



1:30pm – 3:00pm

# Bridging science and Indigenous knowledge systems: Best practices

*Panel Organizer: Natural Resources Canada's  
Office of the Chief Scientists*



**Dr. Donna Kirkwood**  
Chief Scientist  
Natural Resources Canada  
@DLEKirkwood



**Dr. Rachel Olson**  
Director, The Firelight Group  
@thefirelightgp

## BRIDGING SCIENCE Indigenous Knowledge



**Dr. Scot Nickels**  
Director, Inuit Qaujisarvingat (Inuit Knowledge Centre)  
Inuit Tapiriit Kanatami  
@ITK\_CanadaInuit



**Leah Braithwaite**  
Executive Director  
ArcticNet Inc.  
@ArcticNet



**Dr. Solange Nadeau**  
Forester and Sociologist  
Natural Resources Canada  
@solangenadeau

#CSPC2018

#CSPC2018



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INUIT TAPIRIIT KANATAMI

# SOCIAL & ECONOMIC INEQUITY IN INUIT NUNANGAT

Many Inuit face social and economic inequities that impact our health and wellbeing

## INUIT NUNANGAT

**\$23,485** The median individual income for Inuit in Inuit Nunangat<sup>1</sup>

**52%** of Inuit in Nunangat live in crowded homes\*<sup>1</sup>

**34%** of Inuit aged 25 to 64 in Inuit Nunangat have earned a high school diploma<sup>1</sup>

**70%** of Inuit households in Nunavut do not have enough to eat<sup>2</sup>

**30** The number of physicians per 100,000 population in Nunavut<sup>4</sup>

**47.5%** of Inuit in Inuit Nunangat are employed<sup>1</sup>

**72.4 years**  
The average life expectancy for residents in Inuit Nunangat<sup>15</sup>

**12.3** The infant mortality rate per 1000 for Inuit infants in Canada.<sup>6</sup>



## ALL CANADIANS

**\$92,011** The median individual income for non-Indigenous people in Inuit Nunangat<sup>1</sup>

**9%** of non-Indigenous people in Inuit Nunangat live in crowded homes\*<sup>1</sup>

**86%** of all Canadians aged 25 to 64 have earned a high-school diploma<sup>1</sup>

**8%** of all Canadian households do not have enough to eat<sup>3</sup>

**119** The mean number of physicians per 100,000 population in Urban Health Authorities<sup>4</sup>

**60.2%** of all Canadians are employed<sup>1</sup>

**82.9 years**  
The average life expectancy for all Canadians<sup>5</sup>

**4.4** The non-Indigenous infant mortality rate per 1000 for Canada.<sup>6</sup>



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# National Inuit Strategy on Research

[www.itk.ca](http://www.itk.ca)



# National Inuit Strategy on Research

## IMPLEMENTATION PLAN

[www.itk.ca](http://www.itk.ca)



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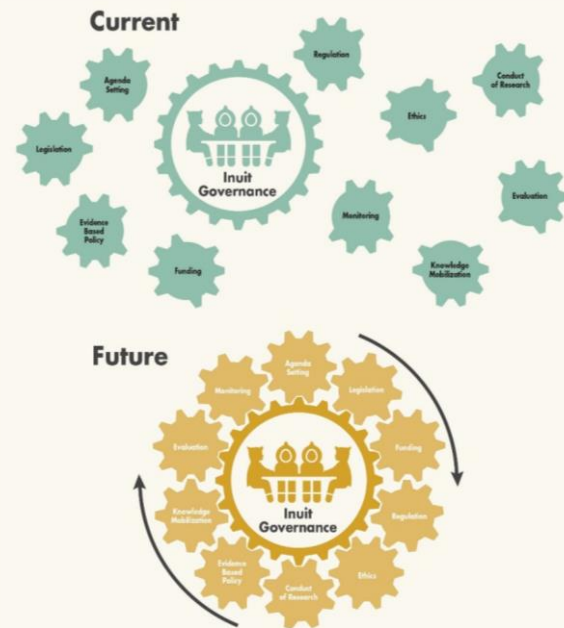


# NISR Priorities, Objectives and Actions



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## IMPLEMENTING A COORDINATED APPROACH TO INUIT NUNANGAT RESEARCH



Enhancing the effectiveness,  
impact, and usefulness of  
research through greater  
coordination



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# Bridging Science and Indigenous Knowledge Systems

Leah Braithwaite  
Executive Director - ArcticNet

Canadian Science Policy Conference  
November 2018  
Ottawa



Host institution:





ArcticNet (2004-2018) has formed arguably one of the most dynamic networks of Arctic experts in the world, creating unprecedented synergy among the natural, social and health sciences and engaging Inuit at all levels

4

Major industrial  
partnerships

163

Core projects

150+

Teams

35

Research chairs

34

Universities

2631

HQP including  
325 Northerners

1099

Inuit engaged

4

CERCs

44

Satellite programs  
\$518M

1

Research icebreaker

2840+

Primary publications

6

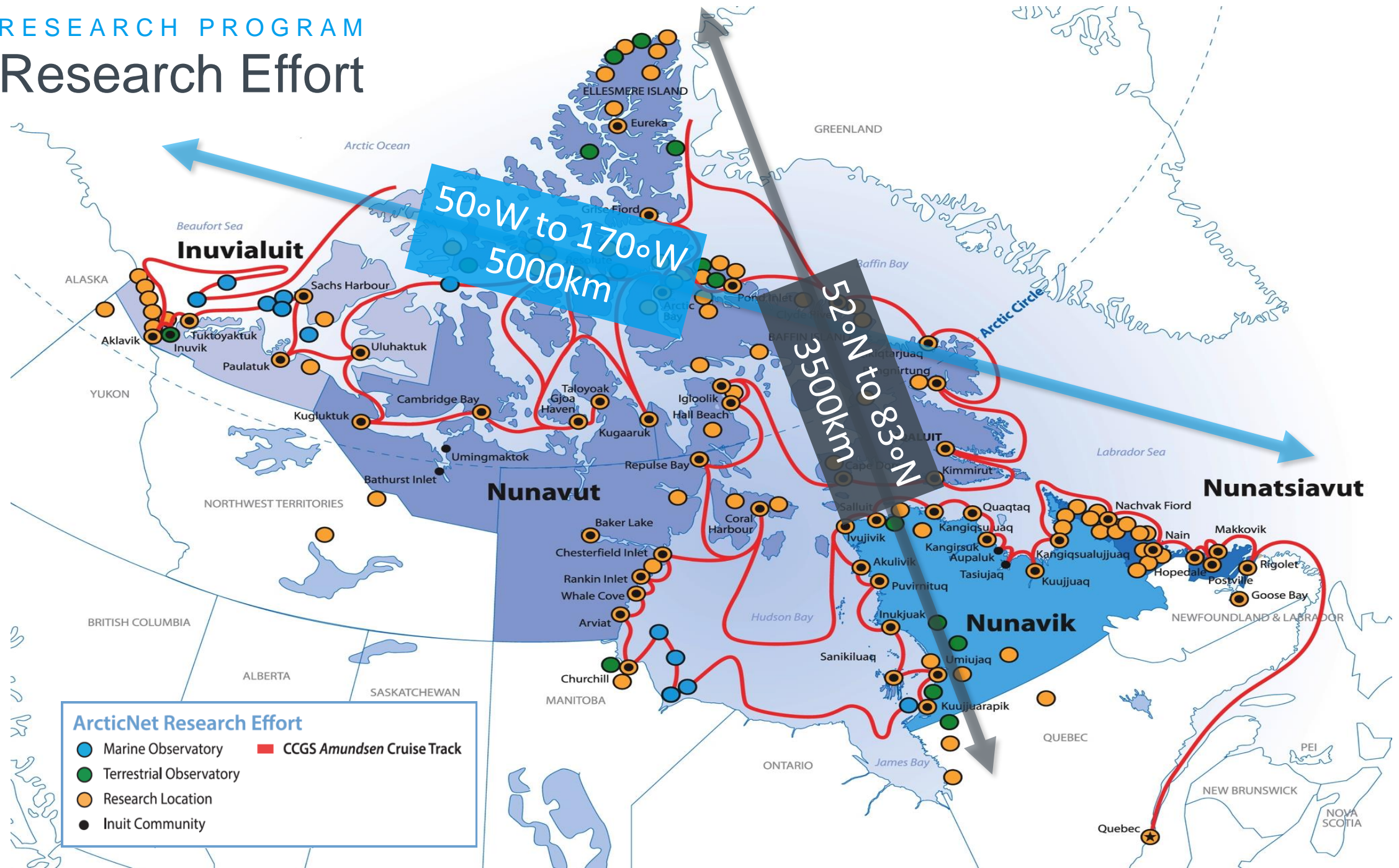
Major spin-offs

9981

Research reports

# RESEARCH PROGRAM

## Research Effort





# Inuit Partnership – collaboration for healthy communities and sustainable development

*Inuit have played an important role in the governance structure of ArcticNet with Inuit members on the Board of Directors, Research Management Committee, the Inuit Advisory Committee and the numerous Inuit who have assisted and co-led ArcticNet-funded research.*

*ArcticNet research has played an integral role for Inuit Communities by helping to provide essential research results to Inuit relating to our lands, waters and wildlife as well as the health and well-being of our people.*

Natan Obed – Pres. Inuit Tapiriit Kanatami

## Strengths and Successes

- Direction and guidance on Inuit research priorities nationally and internationally
- Increased institutional capacity to develop, participate, conduct and manage research
- Contributed to meaningful engagement, incorporation of traditional knowledge and appropriate acknowledgement



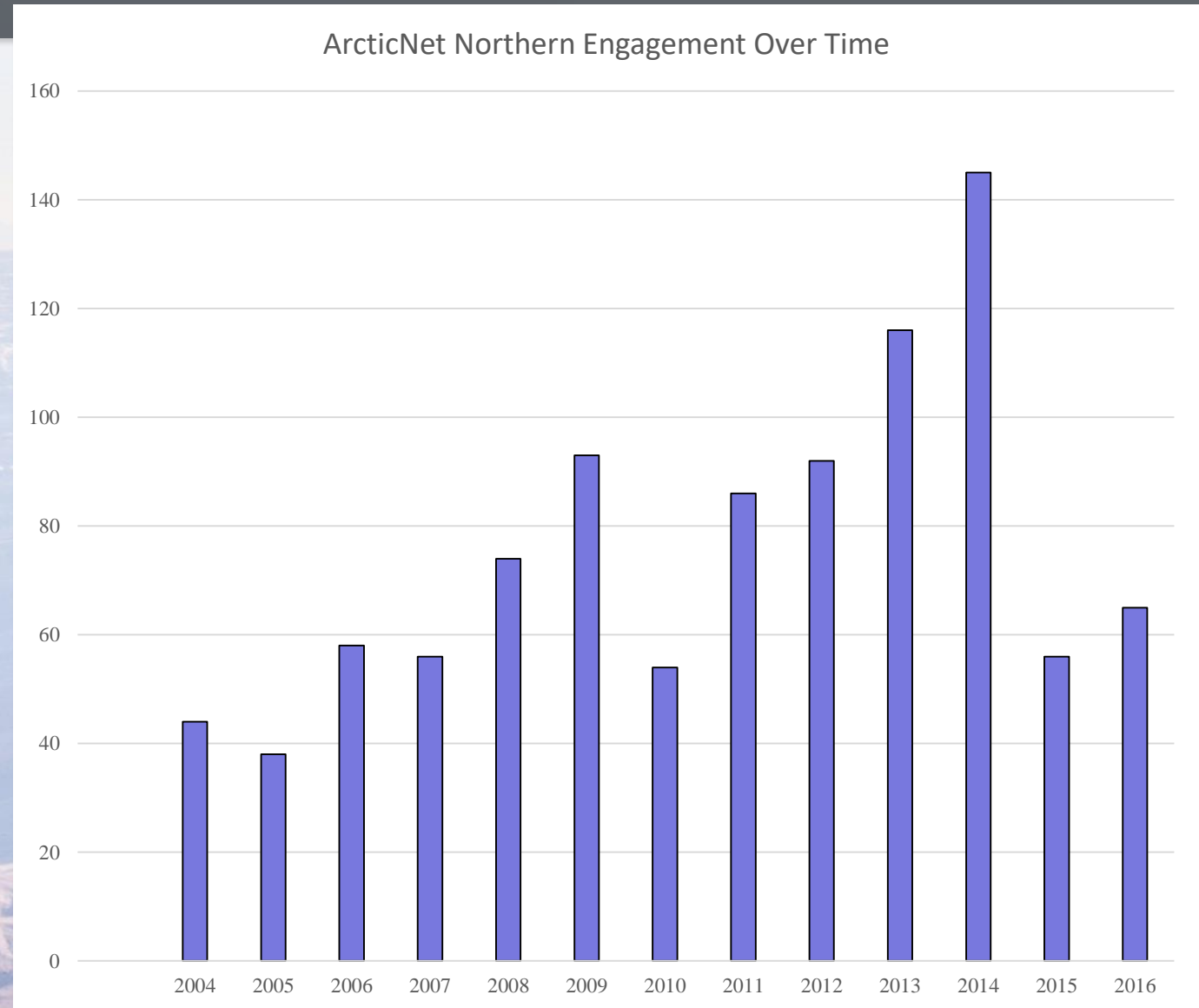


# NETWORKING AND PARTNERSHIPS – Northern Organizations

Northern engagement includes the individuals from northern organizations working directly within Projects as partners, collaborators, staff, students, technicians

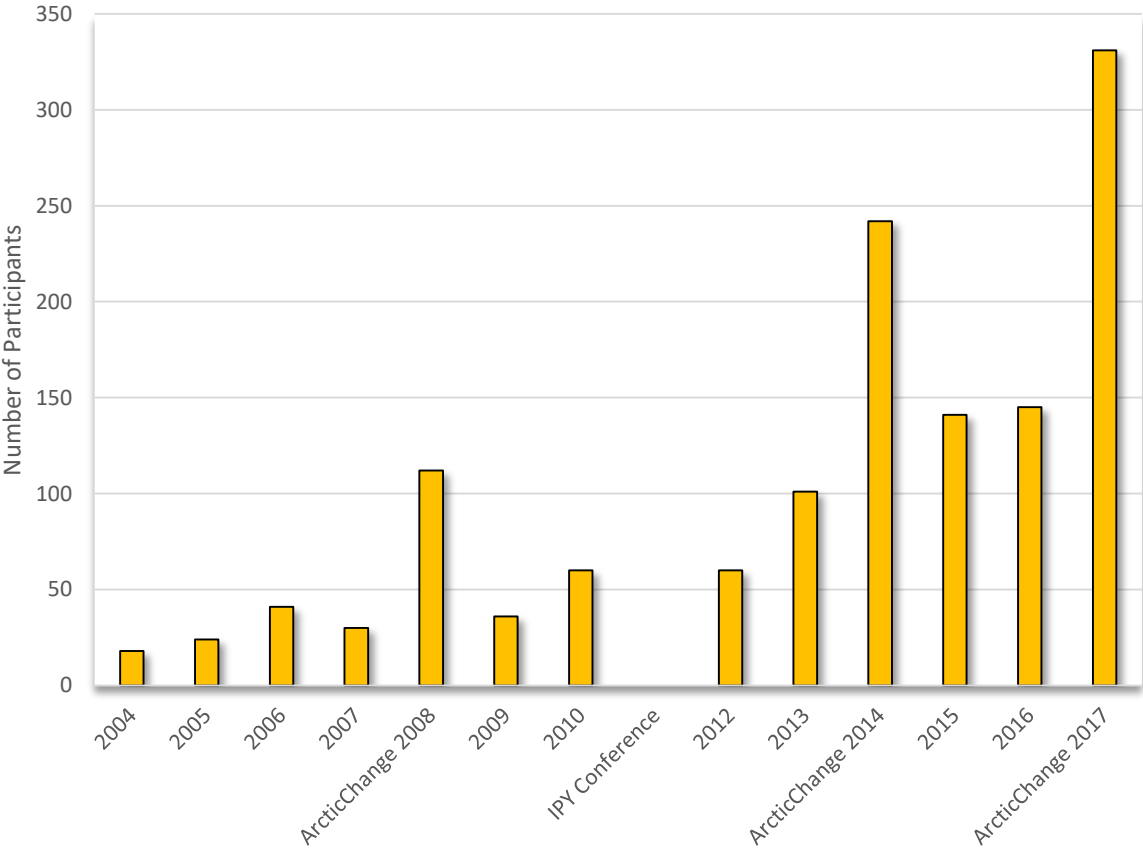
There were 132 Northern Organizations identified

1000+ individual engagements overall

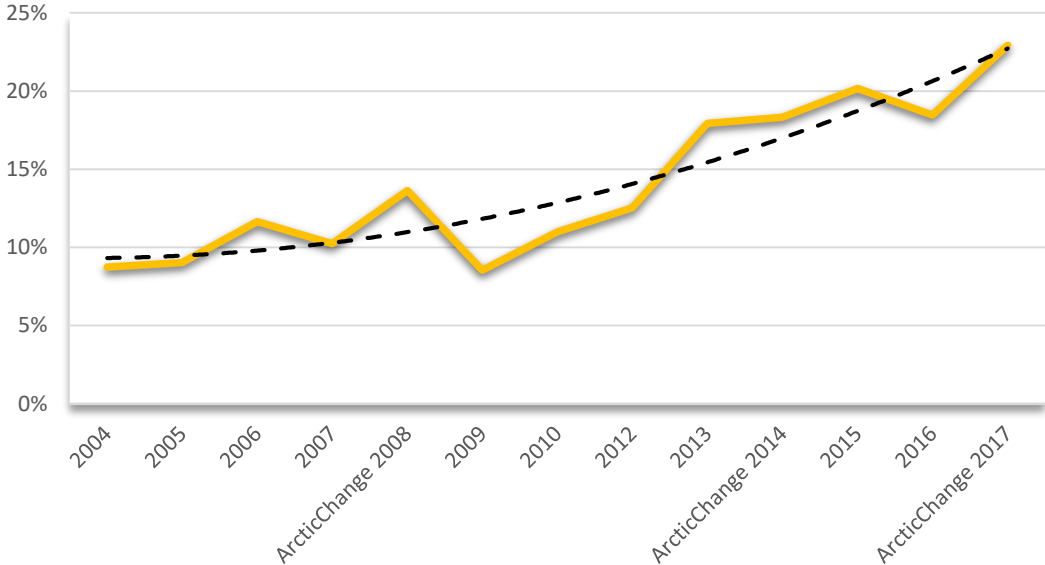


# NETWORKING AND PARTNERSHIPS – Northern Organizations

ArcticNet Conferences  
Total Number of Inuit / Northern Attendees  
2004 - 2017



ArcticNet Conferences  
Inuit/Northern Percent Attendance  
2004 - 2017



## ARCTICNET EXPERIENCE - ENGAGEMENT IS A PROCESS

Increase in Inuit driven questions at the centre of the research being conducted

- ex. 2011 and 2014 Food Security proposals were designed to support regional food security strategies in Nunavik and Nunatsiavut and their data needs

More action oriented research being conducted

- intervention evaluation and implementation science is becoming a more common as part of research program

More repeat Inuit research staff/ reps are involved at various levels of projects including development, conduct and reporting

- now see some projects co-led with Inuit org rep

Enhanced knowledge mobilization process through involvement and control in project by Inuit partners and immediate use of results in local and regional decision making

- ex. Nunatsiavut food security strategy development



## WHERE DO WE GO NEXT ?

***“This should include supporting research by and with Indigenous communities and increasing the capacity of Indigenous communities to conduct research and partner with the broader research community.”***

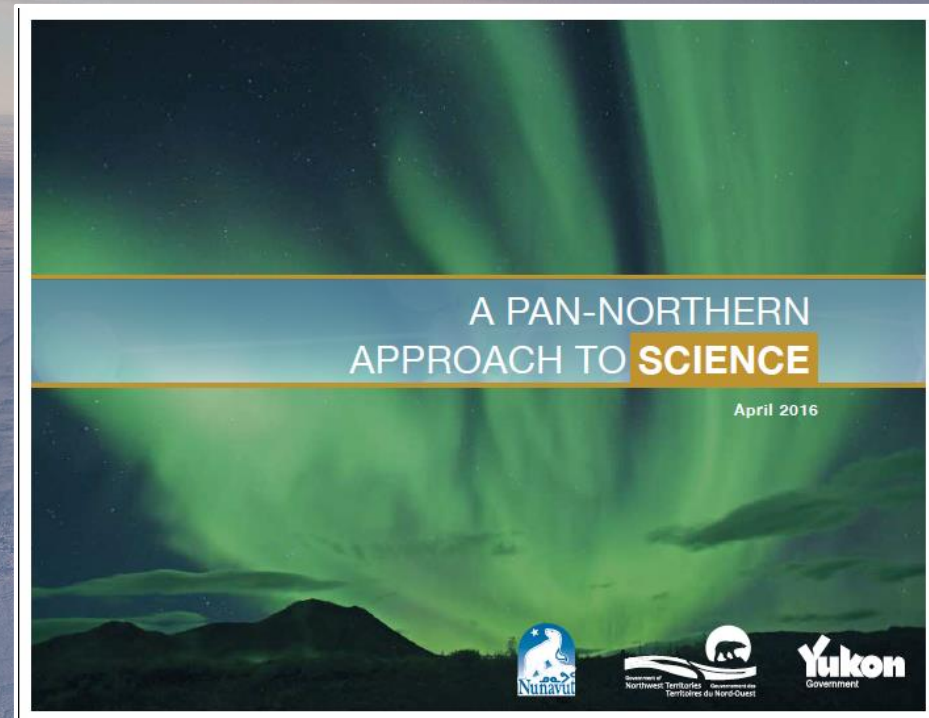
Mandate Letter to the Canada Research Coordinating Committee

Kirsty Duncan, Minister of Science

Ginette Petitpas Taylor, Minister of Health



National Inuit  
Strategy on Research



## Moving toward self-determination in research

**Vision:** To establish an Inuit-led research and innovation network generating and mobilizing knowledge to improve long-term Inuit health and well-being

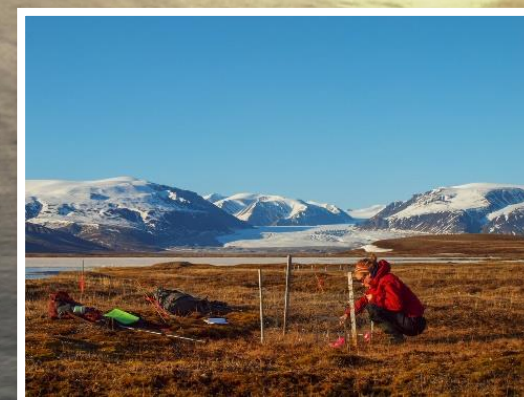
### New Opportunities

- North-by-North Inuit Research Program will build on the Inuit Climate Change Strategy, address the ITK Strategic Action Plan priorities and engage directly in the IRIS process
- Inuit Regional Review process for proposals and project progress will increase community input and understanding of ArcticNet research results
- Alignment with the National Inuit Strategy on Research



A conference focusing on the challenges and opportunities arising from climate change and modernization in the Arctic

A conference focusing on the challenges and opportunities arising from climate change and modernization in the Arctic



Dec 10 – 14, 2018

# Shaw Conference Centre

# Ottawa

An invitation to Arctic and Northern researchers, Indigenous peoples, stakeholders, and all levels of community decision-makers to share results, strengthen networks and build collaborations

ArcticNet

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[www.arcticnetmeetings.ca/asm2018](http://www.arcticnetmeetings.ca/asm2018)

*background photo credit Martin Fortier*