Collaboration opportunities with INQ in Canada's North

Swiss Polar Day 2023



Jean-Éric Tremblay, INQ director







Fostering enhanced SPI-INQ collaborations towards a better understanding of Arctic and high-altitude systems and their changes

- > Regular exchange at strategic level
- > Development of joint initiatives and collaborative projects
- Exchange of expertise and personnel
- > Access to facilities (Sion, Québec & Canada's North)



Signing of the MoU in Montréal (13 April 2023)

NEXT SLIDES: What is INQ?

Accessible research facilities
Thematic areas / regions
Collaboration process

INQ's mission

Support the sustainable development of Northern Quebec and the Canadian Arctic by federating forces in scientific research, fostering innovation and creating synergies between researchers, northern communities (including local & indigenous knowledge), government and the private sector.

First Peoples in northern Quebec









Inuit

Innu

Naskapi

A diverse research landscape





62 research chairs, with holder affiliated to INQ (3 INQ-funded chairs)



85 affiliated entities (centres, institutes...)

Fifteen institutions of higher education

































INQ's Objectives at a glance

- Promote multidisciplinary and intersectoral research
- Provide administrative, technical and logistical support
- Create adapted tools and guidelines for research
- Develop versatile labs and analytical capacities
- Offer adapted training opportunities
- Develop international collaboration and outreach

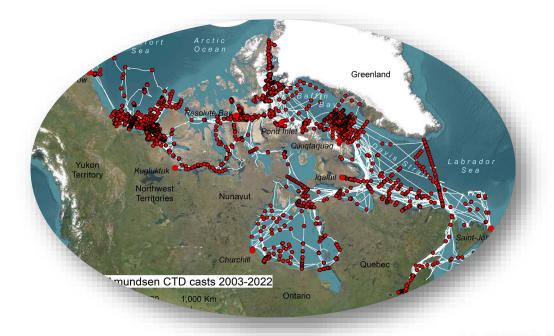
- Operation funded by Ministère des Ressources Naturelles et des Forêts du Québec
- > Research funded by Fonds de Recherche du Québec
- Geographically distributed, with main facility in Québec city







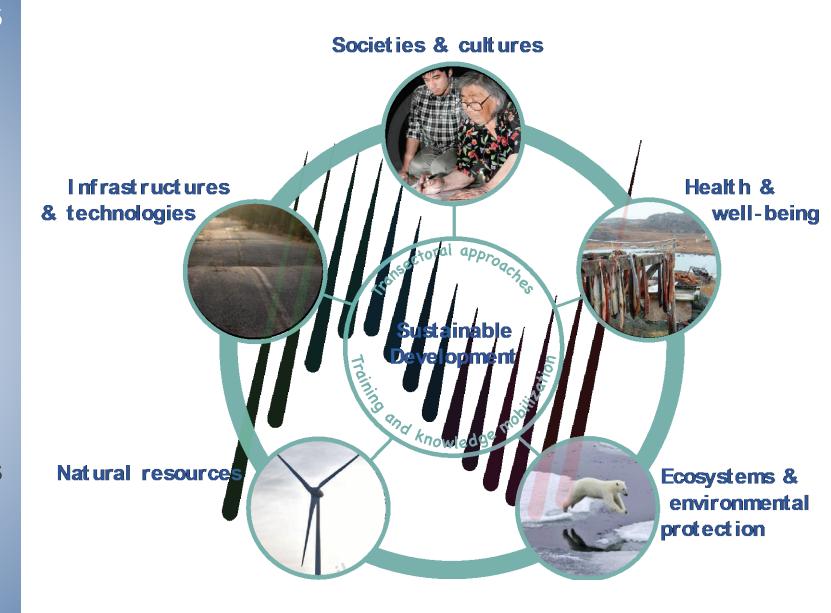






Some thematic areas for collaboration...

Ecosystem functioning Sea-ice and glaciers Ocean biogeochemistry Permafrost dynamics Climate feedbacks Infrastructure stability Biodiversity / invasive species Emerging diseases, zoonoses Food security Energy supply and transition



TRANSFORMING CLIMATE ACTION: ADDRESSING THE MISSING OCEAN

2023-2030

155 M\$

Reduce uncertainty / Mitigate change / Adapt equitably



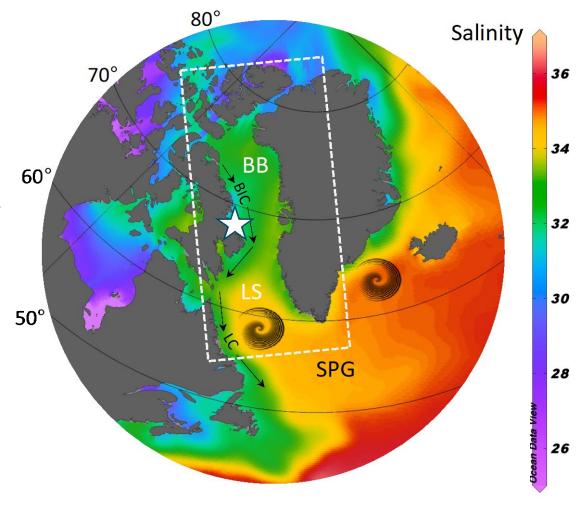
Horizontal connectivity (freshwater, nutrients...)
Deep convection processes
Ocean carbon pumps

Expeditions

2024: (1x) synoptic survey of ocean gateways

2025: (2x) land/shelf/basin interactions, carbon pumps

2026: convection and sea-ice processes













Process for Swiss researchers

CCGS Amundsen

Partnership with INQ researcher/team; or

Direct contact with *Amundsen Science* management to identify a matching programme or campaign

Canadian PI must submit a consolidated application by 30 September before the expedition year (declaration of intent: 15 September)

CEN research stations

Partnership with regular CEN member(s), who can request access to a station; or

Contact CEN management to identify a matching programme

No deadline for submitting request but recommend no later than 15 November in the year prior to the expedition. (declaration of intent: 1 November)

SPI and INQ are available for questions and support to interested scientists



INQ scientific complex (2026)

In collaboration with researchers from the INQ network, the following are foreseen:

- a) Access to the expedition prep areas and workshops in order to:
 - receive sampling equipment and supplies from Switzerland
 - receive and temporarily store samples from the North prior to analysis at INQ or shipment
- b) Access to state-of-the-art analytical laboratories.
- c) Support in obtaining permits to conduct research in the Inuit territories of Nunavik and Nunavut
- d) Access to office space for those who wish to sojourn in Quebec



