

NORTH AMERICAN ARCTIC SEAWAY PORTS And CORRIDORS

Fairbanks

Pacific Northwest Economic Region Whitehorse, Yukon November 15, 2018

🍳 Yellowknife

Fort Nelson

Minare

Prince Ruper

Hay River

Kells Boland PROLOG Canada Inc.

Fort M cMurray

Churchill

Scheffe



Ice Melt = More Ships Longer



- Not for a Northern Europe to North Asia Shortcut
- But for Partial Transits:Resource Exports/Resupply
- As well as Full Transits from East or West Coast
- Plus Research Expeditions/Cruise Ship Sailings
- And the Possibility of "Suspicious" Ships



Arctic LNG Terminals and Tankers?

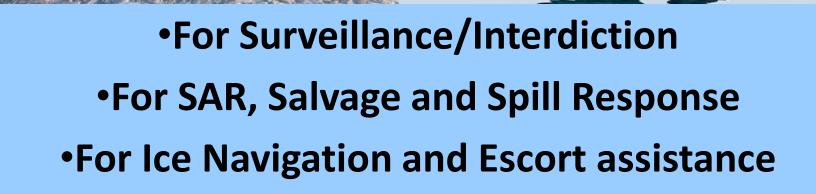
LADIMIR RUSANC

Yamal LNG Sabetta Port

LNGC Vladimir Rusanov



Ice Melt = New Arctic Seaway Reqmts









Ice Melt = Shorter Ice Road Season

Tibbet to Contwoyto Winter Road



From Winter Road Extensions

To All-Weather Road Construction

570



CATERPILLAR





Track structure - ballast, ties, rail

New Technology Applications Changing Transport Modal Choice

- Allinan/o

From Phoe

Baffinland Iron Ore From Truck to Rail

Embankment

Thaw Stable Sand and Gr

DO NOT HUN

Ice Rich Soils



GATX 18

LD LMT 192600 LBS

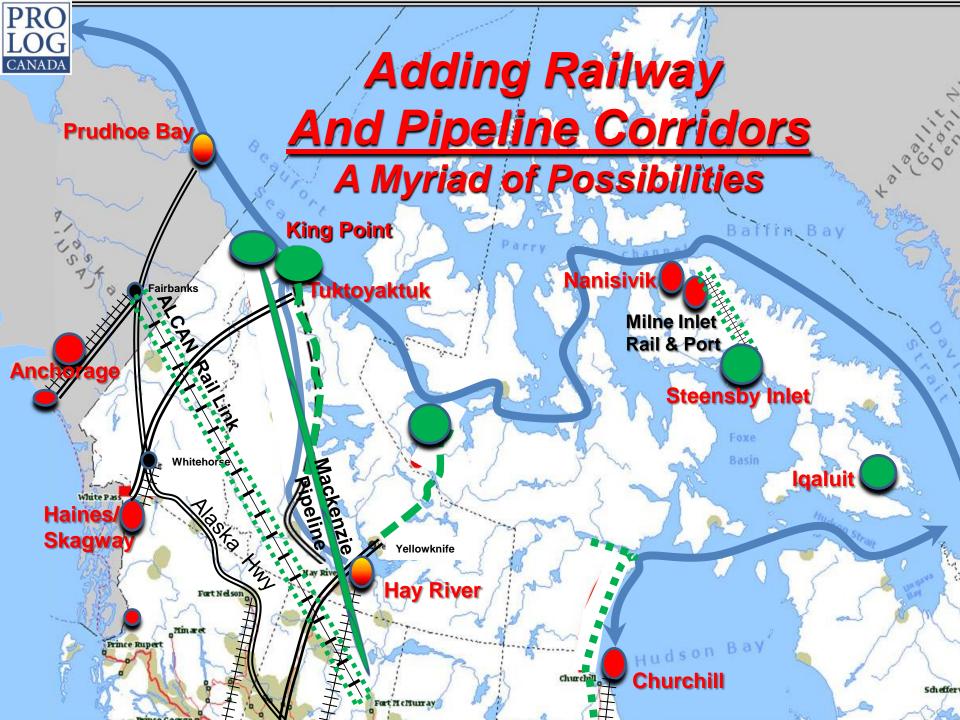
Straight and Control Streets



Stranded Alberta Oil Sands/CANOL Shale Oil

Bitumen by Rail to Northern Ports?

OR Pipelines to the Arctic?





Northern Transportation And Infrastructure Planning Lapses

Arctic Ports and Northern Corridors Suffer Dis-integrated Plans, Single Project Focus, Spotty Investment and No Coordination.

Northern Infrastructure Investment Is Unfolding Hapazardly, Typically Tied to a Politically Popular Project of the Moment;

Projects Are Often Multi-Jurisdictional, but lacking a coordinating entity – or comprehensive funding facility



Northern Transportation And Infrastructure

Suggestions for an Actionable Northern Infrastructure Development Strategy - that does not yet exist

1) Umbrella Planning, Financing & Collaboration In a <u>Pan Arctic Infrastructure Coordinating Agency</u>

2) Incubating <u>Seaway, Port & Corridor Authorities</u> Among Public and Private Partners

3) Collectively Advancing Northern infrastructure with <u>Multi-User, Cross-Jurisdictional Cost Sharing</u>