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## TABLE OF

	Introduction	5
CHAPTER 1	Indigenous Peoples' right to self-determination as a prerequisite for high-quality Arctic research	6
CHAPTER 2	Ethics, methods, and methodology as key for decolonial research	8
CHAPTER 3	Indigenous-led research in design and practice	10
CHAPTER 4	Indigenous Peoples' co-equal participation in Arctic research funding	



moving away from the typical institutional and researcher-centric systems towards genuine equality in planning and decision-making on research strategies, processes, and funding. The inclusion of





### Example 1. The Nunavut Research Institute.

A good example of Inuit self-determination in relation to research is the Nunavut Research Institute (NRI) at Nunavut Arctic College. On the NRI website, they explain:

"The Nunavut Research Institute (NRI) is your gateway to scientific research in Nunavut! We are [...] responsible for administering Scientists Act which applies across the entire territory of Nunavut. The Act requires that anyone conducting research in the health, social sciences, or natural/physical sciences disciplines must first obtain a license from the NRI.

Through our research licensing process, we are committed to keeping Nunavummiut informed of the research being conducted in our territory, and we make sure that our residents' needs, concerns, and priorities are carefully considered before any license is approved. We provide guidance, advice and resources to researchers in multiple disciplines to improve their awareness of the rules and expectations for working in our Territory and to help foster research that is ethical, inclusive and responsible to Nunavummiut.

As the science division of Nunavut Arctic College (NAC), we also provide research support, guidance, and training for College staff, faculty, and students engaged in research, and we work to create new research projects, partnerships, and networking opportunities that will help strengthen NAC's capacity as a research leader in our Territory!" (<https://www.nri.nu.ca>, last accessed online April 6, 2024).





## CHAPTER 3

### Key Message

Indigenous knowledge has developed over millennia and offers invaluable insights into sustainable practices and environmental baselines and changes. Indigenous communities and researchers have always led research in which Indigenous Peoples defined their own research priorities and methodologies. Today, Indigenous-led research can be co-creative or autonomous. As part of the right to self-determination, Indigenous Peoples have the right to choose how, when, and where to share their knowledge. Indigenous communities may be wary of external researchers due to historical exploitation and a lack of genuine collaboration in the past. As some Indigenous knowledge is of economic value, and some topics are culturally sensitive and prone to misinterpretation, not all topics of research are suitable for outside researchers. Colonial hierarchies and structural racism within the Western academy hinder Indigenous leadership and recognition, and there are challenges in reconciling radically distinct value-systems, worldviews, and land-use practices. Indigenous and particularly Indigenous-led research programs face chronic underfunding and there is a systematic lack of Indigenous influence over the funding of research. Yet, Indigenous people, including youth, are well positioned to excel as leaders in Arctic research. Supporting them through paid research positions, mentorship, outreach and engagement will enhance Indigenous-led research, community wellbeing, and self-determination.

### Key recommendations for action

- Provide direct funding to Indigenous researchers and Indigenous-led organizations, museums, research institutions, and heritage centres, which are undertaking research and identifying priorities both collaboratively with non-Indigenous researchers and independently. Adapt funding mechanisms accordingly, acknowledging that some projects may
- not have infrastructure for complicated administrative processes (See also: Buschman & Sudlovenick, 2022 and Reed et al., 2021).
- Support Indigenous communities in developing their own sets of guidelines and ethical principles for scientific research (see also Chapter 2).
- Build capacity at Indigenous-led organizations which provide support for Indigenous leadership in research, by providing consistent, long-term funding, rather than just project-specific funding (see Example 4) (See also: Reed et al., 2021).
- Support Indigenous, social, and scientific communication of the benefits of Indigenous-led research to overcome colonial perceptions and practices (See also: Hoffman et al., 2022).
- Support Indigenous-led assessments of the structural requirements for Indigenous-led research, to better understand barriers and policy needs, and to frame recommendations for actions to address them.
- Ensure opportunities for Indigenous Peoples to review funding proposals (see Chapter 4).
- Support Indigenous research sovereignty by following guidelines and resources developed by Indigenous organizations (see Example 5).
- Provide direct funding and establish formal guardianship programs to support Indigenous communities in leading the active management of their territories (See also: Reed et al., 2021).
- Create more opportunities to engage Indigenous youth in multiyear paid research positions (See also: Sadowsky et al., 2022, and Buschman & Sudlovenick, 2022).

#### Example 4. Ikaarvik.

Created by Inuit youth, Ikaarvik is an Indigenous-led organisation based in Mittimatalik (Nunavut, Canada) that develops opportunities for Northern Indigenous youth to empower themselves for self-determination in Arctic research and decision making. Combining local Indigenous Knowledge and Western science, Ikaarvik youth and mentors identify and address their communities' local research priorities and help southern-based Arctic researchers to work with both ways of knowing for better, more relevant and robust results. Youth engage in workshops to integrate Indigenous Knowledge and science, identifying local research priorities, and, with mentorship, autonomously lead projects from conception to result communication, leveraging external expertise when needed. Some examples of issues being addressed through Ikaarvik youth and community projects are local river health, invasive species, shipping impacts, salmon habitat restoration and local sea ice conditions. Despite renowned success, Ikaarvik has no core funding, making it difficult to build up sufficient capacity over time. For more information, please visit: <https://ikaarvik.org/> [last accessed online on April 6, 2024].

#### Example 5. Existing resources and guidelines on how to support Indigenous sovereignty.

The following list is a small sample of existing resources and guidelines on how to support Indigenous sovereignty:

- CARE principles for Indigenous Data Governance and Set of rights for Indigenous peoples' rights in data, by the Global Indigenous Data Alliance (GIDA, n.d.).
- Circumpolar Inuit Protocols for Equitable and Ethical Engagement

## CHAPTER 4



### Key Message

In order to improve the impact and benefits of any research activities carried out on Indigenous Peoples' lands and waters, Indigenous self-determination in setting research agendas is critical. To implement decolonial research successfully, it is crucial to develop mutually beneficial Arctic research programmes and funding policies explicitly for and in formalised collaboration with Indigenous rightsholders. This requires establishing permanent formal positions for Indigenous rightsholders within the respective decision-making structures of Arctic research. These positions must be remunerated to honour and fairly compensate Indigenous Peoples and Indigenous Knowledge (and Indigenous Knowledge) and Indigenous Peoples (and Indigenous Peoples).

- funding bodies. On the other hand, the capacity on decolonial Arctic research, co-creation methods, and Indigenous epistemologies must be built within Arctic research institutions through training courses for staff.
- To build cohorts of future Indigenous leaders in the decision-making structures of the Arctic research funding system, academic institutions must take measures to inspire young Indigenous people to engage in research, promote young Indigenous scientific talents by offering targeted funding, and provide mentorship for Indigenous early-career scholars.
- The inclusion of Indigenous rights in the structures of Arctic research funding must not lead to a system of tokenism.

#### Example 6. Coming of Age in Indigenous Communities.

Coming of age in Indigenous communities: Ageing, quality of life and homebased elderly care in Sapmi and Atayal region (Taiwan) (Munkejord et al., 2021) is an example of a decolonial project. The project was built from the Sámi and Tayal understanding of the elderly as an important resource for conveying "... knowledge, wisdom of life, language and culture to the younger generations" (Ibid., p. 9). Using Sámi and Tayal knowledge systems, the project followed the Two-Eyed seeing approach and contributed to cultural exchange between Elders in Sapmi and Atayal. The project team of Indigenous researchers from both Atayal and Sápmi invited and established cooperations with the Elders Council of the Sámi Parliament of Norway and organisations in Atayal and established an international scientific advisory group with Indigenous members. The project used Photovoice, which is considered a decolonial method by many Indigenous voices since the participating Elders decided what to take pictures of and then shared their stories about the photos. The project's findings have been published in multiple scientific articles, masters theses, and digital exhibitions. Additionally, as a way of returning research results and supporting cultural exchange, a published photobook was given to all participants and contributors, as well as health and social workers who work with elders.

## CHAPTER 5



### Key Message

Funders play an important role in research and have the power to make possible and encourage Indigenous-led and co-creative research. Yet funding structures continue to create barriers to ethical and equitable research relationships. To overcome exploitation in research, funders can take important steps by continuing to revise their mechanisms and programmes.

### Key recommendations for action

- Recognise that there is a wide range of capacity and ability of circumpolar Indigenous organisations, communities and individuals and that care must be taken to ensure that funding is accessible and reporting requirements are not barriers.
- Advertise calls for funding well in advance of submission deadlines or without specific deadlines.
- Use clear and straightforward language in calls for funding, acknowledging the linguistic diversity amongst different Indigenous communities, thereby facilitating better understanding and improving accessibility.
- Establish Indigenous-specific calls for funding proposals (see Chapter 3).
- Provide funding for a scoping or planning phase of at least one year to enable relationship building and co-development of research proposals. Funding should include “travel, salaries, honoraria, meeting spaces, interpretation, and translation services” (Doering et al., 2022, p. 9).
- Revise application requirements to ensure that potential applicants with limited resources are not excluded and Indigenous Peoples’ organisations, institutions, museums, small businesses, knowledge centres, and experts without formal academic degrees are eligible to apply and serve as project leads and principal investigators.
- Ensure that funding can be allocated to all positions and activities involved in co-creative research projects. Support projects that generate financial benefits to the community in which the research occurs—beyond those who are participating directly. Adapt funding structures and processes to minimise barriers for the Indigenous Peoples affected by the research process and outcomes.
- Allow for flexible project schedules and extended project duration (e.g., enable for funds to be moved from one year to the next) to accommodate 1) Indigenous subsistence practices and work schedules; 2) allow for time-intensive co-production/ co-creation of project objectives, methods, and deliverables; and 3) to allow for return of research results to communities.
- Allow for non-traditional research outputs defined and designed by Indigenous Peoples, including multimedia, film, performance, creative writing, and website design.
- Select project proposals and evaluate projects across the natural and social sciences and humanities based on criteria and procedures co-developed with Indigenous partners and give priority to Indigenous-led research.
- Provide funding after the main project period has ended to enable maintenance of research relationships, co-authorship, dissemination of results, and continued storage of and access to data (see Chapter 2).



- Revise reporting requirements to decrease the overall pressure on Indigenous peoples' organisations, institutions, knowledge centres, and researchers.
- Resources and mechanisms should be provided to offer training and consulting initiatives to natural scientists — who receive the largest share of Arctic research projects — on how to implement co-creative and decolonial research in practice.

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As we drew upon the Roadmap to Decolonial Arctic Research: Policy Brief for the European Commission (Herrmann et al., 2023, pg. 49), sections of this chapter closely follow the structure and content of an academic research paper on funding in Arctic research (Doering et al., 2022).

#### **Example 7. U.S. National Science Foundation.**

The U.S. National Science Foundation's Arctic Research Opportunities (NSF 21-526) program is an example of a funding program with no deadline. Applications are accepted at any time and with broad eligibility criteria. For more information, see <https://new.nsf.gov/funding/opportunities/arctic-research-opportunities/nsf23-572/solicitation> [last accessed online on April 6, 2024].

#### **Example 8. The Canada-Inuit Nunangat-United Kingdom (CINUK) Arctic Research Programme 2021 – 2025.**

The CINUK programme is a funding initiative set up in partnership between Inuit Tapiriit Kanatami (ITK), United Kingdom Research and Innovation (UKRI), Polar Knowledge Canada (POLAR), the National Research Council of Canada (NRC), Parks Canada (PARKS), and Fonds de recherche du Quebec (FRQ), and emphasises co-creative and Indigenous-led research to address the impacts of rapid climate change in Inuit Nunangat (the Inuit homeland in Canada) (CINUK, 2024a). The initiative "is guided by the National Inuit Strategy on Research and seeks to fund projects that feature strong Inuit involvement and are meaningful for Inuit Nunangat communities" (CINUK, 2024b). In May 2022, 13 projects secured funding, showcasing interdisciplinary collaboration, Inuit leadership, and direct relevance to Inuit Nunangat (CINUK, 2024a).

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