

Steering Committee Readings

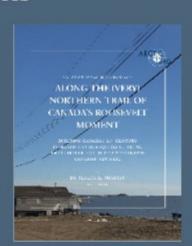
Arctic360 Resources

Listen to Arctic360's podcast series!

and interests in the Arctic leadscap All have been ingested differently be the follow of COVID-19, and all fees an uncertain future. One thing wanning consistent, the infrastructideficit in Canada's North has long created serious challenges to the health, prosperity, security, and austrianhilly of commensation.



https://www.arctic360.org/uncharti



Task Force for Real Jobs, Real Recovery



From Our Steering Committee Members



https://arcticyearbook.com/arcticyearbook/2015/2015-commentaries/143 the alaska arctic-policy-commissionlegislative-arctic-committees-andsovemor-walker-s-arctic-policy-affort

Comments & Discussion



Building Canada's Arctic Infrastructure for a Thriving Canada 2040

A Roadmap for Northern Infrastructure Starts With a Collective Vision of Canada's North in 2040



Agenda & Objective

To seek Committee alignment on project framework, discuss project next steps, and discussion of Arctic360

10 min	Arrival & Introductions
10 min	Setting the Stage
10 min	The Interactive Map Concept
15 min	Discussion: Project Aims and Map
45 min	Discussion: Project Moving Forward
10 min	Discussion: List of participants
5 min	Media Engagement
5 min	Close & Next Steps



Session Participants

MEMBERS OF STEERING COMMITTEE

- **Derron Bain**, Managing Director, Concert Infrastructure
- · Jim Bassillie, Co-Founder, Arctic Focus
- Dale Coffin, Corporate Director, Communications and Public Affairs, Agnico Eagle
- · Clint Davis, CEO, Nunasi Corporation
- John English, Co-Chair of Board, Arctic360
- Peter Garapick, Director, Industry Relations, Quark Expeditions
- · Paul Gruner, CEO, Det'on Cho Corporation, NWT
- · Tom Henheffer, Vice President, Arctic Research Foundation
- · Bob McLeod, former Premier NWT
- Tom Paddon, Chair Baffinland Iron Mines
- · Peter Prawak, Corporate Director, Procurement, Agnico Eagle

SESSION HOSTS

- **Jessica Shadian**, President and CEO, Arctic360
- Madeleine Redfern, Executive Director, Northern Branch, Arctic360

SESSION MODERATOR

Dan Pujdak

Session 2: Envisioning Canada's Northern Economy in

2040: Convene Northern Industry Leaders and map out potential state of the Northern economy and the economic contributions each sector can potentially deliver for the North

and the whole of Canada.



Move

Session 4: Public-Private partnership mechanisms to finance Northern infrastructure: Use information from previous sessions participants focus on what requirements capital investors need satisfied to be able to make long-term greenfield investments in critical transportation infrastructure for the Canadian North; answering what steps are required and what can be done now to help facilitate that process.



Steering Committee Discussion

What key outcomes should the map achieve?

What would make this project successful?

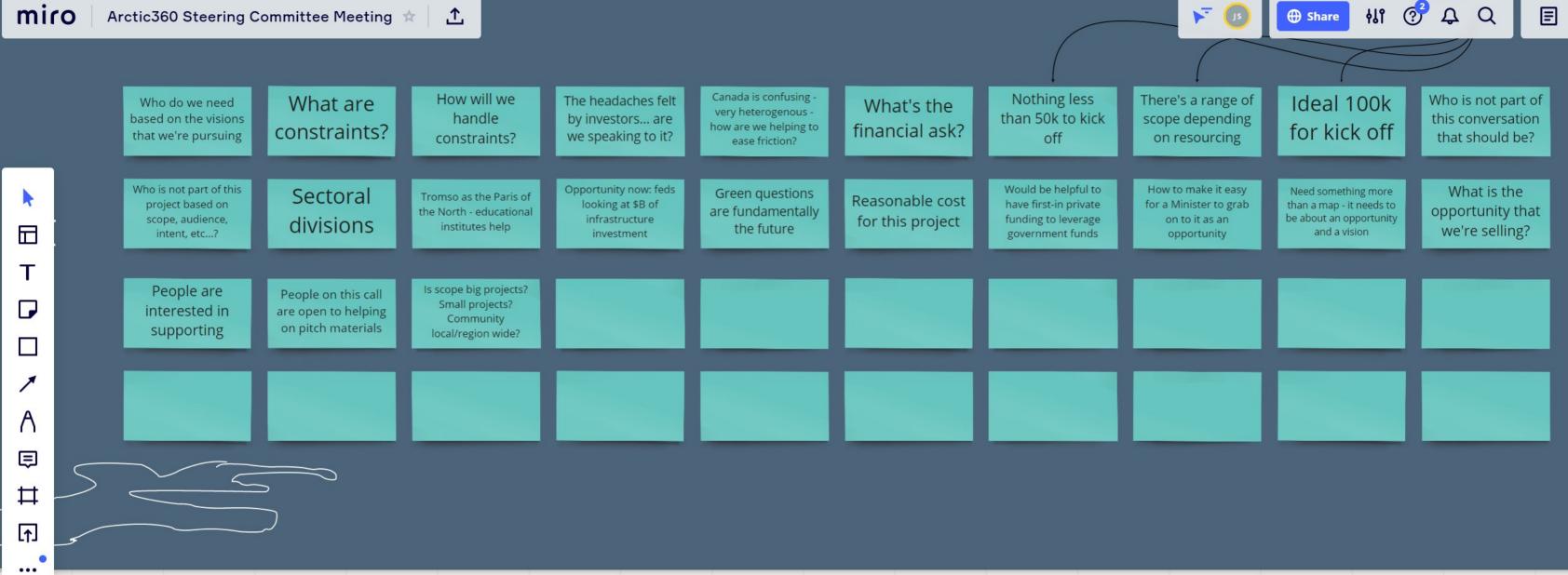
What would make this project impactful?

How could this project help you enable outcomes?

Who are we missing?

Comments & Discussion







Steering Committee Discussion

Based on our propositions

> vantage points,

interests

What do we need to achieve success?

How can we all enable this project to move forward? Where can we find funding?

How do we communicate the value of this project? When and how do we launch?

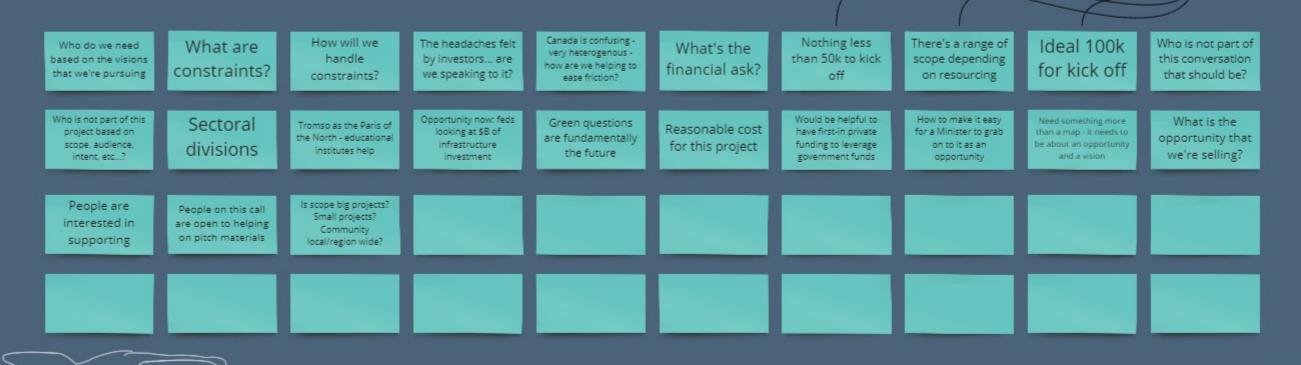
Diversity in Wholistic perspective, approach Long-term Consensus reflecting local

global

Building

What's our range of ambition?

Comments & Discussion



Who are we missing?

Session 1 Participants Economic Sector

- Project Steering Committee
- Curtis Shaw, CEO, Northwest Tel
- David Willis, Environmental & Community Coordinator, De Beers Canada Inc.
- Clarke Bruno, CEO, Anbaric
- · Spencer Fraser, Inocea Group of Companies
- Duane Smith, Chair, Inuvialuit Regional Corporation (IRC)
- · Jackie Jacobson, MLA, Tuktoyuktuk, Science Economy (International Researchers)
- · ATII (Let's go) Tourism
- Tom Hoefer, Executive Director, NWT and Nunavut Chamber of Mines
- Madeleine Redfern, AjungiTel/Nuvujaq/ArcticIXP
- Robin Goad, Fortune Minerals
- Qikiqtaaluk Corporation
- Kitikmeot Corporation
- Makivik Corporation
- Nunatsiavut Group of Companies, Chris Webb, President and CEO
- · Dana Tizya-Tramm, Chief, Vuntut Gwich'in First Nation
- Yukon First Nations Chamber of commerce

Session 2 Participants Infrastructure Projects & Firms

Steering Committee

Port/Rail Churchill: Joe Coccimiglio, Fairfax Financial (Churchill)

Kivalliq Project: Hussein Allidina, Director, Commodities within the Capital Markets, Ontario

Teachers' Pension Plan

Grays Bay Port and Road

Slave Geological Province

A2A Rail

Nuna Logistics, Joe Lambert, Chief Executive Officer OR Miles Safranovich, President & Chief

Operating Officer

Barnard Construction

Amp

Miovision

AECON

Don Ellis

Jacobs Engineering

Honeywell

TRON

Gruben's Transport Ltd., Merven Gruben, Vice President & Co-Owner E.

ClimateAI

CISCO

What about What about Northern Design Architects and Engineers?Design Architects and Engineers?

Session 3 ParticipantsFinancial Institutions

David Sharpe, CEO, Bridging Finance/Jake Dockstator, VP Business Development

Ken Grewall, Forthelane Capital

Graham Capital Partners: Adam Burk, Vice President Concessions & Infrastructure Finance

EllisDon Capital Services: Chris Moran, Director

Kiewit Development Corporation: Sam Chai, President/Terry Burgis, Senior Vice President

Plenary Group: Paul Martin, Senior Vice President

Northleaf: George Zakem, Managing Director, Infrastructure

DIF Infrastructure: Jeff Rogers, Senior Director

Great-West Life: Sébastien Munsch, Managing Director, Private Placements Sun Life: John Vincent, Senior Managing Director, Head of Project Finance

Manulife: Bruce Anderson, Managing Director, Private Placements /Isha Aggarwal, Managing Director, Public Fixed Income and Private

Placements

Rick Doman, Chairman and CEO, Abell Corporation; Member of Board, Arctic Gateway, Executive Chairman, AMIRA Medical Technologies

Michael Sabia, Munk and CIB

Goldy Hyder, President and CEO, Business Council of Canada

Canadian Venture Capital & Private Equity Association (CVCA)

Banks

John Stackhouse, RBC

Graham Begg, Managing Director and Head of North American Private Debt at TD Securities

TD Asset Management: Bruce MacKinnon, Managing Director, Head of Private Placements / Craig Buckley, Director

Indigenous Dev Corps

Qikiqtaaluk Corporation

Kitikmeot Corporation

Makivik Corporation

Nunatsiavut Group of Companies, Chris Webb, President and CEO

Doug Bartlett / Shariq Alvi, Global Infrastructure Financing Group, CIBC

Paul Gruner, CEO Det'en Cho Corporation, NWT

Darrell Beaulieu, President and CEO, Denendeh Investments Incorporated

Clint Davis, CEO, Nunasi Corporation

Duane Smith, Chair of BOD, Inuvialuit Regional Corporation,

Dana Tizya-Tramm, Chief, Vuntut Gwich'in First Nation

Pension Funds

Quebec Pension Fund

OP Trust

OMERS

Canada Pension Plan Investment Board

Where To From Here?

I KNOW YOU KNOW!



GEOGRAPHICAL CONCEPTIONS/ ASSUMPTIONS OF ORIENTATION

MATTER



CANADA





CONCEPTIONS OF GEOGRAPHICAL ORIENTATION MATTER

90 percent of Canadians live within 100 miles of the US border



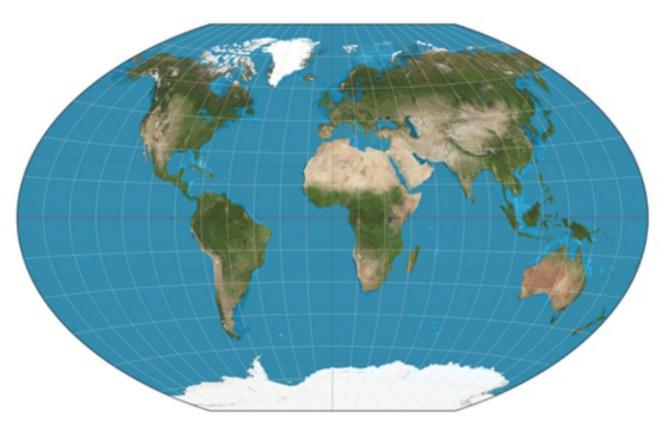


Global Orientation



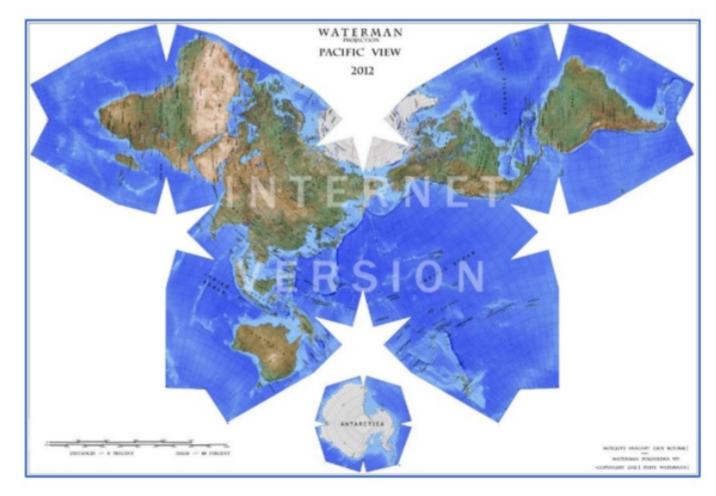
1942 Mercator Projection World Map





The Winkel Tripel Projection World Map

Waterman Butterfly Projection



CIRCUMPOLAR ARCTIC - POLITICAL REGION



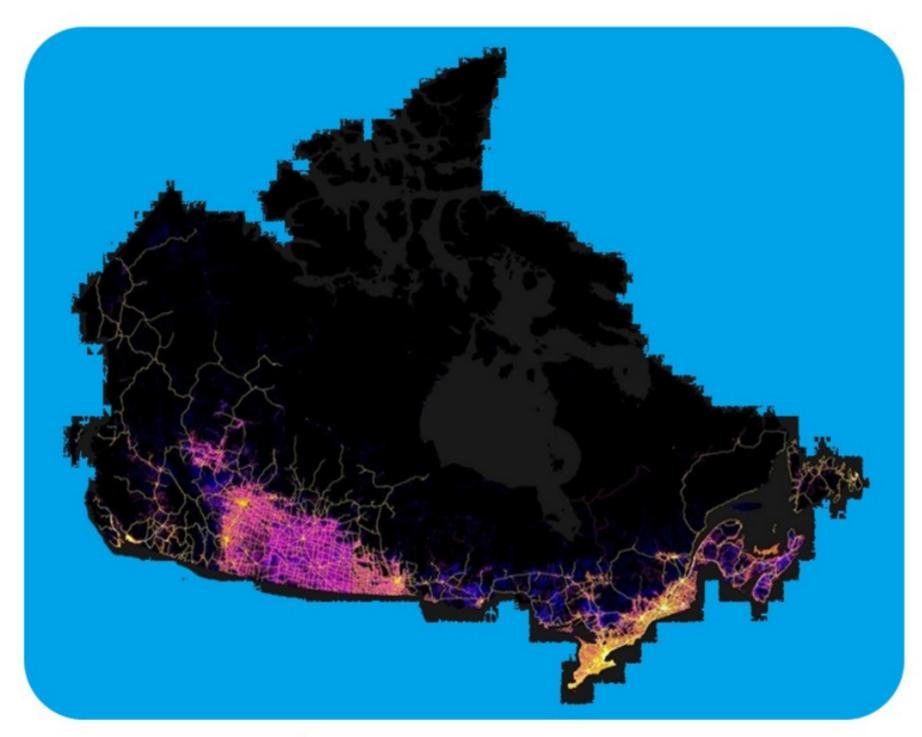


A SENSE OF WHAT IS POSSIBLE IS DRIVEN BY WHAT WE SEE AND AN ACCEPTANCE OF WHAT IS CONSIDERED NORMAL

IT IS ALSO DRIVEN BY WHAT WE DON'T SEE



OUR MENTAL MAP OF OUR NORTH



CANADA'S ELECTRICITY AT NIGHT



THE NARRATIVE OF THE NORTH WE KNOW



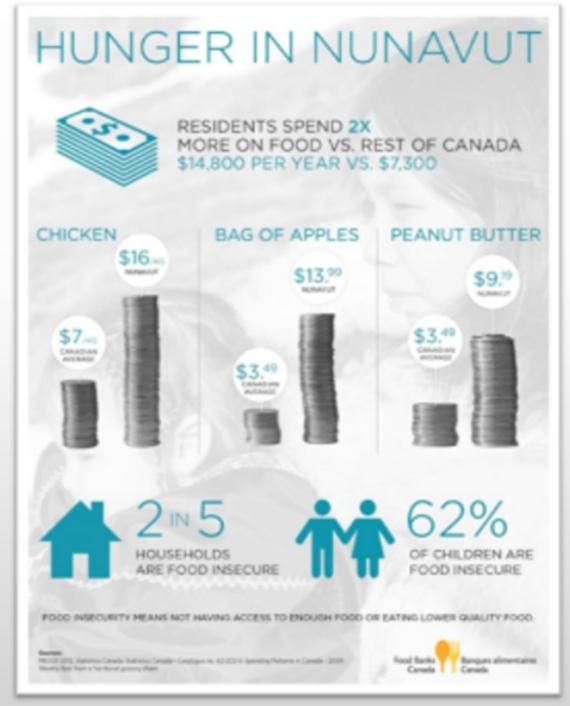














A REGION OF SOCIAL WELFARE

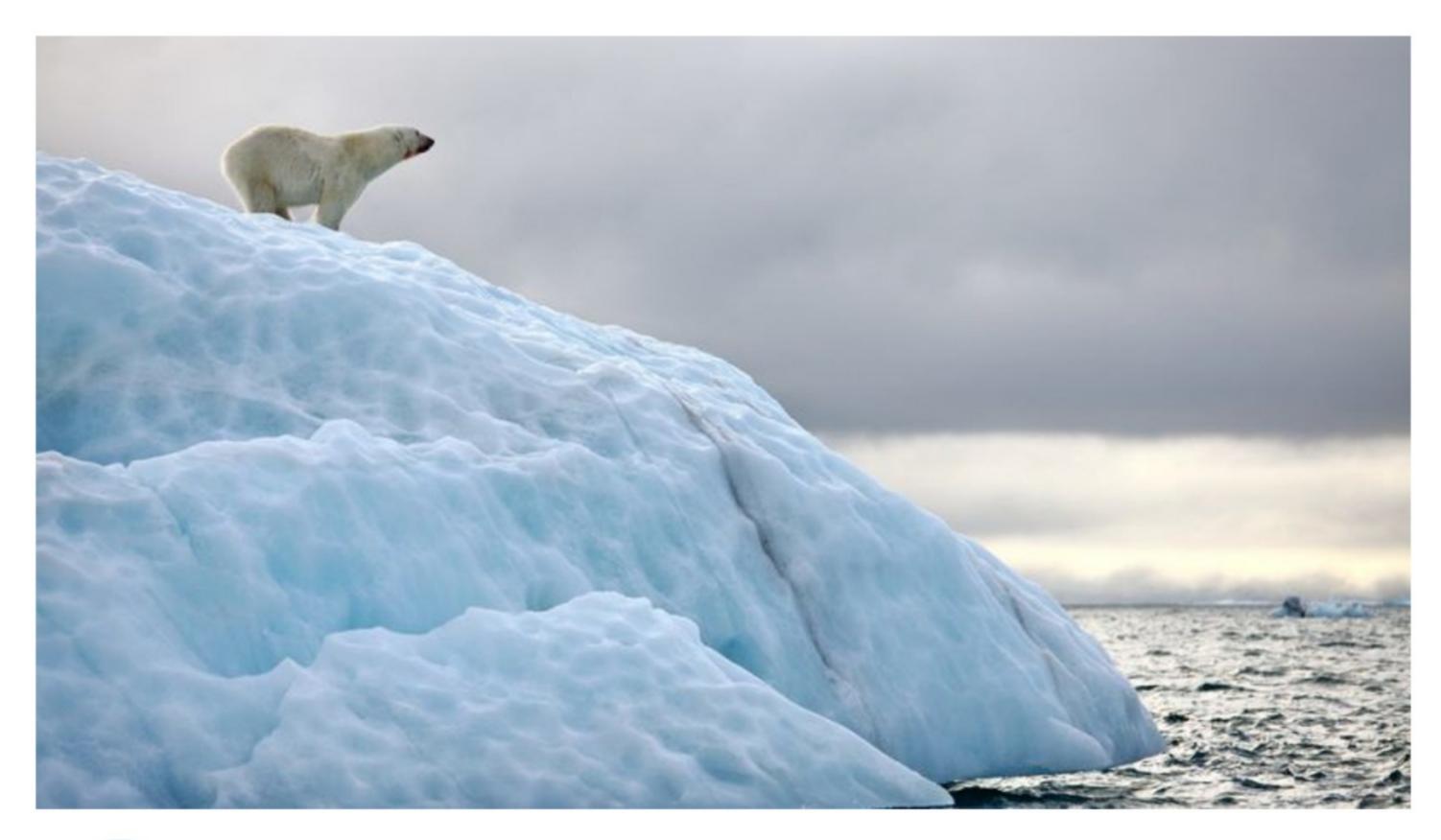








WHO OWNS THE ARCTIC?





OUR ASSUMPTIONS ABOUT THE NORTH ARE CONSCIOUS DECISIONS WE MAKE

THEY ARE NOT THAT WAY BECAUSE IT IS THE NORTH AND INEVITABLE



THIS IS ALSO THE ARCTIC



Akureyri, Iceland



Rovaniemi, Finland





Tromsø, Norway

Murmansk, Russia



VISIONS OF THE NORTH OF OUR ARCTIC NEIGHBOURS

The North As The Key To 21st Century Innovation and Knowledge



BUILDING NEW HOUSES IN LONGYEARBYEN:

USING SENSOR TECHNOLOGY TO TRACK IMPACTS OF MELTING PERMAFROST ON STEEL



The permafrost melts under Longyearbyen, a settlement of about 2,200 people on Svalbard. Photo: Thomas Nilsen

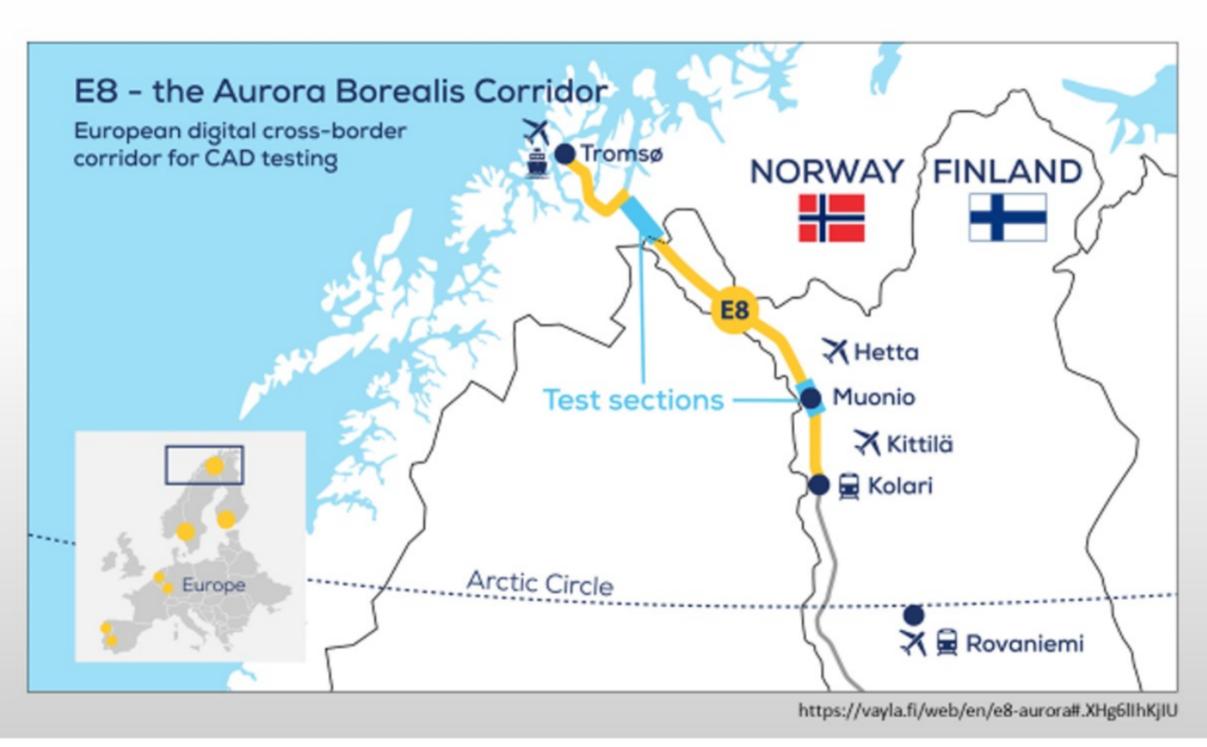
Thawing permafrost makes big trouble for world's northernmost town



https://thebarentsobserver.com/en/arctic/201/10/thawing-permafrost-troubles-longyearbyen

E8 – AURORA: ARCTIC INTELLIGENT TRANSPORT TEST ECOSYSTEM







KIRKENES – RUSSIAN BORDER

Network of High-Power Electric Vehicle Charging Stations



http://www.jasonaroundtheworld.com/tag/kkn/



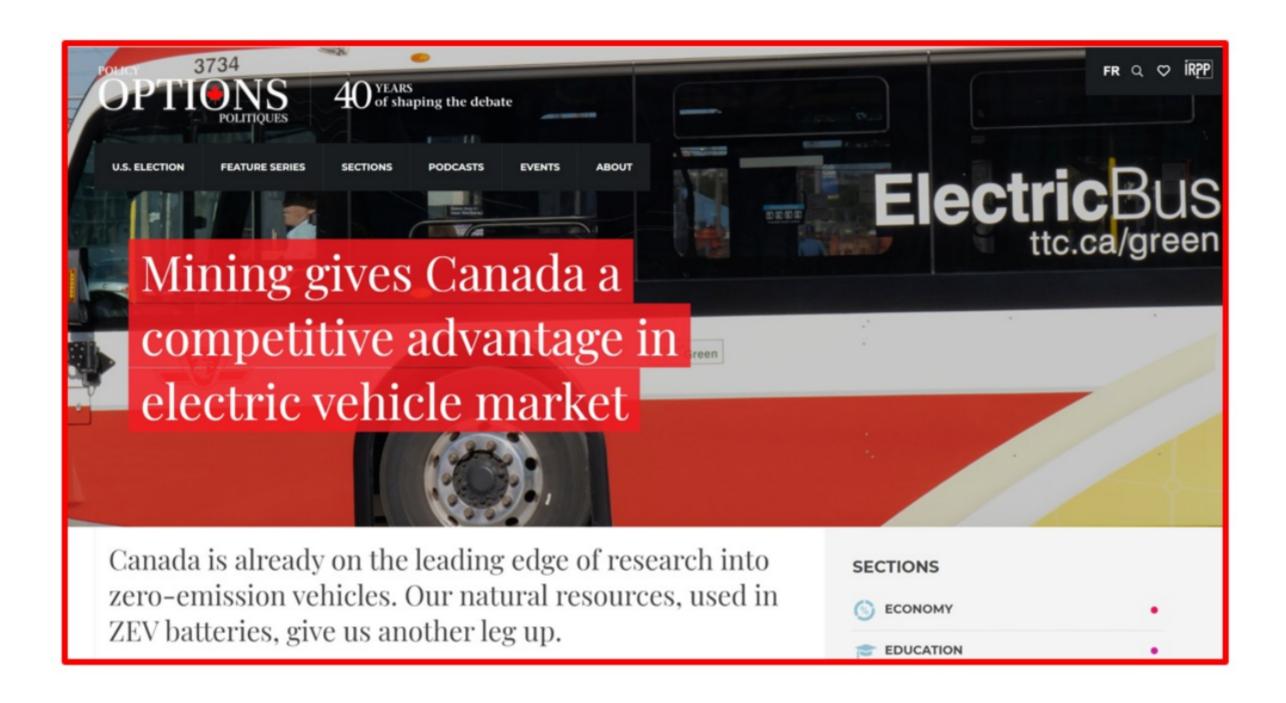
Tesla Model S can today drive without re-charging the batteries from Kirkenes across the border to Russia into Murmansk. In the future, also cars with shorter battery range can drive longer distances in Finnmark. Photo: Thomas Nilsen

Electric cars get network of fastchargers in Northern Norway

Will make it possible for the rapid-growing fleet of private electric cars to drive the long and remote distances, including all major cross-border roads to Russia, Finland and Sweden.



CANADIAN ASSUMPTIONS ABOUT APPROPRIATE TECH HUBS

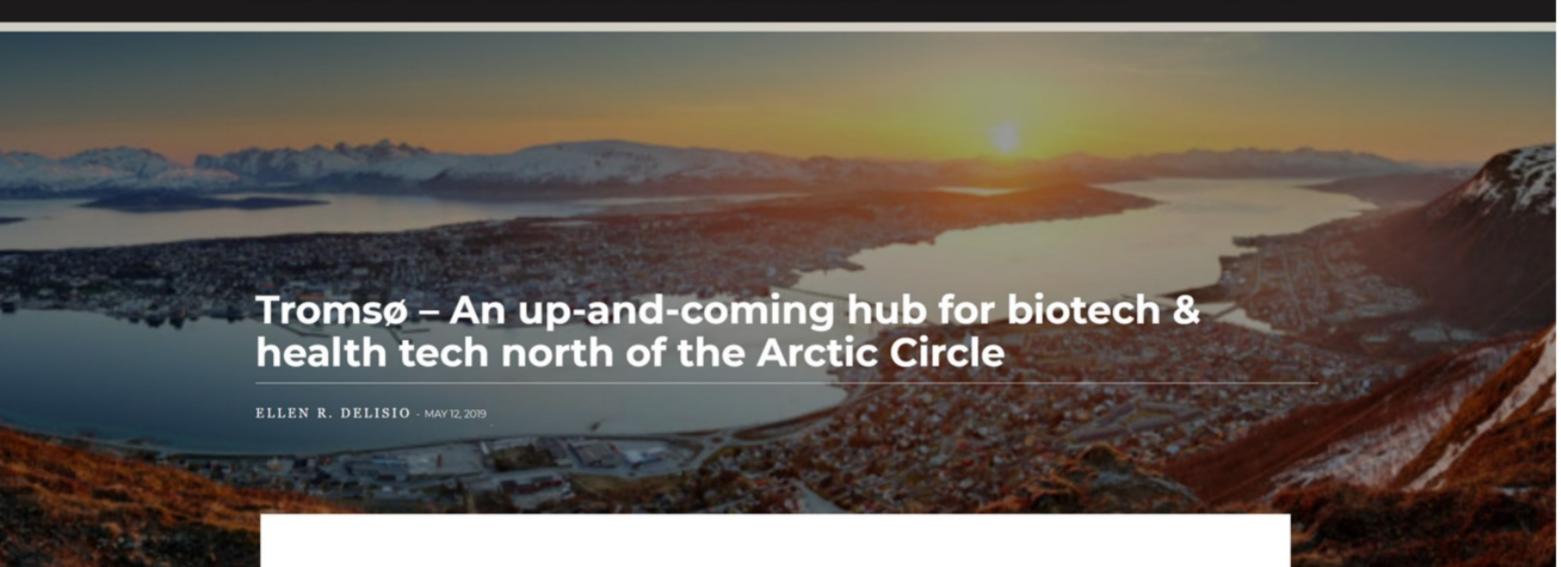




- 150,000 square-foot technical centre in Markham to develop autonomous vehicle technology
- the Ottawa Autonomous Vehicle Cluster, which includes a 16-kilometre test facility.
- Canadian university students to partner with Canadian industry in developing a 100 percent made-in-Canada concept car of the future

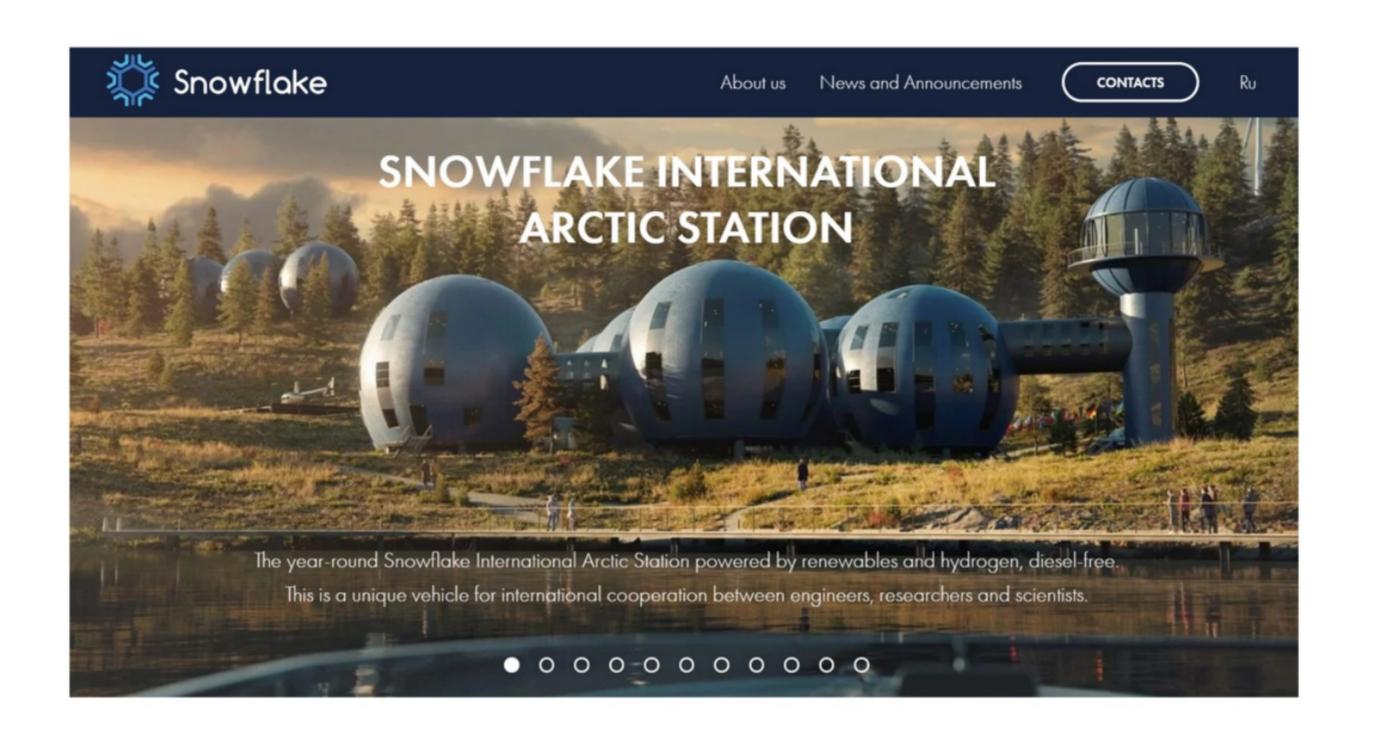
NORDIC LIFE SCIENCE NEWS

BUSINESS PHARMA MEDTECH BIOTECH SCIENCE CAREERS EVENTS PRESS ROOMS ABOUT US - SUBSCRIBE LOGIN



Long known for its natural beauty and abundant natural resources, the City of Tromsø in Norway's far north now is making a name for itself in medical and life sciences' research.





About project

Snowflake IAS is a fully autonomous year-round diesel-free facility powered by renewable energy sources and hydrogen fuel.





International V Research V Find researcher Cooperation V



International

Info to guest students - and about our cooperation & agreements.

Research

Are you looking for our research projects?

Find researcher

Are you looking for one of our researchers?

Cooperation

Are you looking for ways to cooperate with us?





No matter where you live in Greenland, you can now get a 4G signal

All Greenland's populated places now have access to fast mobile internet connections.

By Kevin McGwin - November 13, 2018

■ 3347













THE KEY TO SOFT DIPLOMACY AND ECONOMIC STRENGTH



OUR LACK OF VISION TRANSCENDS INTO CANADA'S ARCTIC FOREIGN AFFAIRS





COOPERATION

- / COOPERATION & AGREEMENTS (+)
- / GREENLAND PERSPECTIVE
- / COOPERATE WITH STUDENTS
- / ILISIMATUSARFIK'S VOLUNTEER PROGRAM
- / CONFERENCE FACILITIES
- / AMERICAN CORNER
- / VISITUS

AMERICAN CORNER

American Corner at Ilisimatusarfik is an American place where students, staff etc. can find books, magazines, films and much more in relation to American culture, history and society.

American Corner is located in Panopticon at Ilisimatusarfik campus Ilimmarfik.

American Corner is kindly sponsored by the Embassy of the United States of America in Copenhagen, Denmark.





SOFT DIPLOMACY IS CONNECTED TO REAL DIPLOMACY/INVESTMENT/ECONOMIC GROWTH



Consul U.S. Consulate, Nuuk, Greenland

Home | Embassy & Consulate | U.S. Consulate Nuuk | Consul U.S. Consulate, Nuuk, Greenland



Sung W. Choi Consul U.S. Consulate, Nuuk, Greenland

https://dk.usembassy.gov/embassy-consulate/nuuk/consul/







ARCTIC DEPARTMENT ARCTIC DEPAR

BBC's Stephen Sakur moderating a panel discussion

ANNAL ARCTIC FRONTIERS: TROMSØ, NORWAY





ARCTIC CIRCLE ANNUAL ASSEMBLY: REYKJIAVIK, ICELAND















ARCTIC CIRCLE ASSEMBLY OCTOBER 2018





WE CAN DO BIG THINGS WHEN WE HAVE THE WILL

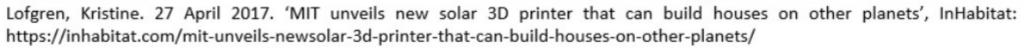




MIT UNVEILS 3D PRINTED HOUSES FOR OTHER PLANETS

If MIT Can Build Houses on Other Planets, We Should Be Able To Build Affordable Houses in our Own North on Planet Earth





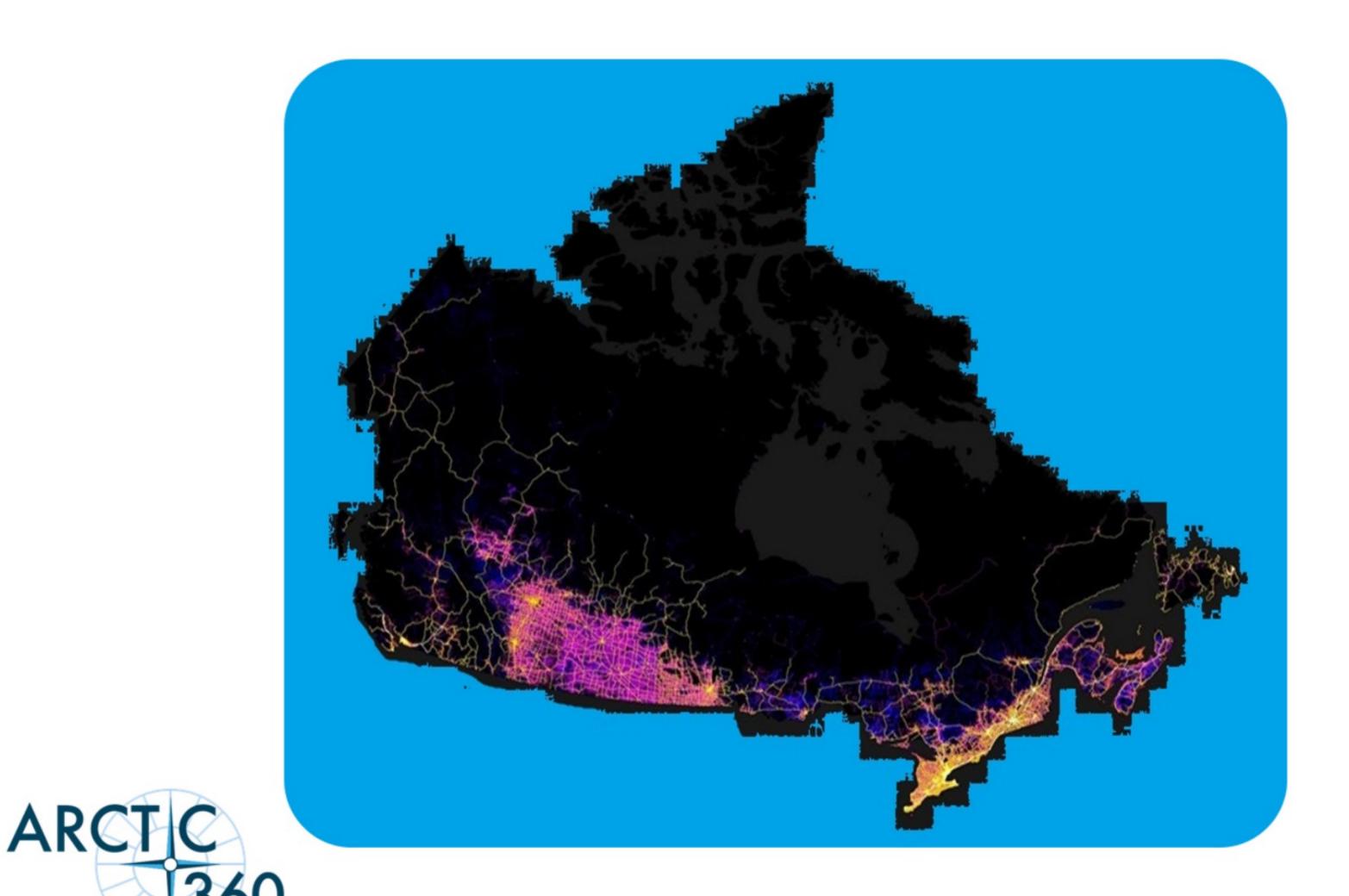


FROM GAZING ON THE SIDELINES TO ACTIVELY INVESTING IN CANADA'S FUTURE

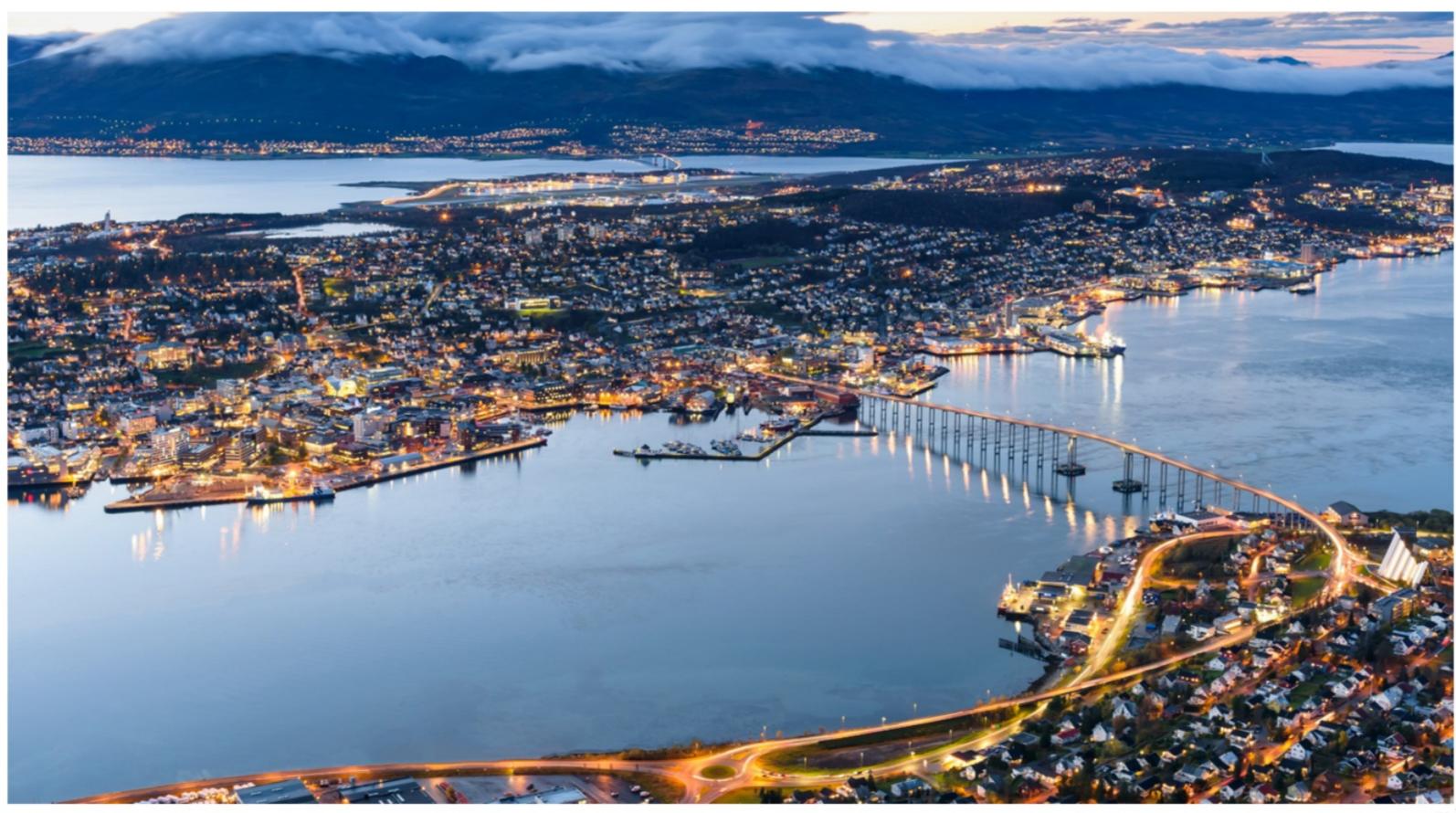




BUILDING A PROSPOROUS CANADIAN NORTH THAT ATTRACTS INVESTMENT AND GLOBAL RECOGNIGITON



STARTS WITH A VISION:



WHY THIS PROJECT? WHY ARE WE MAKING A MAP?

"You Can't Be What You Can't See"

Marian Wright Edelman, founder of the children's defense fund,
 on the rights of black children

"Dream with ambition, lead with conviction, and see yourselves in a way that others may not see you, simply because they've never seen it before"

- Kamala Harris, 2020 Acceptance Speech



CANADIAN GOVERNMENT MAPS PROVIDE ONLY MOST BASIC INFORMATION

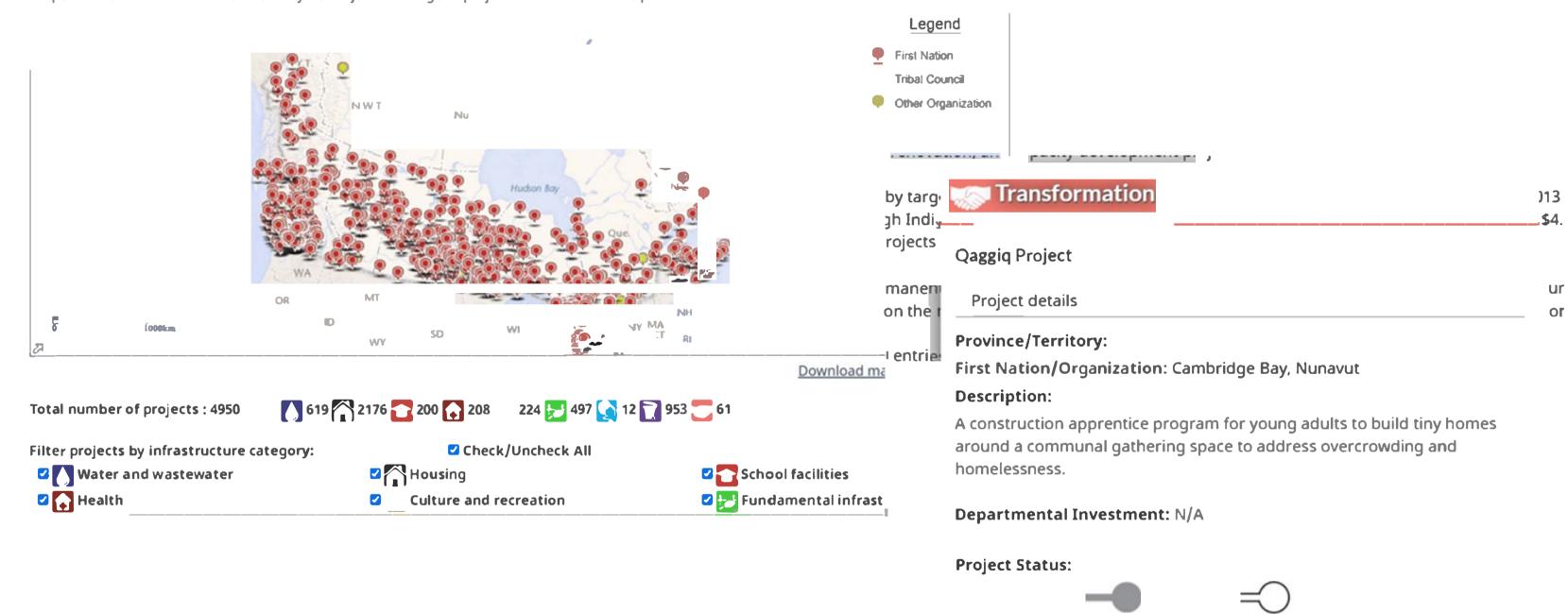
From: Indigenous Services Canada

This map shows ongoing and completed infrastructure projects in First Nations communities across Canada, as of March 31, 2020. It includes feasibility studies, new construction and renovation, and capacity development projects.

These projects are supported by targeted funds from Budgets 2016 and onward, as well as carry-over from Budget 2013 and 2014 commitments, for a total of about \$8 billion through Indigenous Services Canada, until 2026-2027. Since the Budget 2016 announcement, \$4.7 billion has been invested to support 4,950 infrastructure projects, 3,192 of which are now complete.

The map does not include permanent annual funding or statutory expenses related to the federal Gas Tax Fund. The number of projects may not add up to the number of markers on the map or entries in the table below the map since some projects involve more than one First Nations community.

Scope and details of individual entries may be subject to change as projects and infrastructure portfolio evolve.



STARTED

Latitude: 69.109104

Longitude: -105.120669

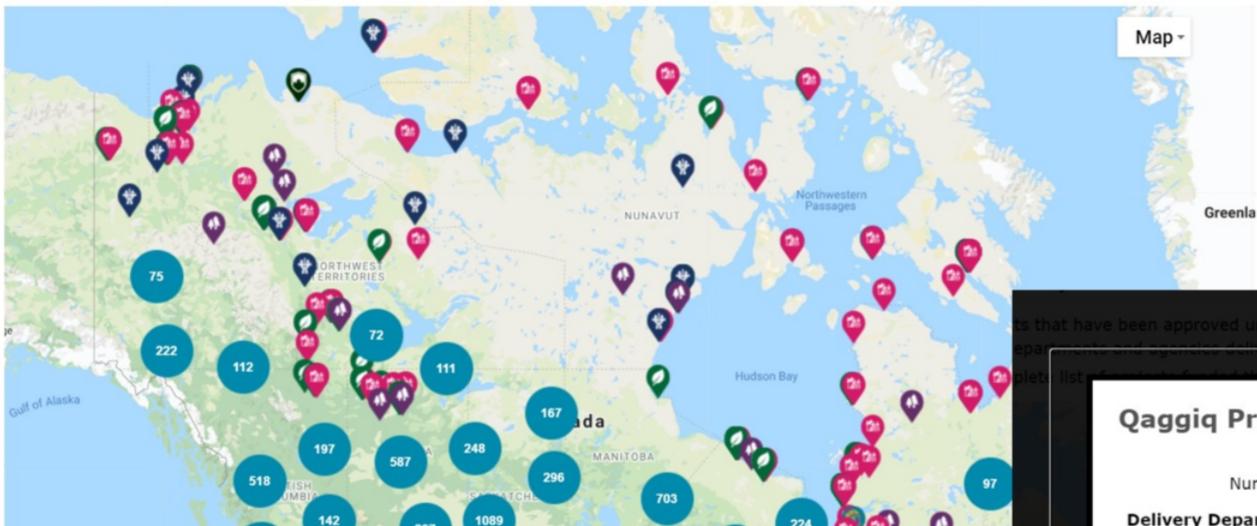




Home > Investing in Canada Plan Project Map

Investing in Canada Plan Project Map

The map below presents a broad cross-section of projects that have been approved under the \$180+ billion Investing in Canada plan. It is updated monthly to reflect newly approved projects under the funding programs of the 21 federal departments and agencies delivering the Plan. We continue to gather project details and will add them to the map as available. Visit often. Since not all projects can be mapped, a complete list of projects funded through these investments is available here. More information below.





Google

Nunavut

Delivery Department/Agency:
 Indigenous Services Canada

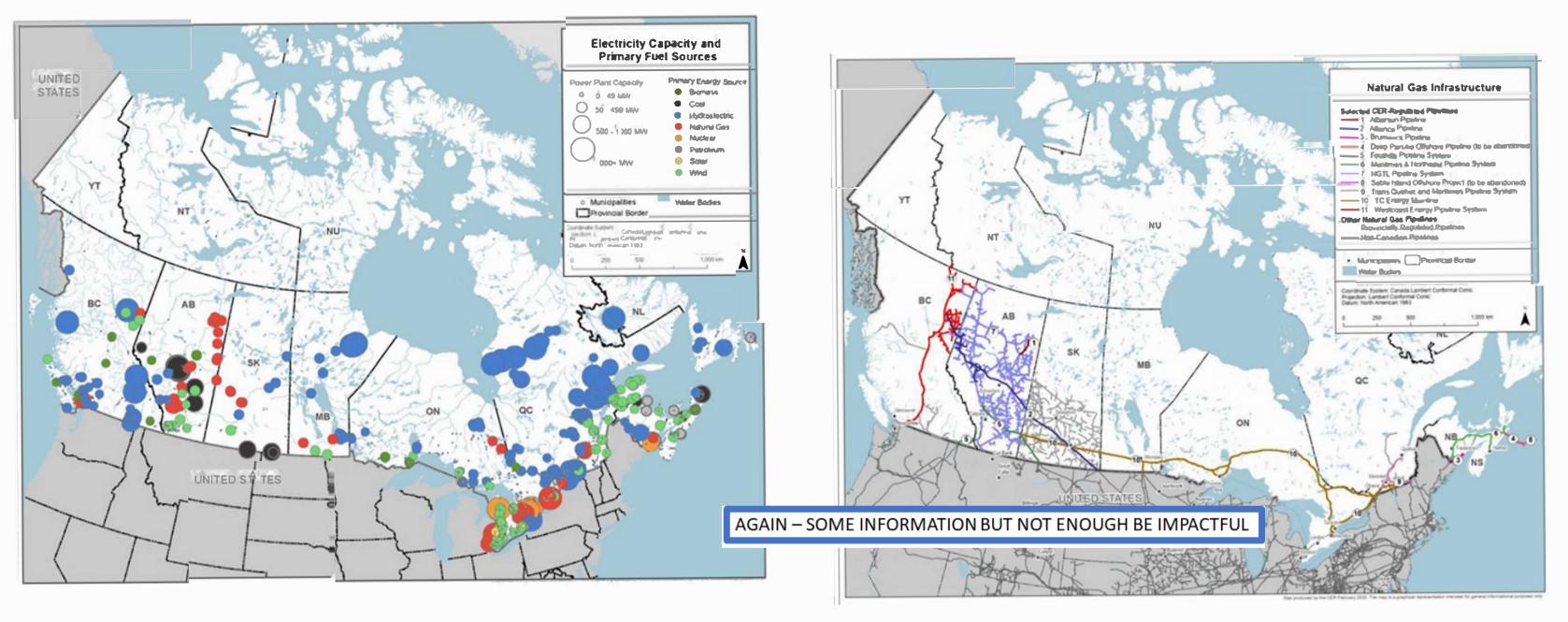
Federal Contribution: not available

Estimated Total Cost: not available

Estimated Start Date: not available

A construction apprentice program for young adults to build tiny homes around a communal gathering space to address

overcrowding and homelessness.



7. Country-to-country net migration





INTERVIEWS AND OTHER AUDIO/VISUAL DATA



miro

HISTORICAL: 2020/2030/ 2040

