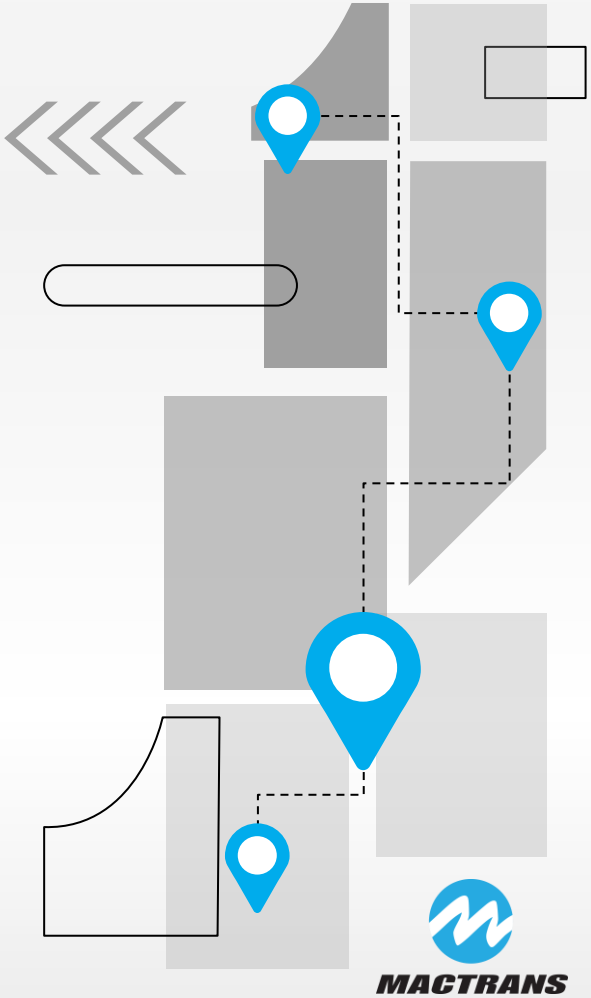
Logistics Challenges of Canadian Geography & Climate

Mactrans Logistics Presentation for the CITT Webinar

November 8, 2023



Presenters

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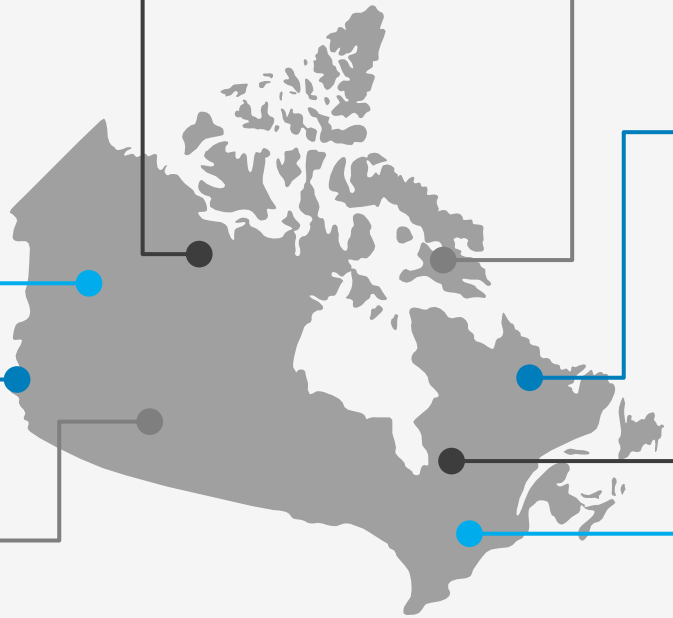
Canada

Remote communities

Harsh Climate Conditions

Extensive Land Mass

Diverse Geography



Vast Coastline

Seasonal Access Limitations

Environmental considerations

Aging Infrastructure

Mactrans Top Challenging Lanes

1. Northern Quebec
2. Nunavut
3. Oil Fields in Northern Alberta
4. Ice Roads to the Arctic
5. Moose Factory ON
6. Premier, BC
7. Happy Valley / Goose Bay NFLD

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Northern Quebec

- Limited Infrastructure
- Seasonal Challenges
- Inadequate road conditions
- Limited shipping options
- Short shipping season
- Language and communications
- Regulatory compliance
- Cost considerations

Nunavut

- There are no roads to Nunavut
- Air travel is most common
- Gateway to remote communities such as Rankin Inlet, Cambridge Bay or Arctic Bay is through Iqaluit
- Most logical gateway to Iqaluit is through Edmonton or Ottawa
- Canadian North Cargo has multiple flights daily
- Finding a local cartage company in Iqaluit is possible, but for other remote communities' delivery to airport only is the option

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Oil Fields in Northern Alberta

FIELDS

Grande Prairie, Fort McMurray, Christina Lake, Foster Creek, Sunrise

SIZE

Many camps are the largest oil sands producers

ROADS

Roads in and out are limited, Boreal forest in abundance, sandy soil ground, unpaved highways

Most common roads are Highway 881 and 63m often busy and weather may change quickly

GPS

GPS coordinates are used for location of camps

EQUIPMENT

Specialized fleet equipment required

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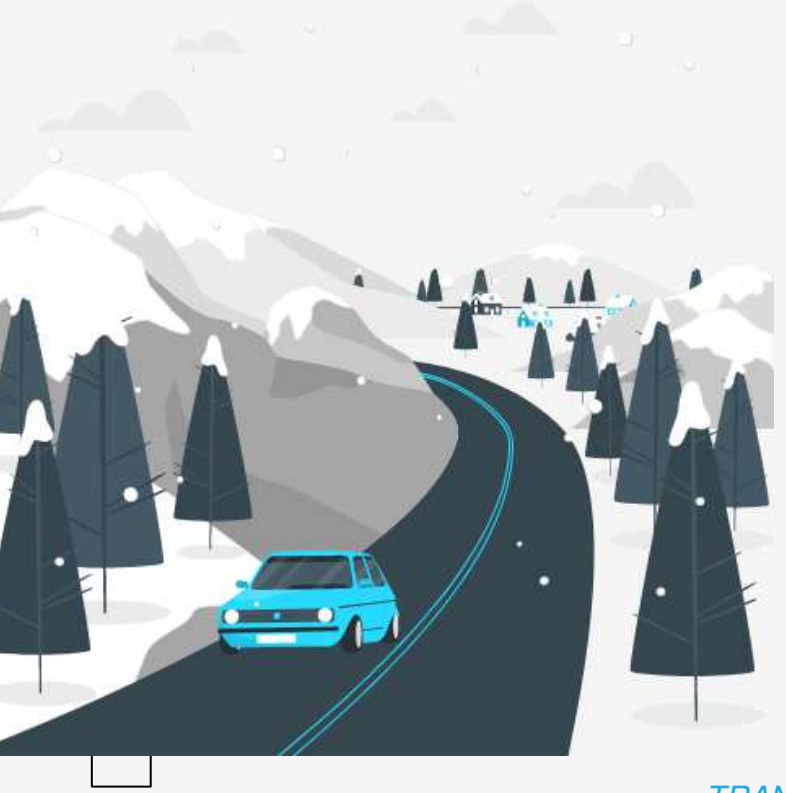
Arctic Ice Roads



- Some of the first ice roads were built in the 1930's
- Aklavik Ice Road- into Inuvik Region of NT, runs over Mackenzie river and Arctic Ocean
- Speed limit is 70 km/h, open late Dec to early April
- Goods transported are building materials, mining material, machinery. Anything that would not be practical to ship by air
- Residents of communities such as Inuvik and Tuktoyatuk require multiple modes of transport for their basic necessities

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Moose factory ON

- Island east of Moosonee ON
- One of the oldest Hudson Bay post established in 1673
- Modern services and industries now include retail, transportation and telecommunications
- Transportation to Moose Factory involves an interesting blend of intermodal combination depending on the season and the climate

Northern British Columbia

Industries

Main industries consist of oil & gas, forestry and mining

Communities

The region can by entirely services by local carriers with established networks in every community

Transportation

Highway 16, low visibility in winter, heavy transport use. Can find many carriers to transport especially if their end destination is Yukon or Alaska

Happy Valley / Goose Bay NFLD

- Town in central part of Labrador, population over 8000 residents
- Transport is available from Labrador City via Trans Labrador Highway. Ferry service is available from Cartwright NFLD as well
- Many supplies for the community come between June and November with containers originating from Montreal and Newfoundland
- Costly air transport is always available

Thank you for the opportunity to present

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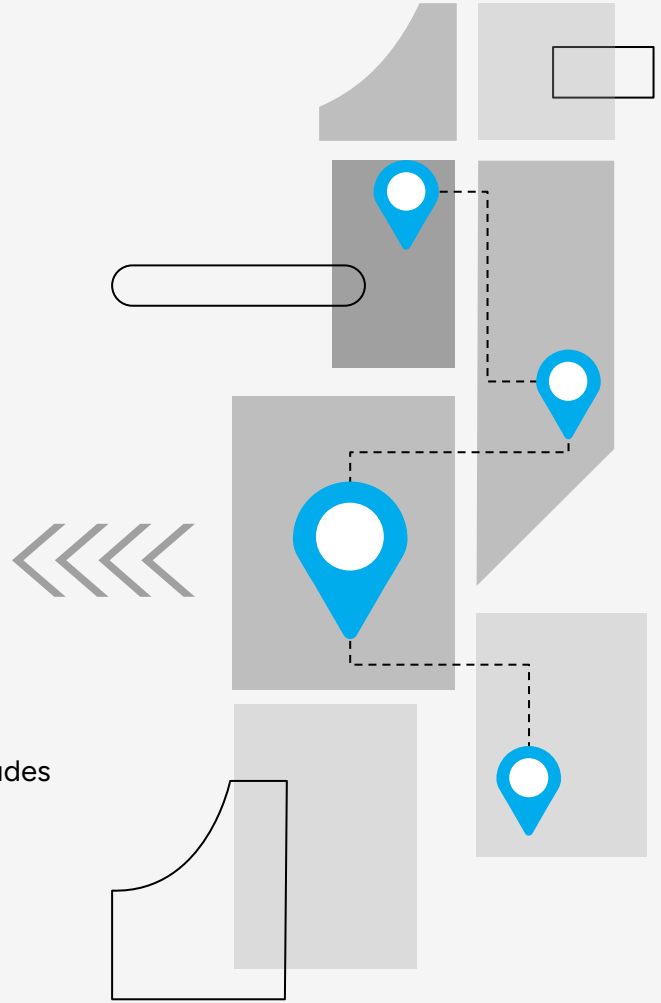
TRANSPORTATION REINVENTED

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