

CANARCTIC

Business Briefing Program

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OVERVIEW

ABOUT US

- Mission & Vision
- Solutions & Services

OBJECTIVES

- Short to Long Term Vision

INITIATIVES

- Capacity Building
- Broadband Programs
- Future Proofing Distribution

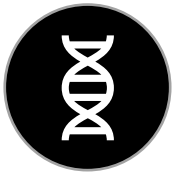
TECHNOLOGY

- LEO Satellites Constellations
- Submarine Fiber Cable Projects

CONCLUSION



ABOUT US



MISSION

Close the digital divide and foster Inuit self-reliance.



INNOVATE

Cooperate to deliver compelling value using innovative technology.



VISION

Thriving Arctic communities with full participation in and benefit from the digital economy.



EMPOWER

Enable high levels of operational and financial proficiency through technology.

SOLUTIONS & SERVICES

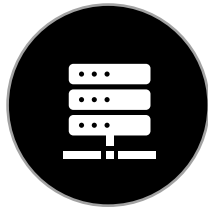


BROADBAND

First 100% Inuit fully registered ISP in Nunavut

Tailored Commercial Internet Access services.

Managed End to End Private & Secured Communications.



MANAGED IT

IT Operations and Maintenance support services for system users, hardware, and software.

Off-site backup and server system hosting (in Iqaluit)

On-premises Smart Hands Support & Maintenance

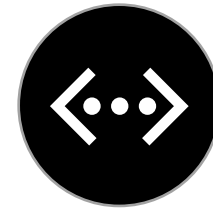


EXPERTISE

Our extended team of experts' knowledge covers a wide range of technology fields.

Design, Installation and Operation of Information Systems in the Arctic.

Satellites Backhubs, Wireless & Fibre Distribution.



SOFTWARE DEV

Software Development Service

- Web Applications;
- Database Design & Architecture;
- E-commerce; and
- Automation

OBJECTIVES

SHORT TERM



- Improve internet access to homes and businesses
- Facilitate Potential Collaboration Synergies
- Diversify Canadian Communication network
- Enhance Inuit Self-reliance - Participation in the digital economy

MID TERM



- Improve health and well-being of Inuit communities
- Build world-leading marine corridors/enhance northern transportation communication infrastructure
- Strengthen Arctic Policies | Sovereignty Safety Security

LONG TERM



- Thriving , connected, safe communities
- Provide International routing opportunities
- Expand Broadband Coverage in the Arctic

VISION



- Enable strong Arctic and Northern communities
- Inuit Led and Operated Arctic Telecommunication Infrastructure

INITIATIVES

CAPACITY BUILDING

HUMAN CAPITAL

DEVELOP INUIT EXPERTISE

- Information Technology
- Security
- Telecommunication & Networking

INFRASTRUCTURE INVESTMENT

DATA CENTRE – IQALUIT

- Old Iridium Facility Acquisition – Iqaluit Broadband Hub
- LEO Satellite Earth Station & Terminals
- C / Ku / Ka bands capacity

COMMUNITY TELECOM DEVELOPMENT

- Centralized LEO Earth Stations & Local Data Center
- Fibre Distribution Routing
- Community Technical Expertise



BROADBAND PROGRAMS

CRTC – Broadband Fund 2019/2020

ISED – Universal Broadband Fund 2020

Nunavut still Unawarded

FEDERAL BROADBAND FUNDING DISTRIBUTION PER PROGRAM

BROADBAND FUND	YEAR	TOTAL	NUNAVUT	RECIPIENT
Rural and Northern Communities Infrastructure	2018	\$2B	\$151.2M	GN - CGS
Connect to Innovate	2017	\$500M	\$49.9M	Northwestel
Connecting Canadians	2015	\$290M	\$35M	SSi Micro



COMMUNITY BASED CENTRALIZED DISTRIBUTION

Every communities in Nunavut are satellite-dependent.
Satellite capacity is limited and unscalable

- Combined Broadband Capacity Hub
 - Optimized capacity allocation
 - Off Site Backup Hosting
- Future-proofed by design
 - FTTH / FTTB Distribution
 - Legacy Free

TECHNOLOGY

LEO SATELLITE CONSTELLATIONS

THE SPACE RACE THE ARCTIC WAS WAITING FOR

The advent of the LEO satellite technology promises to be a game-changer for the Arctic. By design, LEO satellite technology is better than GEO in that it is more efficient, faster and less expensive.

MID-TERM

- Immediate Solution to an Urgent Need
- Lower Access Cost and Infrastructure
- Lower O&M Cost
- Easier to Deploy

LONG-TERM

- Provides an Effective Fallback Option to Subsea Fibre Interruptions
- Provides Large Broadband Capacity For Ad-Hoc / Short Term Seasonal use



TECHNOLOGY

SUBMARINE CABLE PROJECTS

2 Submarine Projects currently competing for the Iqaluit market.

NATIONAL / REGIONAL

- Opportunity to connect remote northern communities
- Simplifies Phased Approach with built-in Branching capabilities
- Enables Arctic Research and Marine Monitoring Capabilities through subsea sensors
- Provides ongoing subsea fibre cable projects redundancy

INTERNATIONAL

- Alternate route to connect North America with Asia and Europe
Strengthening Global Communications Resiliency
- Great Potential for International Investments



CONCLUSION



**IF EVERYONE IS MOVING FORWARD TOGETHER, THEN
SUCCESS TAKES CARE OF ITSELF.**

Henry Ford – *Founder, Ford Motor Company*