-Larsen *et al.,* 2014, referencing Forbes *et al.,* 2009; Magga *et al.,* 2011; Kumpula *et al.,* 2012; Degteva and Nellemann, 2013; Mathiesen *et al*., 2013)

ICR

A voice in sustainable development?

"…Indigenous reindeer herding is threatened by multiple drivers of environmental and social change across the circumpolar North, which affect the sustainability of traditional family-based nomadic use of pastures. These impacts on indigenous peoples are exacerbated by their lack of voice in the development of governance strategies, management and adaptation responses."

Eira, Inger Marie G, Anders Oskal, Inger Hanssen-Bauer & Svein D Mathiesen (2018):
Snow cover and the loss of traditional indigenous knowledge.
Nature Climate Change. ISSN 1758-678X.s doi: 10.1038/s41558-018-0319-2.

ICR

Sámi allaskuvla
Sámi University College

Pic: Anne Katja Gaup, Guovdageaidnu, 2018

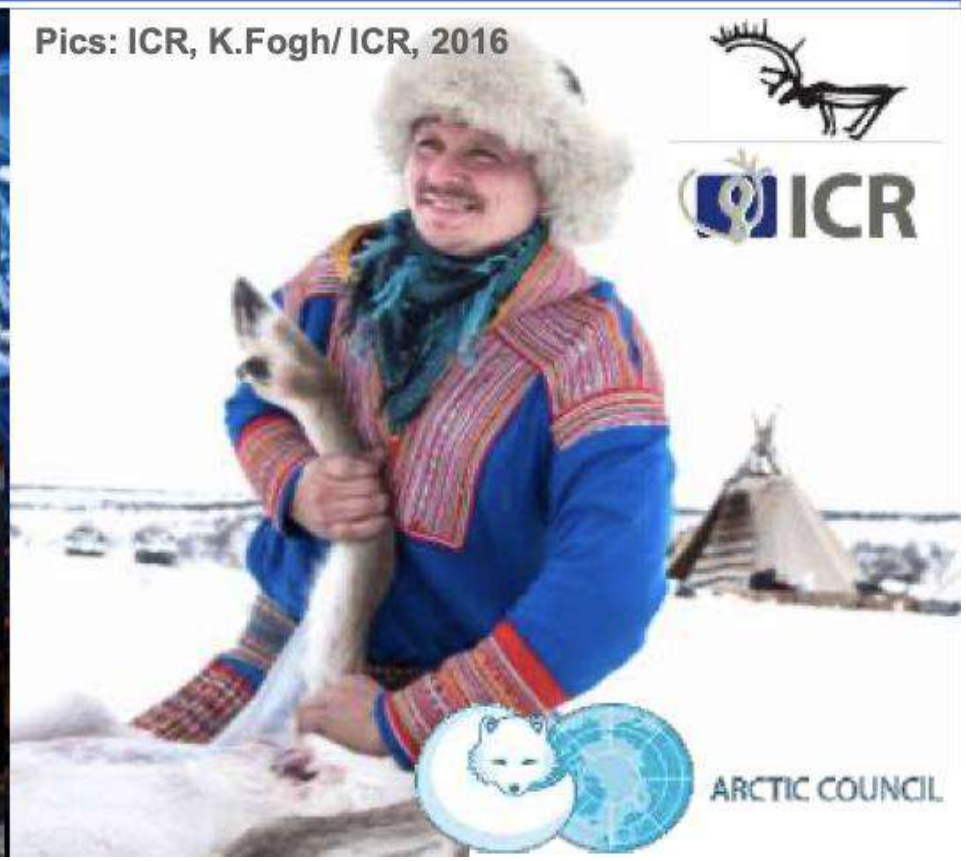
Change means both challenges and opportunities...
Pic: S.D Mathiesen, ICR

Use our own knowledge
to develop our own societies

EALLU: Indigenous Youth, Food Knowledge and Arctic Change

How can Traditional Knowledge and Food Culture be Utilized in Responding to Arctic Change?

Pics: ICR, K.Fogh/ ICR, 2016



Chapters:

Nenets
Sámi
Chukchi
Koryak
Dolgan
Evenki
Nivkh
Even
Yukagir
Dukha
Mongolia
Inupiaq
Inuvialuit
Aleut
Gwich´in
Athabascan

Indigenous Youth, Food Knowledge & Arctic Change

EAllU

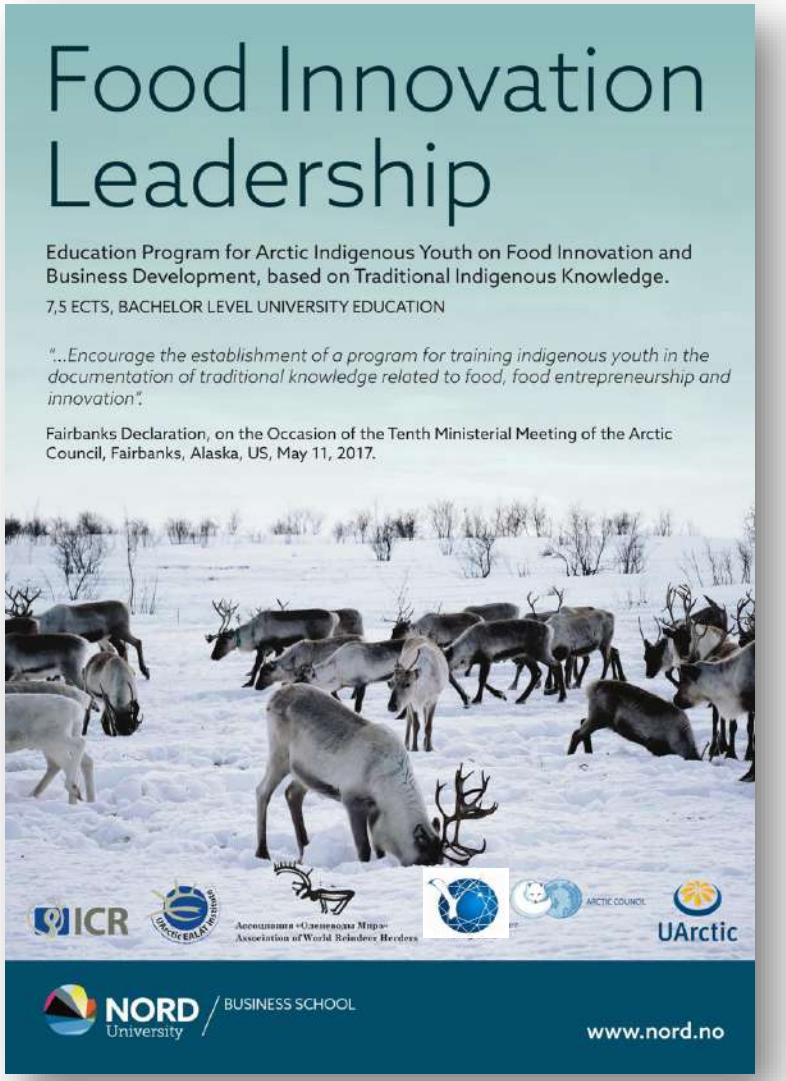
50+ indigenous youth, 14 ind. peoples
Document food culture and systems
Arctic Council Ministerial, Alaska 2017

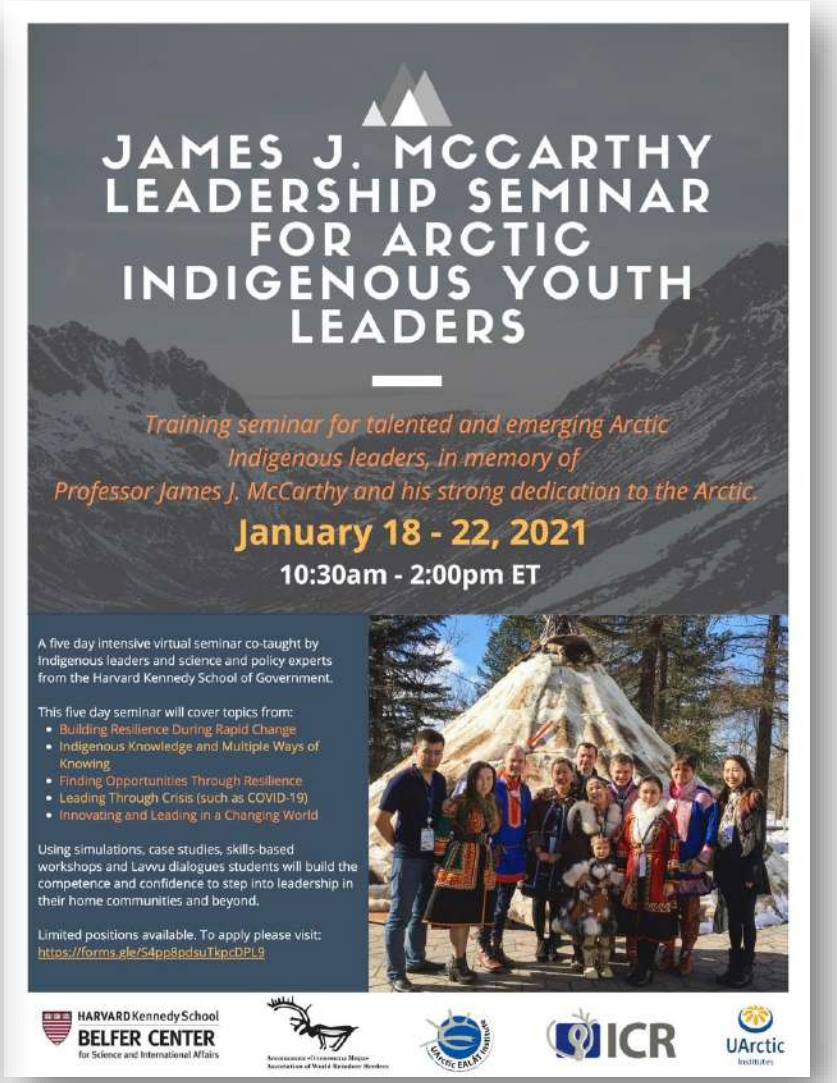
Opportunities: Current food trends

(In no particular order)

- Sustainable
- Ethnicity, roots, traditions
- Organic, pure
- Animal welfare
- Genuine, ´wilderness´
- Health, well-being
- Protein and low-carb diets
- Focus on meat sustainability
- Origin, transparency
- Fair trade
- Taste, specialties
- Health, well-being

EALLU & Education Opportunities for Indigenous Youth





- ***Competence***
- ***Confidence***
- ***Contacts***
- **Using Traditional Knowledge and Science**

Boaššu / NOMAD Indigenous FoodLab

@ the Stockholm+50
UNEP Anniversary

Probably the Coolest

Our FoodLab @ FAO World Food Day, Rome 2022

Our food systems

Bocuse d´Or 2023

Vårt bidrag under Bocuse d´Or VIP Dinner
21. januar 2023

Bocuse d´Or VIP Dinner
Paul Bocuse L´Abbaye Restaurant
21. januar 2023

Boaššu / NOMAD
Indigenous FoodLab

The age-old agreement between reindeer and our people…

Pic: El Turi, ICR/EALÁT

World Reindeer Herders

International Centre for Reindeer Husbandry
Международный Центр Оленеводства
Riikkaidgaskasaš Boazodoalloguovddáš

Pic: E.I Turi, IPY EALÁT, 2008

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UN environment programme

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International Centre for Reindeer Husbandry
Международный Центр Оленеводства
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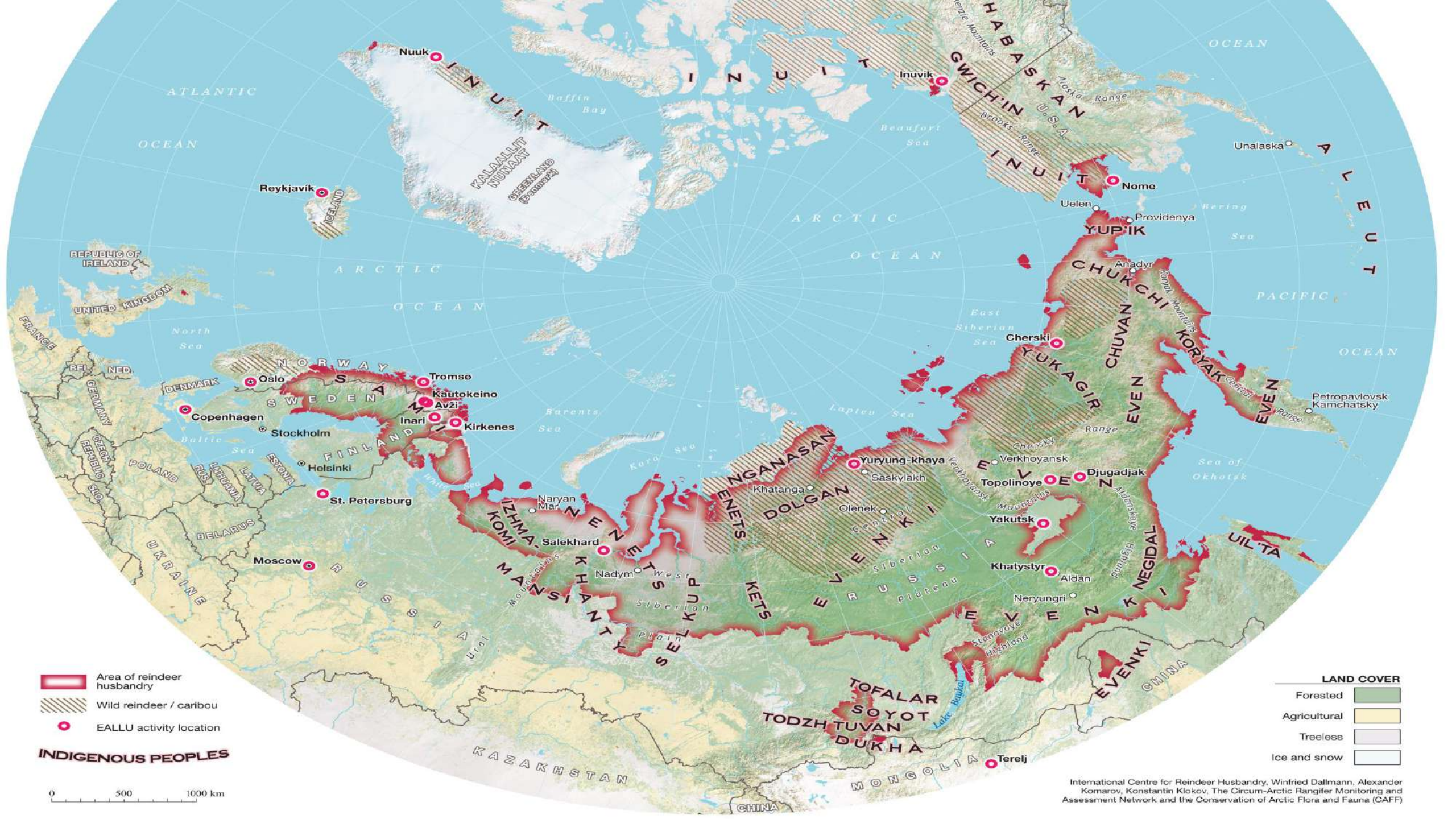
REINDEER HERDING AND RESILIENCE

Managing Peatlands in Mongolia and Enhancing the Resilience of Pastoral Ecosystems and Livelihoods of Nomadic Herders

Svein Disch Mathiesen
professor, phd

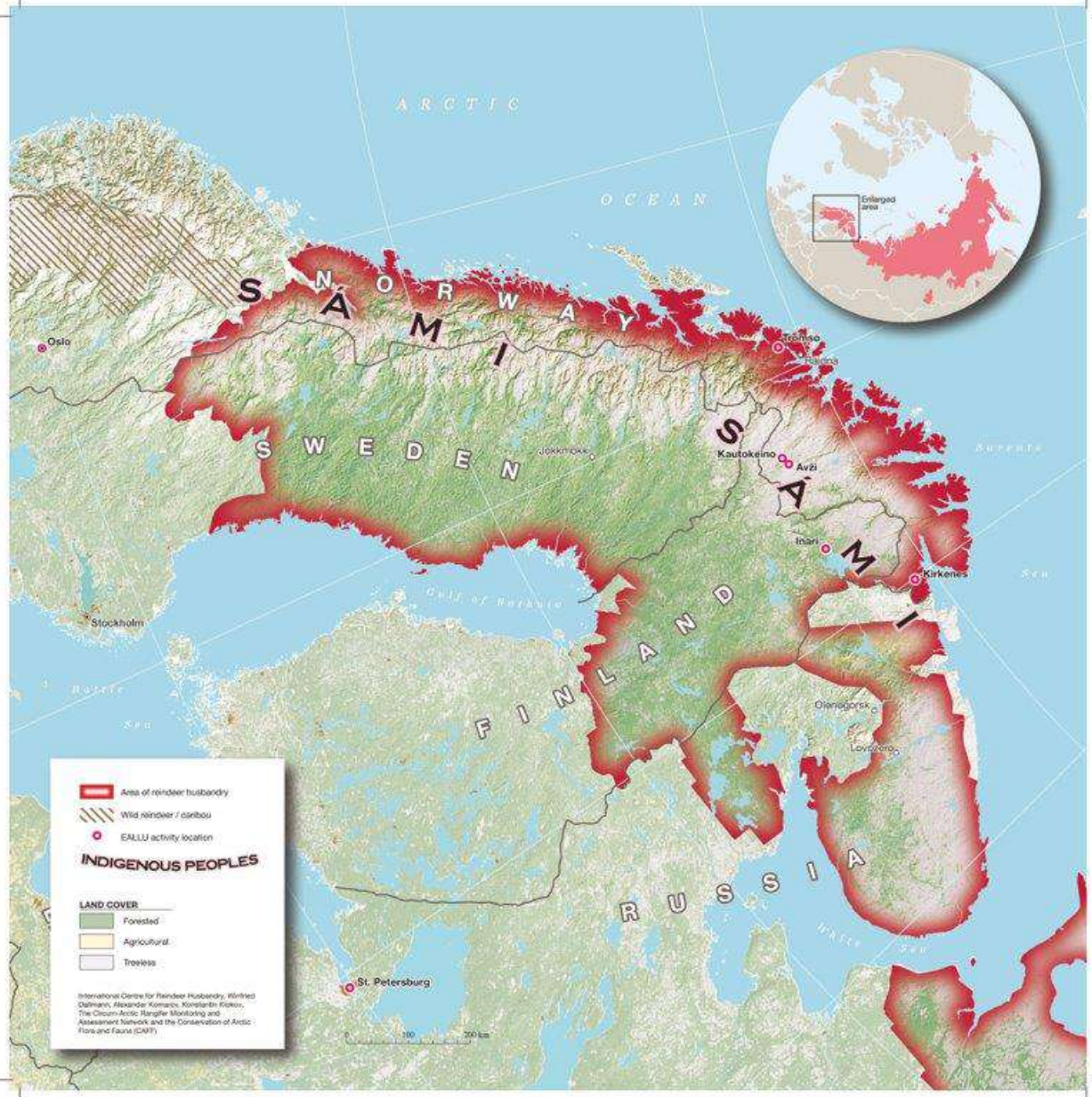


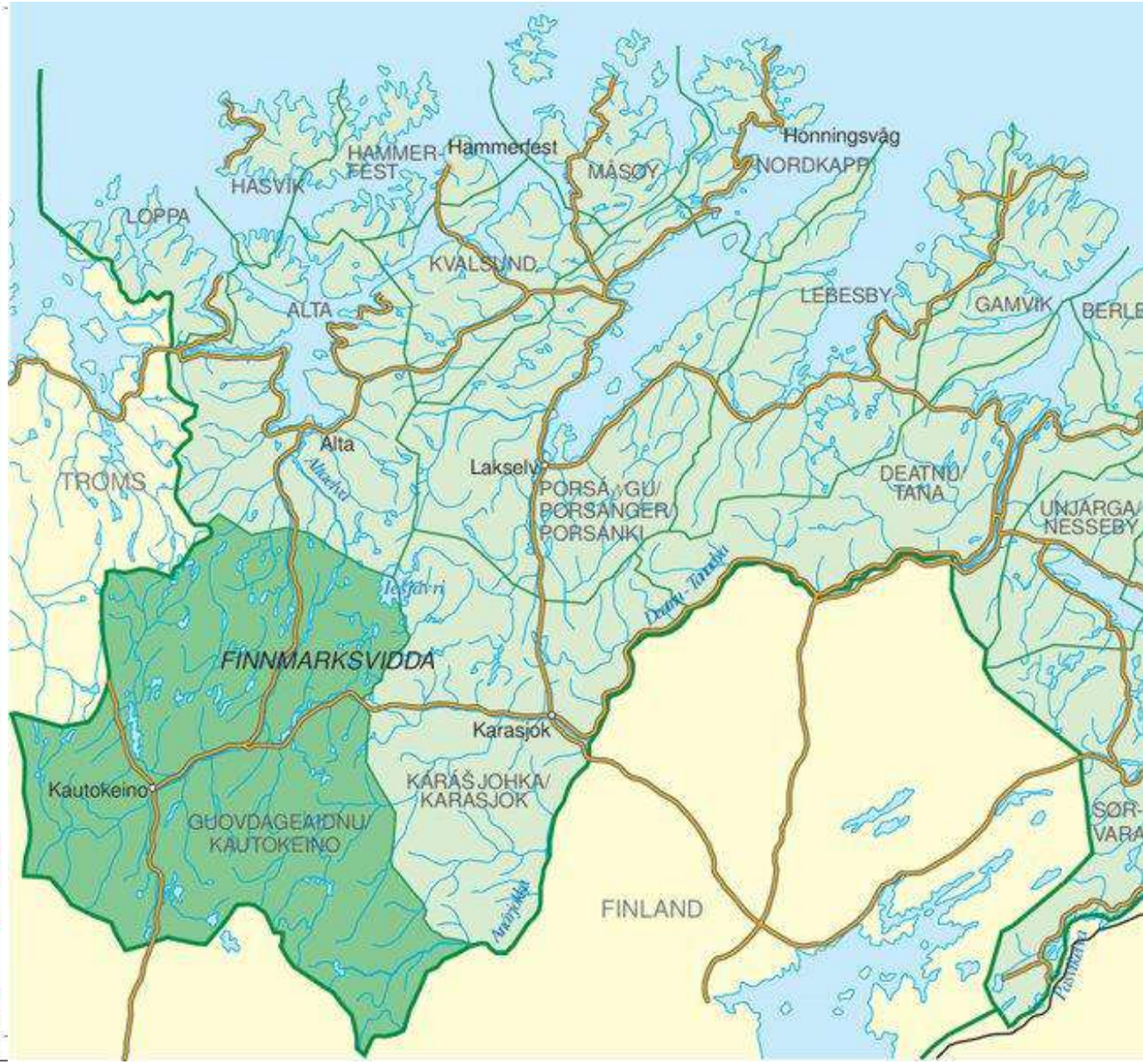
International Centre for Reindeer Husbandry, Winfried Dallmann, Alexander Komarov, Konstantin Klokov, The Circum-Arctic Rangifer Monitoring and Assessment Network and the Conservation of Arctic Flora and Fauna (CAFF)

TİKA

Gora Munku-Sardyk
Kyzyl-Khem
Hvsgl Nuur
Suchboatar
Ingada
Uvs Nuur
Ulaangom
Moron
Selenge
Darhan
Erdenet
Olgiy
Hyargas Nuur
Hodrogo
Bulgan
Dzuunharaa
Dund-Us
Har Nuur
Uliastay
Tsetserleg
Orhon
Ulaanbaatar
Choybalsan
Ondorhaan
Herlen
Otgon Tenger
Munkh Khairkhan
Altay
Bayankhongor
Arvayheer
Baruun Urt
Mandalgovi
Tergun Bogd
Buyant-Uhaa
Ulaan-Uul
Erenhot
Dalandzadgad
Dund Sayhni Nuru

International Centre for Reindeer Husbandry
Международный Центр Оленеводства
Riikkaidgaskasaš Boazodoallogiovddáš


ARCTIC
OCEAN
SAMI
NORWAY
SWEDEN
FINLAND
RUSSIA
Oslo
Stockholm
Kautokeino
Avži
Inari
Kirkenes
St. Petersburg
Area of reindeer husbandry
Wild reindeer / caribou
EALLU activity location
INDIGENOUS PEOPLES
LAND COVER
Forested
Agricultural
Treeless


HAMMER-FEST
Hammerfest
HASVIK
MÅSØY
Honningsvåg
NORDKAPP
LOPPA
KVALSUND
ALTA
LEBESBY
GAMVIK
Alta
TROMS
Lakselv
PORSÁ/GU/PORSÁNGER/PORSÁNKI
DEATNU/TANA
FINNMARKSVIDDA
Karasjok
Kautokeino
KARÁŠJOHKA/KARASJOK
GUOVDAGEAIDNU/KAUTOKEINO
FINLAND

What is land degradation?

What is a gender sensitive knowledge base for enhanced resilience

3 Global knowledge-base and capacity for herders' contribution to sustainable landscape management

Outcome 3.1

- Sustainable landscape management approaches institutionalized for global reindeer husbandry

Outcome 3.2

- Global nomadic pastoralist communities participate in rangeland management structures and processes with enhanced capacity

Outcome 3.2

- Global stakeholder groups support and use project's good practices, lessons learned on herders' contribution to sustainable landscape management in future operations

International Centre for Reindeer Husbandry
Международный Центр Оленеводства
Riikkaidgaskasaš Boazodoalloguovddáš

International Centre for Reindeer Husbandry
Международный Центр Оленеводства
Riikkaidgaskasaš Boazodoalloguovddáš

Framing Adaptation to Rapid Change in the Arctic

Marina Tonkopeeva, Robert W. Corell, Nancy G. Maynard, Ellen Inga Turi, Inger Marie Gaup Eira, Anders Oskal, Svein D. Mathiesen

International Centre for Reindeer Husbandry
Международный Центр Оленеводства
Riikkaidgaskasaš Boazodoalloguovddáš

Climate Change Impacts on Reindeer Husbandry

Direct impacts:

- **Pasture *access* for reindeer**
- **Freeze/ thaw cycle change, i.e. change in migratory patters and grazing systems**
- **Changes in species, for instance more/ new insects**
- **Longer term: Vegetation change**
- **Place-dependent**

Indirect impacts:

- **Changed use of the Arctic**

International Centre for Reindeer Husbandry
Международный Центр Оленеводства
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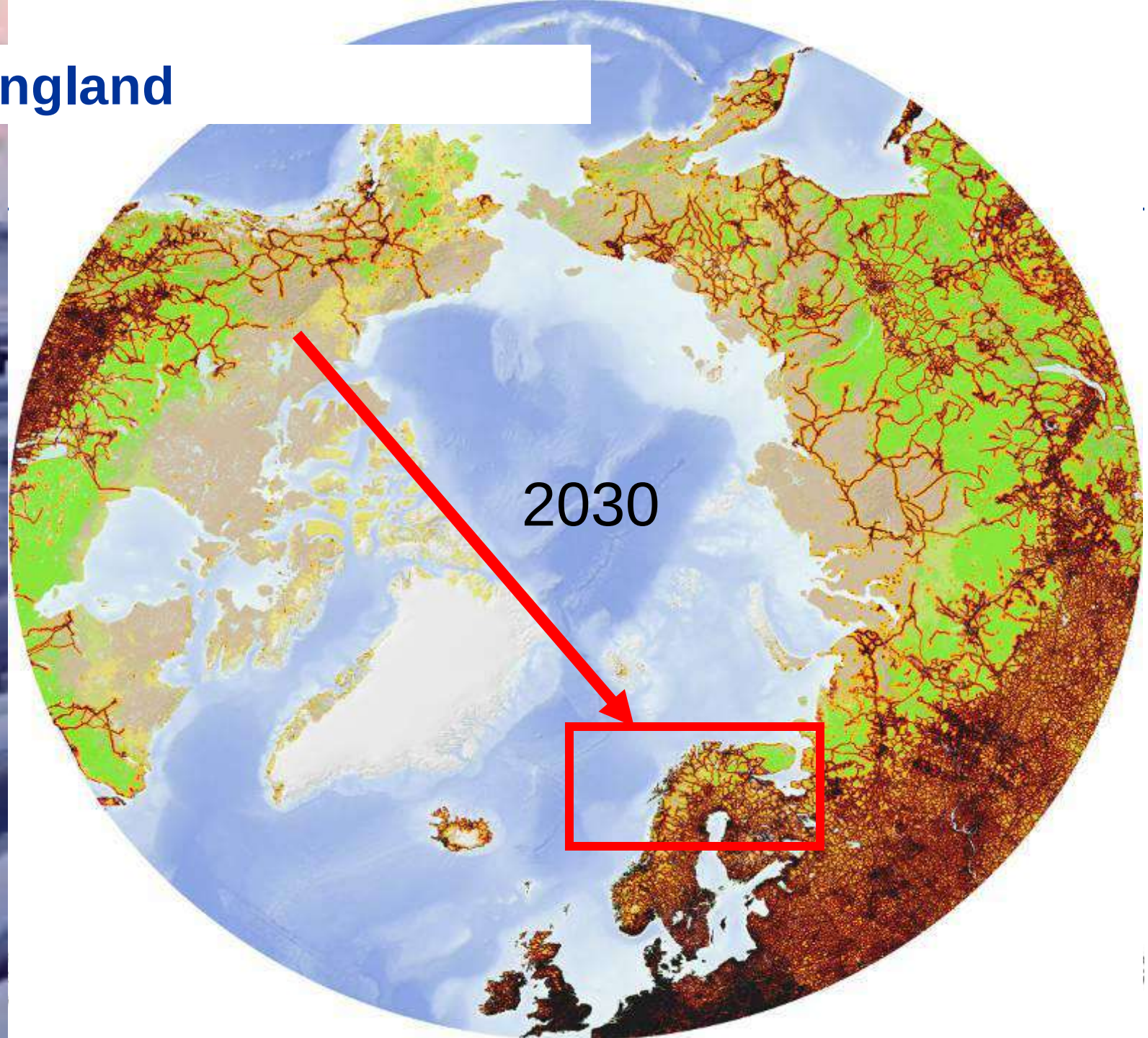
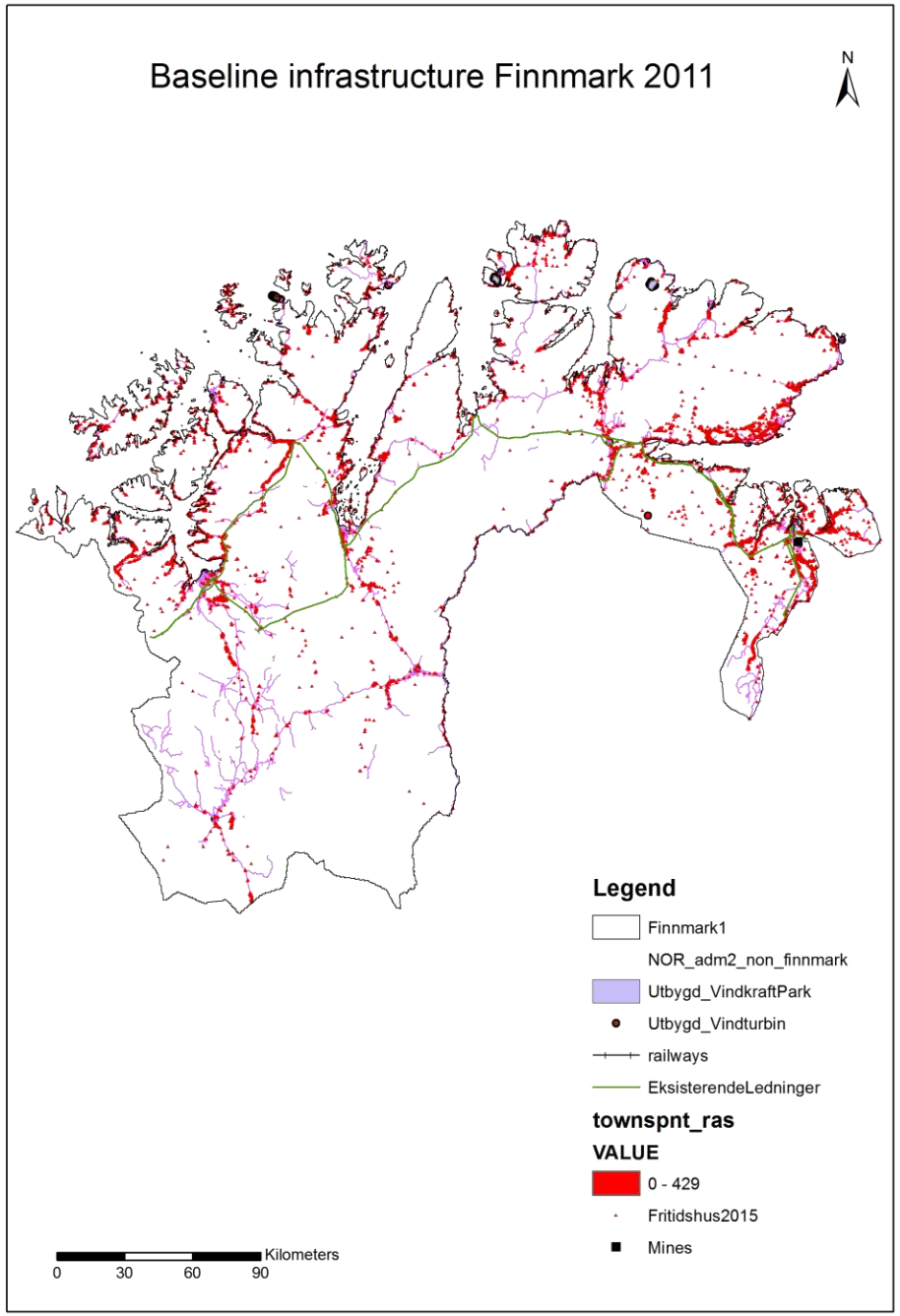
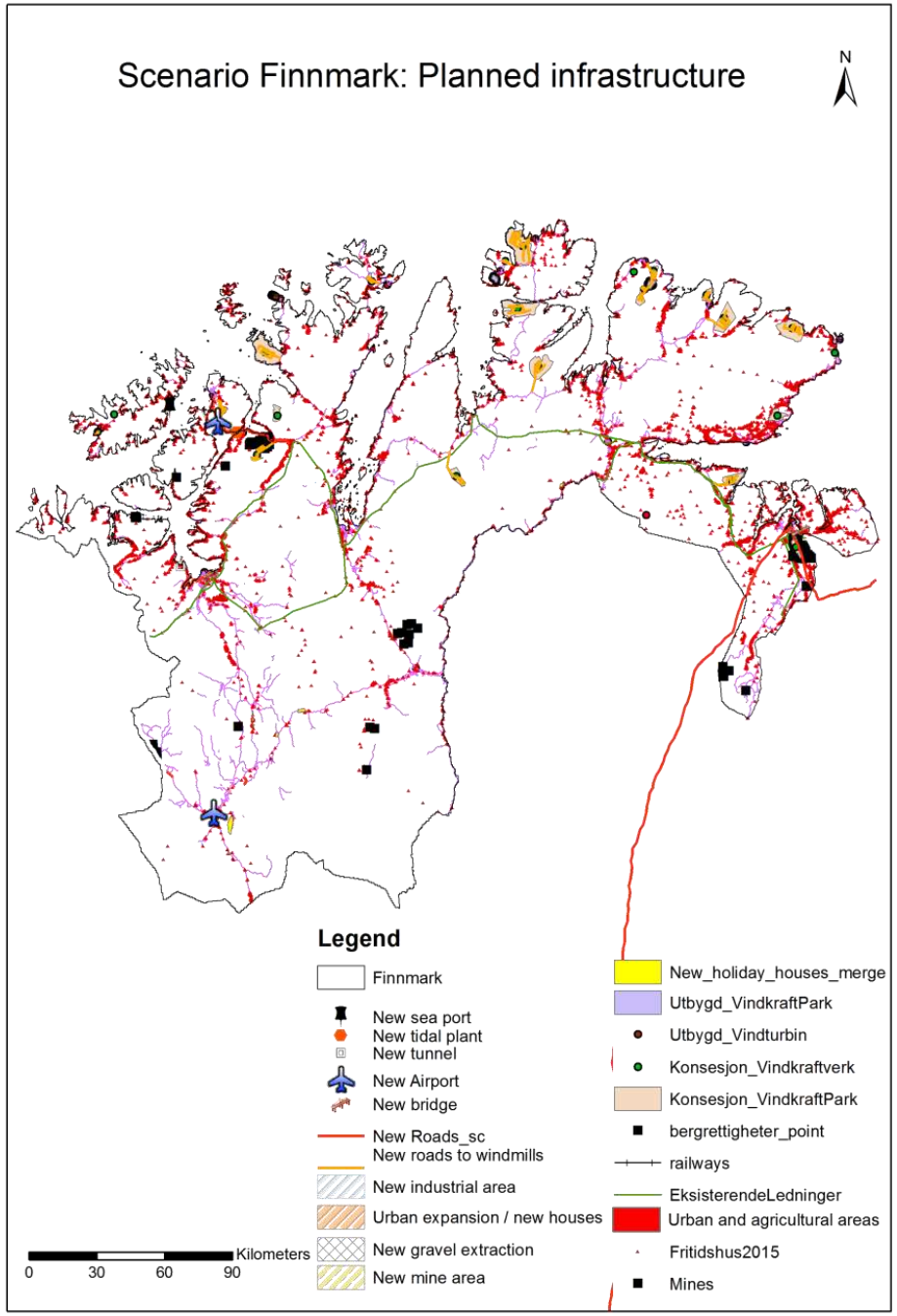
265

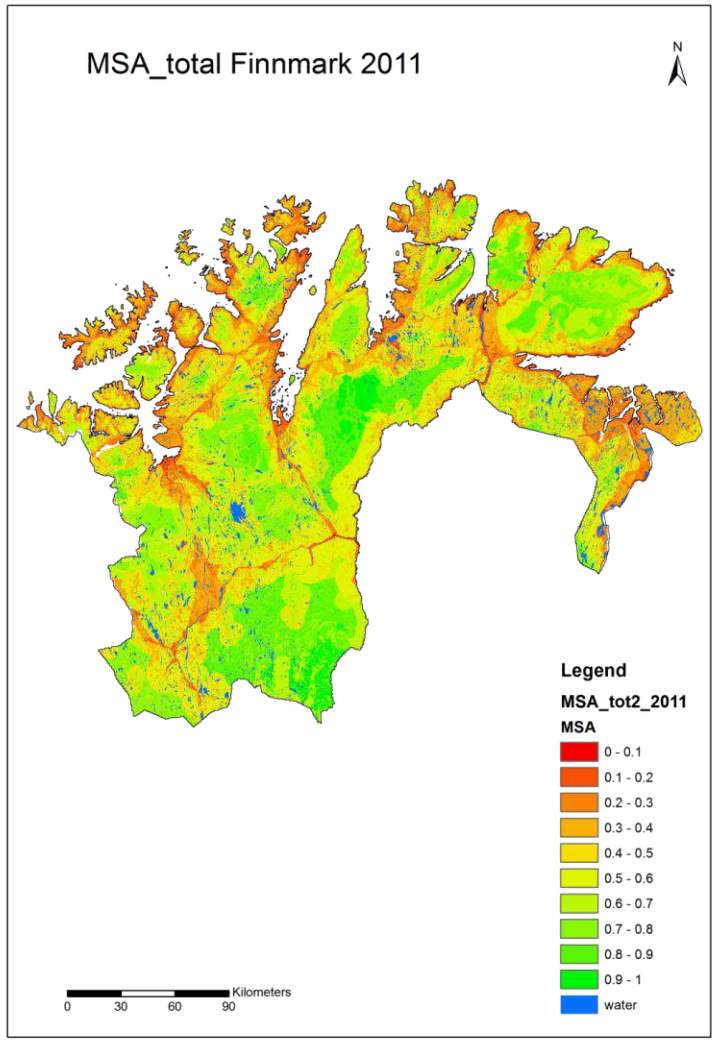
Loss of grazingland

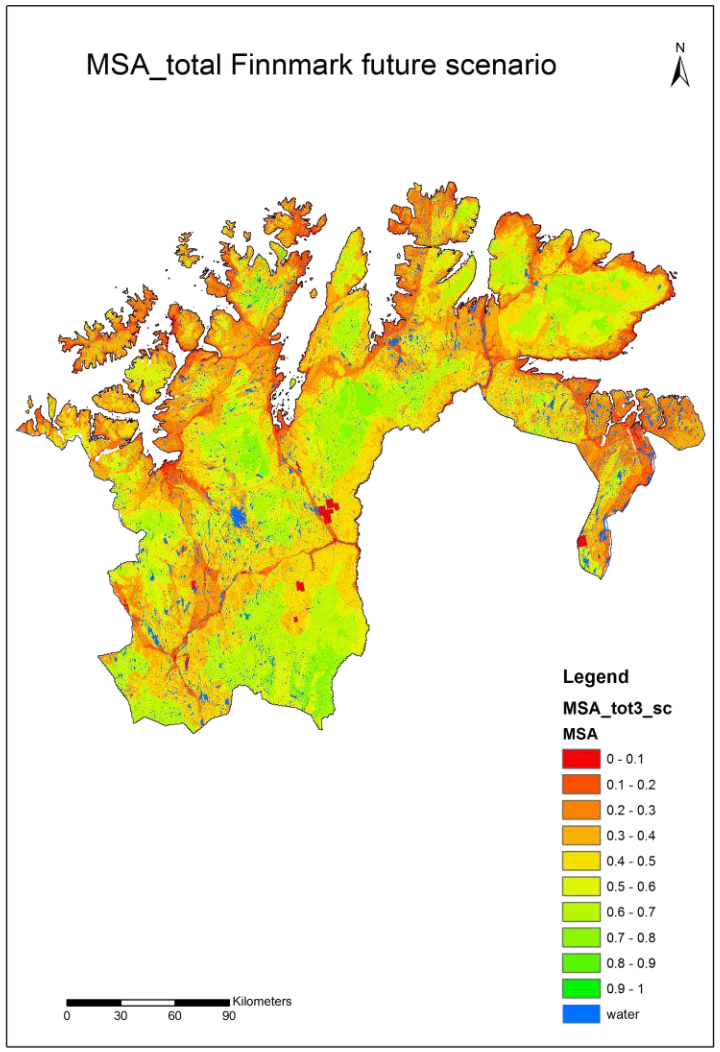



Baseline infrastructure Finnmark 2011
N
Legend
Finnmark1
NOR_adm2_non_finnmark
Utbygd_VindkraftPark
Utbygd_Vindturbin
railways
EksisterendeLedninger
townspnt_ras
VALUE
0 - 429
Fritidshus2015
Mines
Kilometers
0 30 60 90


Scenario Finnmark: Planned infrastructure
N
Legend
Finnmark
New sea port
New tidal plant
New tunnel
New Airport
New bridge
New Roads_sc
New roads to windmills
New industrial area
Urban expansion / new houses
New gravel extraction
New mine area
New_holiday_houses_merge
Utbygd_VindkraftPark
Utbygd_Vindturbin
Konsesjon_Vindkraftverk
Konsesjon_VindkraftPark
bergrettigheter_point
railways
EksisterendeLedninger
Urban and agricultural areas
Fritidshus2015
Mines
Kilometers
0 30 60 90

MSA total: 2011 versus scenario (2030) Finnmark

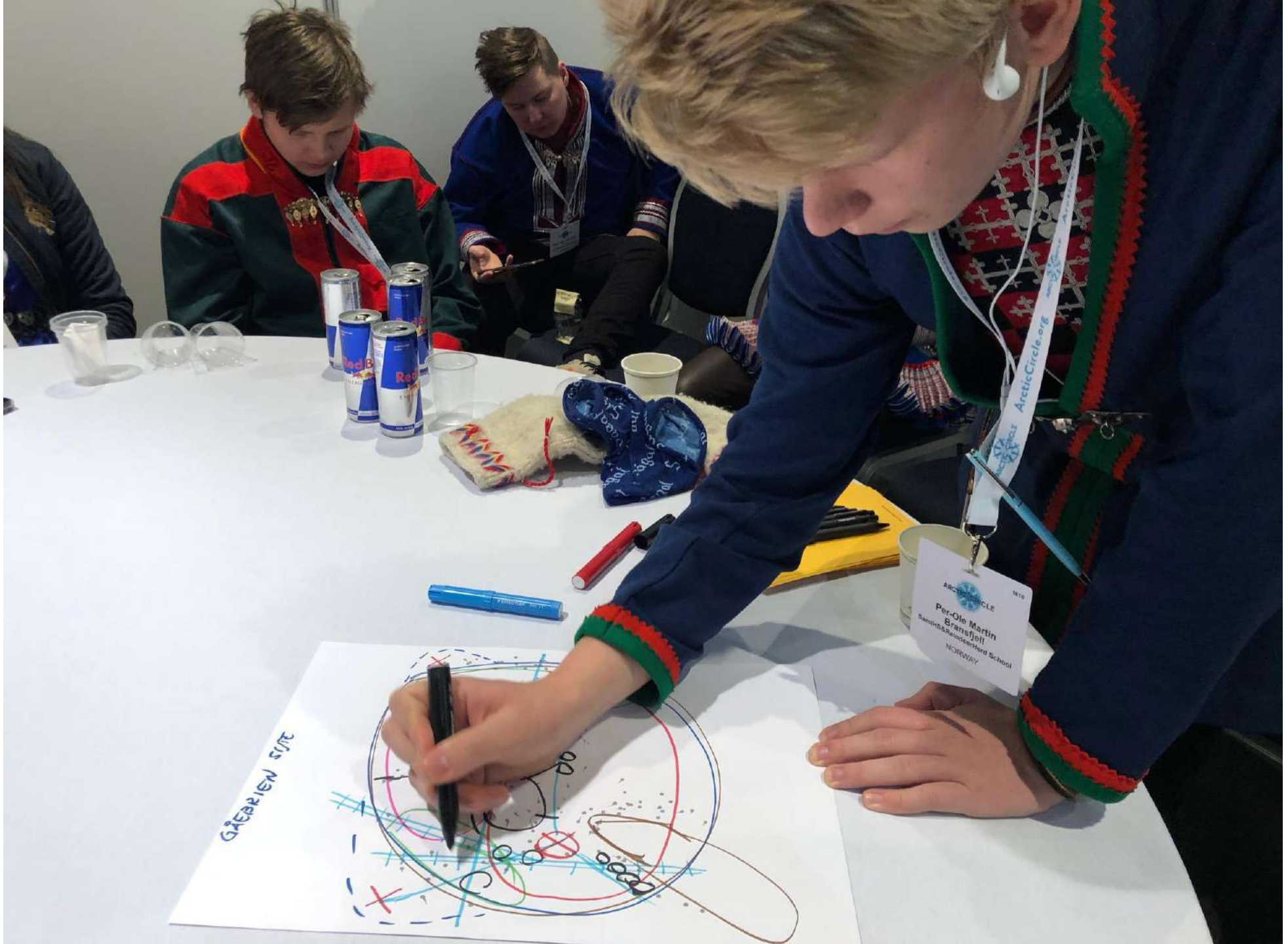




ICR International Centre for Reindeer Husbandry

PBL Netherlands Environmental Assessment Agency

Plansup


Per-Ole Martin
Bransfjell
NORWAY

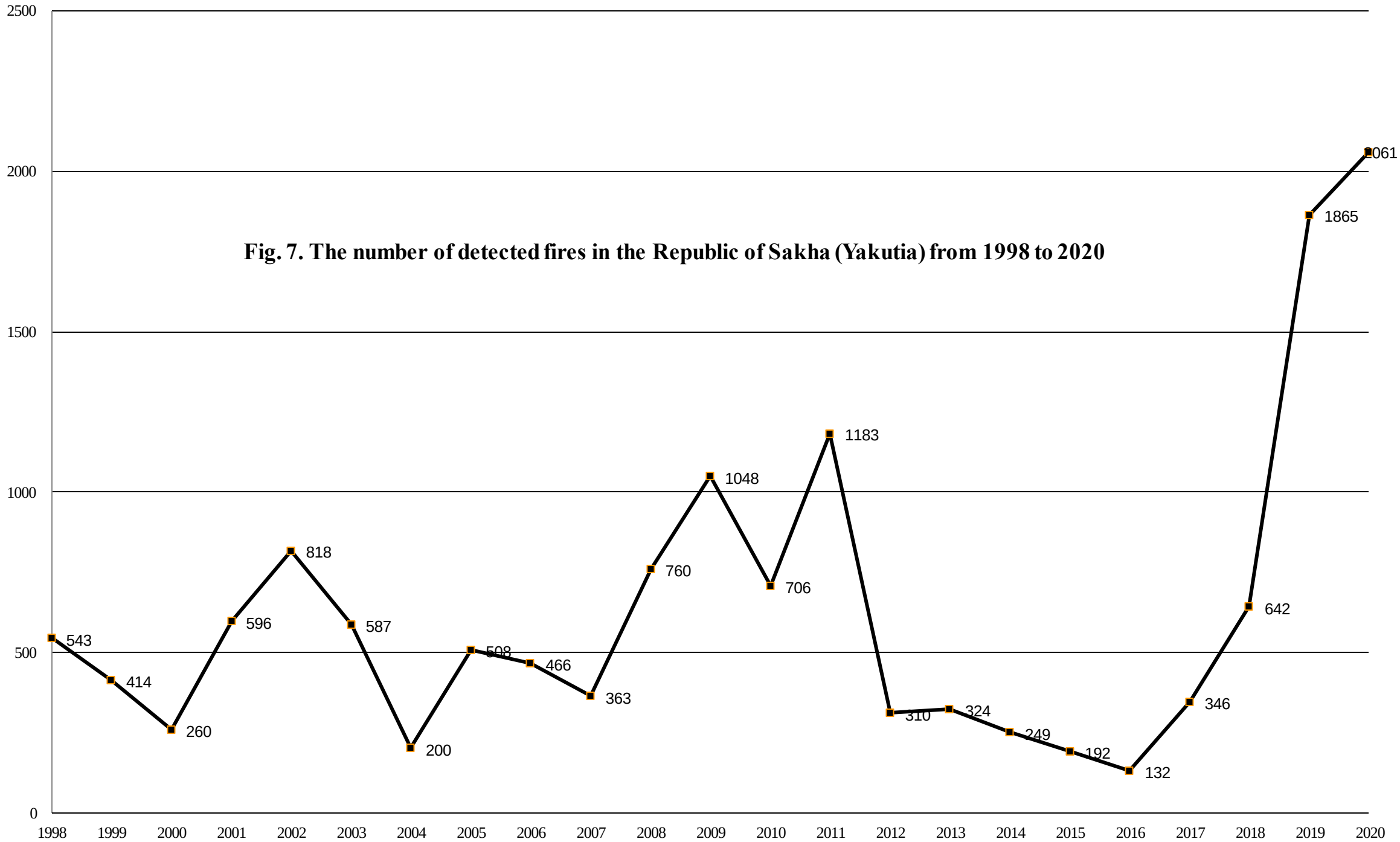
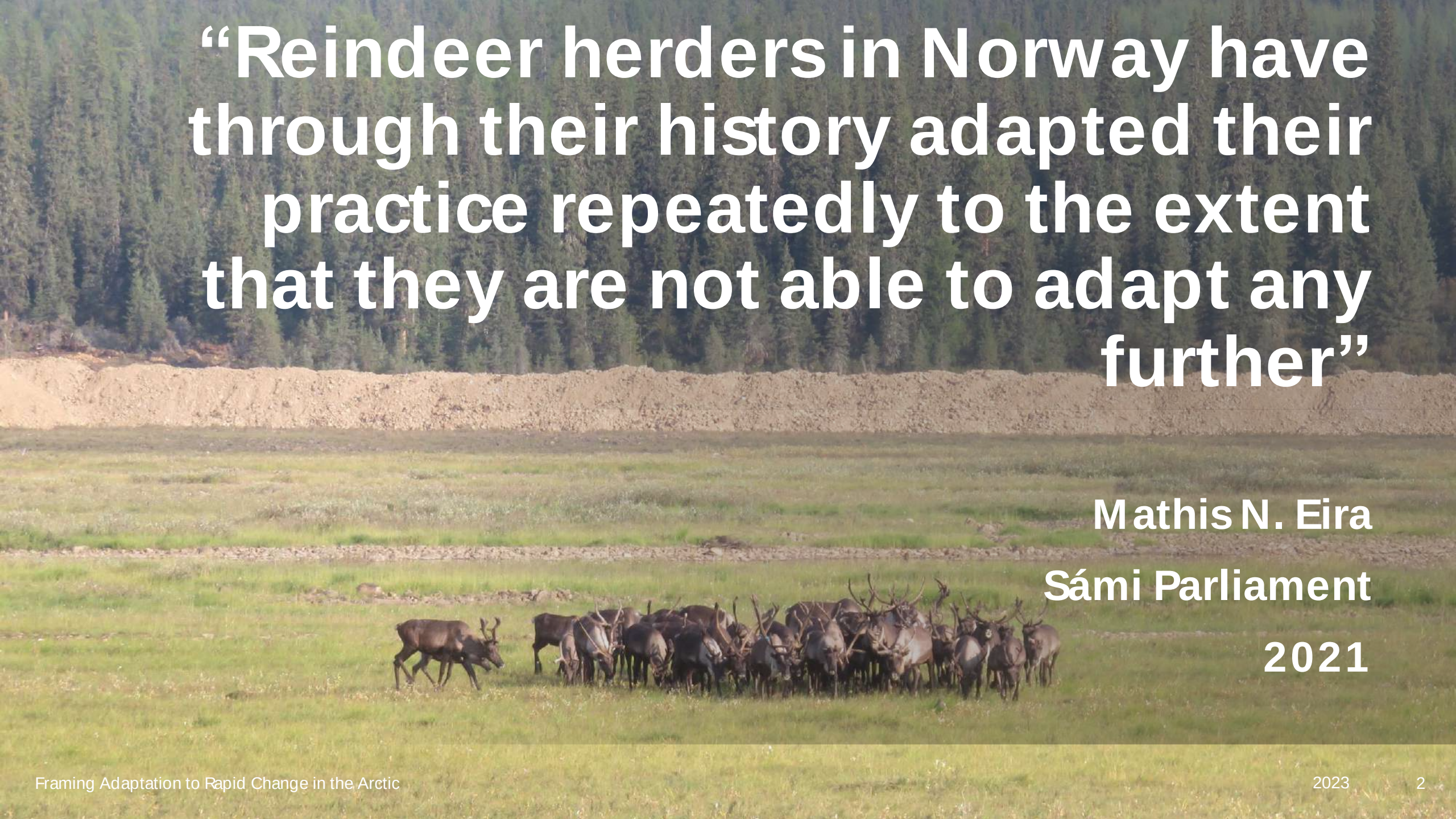


Fig. 7. The number of detected fires in the Republic of Sakha (Yakutia) from 1998 to 2020

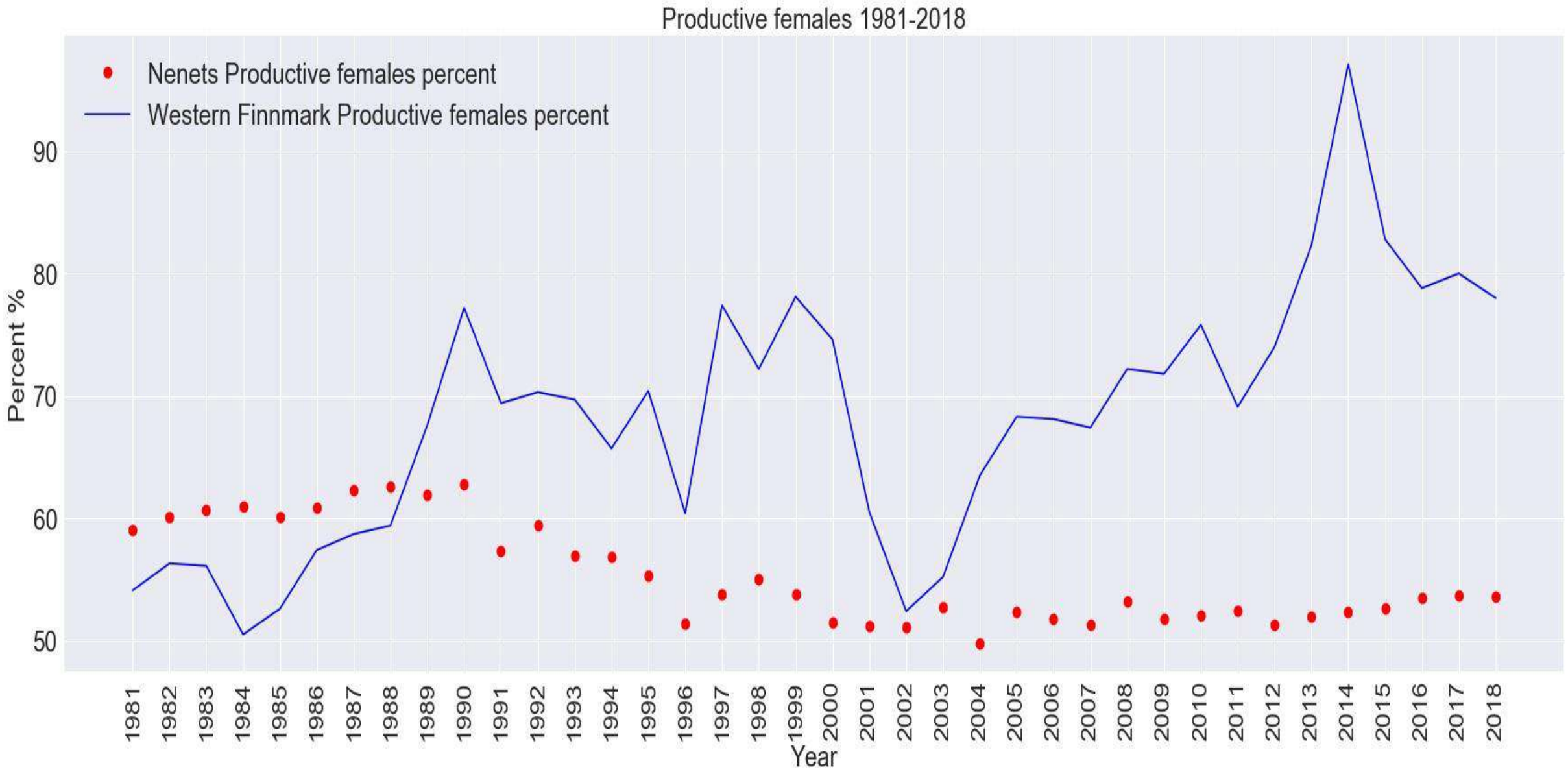


“Reindeer herders in Norway have through their history adapted their practice repeatedly to the extent that they are not able to adapt any further”

Mathis N. Eira

Sámi Parliament

2021



International Centre for Reindeer Husbandry
Международный Центр Оленеводства
Riikkaidgaskasaš Boazodoalloguovddáš

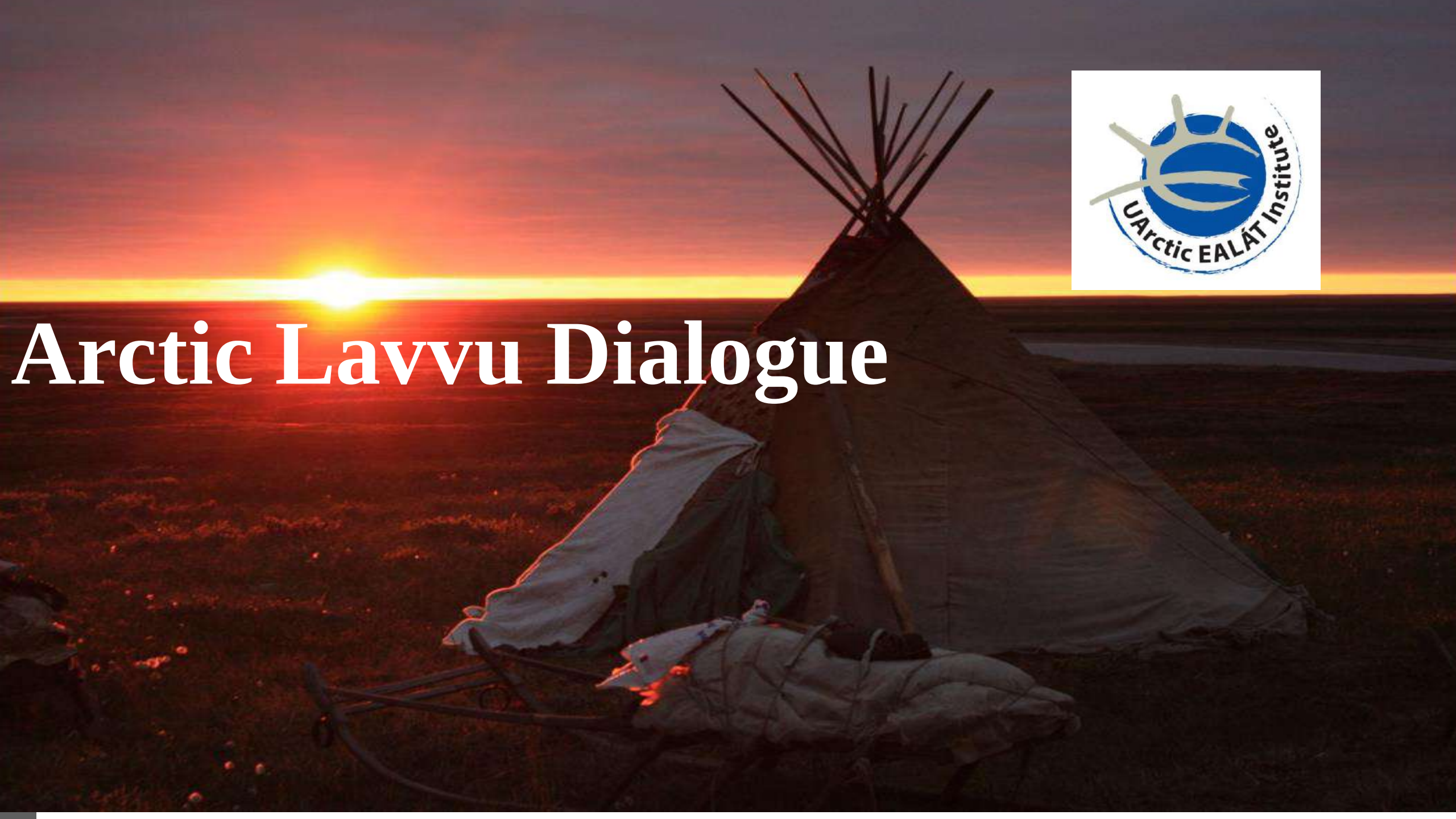
Engaging the young

Some of our team members (on a field trip in Sápmi)

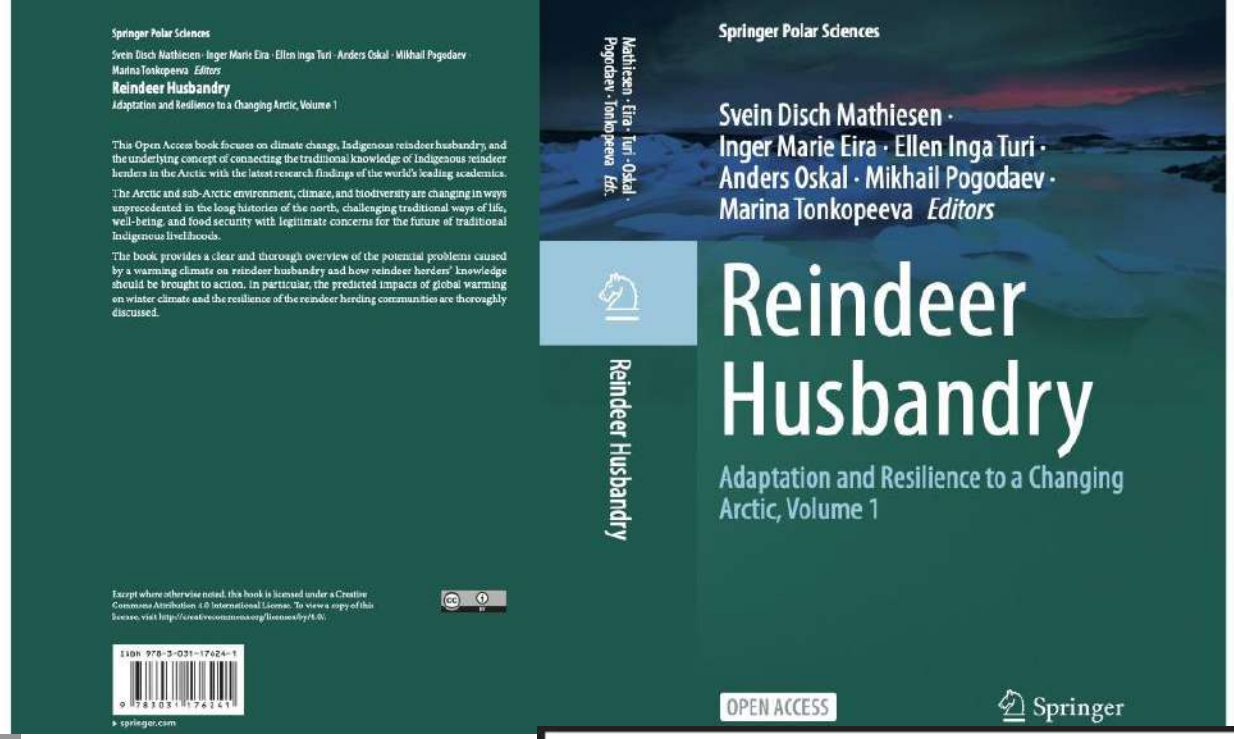
Evenki reindeer herder and PhD student Svetlana Avelova Khatystyr, Sakha Rep, Russia

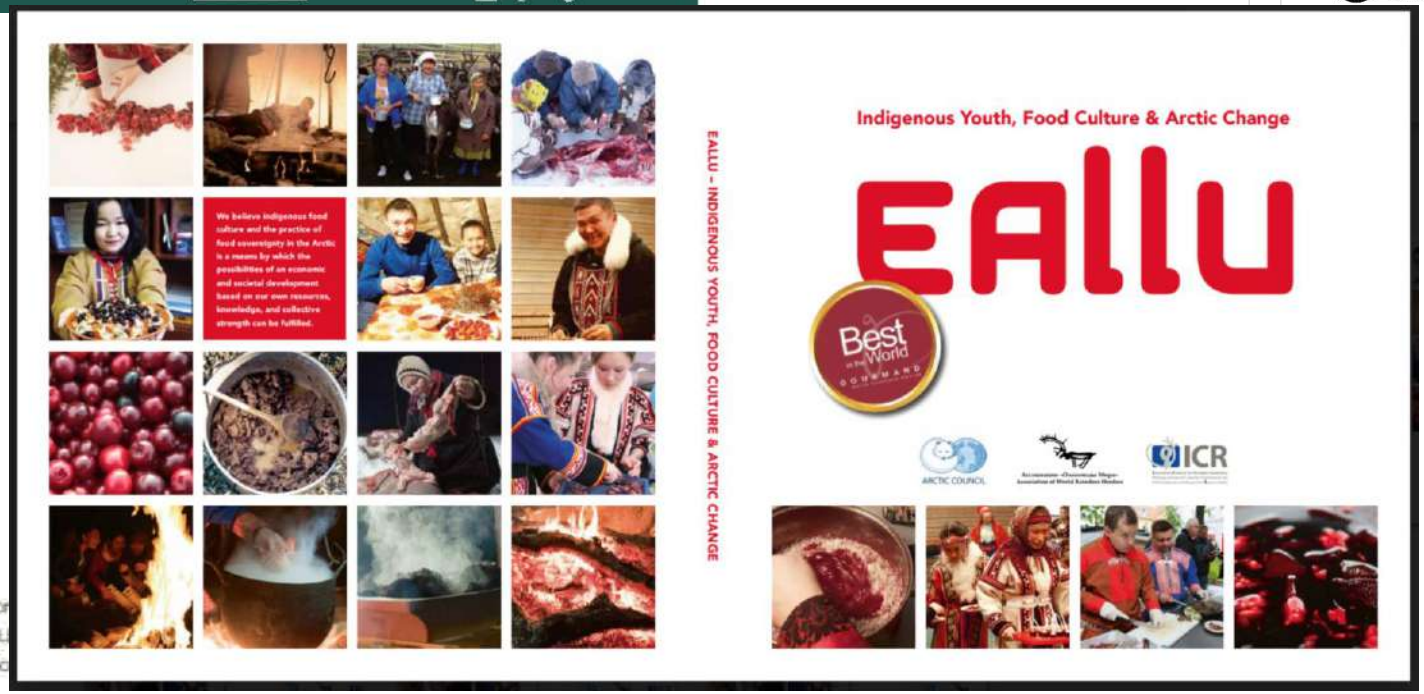
Nenets reindeer herder and BSc student Nechei Serotetto, Yamalo-Nenets, Russia

Evenki reindeer herder and MA & MSc Alena Gerasimova Iengra, Sakha Rep, Russia

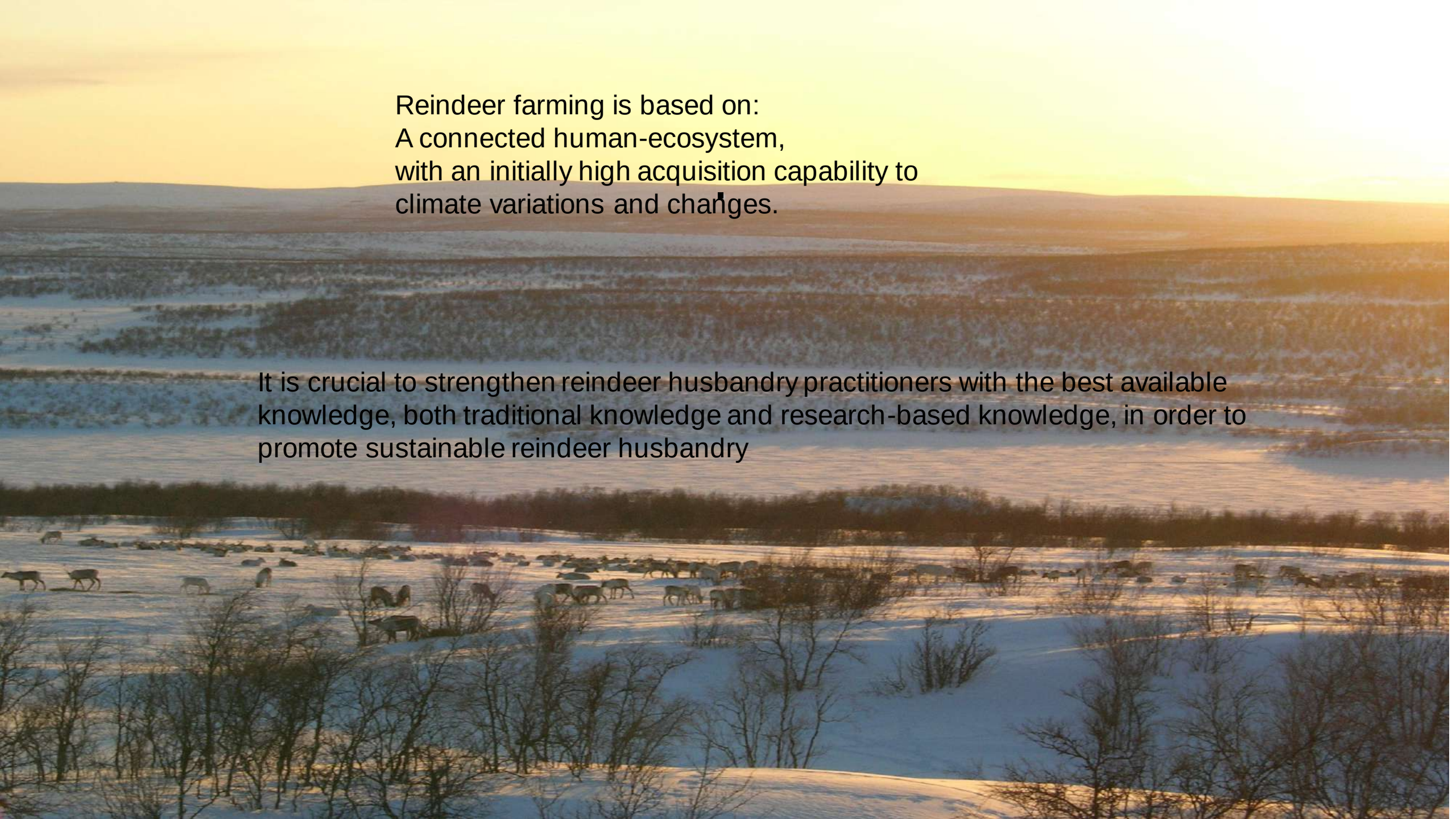


Arctic Lavvu Dialogue





International Cent
Международный
Riikkaidgaskasaš Bo



Reindeer farming is based on:
A connected human-ecosystem,
with an initially high acquisition capability to
climate variations and changes.

It is crucial to strengthen reindeer husbandry practitioners with the best available knowledge, both traditional knowledge and research-based knowledge, in order to promote sustainable reindeer husbandry

Indigenous traditional knowledge

- A systematic way of thinking and knowing that is elaborated and applied to phenomena across biological, physical, cultural and linguistic systems.
  - Owned by the holders of that knowledge, often collectively.
- A body of knowledge generated through cultural practices, lived experiences,
  - Developed and verified over millennia, still evolving in a living process.
    - Ottawa Principle 2008

The working definition has been adapted from the ICC and GCI TK definitions and forwarded for use by the Arctic Council. This definition is not intended to replace other definitions endorsed and used by individual indigenous organizations.

ENVIRONMENT HOUSE
GUEST DISCUSSION

REINDEER HERDERS AND RESILIENCE

24 FEB 2023 | 10.00 - 11.00 CET

International Environment House

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AGENDA

Welcome

- Diana RIZZOLIO | Coordinator, Geneva Environment Network

Panel Discussion

- Anders OSKAL | Secretary General, Association of World Reindeer Herders & Executive Director, International Centre for Reindeer Husbandry
- Svein Disch MATHIESEN | Professor, The Arctic University of Norway
- Ersin ESEN | Programme Management Officer, Europe Office, United Nations Environment Programme

Q&A

Closing Remarks

UN environment programme

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Ersin ESEN

UN environment programme

Programme Management Officer,
Europe Office, UNEP

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ENVIRONMENT HOUSE
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THANK YOU!

Anders OSKAL

Secretary General, Association of World Reindeer Herders &
Executive Director, International Centre for Reindeer Husbandry

Svein Disch MATHIESEN

Professor, The Arctic University of Norway

Ersin ESEN

Programme Management Officer, Europe Office, United Nations Environment Programme

Diana RIZZOLIO

Coordinator, Geneva Environment Network | Moderator

UN environment programme

GENEVA ENVIRONMENT NETWORK

WHAT'S NEXT?

genevaenvironmentnetwork.org

CONFERENCE

Briefing on the Implementation of UNEA Resolution 5/12 on Environmental Aspects of Minerals and Metals Management

28 FEB 2023 11:30 – 13:00
International Environment House & Online | Webex
UNEP, Switzerland, Pakistan, GEN

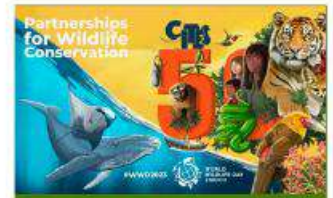
- Green Economy | Nature
- SDG7 | SDG12

VIRTUAL

Diálogo sobre Plásticos (português) | A caminho do tratado internacional

01 MAR 2023 12:00 – 13:30
Online | Webex
Portugal, GEN

- Chemicals and Pollution | Plastics
- SDG3 | SDG12



CONFERENCE

Geneva World Wildlife Day Celebration | 50 Years of Partnerships for Wildlife Conservation and Sustainability

03 MAR 2023 12:00 – 13:30
Conservatory and Botanical Garden
CITES, GEN, Switzerland

- Nature
- SDG14 | SDG15 | SDG17

CONFERENCE

Briefing on the 2023 Meetings of the Conferences of the Parties to the Basel, Rotterdam and Stockholm Conventions

07 MAR 2023 10:00 – 12:00
International Environment House & Online | Webex
BRS

- Chemicals and Pollution
- SDG12

Celebrating International Women's Day 2023 | Women, Girls, and the Triple Planetary Crisis

08 MAR 2023 08:30 – 10:00
International Environment House I & Online | Webex

- SDG5

Photo of Chukotka, a large region covering 737,000 km2 in Russia's Far East. © Alexander Kutskiy.

ENVIRONMENT HOUSE GUEST DISCUSSION

REINDEER HERDERS AND RESILIENCE

24 February 2023 | 10:00 - 11:00 CET | IEH, Room 3 & YouTube

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