

Department of  
Economic Development  
& Transportation



# *Resource Development & Northern Transportation Conference*

Whitehorse, Yukon  
May 28 - 30, 2007

UBLUKKUT – GOOD AFTERNOON

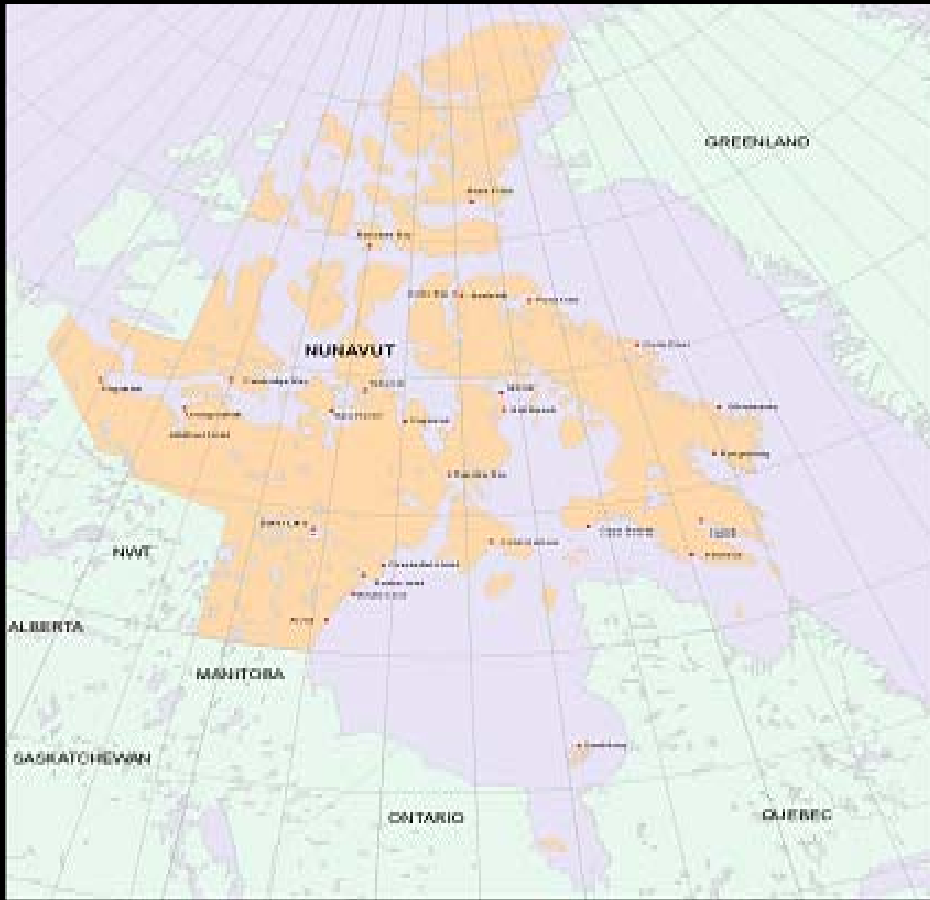


# *Presentation Outline*

- Nunavut's - Challenges;
- Economic Development Opportunities;
- Land Transportation;
- Air Transportation;
- Marine Transportation;
- Needs;



# Nunavut – Our Land



- 26 communities;
- Population (2006) – Approx. 30,000;
- Geographic Area : 2,093,000 Sq Km
  - ◆ 20% of Canada;
- Ocean Coastline: 104,000 Km
  - ◆ 43% of Canada;



# *Nunavut – Challenges*

- Nunavut's vastness;
- Highest Cost of Living in Canada;
- Lack of proper infrastructure to develop our economy and reduce the cost of living;
- Lack of investment in Transportation Systems:  
Land, Air & Water Modes;
- Resulting high cost to develop our Natural Resources;



# *Nunavut's Future Economic Opportunities:*

- Commercial Fishing
- Tourism
- Regional Resource Development
  - ◆ Mining – Oil & Gas
  - ◆ Hydro Development

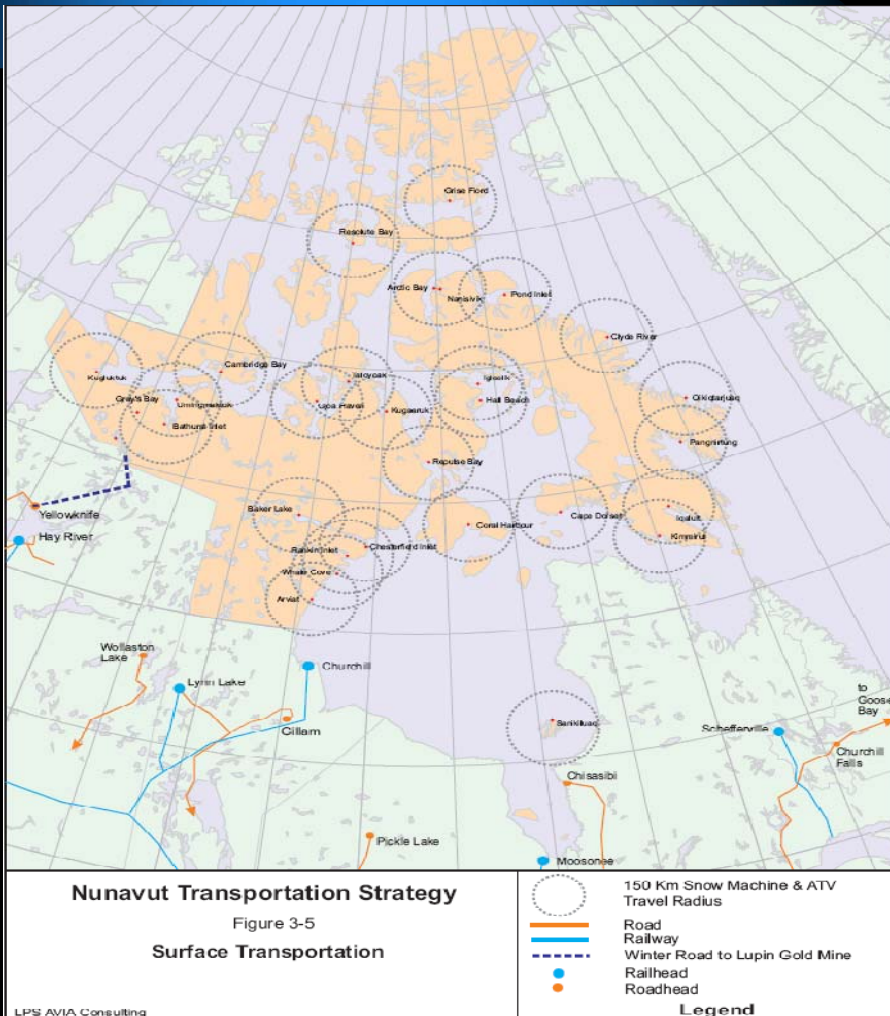
# *Land Transportation*

- No corridors between Nunavut communities or outside Nunavut;
- Large distances between communities ;
- Ground transportation outside the communities is by ATV ;
- Roads to resource developments will help to connect some communities in the future;



# Land Transportation

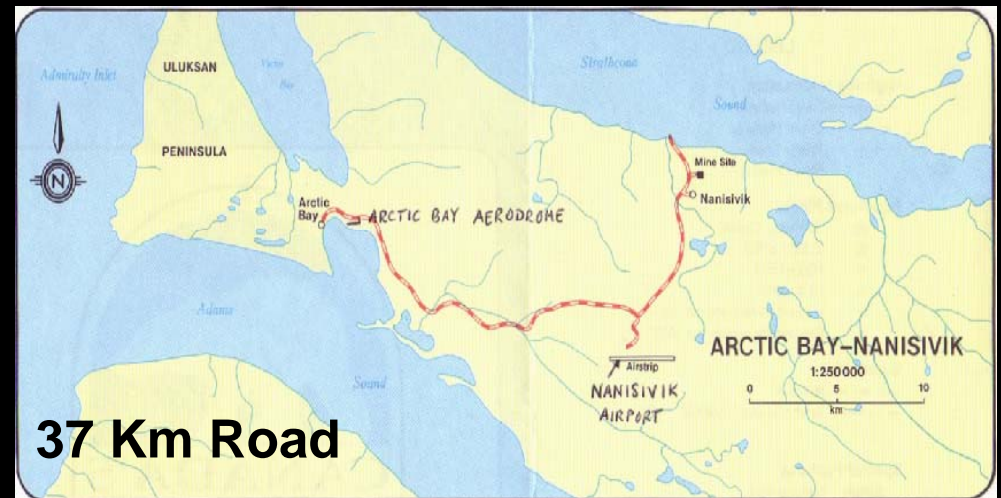
## Nunavut's Community Access Roads - \$500K Per Year





# Land Transportation

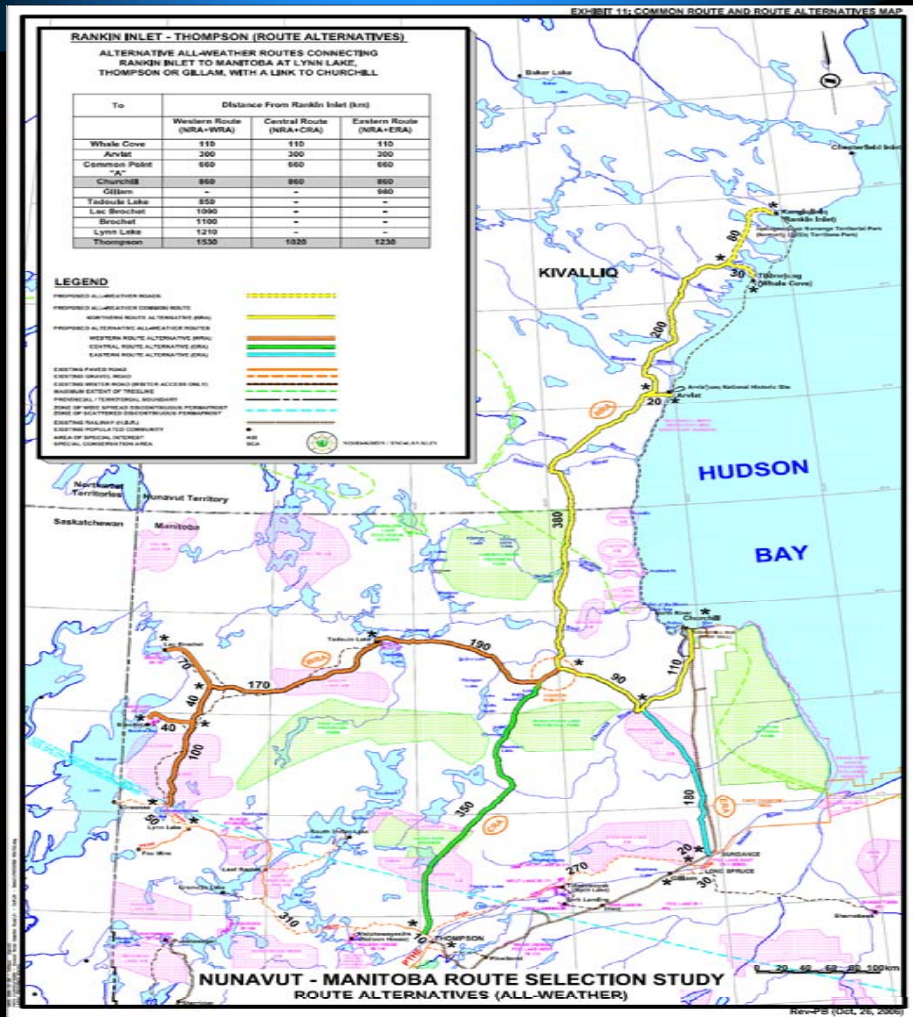
## Nunavut's only Highway: Arctic Bay - Nanisivik





# Land Transportation

## Nunavut's proposed National Highway connection to Canada

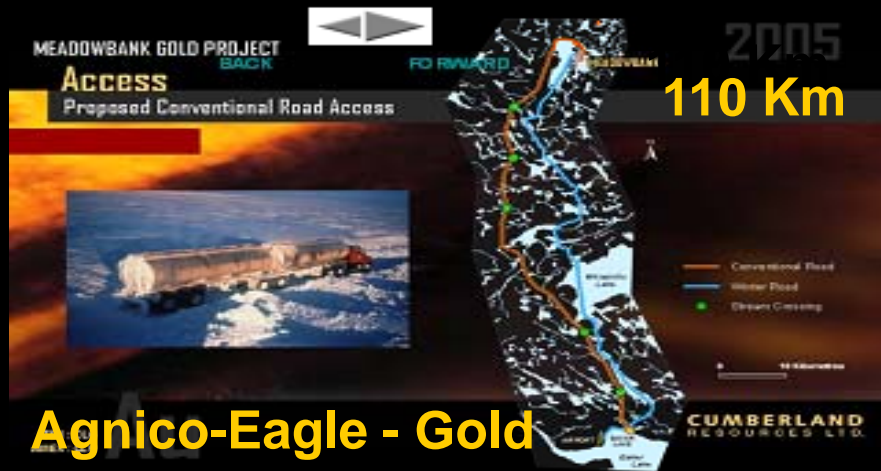
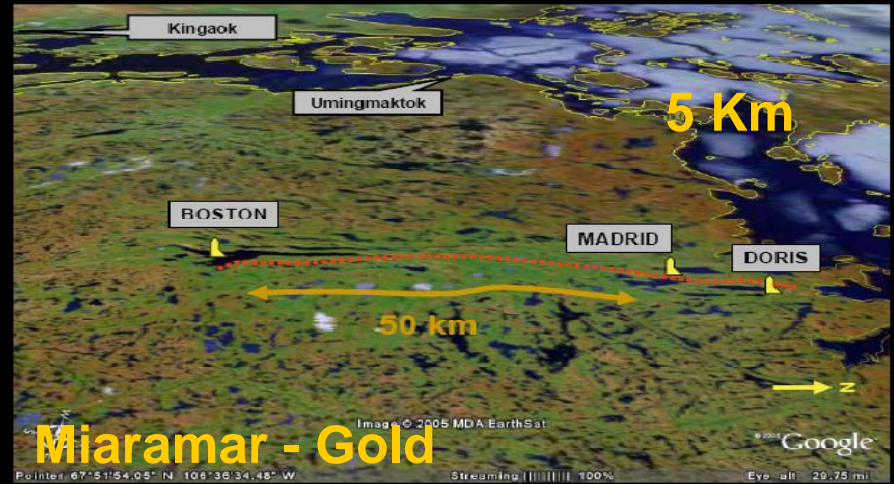
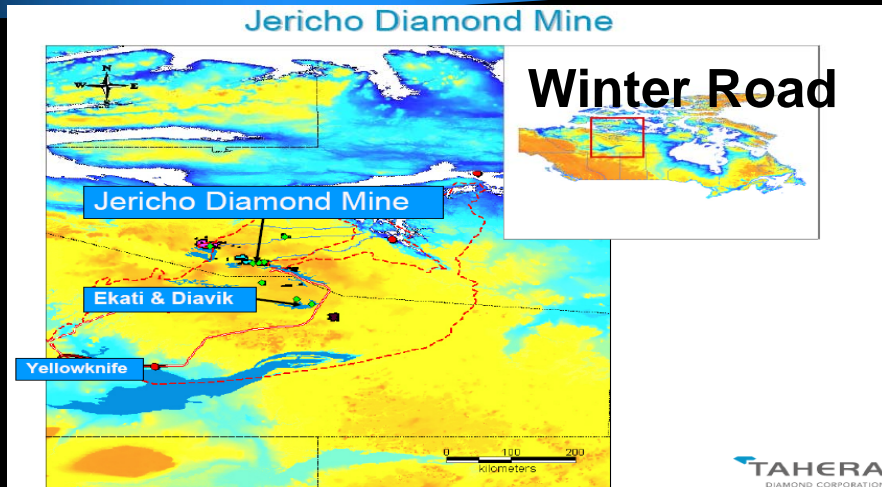


- Kivalliq – Manitoba;
- Eastern Route Preferred;
- 1,230 kilometer long;
- \$1.1 Million per kilometer;
- 63 Bridges;
- 5 years to complete all the required studies;
- Cost: \$1.2 Billion



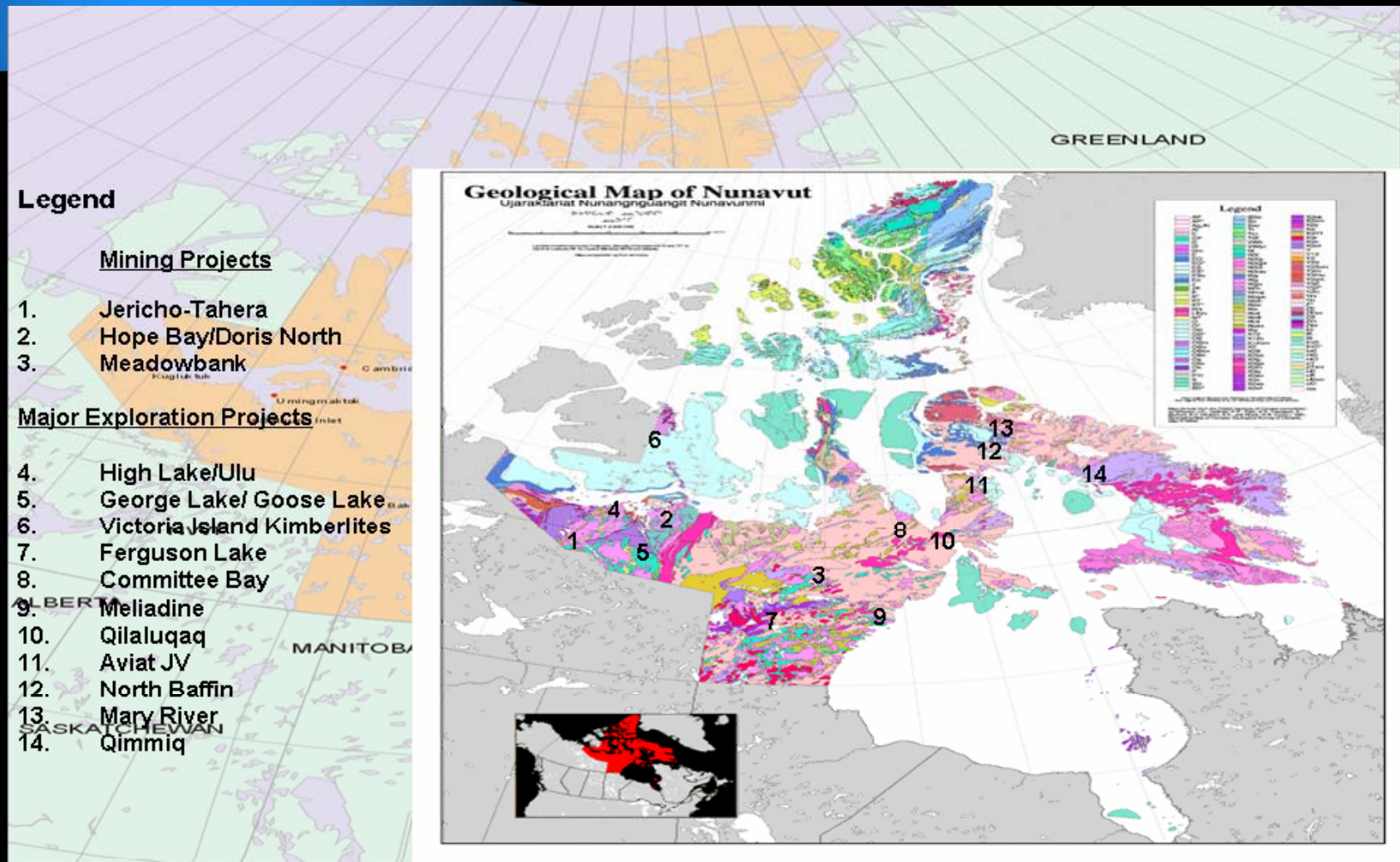
# Land Transportation

## Nunavut's Roads to its Natural Resources





# Mineral Exploration Map:



# *Air Transportation*

## *Nunavut's Airports and Runways*

- Highest cost of air travel in Canada;
- Air cargo services are very expensive due to one way flow;
- Federal regulatory requirements such as approach ban and MTOW seriously impact our transportation network;
- Improvements in Nunavut's airport, air navigation and airline serves will improve quality of life for Nunavummiut and reduce the cost of living;







# Air Transportation

## Nunavut's Airport Terminals & Runways

- Most were built in the 1960 and 1970s.



# *Air Transportation*

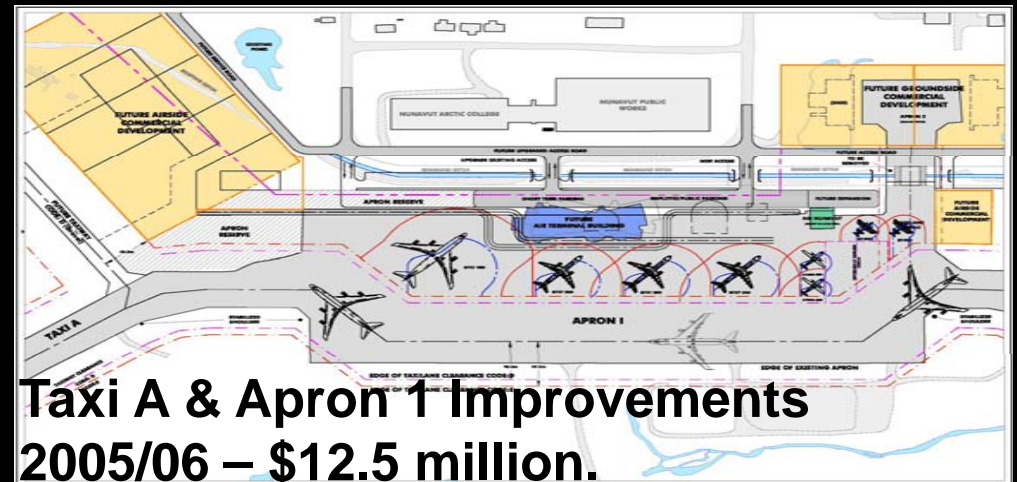
## *Air Terminal Building Upgrades*





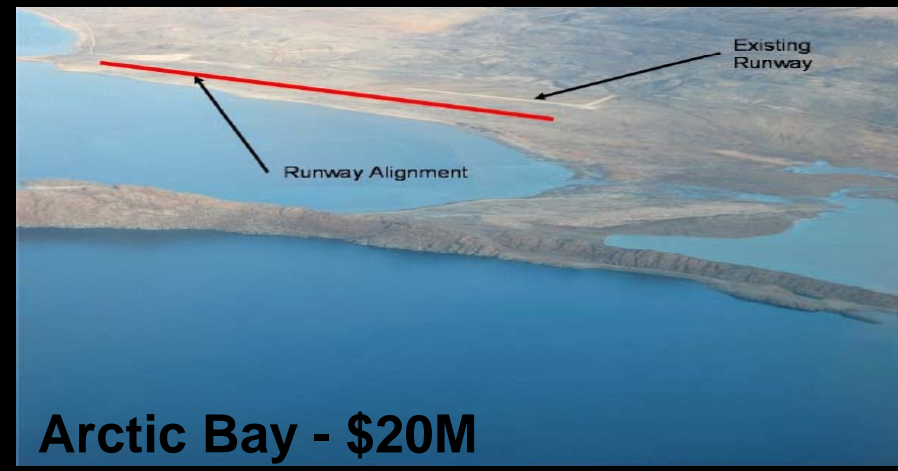
# Air Transportation

## Iqaluit Airport Master Plan



# Air Transportation

## Planned Runway Relocation and Upgrades





# *Marine Transportation*

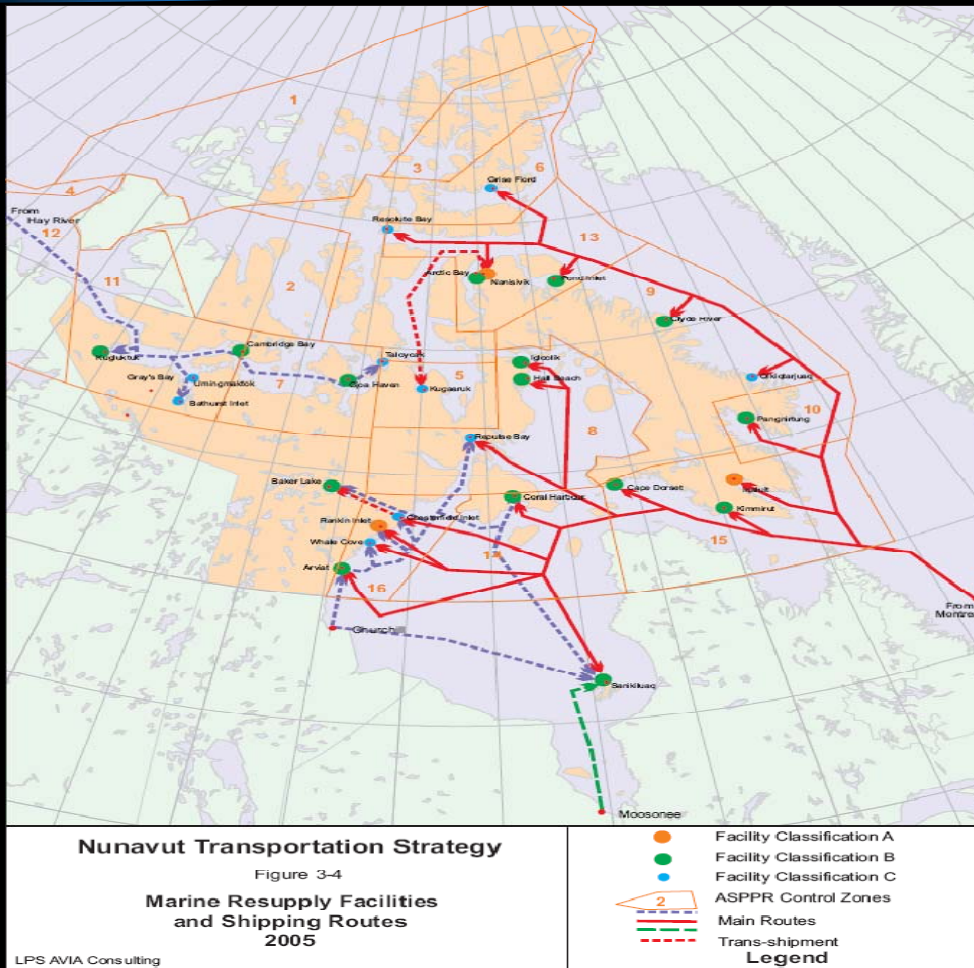
- Marine Facilities very basic
  - Barge Pushouts;
  - Small Craft Tidal Dock;
  - Open Breakwaters;
  - Some communities have no facilities;
- Hydrographic charting requirements;



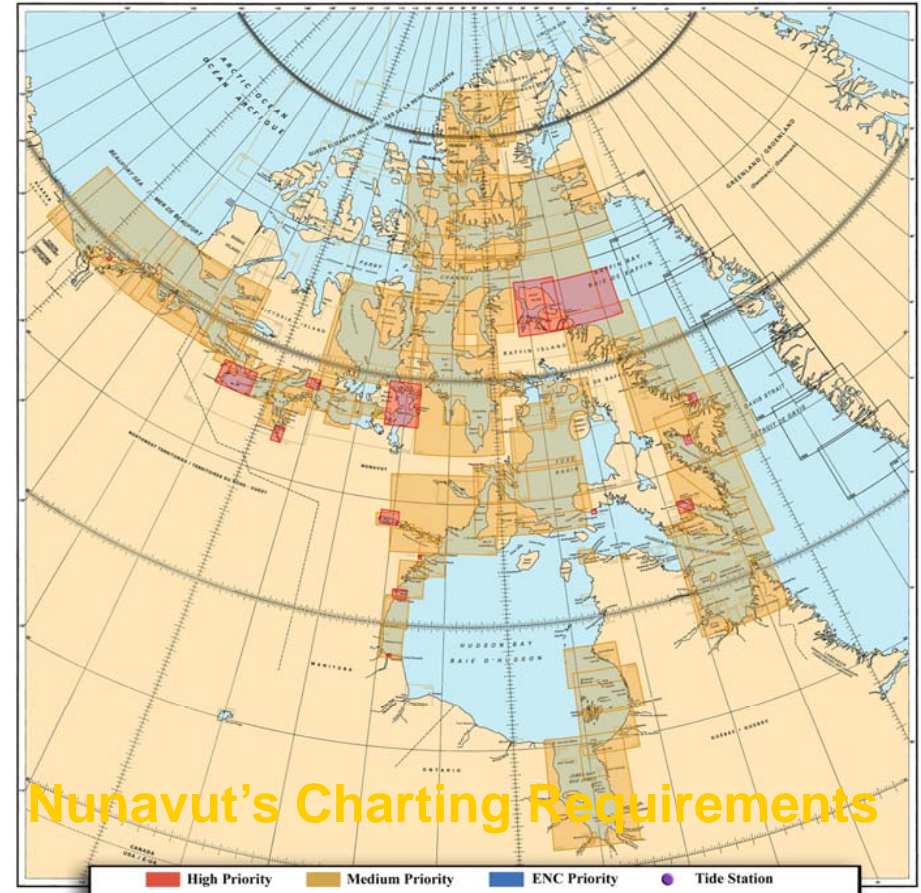


# Marine Transportation

## Nunavut's Ocean Highways



LPS AVIA Consulting



Department of Economic Development & Transportation



# Marine Transportation

## Nunavut's Community Marine Facilities

Table 3-5 Nunavut Marine Facilities 2005

| Community          | Open                    | Landing Beach             | Public Dock   |
|--------------------|-------------------------|---------------------------|---|
| Arctic Bay         | Mid-Aug - Mid-Sept      | gravel                    | No  |
| Arviat             | Mid July - Mid Oct.     | gravel/rock               | 35m x 7.5m x 4.1m   |
| Baker Lake         | Mid July - Mid Oct.     | Gravel                    | gravel push out   |
| Bathurst Inlet     | Early Aug to Early Oct  | sand / gravel             | No  |
| Cambridge Bay      | End July- End Sept.     | coarse gravel             | 42.8m x 9.2m x 7.6m                                       |
| Cape Dorset        | End July - Mid/End Oct. | sand / gravel             | 35m x 3m x 3.5m   |
| Chesterfield Inlet | Mid July - Mid Oct.     | sand / gravel             | 25m x 4.1m x 3.1m   |
| Clyde River        | End July-End Sep        | sand / gravel             | No  |
| Coral Harbour      | Mid July - End Oct.     | gravel                    | push out at Snafu beach<br>dock 15m x 9m x 3.6m           |
| Gjoa Haven         | End July- Early Oct.    | soft sand                 | 12m x 3.5m x 1.6m   |
| Grise Fiord        | Mid Aug-Mid Sep         | sand / gravel             | No  |
| Hall Beach         | End Aug-Mid Sep         | sand / gravel             | No  |
| Igloolik           | Mid Aug- Mid Oct        | sand / shingle            | No  |
| Iqaluit            | Mid July - Mid Oct      | rock, shale, mud, sand    | 45m x 12m x 5.5m  |
| Kimmirut           | Mid July - Mid Nov      | clay / gravel             | No  |
| Kugaaruk           | August                  | clay / gravel             | No  |
| Kugluktuk          | End June- Mid Oct.      | dock                      | 70m x 50m x 12m   |
| Nanisivik          | Mid July - Mid Oct.     | dock                      | 42m x 9m x 5.5m   |
| Pangnirtung        | End July - Mid Sep      | gravel                    | Yes   |
| Pond Inlet         | Mid Aug - Mid Sep       | sand / gravel             | No  |
| Qikiqtarjuaq       | Mid July - Mid Oct.     | sand                      | No  |
| Rankin Inlet       | Mid July - Mid Oct.     | Gravel                    | push out Melvin Bay<br>Johnson Cove dock<br>39mx6.2mx4.5m |
| Repulse Bay        | End Aug - End Sep       | gravel                    | No  |
| Resolute Bay       | Mid Aug - Mid Sep       | sand / gravel             | push out  |
| Sanikiluaq         | Early July - Early Oct. | gravel push out           | No  |
| Taloyoak           | End July- End Sept.     | sand/gravel               | 15m x 3.5m x 2m   |
| Umingmaktok        | No Data                 | sand / gravel             | No  |
| Whale Cove         | Mid July - Mid Oct.     | Push out, boulders/gravel | 18m x 8m x 5.5m   |



Arviat Dock



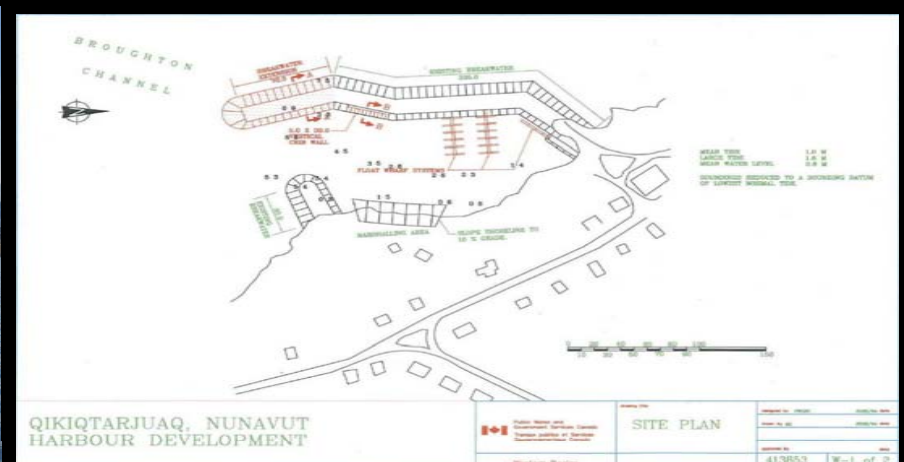
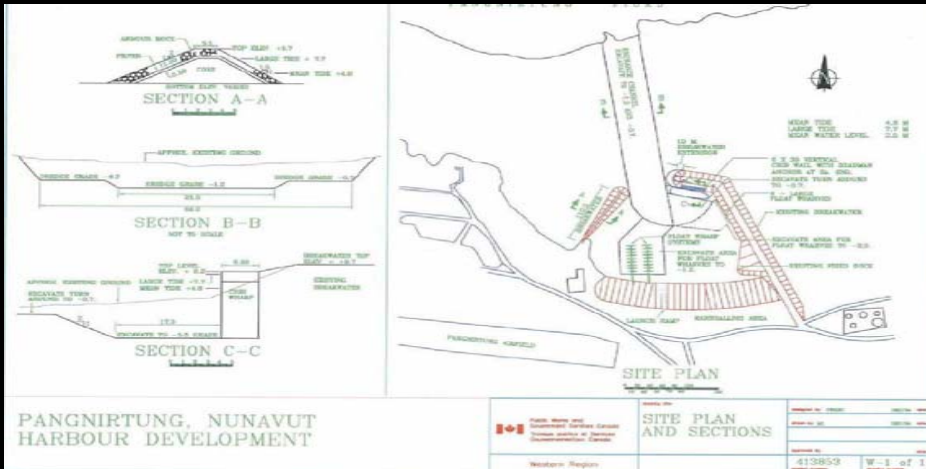
Coral Harbour - Snafu Beach





# Marine Transportation

Small Craft Harbour Initiative: \$41M - 7 Harbours



# Marine Transportation

## Cruise Ship Tourism



**MV Lyubov Orlova –  
Hudson Bay & Straits**



**MV Akademik Ioffe – Cambridge Bay**



**MV Bremen – Gjoa Haven**

006 21 2006



**MV Bremen – Cambridge Bay**



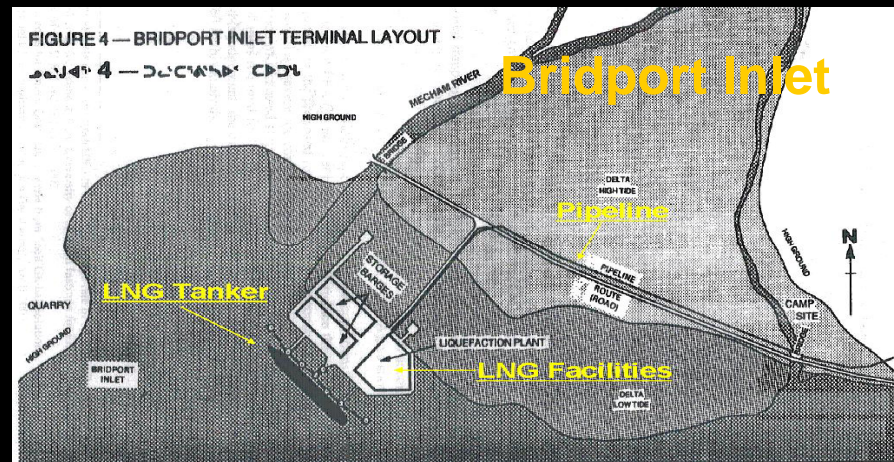
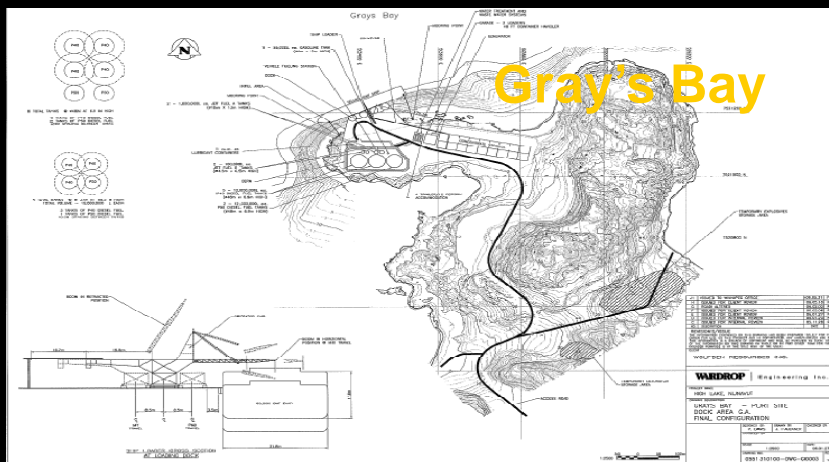
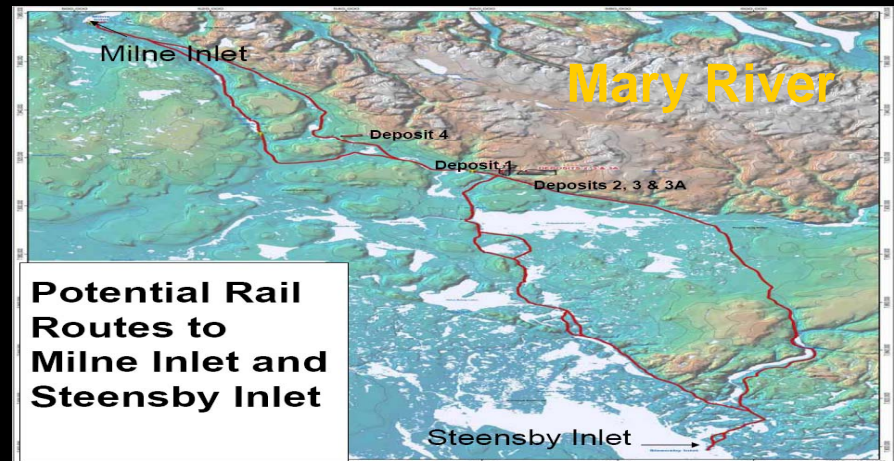


# Potential Resource Development Harbours in Nunavut

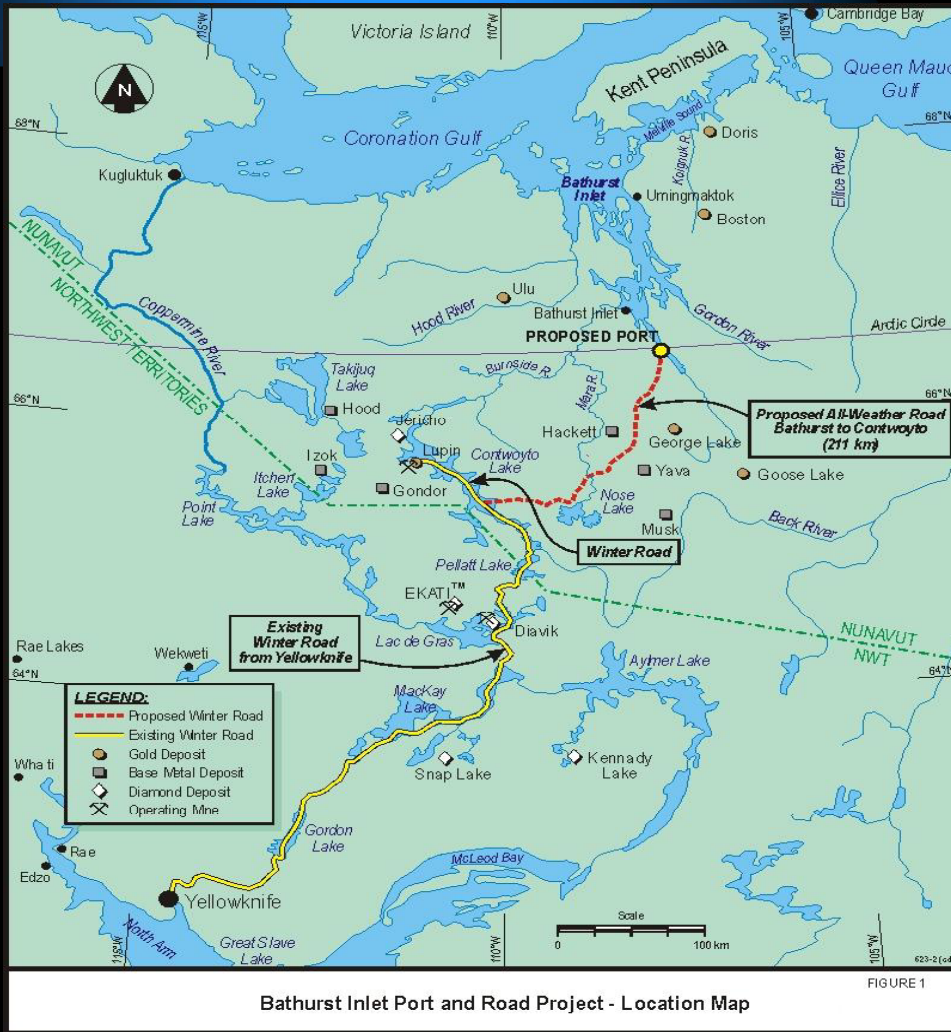




# Conceptual Deepwater Ports



# Bathurst Port & Road



## All- Weather Road

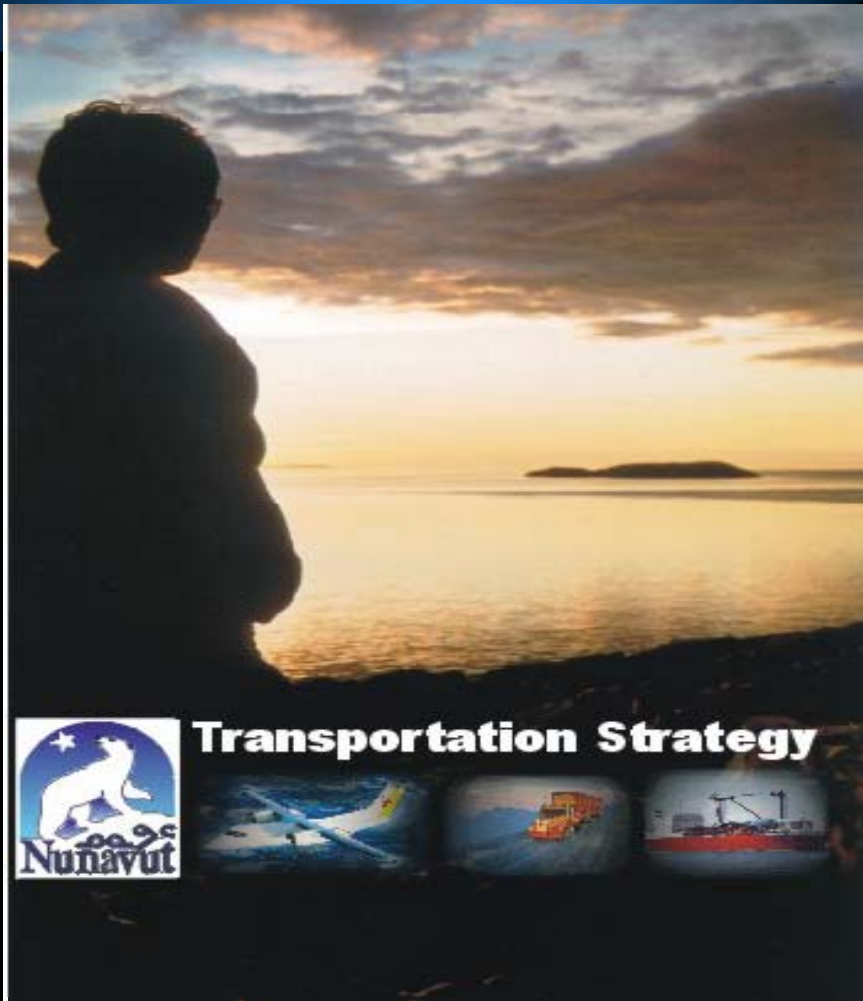
- ◆ Bathurst Inlet to Contwoyto Lake - 210 km
- ◆ Lupin Mine site to Izok Lake - 70 km
- ◆ Road connections by mine operator to:
  - Ekati - 100 km
  - Diavik - 110 km
  - Jericho - 25 km
  - Gondor - 10 km
  - Hackett River - 24 km
  - George Lake - 19 km
  - Goose Lake - 55 km
  - Yava - 19 km





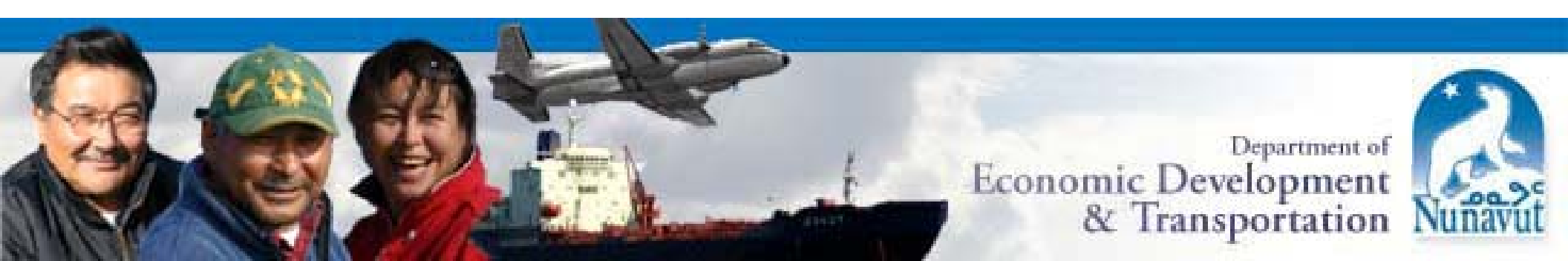


# *Transportation Strategy Updated 2007*



- 20 year capital needs assessment plan;
- Operation and development of Nunavut's infrastructure will serve to support Canadian sovereignty;





# *NAKUQMIK - THANK YOU*

# Questions

