Northern Transportation Conference 2011
Circumpolar Challenges & Opportunities

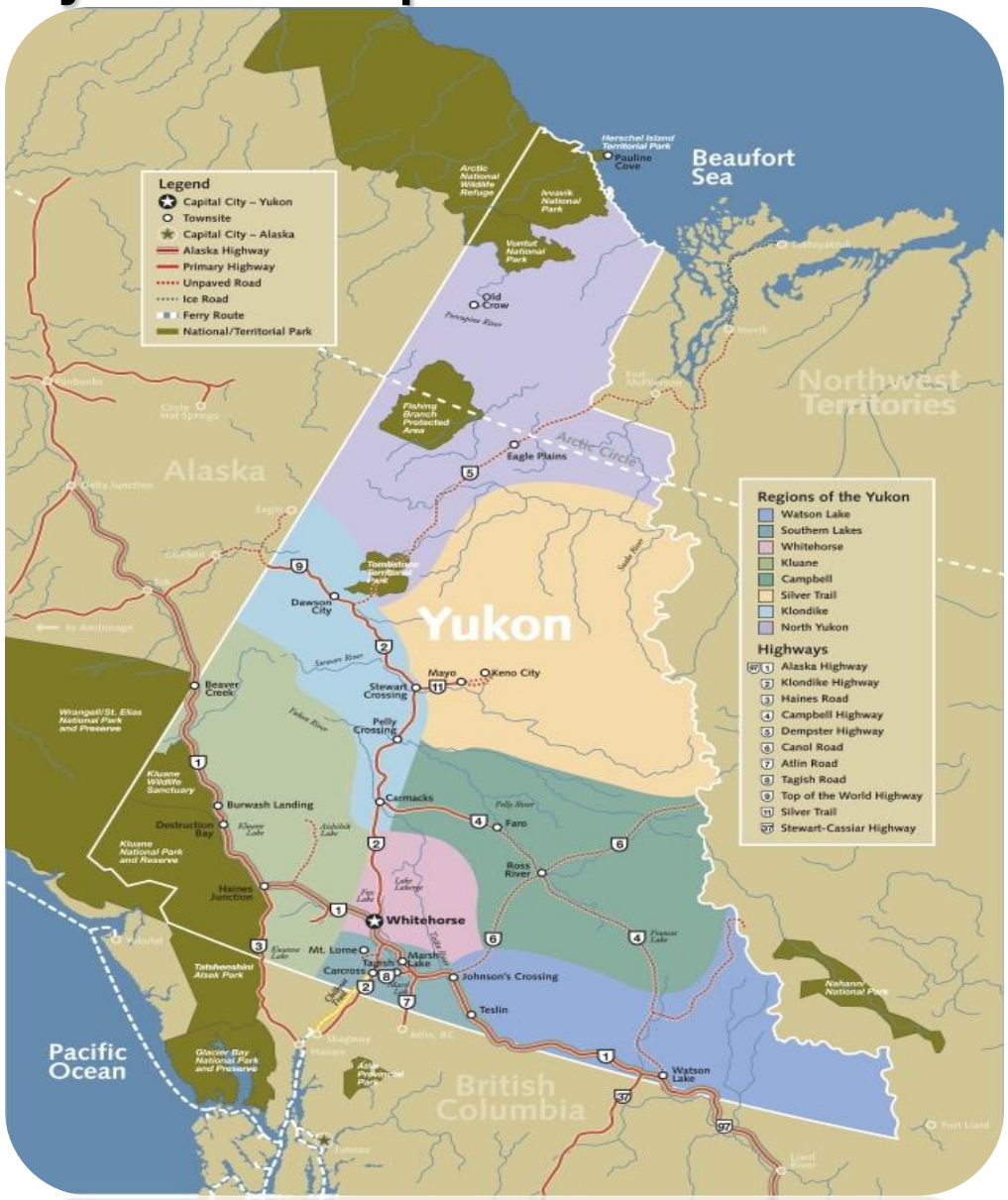
Yukon

Overview of exploration and development

Jesse L. Duke P. Geo.

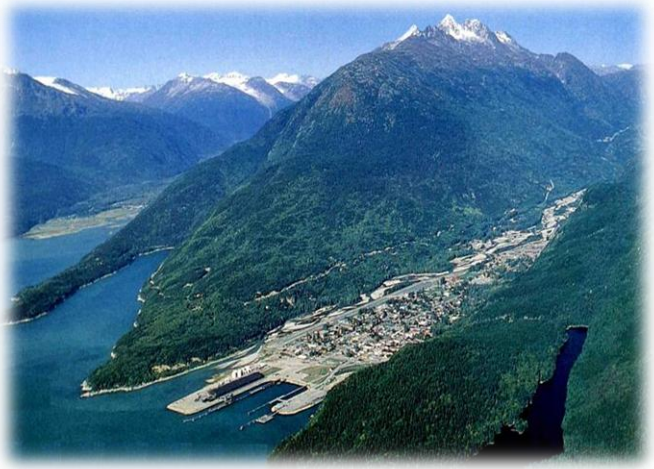
Canada's Yukon Territory

Yukon Major Transportation Infrastructure



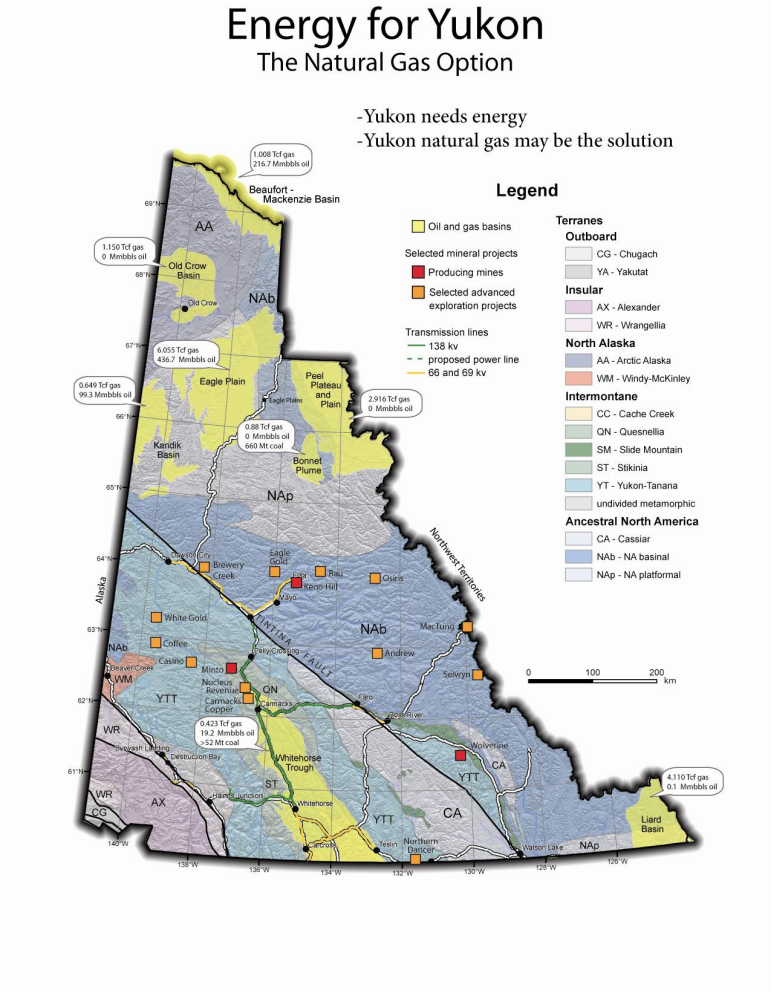
Port facilities serving Yukon

- Access to three deep water, ice-free port
- $67 Million Upgrade of ore handling facility in Skagway by AIDEA (Alaska)

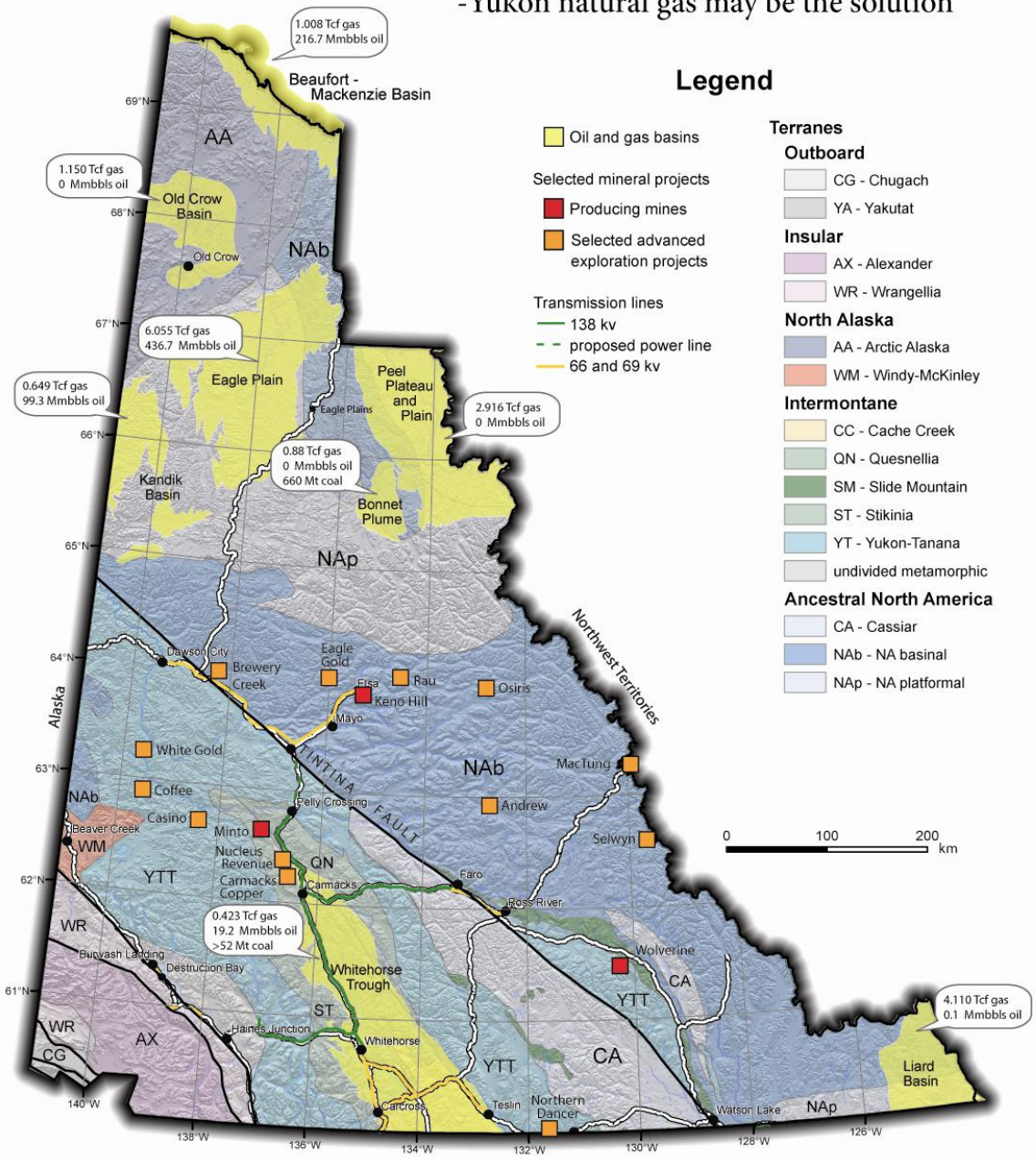


Energy Infrastructure

- Upgrades to hydro facilities (Mayo Dam, Aishihik Lake 4th turbine installed
- Dialog initiated to connect Yukon power grid with either Alaska or BC grid
- Feasibility study to develop Yukon Natural Gas for power



-Yukon needs energy
-Yukon natural gas may be the solution



Legend

Oil and gas basins

Selected mineral projects
- Producing mines
- Selected advanced exploration projects

Transmission lines
- 138 kv
- proposed power line
- 66 and 69 kv

Terranes

Outboard
- CG - Chugach
- YA - Yakutat

Insular
- AX - Alexander
- WR - Wrangellia

North Alaska
- AA - Arctic Alaska
- WM - Windy-McKinley

Intermontane
- CC - Cache Creek
- QN - Quesnellia
- SM - Slide Mountain
- ST - Stikinia
- YT - Yukon-Tanana
- undivided metamorphic

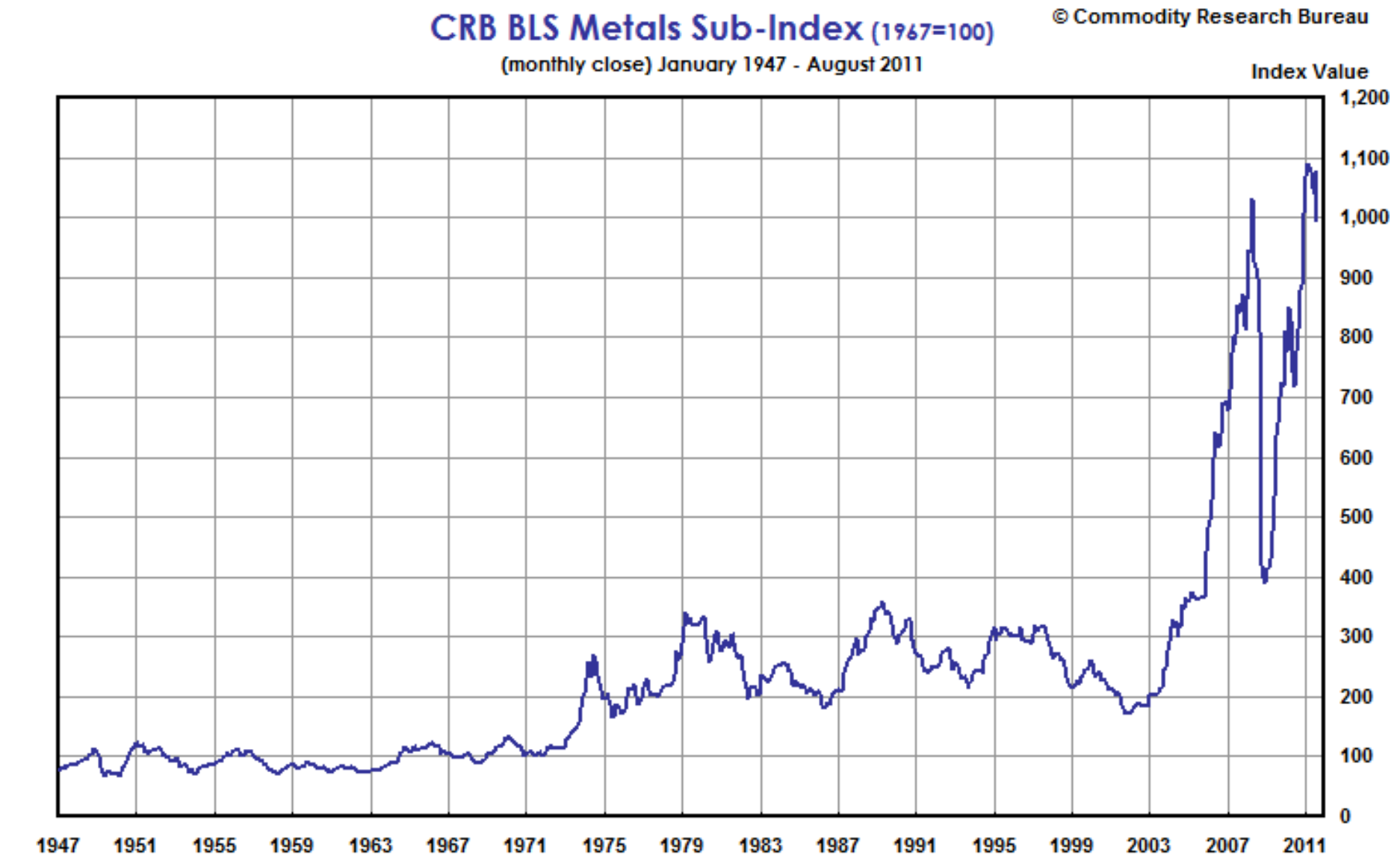
Ancestral North America
- CA - Cassiar
- NAb - NA basinal
- NAp - NA platformal

Modern Day ‘Rush’

Economic Snapshot

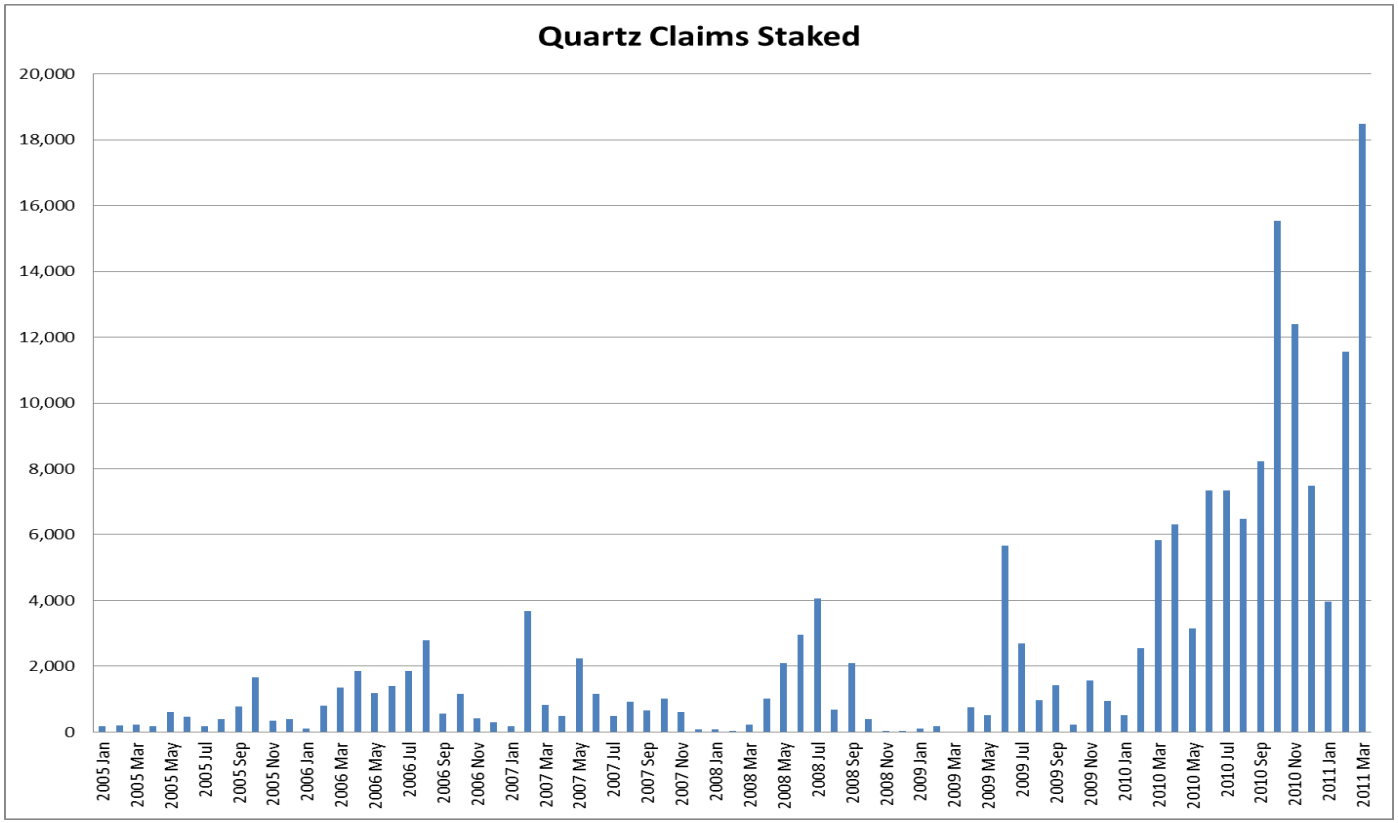
- Record mineral exploration spending
- Emerging mining districts
- Strong government support

copper, lead, zinc, tin steel



The new “Gold Rush”

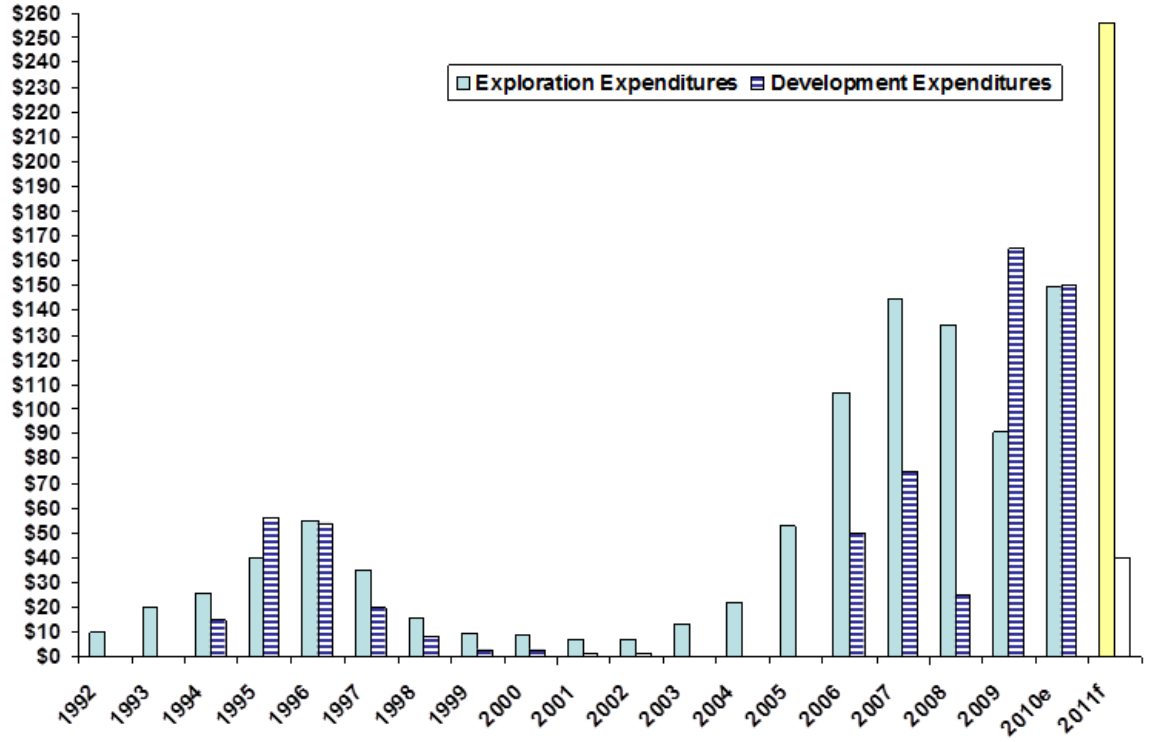
Staking Activity



The new “Gold Rush”

Mineral Exploration and Mine Development

Yukon Mineral Exploration and Mine Development Expenditures ($ millions)



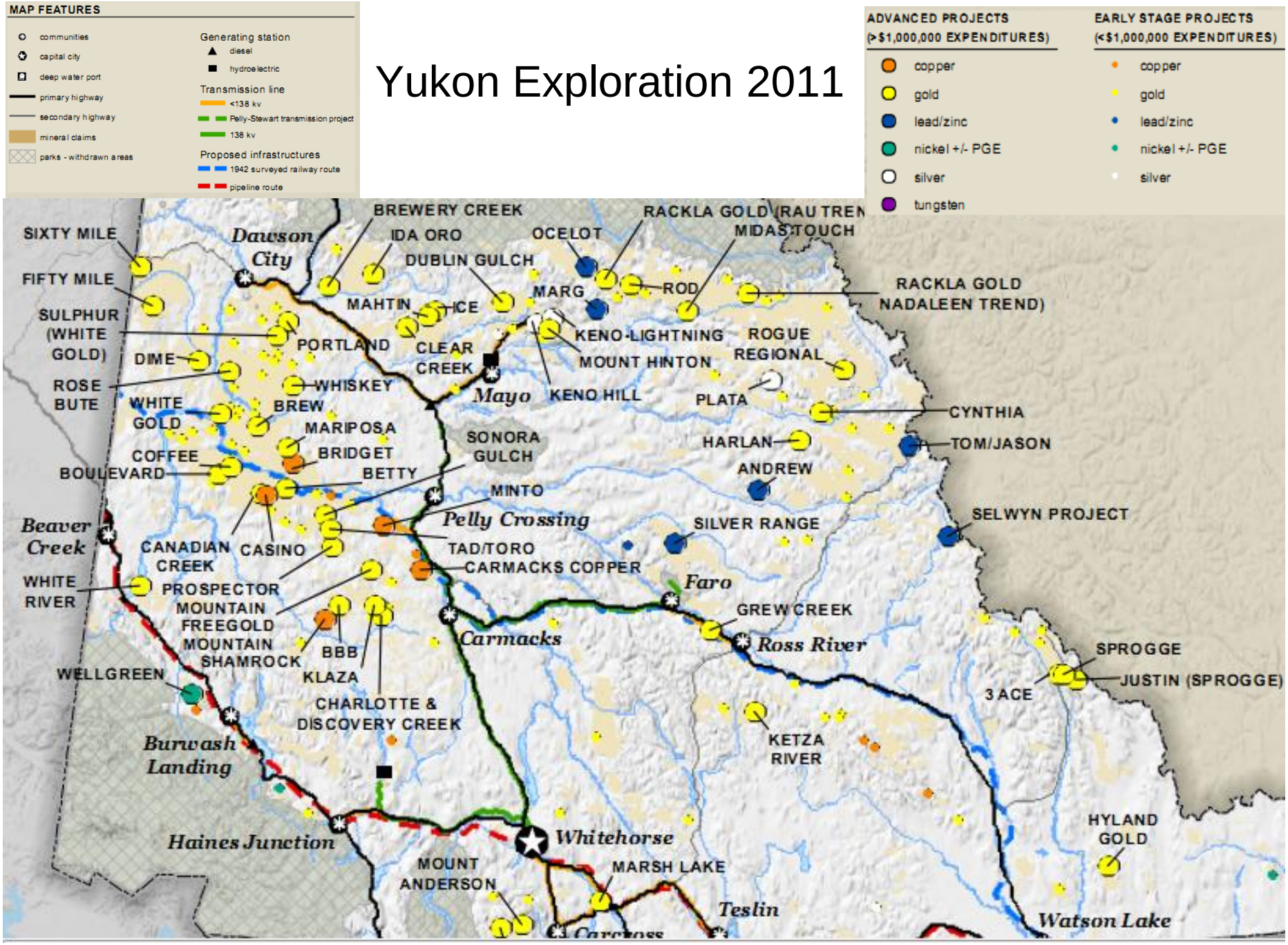
Source: Natural Resources Canada; Department of Energy, Mines & Resources; Department of Economic Development

THE MONEY ISSUE
Jim Cramer No Longer Apologizes for Stuff That Wasn't His Fault P. 24 And Larry Summers Never Did P. 14 What Iceland Learned From Its Meltdown P. 30 David Leonhardt on Faith and Income P. 18 Paul Krugman on How the Financial Crisis Was Wasted P. 11
The New York Times Magazine
May 15, 2011
OR MAYBE HERE?
OR HERE?
The hunt for the world's most primitive form of wealth starts here. By Gary Wolf
GOLD GETTER

Current snapshot

- Unprecedented levels of Exploration
- Three Producing Mines
- Seven or more advanced projects at feasibility/permitting stage
- Unprecented worldwide attention
  - Its our turn now Alaska!

Yukon Exploration 2011



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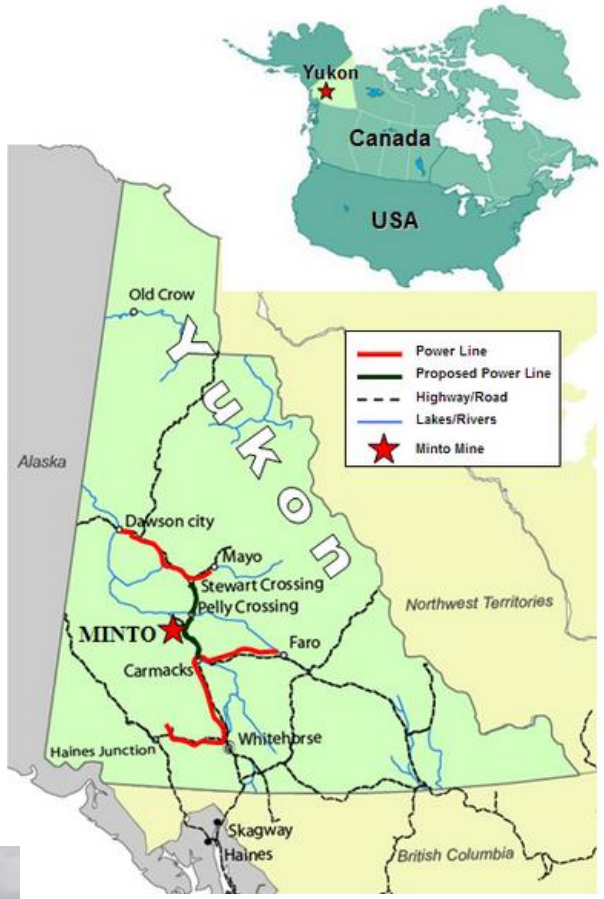
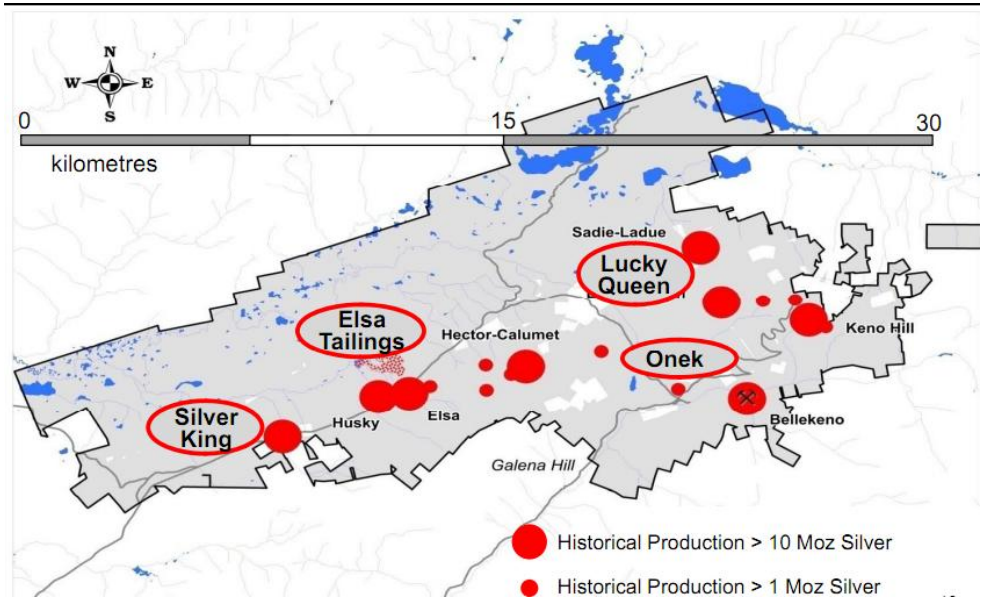
Minto Mine

- First Yukon mine after a long dry spell…
- High-grade copper-gold started in 2007
- 240 km north of Whitehorse
- Concentrates are exported via the Port of Skagway, Alaska, to smelters in Asia for treatment and sale
- Exploration continues to expand operation



Keno Hill Silver District - Alexco Resource Corp.

- Historic silver mining district coming back to life (4th largest in the world in ‘50s)
- Bellekeno mine just into production – 2.2 to 2.5 million ounces expected in the first year



Wolverine Mine: Yukon Zinc Corp.

- Emerging mining camp: part of Finlayson district; other similar deposits, and high potential for additional discoveries
- high grade zinc-silver-copper-lead-gold underground mine
- 1700 tonne per day mill start up in 2010 – production ramping up
- Shipping concentrate to British Columbia at the port of Skagway

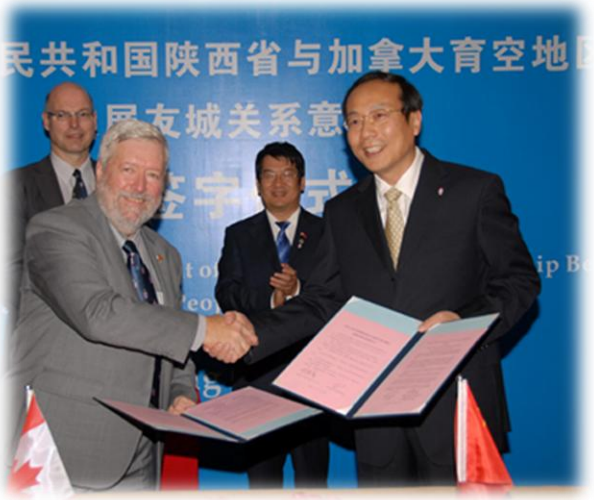
Feasibility/Permitting Stage

- New Eagle (Victoria gold)
- Selwyn – lead-zinc (Selwyn Chihong)
- Carmacks Copper (Copper North Mining Corp.)
- Andrew polymetallic massive sulphide(Overland Resources
- Mt Skukum Gold project (Tagish Lake Gold)
- Casino (Western Copper and Gold)
- Mactung Tungsten (North American Tungsten)

Western Copper Corporation
Casino
Presentation to Northern Transportation Conference
Anchorage, Alaska, Sept 2011
WWW.WESTERNCOPPERCORP.COM
TSX: WRN / AMEX: WRN

Foreign Direct Investment

- Yukon Zinc's Wolverine Project
- Selwyn Resources & Yunnan Chihong Zinc and Germanium Co. Ltd.
- New Pacific Metals Corp.
- China Mining Resources Group Ltd.
- Korea Zinc Co. Ltd.
- Northern Cross and CNOCC
- Yukon Gold Mining Alliance



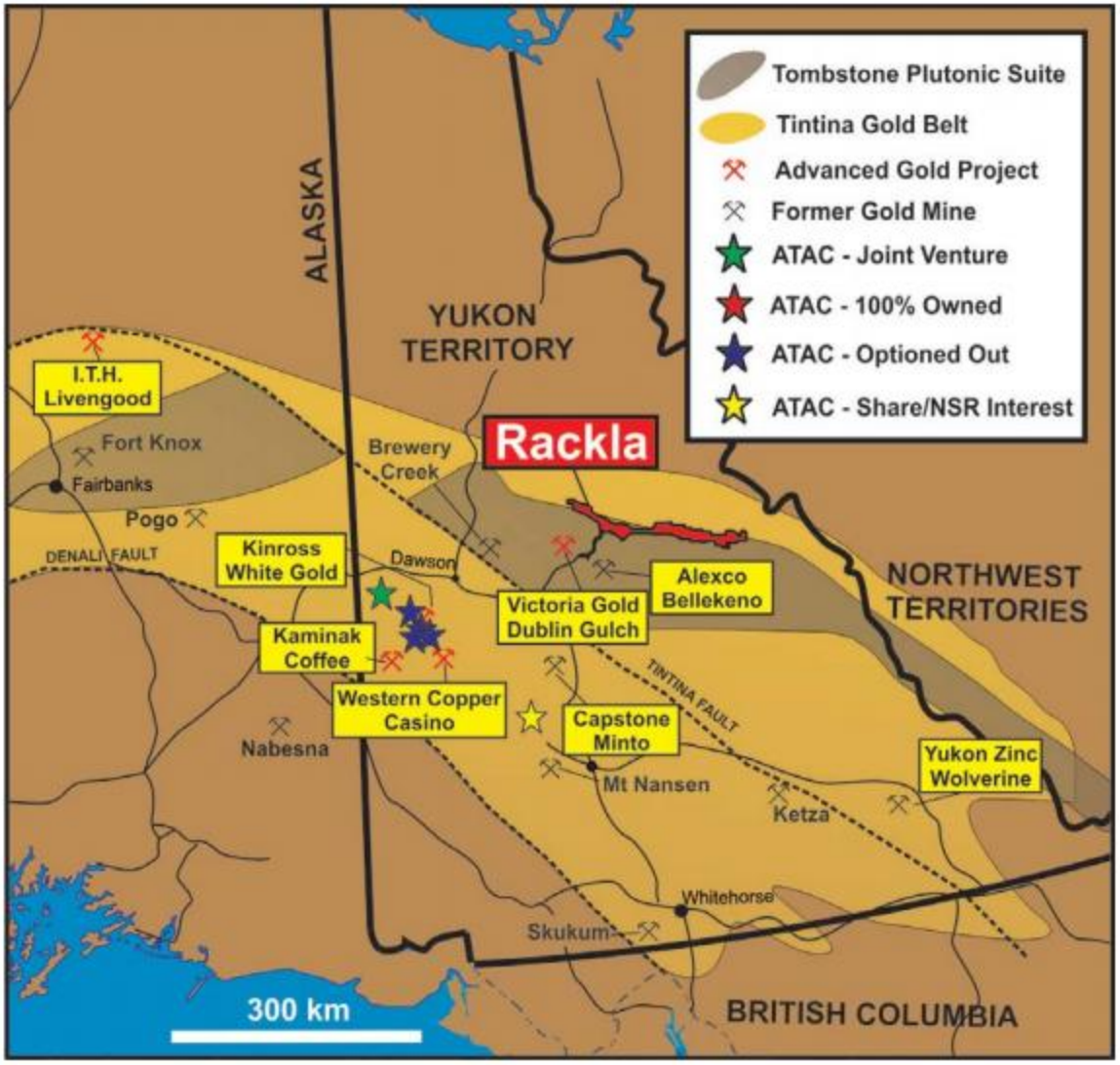
White gold

- Discovery started Yukon Staking Rush
- Acquired by Kinross - credit long experience with Fort Knox near Fairbanks applicable to Yukon

Rackla Gold Project - ATAC

RACKLA GOLD PROJECT

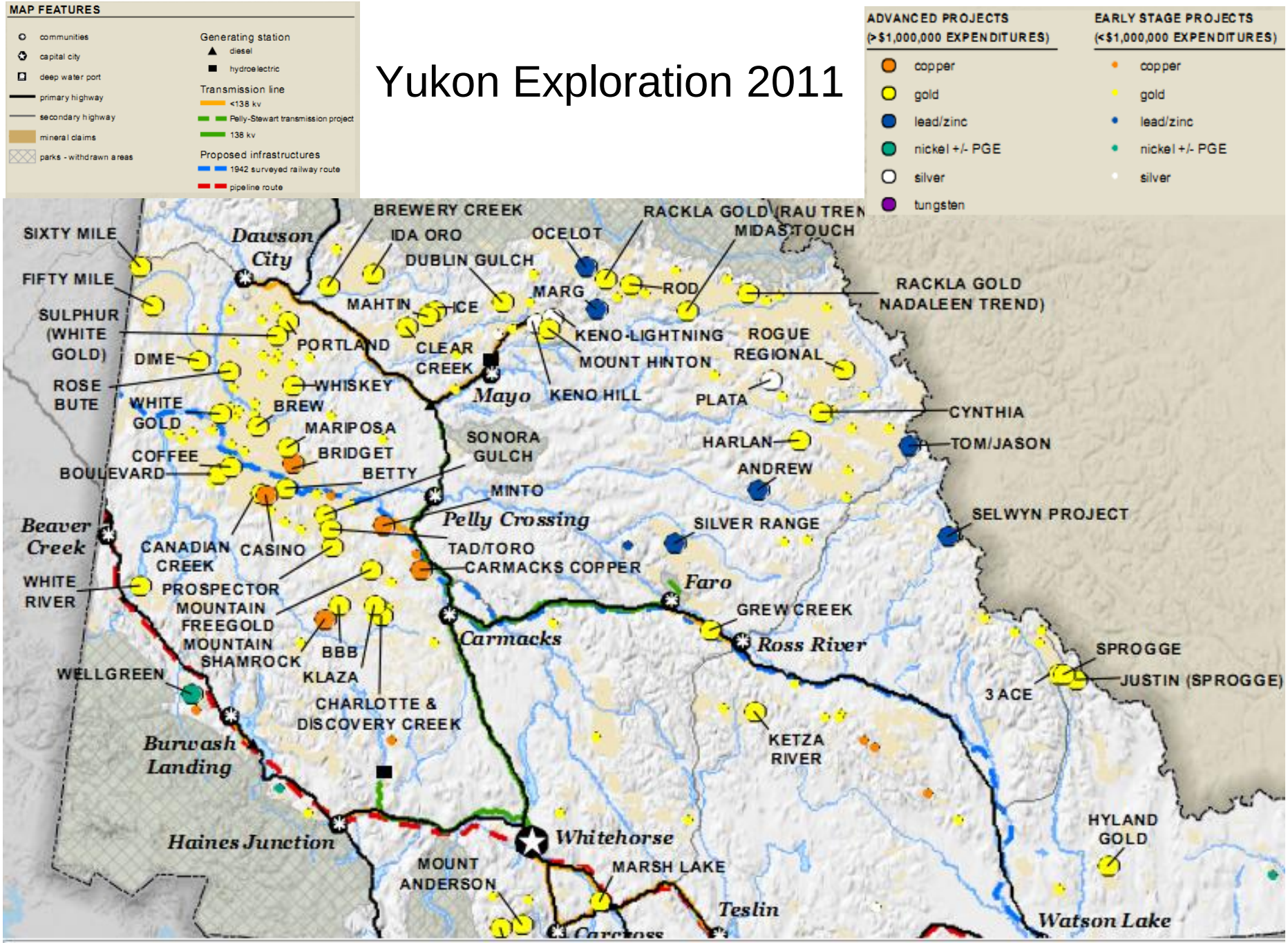
- 3 drill-confirmed Carlin-type gold discoveries on ATAC's 100% owned, >1,600 sq/km property
- To date, less than 10% of the project has had any detailed exploration to evaluate numerous geochemical anomalies
- 6 drills currently testing Nadaleen Trend targets



3Ace - Northern Tiger Resources Ltd.

- Highest grade gold rock sample every found on surface in Yukon: 140.6 ounces per tonne gold
- Drilling underway

Yukon Exploration 2011



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The role of Transportation in Exploration and Develoment

- Riding the Wave: timing is everything
- Development occurs in regional belts
- Resource Access Corridors growing
  - Vision to plan for long-term (governments can play a critical role)
  - Lost opportunity as money spent in the air, not the ground
- Creative Financing models will become increasingly important
  - Transportation Corridors are the Goose, mines are the Eggs
  - Public Private Partnerships

For Further Information

- economicdevelopment.gov.yk.ca
- economics.gov.yk.ca
- investyukon.com
- miningyukon.com

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