UArctic ICARP IV community engagement

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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

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

- Northern and Arctic islands: 1
- Northwest Atlantic Ocean: 1
- Sápmi: 1
- Scotland: 2
- Iceland: 2
- Northern Sweden: 2
- Northern Norway/Svalbard: 2
- Alaska USA: 2
- Arctic Russia: 3
- Northern Canada: 4
- Greenland: 7
- European/Nordic/Barents Arctic/Fennoscandia: 8
- Finnish north (Oulu, Lapland): 9
- Pan-Arctic: 13
The leading challenges by the "region of interest" (survey)

**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.

**Pan-Arctic (13)**
- **31% climate change** esp shrinking of the ice and warming of the Arctic.
- 15% each geopolitics, cultural, educational and environmental problems.

**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.

**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.

**Non-Arctic (2)**
- **100% environmental issues reported as main challenge for the Arctic** - incl. Lack of human interactions with the natural environment.
Climate change

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

Demographics, health, education

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

- Continued depopulation (ageing, out-migration), 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.

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

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

Scientific cooperation

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

Cultural

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

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

Survey: Clusters of reported challenges
Thematic Networks and UArctic Institute Leadership team meeting

- Annual face-to-face meeting, Rovaniemi, 25-27 April, 2023
- Presentation of online survey followed by group work and discussion on research priorities under each cluster identified in survey
  - Challenges
  - Capacity building, education
  - Mitigation, adaptation
  - Research practices, code of conduct
Challenges

**Climate change**
- Permafrost thaw
- Water & food security
- Biodiversity loss, invasive species
- Extreme weather events
- Arctic warming / loss of sea ice
- Occupational safety, shipping
- Influence to cultural heritage and local livelihoods
- Northern sea route
- Demographic changes
- Negligence of Arctic needs
- Emergence of many actors

**Globalisation**
- International peace
- Environmental security
- Global policy and spillover effect in the Arctic
- Human security
- Influence to cultural heritage and local livelihoods

**Geopolitics**
- Future of our next generation, health, "climate anxiety", uncertainty
- Northern sea route
- Negligence of Arctic needs
Anti-colonial action

Education Capacity building

Skills training
- Critical studies e.g. MOOCs available to all
- Educating stakeholders
- Local training
- Availability of TEK

Combining Arts/culture/design also with science

Archives
- Metadata

How education serves the Arctic?
- Knowledge + response systems for natural disasters + extreme weather events

Digitalization to improve education, business, health, life

Education in local language
- Intergenerational transfer of culture & language

Participation
- Respect

Authentic culture-based services and products

Availability of TEK

Authentic culture-based services and products

Participation
- Respect

Anti-colonial action

Combining Arts/culture/design also with science

Education

Capacity building

Education Capacity building
Mitigation and adaptation

Green transition
- Novel energy sources + impacts
- Renewable energy
- Influence to land-use, esp. in the Indigenous Peoples lands

Use of natural resources
- Re-use & recycling of waste
- Lack of natural resources
- Extractive industries without deep scientific knowledge

Socio-economic measures
- Critical perspectives on growth
- Sustainability
- Creative industries
- Financial benefit to Arctic communities
- Business opportunities
- Shifting demography and employment

Lack of natural resources
- Extractive industries
- Without deep scientific knowledge

Creative industries
- Business opportunities

Financial benefit to Arctic communities
- Critical perspectives on growth
- Sustainability
- Creative industries

Creative industries
- Business opportunities
- Financial benefit to Arctic communities

Critical perspectives on growth
- Sustainability
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Sustainability
- Creative industries
- Business opportunities
- Financial benefit to Arctic communities

Business opportunities
- Financial benefit to Arctic communities
- Creative industries
Research practices, code of conduct

Knowledge
- Meaningful for Arctic communities
- Ownership of knowledge and data
- Inclusion of art
- Scientific/western & Indigenous knowledge
- Ethics and justice

Methodology
- Citizen science
- Community-based participatory research
- OneHealth holistic concept
- Systems analysis
- Inter/transdisciplinary
- New tools for big issues

Funding
- Novel funding models
- Sustainability / continuity and availability
- Long-term time frames of research and commitment

- Inclusion of art
- Ownership of knowledge and data
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- Ethics and justice

Research practices, code of conduct
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?

- ICARP Follow-up from pre-meeting and discussion on research priorities, Thursday, May 25th (13-14.00)
Thank you!