

**01/25/14
LUNCH & LEARN:
SUSTAINABLE
MINERAL
DEVELOPMENT IN
THE NORTHWEST
ARCTIC -
BENEFITING
ALASKA**

<TARGET><BILL></BILL><SUBJECT>01-25-14 LUNCH and LEARN
SUSTAINABLE MINERAL DEVELOPMENT IN THE NORTHWEST ARCTIC -
BENEFITING ALASKA</SUBJECT><COMM>HRES28</COMM></TARGET>

Lunch and Learn

Tuesday at Noon

Capitol Room 106

An In-depth Look at Alaska's Resources

Lunch provided by presenters

**HOSTED BY
REP. ERIC FEIGE &
REP. DAN SADDLER
CO-CHAIRS
House Resources**

**Contact:
Linda Hay, Staff
465-3715**

Tuesday - Jan. 28, 2014

**Program Title: Sustainable Mineral
Development in the Northwest Arctic—
Benefiting Alaska!!**

**Presenters: Lance Miller, VP Resources, NANA Corp.
Aha Porter, Minerals Specialist, NANA
Corp.**

Sponsor: Council of Alaska Producers

VICE PRESIDENT, NATURAL RESOURCES

NANA Regional Corporation, Inc.
Biography



Lance Miller, PhD.



Lance Miller is vice president of Natural Resources and brings experience and resource expertise to his work at NANA Regional Corporation, Inc. As vice president, Miller works to guide NANA through responsible resource development processes and help grow the corporation to meet the future needs of NANA shareholders.

Formerly a geoscientist with NANA subsidiary WHPacific Inc., Miller's past positions also include project manager for NovaGold, executive director of the Juneau Economic Development Council, Eurasia project manager for Placer Dome, chief geologist for Echo Bay Mines on the AJ project and president of a private mining company.

He has worked in the minerals industry throughout North America, as well as in Asia and Africa.

He is a board member of the Alaska Miners Association, currently is on the Alaska Minerals Commission, is a board member of the Resource Development Council and is on the University of Alaska Anchorage Geosciences advisory board. He is a past president of the Juneau Douglas Ice Association and the Foundation for Glacier and Environmental Research. He was a member of the Alaska Climate Impact Assessment Commission and a founding board member of Alaska Investnet.

Miller has authored and co-authored over 25 scientific publications and holds a Ph.D. in economic and structural geology from the University of Arizona, an M.S. in economic geology from University of Alaska and a bachelor of science from Stanford University.

For more information on NANA or our leadership, join the hunt at www.nana.com/regional.

About NANA –

NANA Regional Corporation, Inc. is one of the 13 Regional Alaska Native Corporations created pursuant to the Alaska Native Claims Settlement Act (ANCSA) of 1971. NANA's mission is to provide economic opportunities for its more than 13,500 Iñupiat shareholders and to protect and enhance NANA lands. Join the hunt at www.nana.com/regional.

RESOURCE SPECIALIST

NANA Regional Corporation, Inc.
Biography



Ahpa Porter



Ahpa Porter is the Mineral Specialist for NANA Regional Corporation. Ahpa started his career with NANA in 2010, working for one of NANA's subsidiary companies as an accountant. Ahpa graduated with a Bachelor of Science in Business Finance from University of Phoenix in 2011. Ahpa has also worked for the U.S. Forest Service in Yakutat and the Northwest Arctic Borough School District in Kotzebue. Ahpa is a lifelong Alaska Native resident spending time out state only for college in Utah and Washington. Ahpa spent his childhood in Alaska's southeast town of Yakutat in his Tlingit father's (Walter Porter) home town and spent a few years living in Alaska's northwest city of Kotzebue, his Iñupiat mother's (MaryAnn Porter) home town. Ahpa is a NANA shareholder.

For more information on NANA or our leadership, join the hunt at www.nana.com/regional.

About NANA –

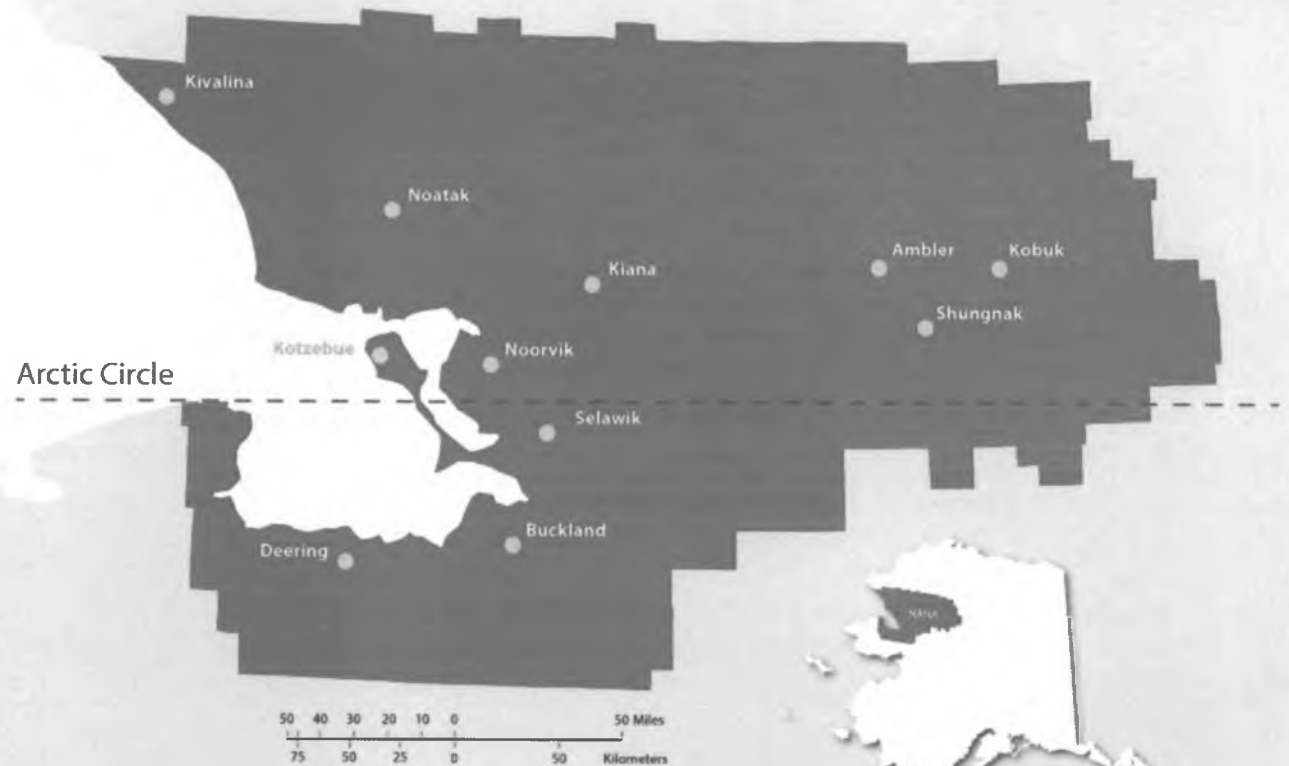
NANA Regional Corporation, Inc. is one of the 13 Regional Alaska Native Corporations created pursuant to the Alaska Native Claims Settlement Act (ANCSA) of 1971. NANA's mission is to provide economic opportunities for its more than 13,500 Iñupiat shareholders and to protect and enhance NANA lands. Join the hunt at www.nana.com/regional.

Sustainable Mineral Development in Northwest Arctic – Benefiting Alaska



The NANA Region

- 11 communities
- Kotzebue is the hub and the seat of our municipal government – the Northwest Arctic Borough (NAB).
- NANA region shares same borders as NAB.



NANA Formation



NANA Regional Corporation incorporated in 1972 as the regional corporation for Northwest Alaska.



NANA's first board chairman was Robert Aqqaluk Newlin, Sr. and the first president was John Schaeffer.



In 1974, NANA Development Corporation was created .



Responsible development on NANA lands and the businesses create profit for the corporation.

An Iñupiat Corporation



When NANA first started, we had about 4,800 shareholders.



We have more than 13,500 shareholders. Our shareholder base is growing all the time.



In 1991, NANA shareholders voted to include shareholder descendants born after the December 18, 1971 cut-off date of ANCSA into NANA.



Shares in our corporation cannot be bought or sold. They must be inherited or gifted.

An Iñupiat Corporation

NANA's responsibility to shareholders



Improve
quality of life



Maximize
economic
growth



Protect and
enhance lands



Promote
healthy
communities



An Iñupiat Corporation



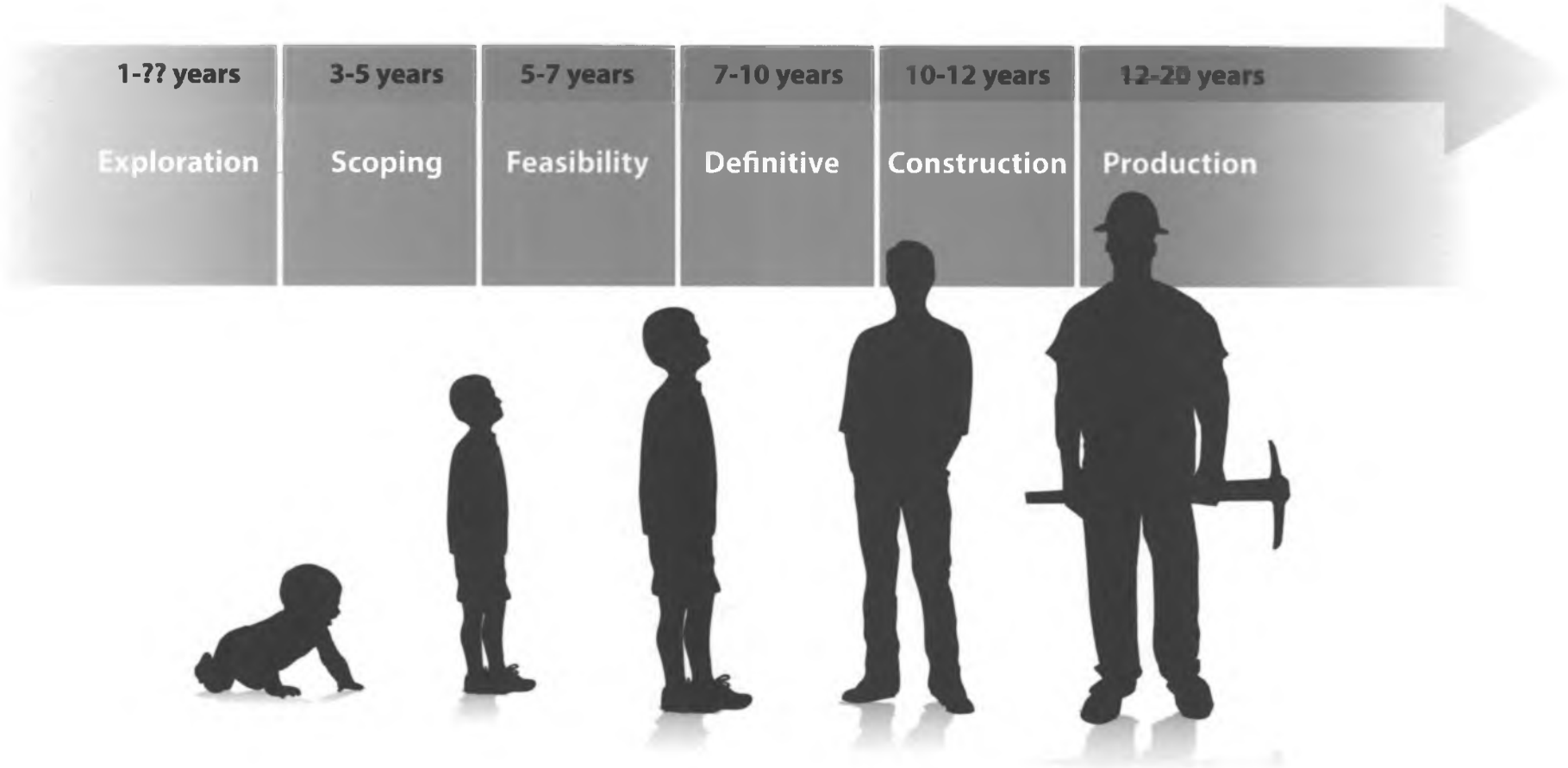
Subsistence is the highest and best use of our lands.

We responsibly develop NANA's subsurface resources by working with our shareholders and within the region

Responsible development at Red Dog Mine has helped improve the lives of our shareholders and build the economy of our region.



Mineral Development Takes Time



Red Dog Mine Development Timeline



1968

Bob Baker brings the future mine site to the attention of the USGS.



1970

USGS publishes report on zinc/lead findings at future mine site.



1971

Alaska Native Claims Settlement Act (ANCSA) enacted



1975

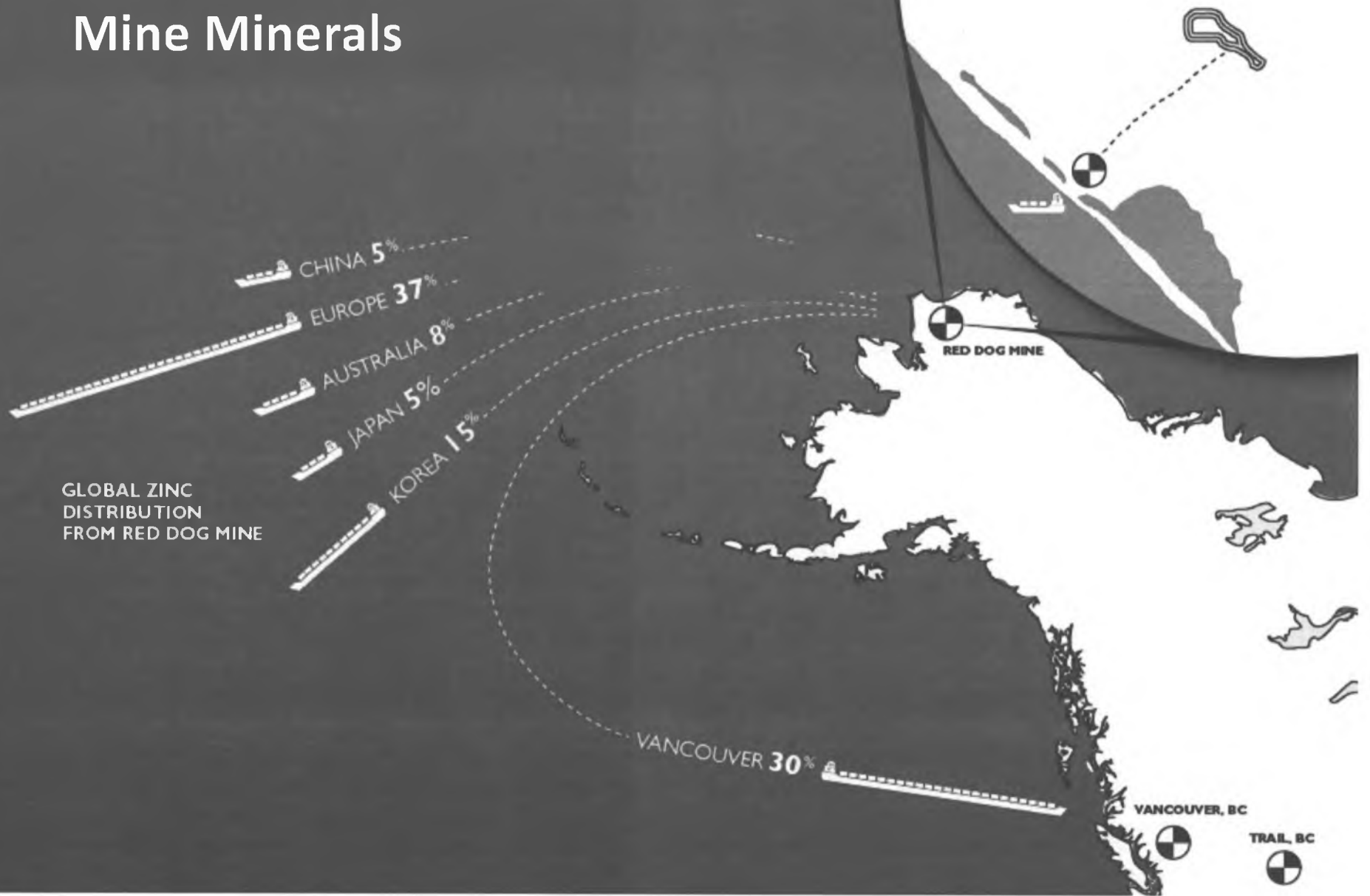
US Bureau of Mines, directed by Congress, sends geologists (and contracts with WGM) to study the potential of Red Dog site



Late 70s

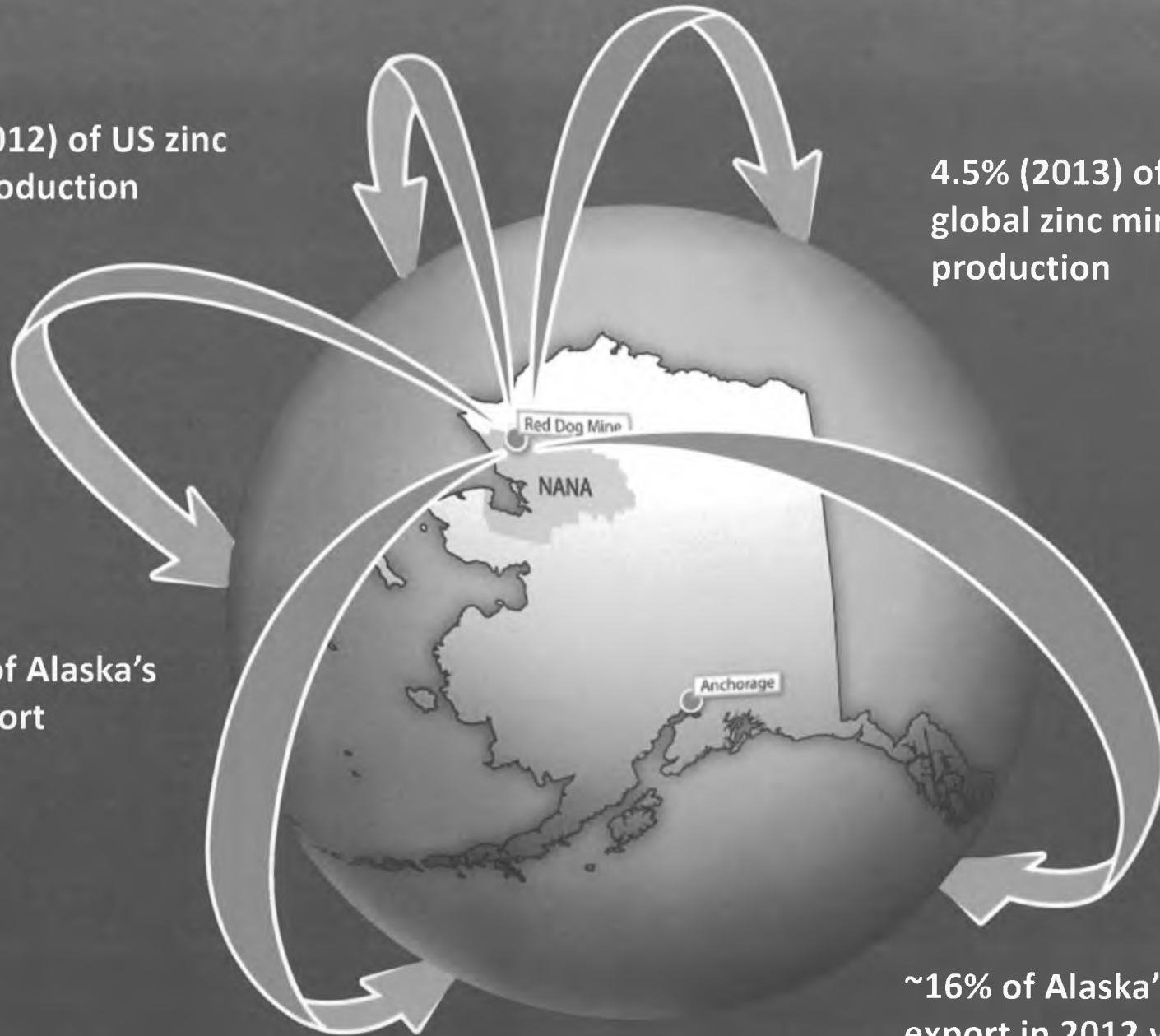
NANA begins villages meetings to discuss mining potential

Distribution of Red Dog Mine Minerals



70 % (2012) of US zinc mine production

4.5% (2013) of global zinc mine production



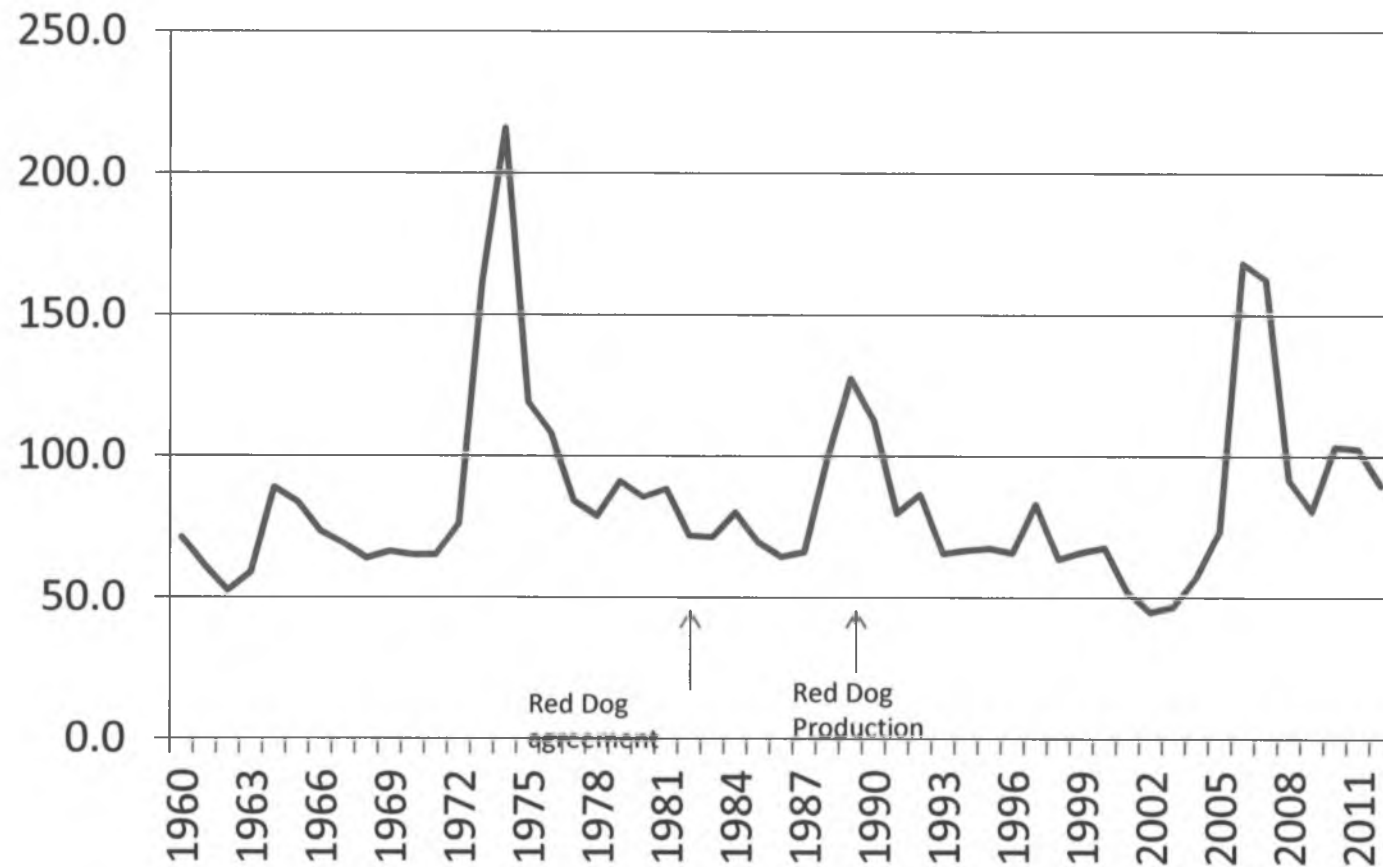
~49%-60% of Alaska's mineral export

~16% of Alaska's export in 2012 was due to Red Dog

Zinc Price adjusted for in 2013 Dollars (\$/lb)

A challenge to operation

– world price has a tremendous effect on revenue



Benefits of Development



\$1 BILLION

in proceeds paid to NANA
since mining began (2013)



600+ Jobs



\$608 MILLION

in total 7 (i) payments (through
2013)



**73% U.S. zinc
production**



~\$558 MILLION

in Alaska benefits, annually (2010)



54% Shareholder Hire



\$119.7 MILLION

in total PILT to NAB since mining began

Benefits to Shareholders

In 2013 NANA provided significant benefits to our shareholders from Red Dog Mine proceeds:



\$1.5 MILLION

Aqqaluk Trust



\$3.9 MILLION

In social & cultural benefits



\$874,000

In scholarships to shareholders, dependents and descendants



\$1.1 MILLION

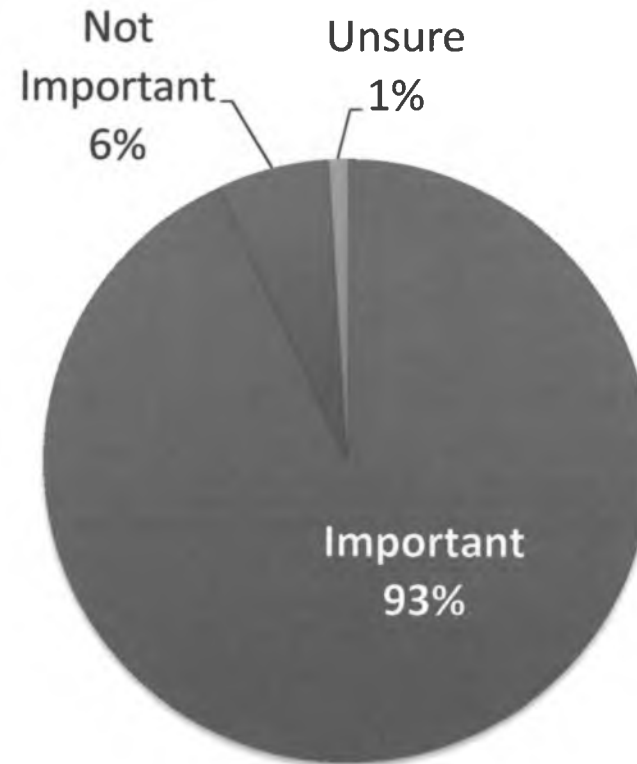
In Village Economic Development grants to communities



Shareholder Survey

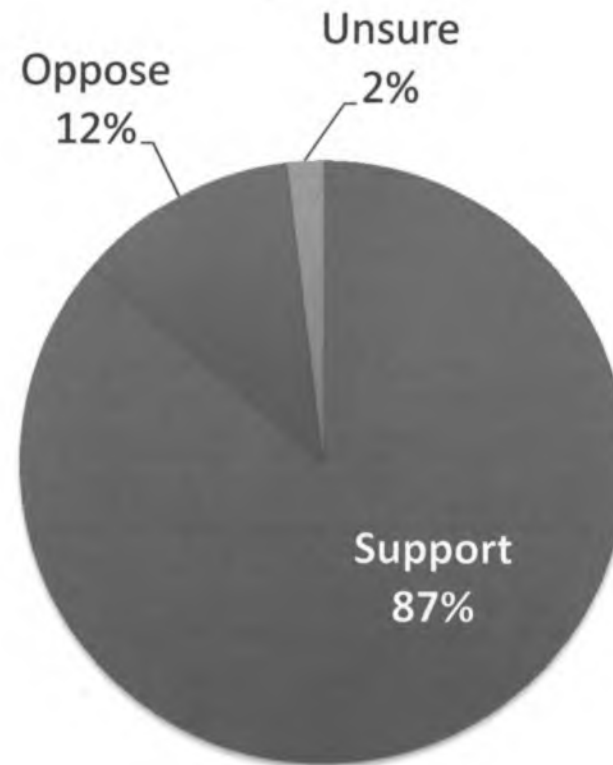
How important do you believe mineral development is for the economic health and well being of NANA?

*Results of 2011 NANA Survey
conducted by Dittman Research
in Oct. 2011.*



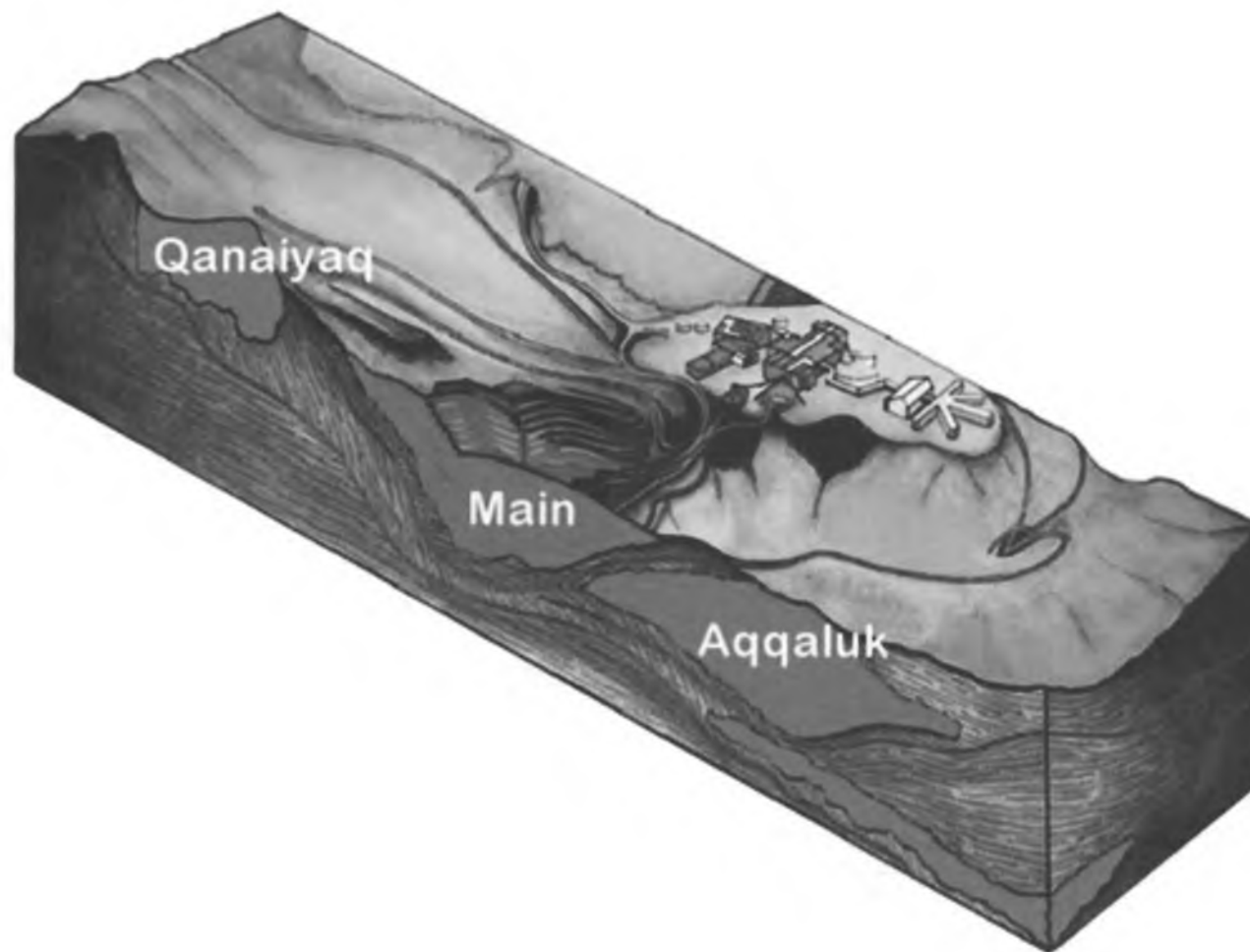
Shareholder Survey

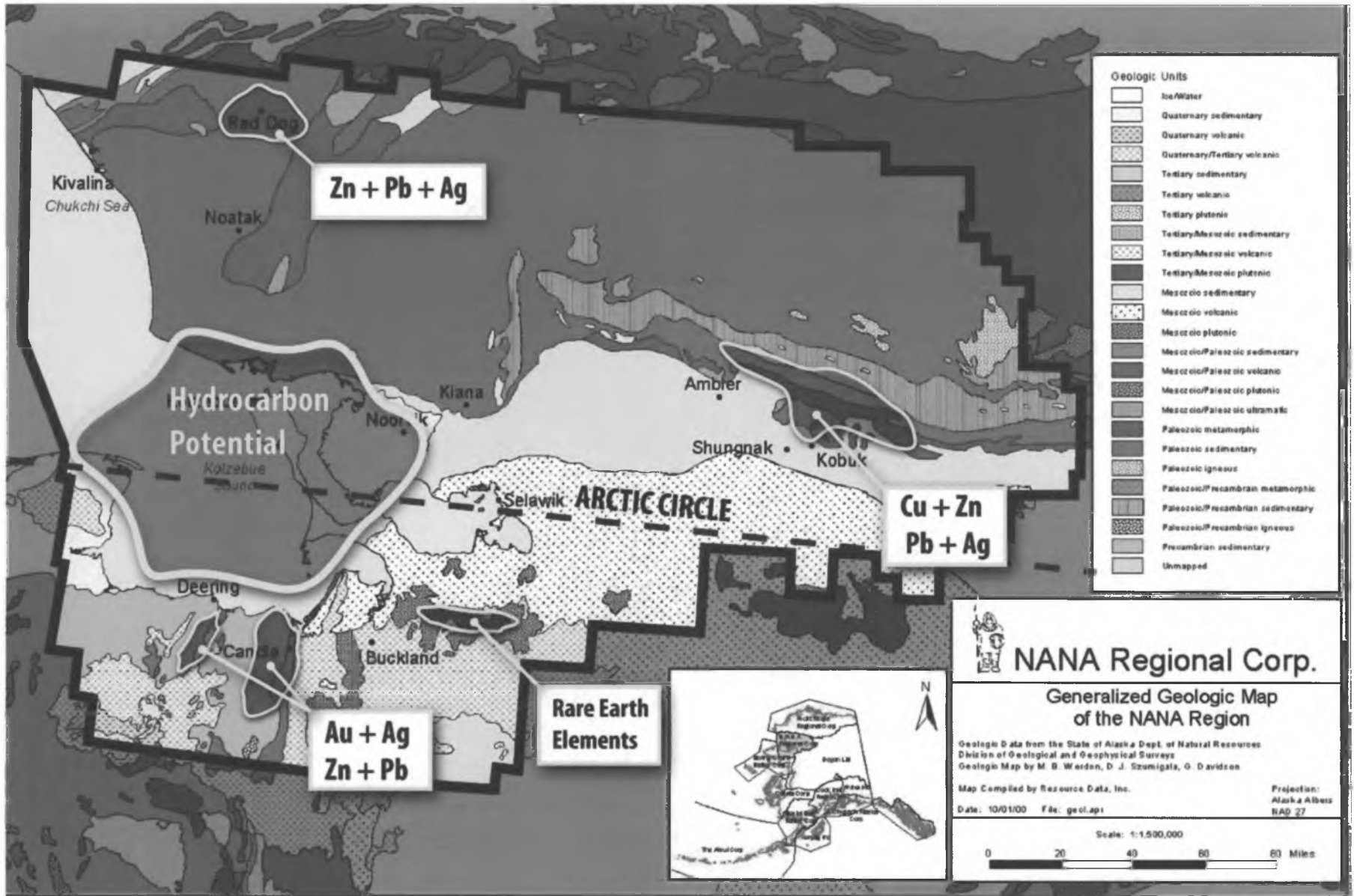
Do you support or oppose new mineral development on NANA lands?



*Results of 2011 NANA Survey
conducted by Dittman Research
in Oct. 2011.*

The Future of Red Dog Mine





Northwest Alaska's Strategic Minerals



73% (5% of global reserve)

43%



35% (5% of global reserve)

40%



90%

China accounts for 55% of global refinery production



75% (<1% of global reserve)

??



18% (recycled lead is 91% of US consumption)

45%
US imports basically all primary lead

US Foreign Dependence/China % of global consumption

US Foreign Dependence/China % of global consumption		
Zn zinc	73% (5% of global reserve)	43%
Cu copper	35% (5% of global reserve)	40%
Ge germanium	90%	China accounts for 55% of global refinery production
Co cobalt	75% (<1% of global reserve)	??
Pb lead	18% (recycled lead is 91% of US consumption)	45% US imports basically all primary lead

Upper Kobuk Mineral Project

An advanced stage mineral exploration project in the Ambler VMS district



Other Potential



- Basin 350 x 80 miles
- Onshore NW AK and offshore Chukchi Sea
- Separated from Hope Basin by Kotzebue Arch
- Depocenters ~ 20,000 ft Tertiary & probably Cretaceous



Cooperation



Cooperation and Consultation

Thousands of years of cooperation and values
Commitment to consultation and working together
Cooperation and a project we can be proud of .

Opening Arctic

The opening of the Arctic; has Alaska's ship come in? Or is it someone else's?



Taikuu

