

Mining Industry Update

April 12, 2018





- ✓ Why and Where Do We Mine?
- ✓ Mining's Benefits for Alaska and Alaskans
- ✓ Environmental safeguards
 - Perception vs. reality
- ✓ Stand for Alaska: Know the Facts
 - Protecting communities, jobs and the economy



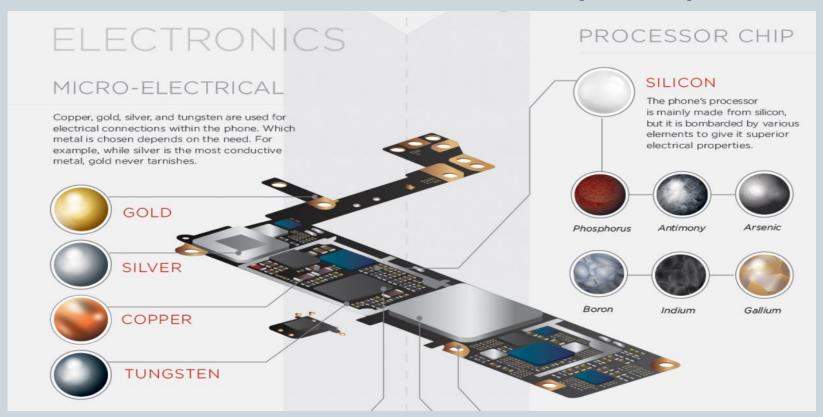
Why do we mine?



If you have turned on a light, entered a building, driven on a road, made a phone call, used a computer, or visited a doctor, then mining is an important part of your life.



Alaska metals could be in your phone



www.visualcapitalist.com







Benefits to Alaska: jobs

- 4,400 direct jobs
- 9,000 total direct and indirect jobs
- \$700 million total payroll
- Average annual wage of \$108,600
- Residents of 55+ communities
- \$580 million in contracts for 600+
 Alaska businesses







Benefits to Alaska Native Corporations

- 7(i) and 7(j) royalty sharing:
 - \$1.5 billion to NANA (1982-2017),
 of which \$1 billion shared
 - \$2 million to Calista in 2016
- Jobs for shareholders:
 - Red Dog 55%
 - Upper Kobuk Minerals Projects 59%
- Business partnerships





2017 Local and State Government Revenue

- \$34 million to local governments (largest taxpayers in Juneau, Fairbanks and Northwest Arctic)
- \$61 million to state government
- \$49 million in other state government-related revenue



Alaska Permanent Fund

Corpus: 25-50% of lease rentals and royalties from mines on state land is deposited into Permanent Fund

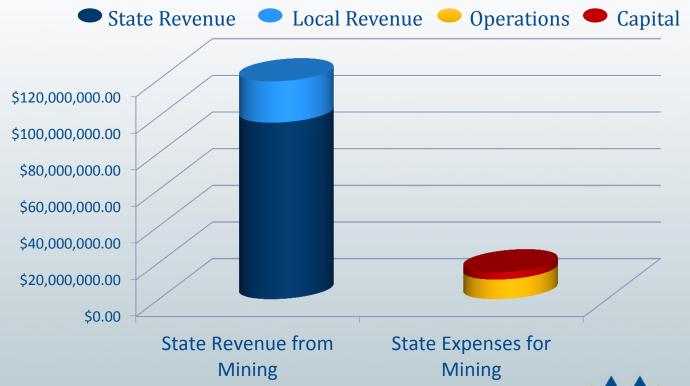
Investments:

- 479 investments in global metals mining and fabricating
- \$516.6 million value
- Includes \$23.5 million of stock in companies operating mines in AK, >\$7 million of stock in companies with exploration projects in AK

Alaska Producers

Source: www.apfc.org, 02/12/2017

State Revenue vs. State Costs



"Fiscal Effects of Commercial Fishing, Mining, & Tourism. What does Alaska receive in revenue? What does it spend?"

Bob Loeffler and Steve Colt, Institute of Social and Economic Research, UAA, 2016







Mining Pays its Way

- Companies pay exploration, development and construction costs
- This often includes access and infrastructure, unlike in Lower 48
- Reimbursable Service Agreements
- Financial assurance for reclamation and closure





AIDEA'S Return on Investment

- Mission: encourage AK economic growth
- \$265 million investment in the Red Dog port and road
- \$465 million in payments from Red Dog (12/2017)
- 6.5% annual interest on loan agreement
- Annual dividend to State General Fund
- Contract goes to 2040





Sources: www.aidea.org, AIDEA email 2018-02-08



Alaska's World Class Regulatory System

- Rigorous permitting system
 - air, land, water, fish and wildlife
- Strict operational oversight
- Closure/Reclamation
- Financial Assurance



No Single Permit to Mine: there are many permits & authorizations

Mine permitting is a mixture of State, Federal and local permitting requirements.

STATE

Each project is unique. FEDERAL

- Plan of Operations (DNR)
- Reclamation and Bonding (DNR)
- Waste Management Permits and Bonding (ADEC)
- CWA Section 402 APDES Water Discharge Permit
- Certification of ACOE Permits (ADEC)
- Sewage Treatment System Approval (ADEC)
- Air Quality Permits (ADEC)
- Fish Habitat and Fishway Permits (ADF&G)
- Water Rights (DNR)
- Right of Way/Access (DNR/DOT)
- Tidelands Leases (DNR)
- Dam Safety Certification (DNR)
- Cultural Resource Protection (DNR)
- Monitoring Plan (Surface/Groundwater/Wildlife) (DNR/DEC/DFG)

- US EPA Air Quality Permit review
- US EPA Safe Drinking Water Act (UIC Permit)
- US ACOE S. 404 Dredge and Fill Permit
- US ACOE S. 10 Rivers and Harbors Act
- US ACOE S. 106 Historical & Cultural Resources Protection
- NMFS Threatened & Endangered Species Act Consultation
- NMFS Marine Mammal Protection Act
- NMFS Essential Fish Habitat
- NMFS Fish and Wildlife Coordination Act
- USFWS Threatened & Endangered Species Act Consultation
- USFWS Bald Eagle Protection Act Clearance
- USFWS Migratory Bird Protection
- USFWS Fish & Wildlife Coordination Act



c a p

Council of

Alaska Producers

These are only some of the permits required!



Alaska's Permit System is Unique

- Stringent application of a national water quality system
- Robust monitoring system
- 3rd party compliance audits of both:
 - company methodology and results
 - regulatory agency oversight





Reclamation and Closure

- Alaska law (AS 27.19) requires that a mine site must be returned to a stable condition compatible with the post-mining land use
- Plan & financial assurance must be approved by DNR Commissioner before operations begin
- Financial assurance applies to all companies
- Reviewed every 5 years or earlier if necessary





Potential

Are the right policies in place to encourage development and production of critical and strategic minerals in Alaska?







Air Liquidle Bering Marine Corporation Airport Equipment Rentals Bidwike, LLC Alaska Aggregate Products EhunCreut. Blueprice Alaska Alaska Blue-larvest Seafroots Alaska Chamber Bogart Mining Alaska Crave Bonstida Construction Alaska Dritting and Completions Borell Canaulting Services LLC Alaska Earth Sciences, Inc. Alaska Enterprise Salutions, Inc. Alaska Fature with Mark Glassey Alaska Forest Association Alaska Hastincara Strates Alaska Marine Lines. Alaska Minure Association Alaska CII and Ga Alaska Ready Construction Alaska Remote Sensing Alaska Supply Chain Inter Almka Support Indust

Alaska Trucking Ass Alauka West Erpe Alaska Wins

Alyacia Roeine S. Amak Towing

Americans for Prosperity: A Amerikanimic, Alaska, U.C.

Anchorage Republican Women's L.

ANESA Regional Association

Arctic Cataring & Support Services

Arctic Consulting LLC

Aretic Controls

Arkitis, LLC

Aspen Hotels of Al-

Associated Governi Contractors of Aleska

ASRC Energy Services

Audio Video Installation and Design (AVID)

Beleggy Occupational Health

ne Agandies of Afestos

Cruz Companies Date Center, LLC

vis Block and Concrete

Jandhorse Aviation Cavitar, LLC

Dulta Constructors

Delta Lassing

Dwnsill Asphalt

Daniel Orlling Dwnish Group

Danali Industrial Supply

Dittman Research

Soll Air Hauf

ENSTAR Natural Gas Company

Soutement Source, Inc.

Estern Mobili

F Robert Ball & Associates

Pairbanks Economic Development Corporation

Fairweather, LLC

250+ ALASKA

Koncor Forest Products

Laborers' Local 341

Latimers' Local 942

Little Red Services

Living Deliberately

Leader UP, LLC

BUSINESSESAND

Klawn Energy

Northstar Stevedoring Equipment

Granitis Construction

Gray Services

atter Fairbanks Chamber of Commerce.

urce Group Inc.

Crisis Mining Co.

Innerior Alas A

Jada North, LLC

Judy Patrick Photography

DURANGE T. LLC.

K.Jardell Company Kallander & Associates

Kenai Peninsute Republican Women Kunel River Raven Lodge

North Slope Enrough

NW Consulting

Oxford Assaying and Refining

Pan-American Industrial Commercial Enterprise

Patitile Partnership

Petroleum Equipment & Services, Inc.

Swire Share

Petrobedysical Resources of Almica

Pipefittens Local 375

Price Gregory Emernational

PRU Legistics

RA Krwg & Associates

Roove Air Alneka

Resource Development Council for Alaska, Inc.

Rockwall Automation

Rotating Sarvices, LLC

Safway Services

Suturiuls Aleska

Seviasion

Ship Avenue, LLC South Central Timber Dev. Inc.

Southeast Conference

Southeast Stavedoring.

ORGANIZATIONS

The Back Eddy, U.C. The Cennery Lodge

The Carter Company

The Surveyors Exchange

Thompson & Company

Thrive Creative + Communications

Towar Hill Minus

Transportation Institute.

Tribogy Matalia Disc.

Eldalhoven.

UMV Express DMV Solutions

Usibelt Carl Mine, Inc.

Varies General Energy Services

Vadey Sawmill

Walsh Shuppard

Wastward Fishing Company

Winchester Aleska

Wat Communications LLC

TAKEAWAY

This ballot measure is a radical overhaul of regulations with serious unintended consequences.

WHAT DOES THIS MEAN FOR ALASKA?

- Job loss: oil and mining
- Economy will slow
- Future opportunities would disappear: AKLNG
- Projects will be decided in the courts
- Upend the balance between economy and environment

11.16.17

"There will not be another significant project built in rural Alaska if this initiative passes."

AARON SCHUTT

President & CEO, Doyon, Limited

THE MYTHS

- Alaska does not adequately protect our fish habitat.
 NOT TRUE.
- We have not increased fish habitat protections in 60 years. NOT TRUE.
- We don't use science to guide permitting.
 NOT TRUE.
- There's no opportunity for public input.
 NOT TRUE.
- This won't impact existing projects.
 NOT TRUE.





Paid for by Stand for Alaska, 200 West 34th Avenue, PMB 1219, Anchorage, AK 99503. Marleanna Hall, chair, Aaron Schutt, co-chair, Jaeleen Kookesh, co-chair, and Joey Merrick, co-chair, approved this message. Top contributors are ConocoPhillips Alaska, Anchorage, Alaska, Hecla Mining Company Juneau, Alaska, and Kinross Fort Knox, Fairbanks, Alaska.