UArctic ICARP IV community engagement

CANADA ARCTIC CANADA ARCTIQUE

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Process:

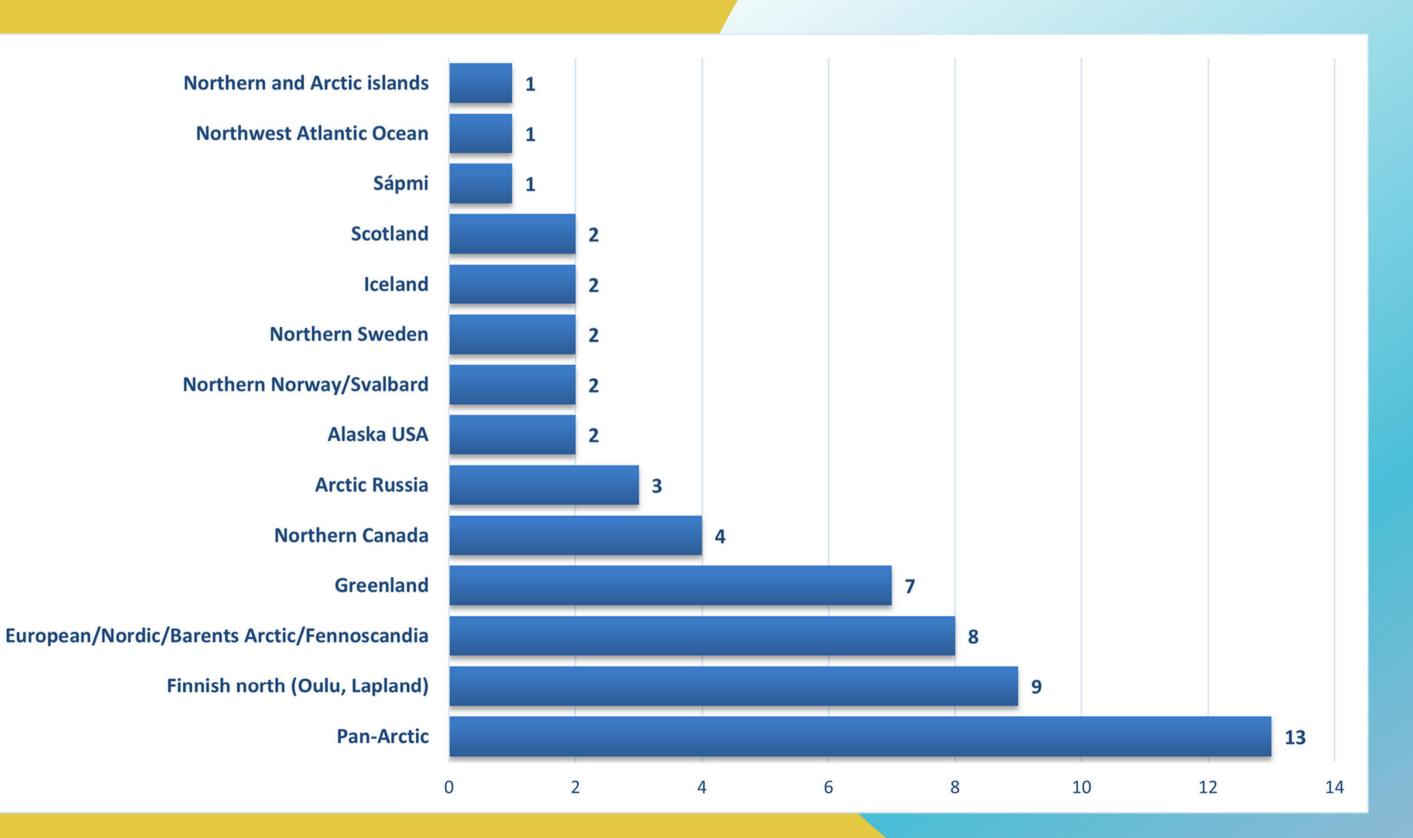
- UArctic ICARP IV Task Force established (2022) • Open online survey, March-April 2023
- UArctic Thematic Networks leadership team meeting in April 2023
- A pre-meeting and networking session organised during the UArctic Assembly in Quebec, Canada in May 2023
- Draft report to be reviewed by Thematic Networks, UArctic Chairs, Mimir and Avatitsinni, UArctic ICARP IV Task Force and Ma-Mawi UArctic Senior Leadership
- Report to ICARP IV in fall 2023

Open online survey

- challenges facing "region of interest" in the Arctic now and in 10 years
- A starting point for collecting UArctic input Personal opinions on the most pressing issues and • Data collected March 1 - April 11, 2023 • 46 responses from 13 countries (80% Arctic
- countries)



Regions of interest





The leading challenges by the "region of interest" (survey)

31%

Pan-Arctic (13)

31% climate change esp shrinking of the ice and warming of the Arctic. 15% each geopolitics, cultural, educational and environmental problems

100%

100% environmental issues reported as main challenge for the Arctic - incl. Lack of human interactions with the natural environment

75%

North American Arctic -Canada/US (6)

75% climate change and its effects to all aspects of life and reduction in protective factors. Also, the issues of cultural loss and mental health among Indigenous communities

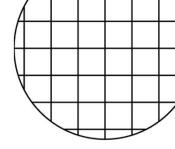
43%

Nordic Arctic (28)

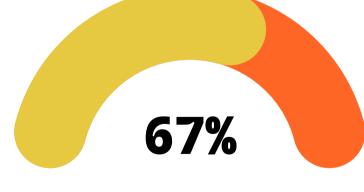
43% climate change

36% socioeconomic/health problems incl. occupational health and loss of purchasing power/quality of life. Population outflow, transition to green energy, issues of Indigenous identity and cultural heritage, effects of war and Arctic security are among other challenges





Non-Arctic (2)



Russian Arctic (4)

67% worries come about continuing Arctic scientific cooperation with the Russian scholars and geopolitical tensions. Other concerns are about drilling and mineral resources extracting without deep scientific research

Scientific cooperation

Environmental incl. energy

Ecological degradation and pollution, loss of species, habitat, commercial fishing, lack of natural resources, mineral resources extraction without deep scientific knowledge, lack of human interactions with the natural environment.

Transitions to renewable energy and effect of peoples life, energy development in the indigenous peoples lands

Socioeconomic

Decrease in quality of life (losing purchasing power, inflation, deterioration of health care, education, increase in crime rates, poverty etc), occupational safety, shipping, micro-entrepreneurship and Arctic business development, independent new traditional economy combining modernity with the traditional aborigine economy

Geopolitical

International peace and security, global political situation and spill-over effect in the Arctic, wars, emergence of many actors and their negligence of Arctic needs, Human Security as an alternative to the traditional security concept articulated by center economies Demographics,
health,
education
Continued depopulation (ageing, outmigration), future life of youth in the
Arctic. Mental health, health care in rural
and remote communities.
Ownership of education and how
education serves the Arctic.



Inclusive open science, cooperation with Russian scholars, data collections problems, lack of rapid data processing and forecasting/modelling

Climate change

Extreme weather events and disaster response, permafrost thaw, loss of sea ice, warming Arctic and cons of all of that

Cultural

Cultural assimilation, loss of heritage, anti-colonial action, indigenous selfgovernment, sustainable relations between people in the Arctic

Thematic **Networks and** UArctic Institute Leadership team meeting

- 2023
- each cluster identified in survey
 - > Challenges
 - Capacity building, education
 - > Mitigation, adaptation



• Annual face-to-face meeting, Rovaniemi, 25-27 April,

• Presentation of online survey followed by group work and discussion on research priorities under

Research practices, code of conduct

Permafrost thaw Water & food security

Biodiversity loss, invasive species **Climate** Extreme weather events Arctic warming / loss of sea ice change occupational safety, shipping

future of our next generation, health, "climate anxiety", uncertainty

Influence to cultural heritage and local livelihoods

> Northern sea route

Demographic changes

Negligance of Arctic needs

Emergence of many actors

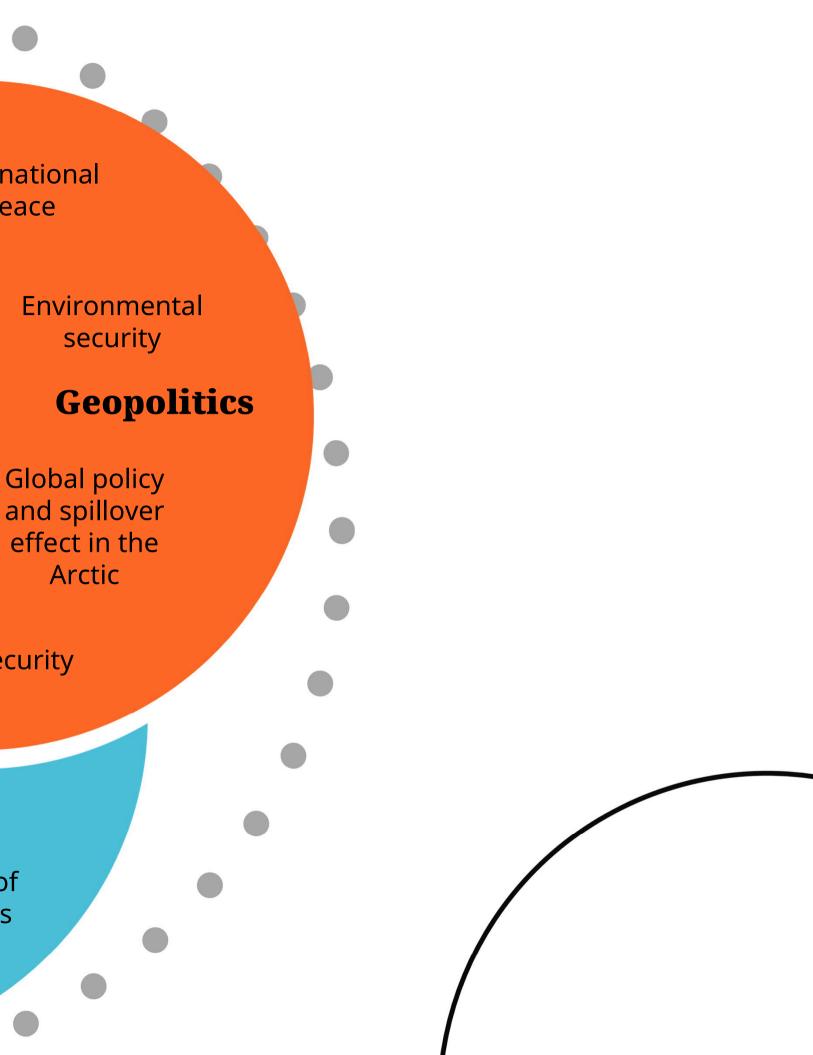
Globalisation

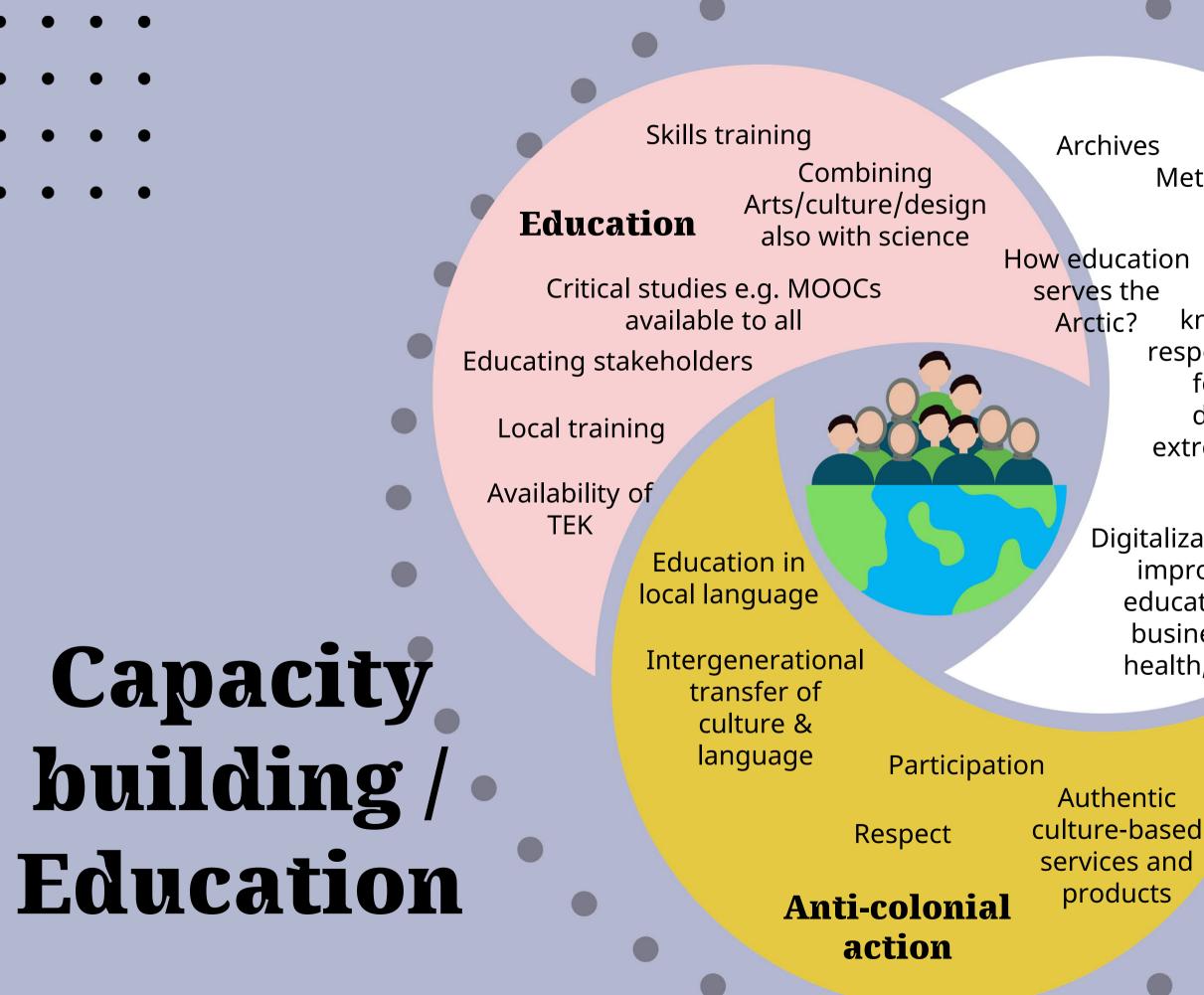
International peace

and spillover effect in the Arctic

Human security

Challenges





Metadata

Capacity building

knowledge + response systems for natural disasters + extreme weather events

Digitalization to improve education, business, health, life

Majorly underresearched

Green transition

Influence to land-use, esp. in the Indigenous Peoples lands

Novel energy sources + impacts

Renewable energy

Shifting demography and employment

> Critical perspectives on growth

Financial benefit to Arctic communities

Sustainability Creative

industries

Business opportunities

Socio-economic

measures

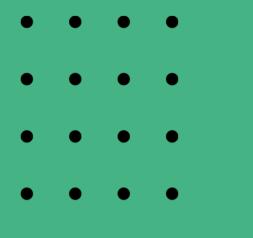
Mitigation and adaptation

Re-use & recycling of waste

Use of natural resources

Lack of natural resources

Extractive industries without deep scientific knowledge



Research practices, code of conduct

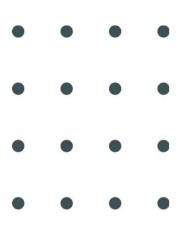
Scientific/western & Novel funding Indigenous models knowledge Ownership of Funding knowledge and data Ethics and justice **Sustainability** Knowledge / continuity Meaningful for Arctic and communities availability Long-term Inclusion time frames of of art Citizen research and science commitment Communitybased participatory research Systems analysis **OneHealth** Inter/ holistic transdisciplinary concept New tools for big issues **Methodology**

Group work:

- Three topics to be discussed in groups:
- Relevant education to the Arctic, how education can serve Arctic, and how to Indigenize and decolonize education?
- Code of conduct in research
- Research needs, large-scale initiatives?

May 25th (13-14.00)

ICARP Follow-up from pre-meeting and discussion on research priorities, Thursday,



Thank you!

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