



# High Grade Safe Jurisdiction Solid Partners



Metals Investor Forum | January 2021

# FORWARD LOOKING STATEMENTS

This presentation includes certain "forward-looking information" and "forward-looking statements" (collectively "forward-looking statements") within the meaning of applicable Canadian and United States securities legislation including the United States Private Securities Litigation Reform Act of 1995. All statements, other than statements of historical fact, included herein, including, without limitation, the future price of copper, the estimation of mineral reserves and mineral resources, the realization of mineral reserve and mineral resource estimates, the timing and amount of estimated future production, costs of production, capital expenditures, costs and timing of the development of projects, the likelihood and timing with respect to the Ambler Mining District Industrial Access Project ("AMDIAIP"), the potential future development of the Bornite project, the future operating or financial performance of the Company and planned expenditures and the anticipated activity at the Upper Kobuk Mineral Projects, are forward-looking statements. Forward-looking statements are frequently, but not always, identified by words such as "expects", "anticipates", "believes", "intends", "estimates", "potential", "possible", and similar expressions, or statements that events, conditions, or results "will", "may", "could", or "should" occur or be achieved. These forward-looking statements may include statements regarding perceived merit of properties; exploration plans and budgets; mineral reserves and resource estimates; work programs; capital expenditures; timelines; strategic plans; market prices for precious and base metals; or other statements that are not statements of fact. Forward-looking statements involve various risks and uncertainties. There can be no assurance that such statements will prove to be accurate, and actual results and future events could differ materially from those anticipated in such statements. Important factors that could cause actual results to differ materially from the Company's expectations include: risks related to inability to define proven and probable reserves; risks related to our ability to finance the development of our mineral properties through external financing, strategic alliances, the sale of property interests or otherwise; uncertainty as to whether there will ever be production at the Company's mineral exploration and development properties; risks related to our ability to commence production and generate material revenues or obtain adequate financing for our planned exploration and development activities; risks related to lack of infrastructure including but not limited to the risk whether or not the AMDIAIP will receive the requisite permits and, if it does, whether the Alaska Industrial Development and Export Authority will build the AMDIAIP; risks related to inclement weather which may delay or hinder exploration activities at our mineral properties; risks related to the impact of the novel coronavirus (COVID-19) on the Company and its operations; risks related to our dependence on a third party for the development of our projects; none of the Company's mineral properties are in production or are under development; risks related to future sales or issuances of equity securities decreasing the value of the Company's existing common shares, diluting voting power and reducing future earnings per share; commodity price fluctuations; our history of losses and expectation of future losses; uncertainties relating to the assumptions underlying our resource estimates, such as metal pricing, metallurgy, mineability, marketability and operating and capital costs; uncertainty related to inferred mineral resources; mining and development risks, including risks related to infrastructure, accidents, equipment breakdowns, labor disputes or other unanticipated difficulties with or interruptions in development, construction or production; risks related to market events and general economic conditions, including the impact of COVID-19; risks and uncertainties relating to the interpretation of drill results, the geology, grade and continuity of our mineral deposits; risks related to governmental regulation and permits, including environmental regulation, including the risk that more stringent requirements or standards may be adopted or applied due to circumstances unrelated to the Company and outside of our control; the risk that permits and governmental approvals necessary to develop and operate mines at our mineral properties will not be available on a timely basis or at all; risks related to the need for reclamation activities on our properties and uncertainty of cost estimates related thereto; uncertainty related to title to our mineral properties; risks related to the acquisition and integration of operations or projects; risks related to increases in demand for equipment, skilled labor and services needed for exploration and development of mineral properties, and related cost increases; our need to attract and retain qualified management and technical personnel; risks related to conflicts of interests of some of our directors and officers; risks related to potential future litigation; risks related to the voting power of our major shareholders and the impact that a sale by such shareholders may have on our share price; risks related to global climate change; risks related to adverse publicity from non-governmental organizations; uncertainty as to our ability to maintain the adequacy of internal control over financial reporting as per the requirements of Section 404 of the Sarbanes-Oxley Act; increased regulatory compliance costs, associated with rules and regulations promulgated by the United States Securities and Exchange Commission, Canadian Securities Administrators, the NYSE American, the Toronto Stock Exchange, and the Financial Accounting Standards Boards, and more specifically, our efforts to comply with the Dodd-Frank Wall Street Reform and Consumer Protection Act; uncertainty as to the volatility in the price of the Company's common shares; the Company's expectation of not paying cash dividends; adverse federal income tax consequences for U.S. shareholders should the Company be a passive foreign investment company; and other risks and uncertainties disclosed in the Company's Annual Report on Form 10-K or the year ended November 30, 2019 filed with Canadian securities regulatory authorities and with the United States Securities and Exchange Commission and in other Company reports and documents filed with applicable securities regulatory authorities from time to time. The Company's forward-looking statements reflect the beliefs, opinions and projections on the date the statements are made. The Company assumes no obligation to update the forward-looking statements or beliefs, opinions, projections, or other factors, should they change, except as required by law.

# FORWARD LOOKING STATEMENTS

## NON-GAAP PERFORMANCE MEASURES

Some of the financial measures referenced in this presentation are non-GAAP performance measures. We have not reconciled forward-looking full year non-GAAP performance measures contained in this presentation to their most directly comparable GAAP measures, as permitted by Item 10(e)(1)(i)(B) of Regulation S-K. Such reconciliations would require unreasonable efforts at this time to estimate and quantify with a reasonable degree of certainty various necessary GAAP components, including for example those related to future production costs, realized sales prices and the timing of such sales, timing and amounts of capital expenditures, metal recoveries, and corporate general and administrative amounts and timing, or others that may arise during the year. These components and other factors could materially impact the amount of the future directly comparable GAAP measures, which may differ significantly from their non-GAAP counterparts.

These measures are not recognized measures under US GAAP and do not have a standardized meaning prescribed by US GAAP and are therefore unlikely to be comparable to similar measures presented by other companies. Rather, these measures are provided as additional information to complement those US GAAP measures by providing further understanding of our results of operations from management's perspective and should not be considered in isolation or as a substitute for measures of performance prepared in accordance with US GAAP. The Company believes that these measures, in addition to conventional measures prepared in accordance with US GAAP, provide investors an improved ability to evaluate the underlying performance of the Company.

## CAUTIONARY NOTE TO UNITED STATES INVESTORS

This press release has been prepared in accordance with the requirements of the securities laws in effect in Canada, which differ from the requirements of U.S. securities laws. Unless otherwise indicated, all resource and reserve estimates included in this press release have been prepared in accordance with Canadian National Instrument 43-101 Standards of Disclosure for Mineral Projects ("NI 43-101") and the Canadian Institute of Mining, Metallurgy and Petroleum (CIM)—CIM Definition Standards on Mineral Resources and Mineral Reserves, adopted by the CIM Council, as amended ("CIM Definition Standards"). NI 43-101 is a rule developed by the Canadian Securities Administrators which establishes standards for all public disclosure an issuer makes of scientific and technical information concerning mineral projects. Canadian standards, including NI 43-101, differ significantly from the requirements of the United States Securities and Exchange Commission (SEC), and resource and reserve information contained herein may not be comparable to similar information disclosed by U.S. companies. In particular, and without limiting the generality of the foregoing, the term "resource" does not equate to the term "reserves". Under U.S. standards, mineralization may not be classified as a "reserve" unless the determination has been made that the mineralization could be economically and legally produced or extracted at the time the reserve determination is made. The SEC's disclosure standards normally do not permit the inclusion of information concerning "measured mineral resources", "indicated mineral resources" or "inferred mineral resources" or other descriptions of the amount of mineralization in mineral deposits that do not constitute "reserves" by U.S. standards in documents filed with the SEC. Investors are cautioned not to assume that all or any part of "measured" or "indicated resources" will ever be converted into "reserves". Investors should also understand that "inferred mineral resources" have a great amount of uncertainty as to their existence and great uncertainty as to their economic and legal feasibility. Under Canadian rules, estimated "inferred mineral resources" may not form the basis of feasibility or pre-feasibility studies except in rare cases. Disclosure of "contained ounces" in a resource is permitted disclosure under Canadian regulations; however, the SEC normally only permits issuers to report mineralization that does not constitute "reserves" by SEC standards as in-place tonnage and grade without reference to unit measures. The requirements of NI 43-101 for identification of "reserves" are also not the same as those of the SEC, and reserves reported by Trilogy Metals in compliance with NI 43-101 may not qualify as "reserves" under SEC standards. Arctic does not have known reserves, as defined under SEC Industry Guide 7. Accordingly, information concerning mineral deposits set forth herein may not be comparable with information made public by companies that report in accordance with U.S. standards.



# TRILOGY'S INTERESTS

## In the Ambler Mining District

**8 Billion**  
lbs Copper

**3 Billion**  
lbs Zinc

**Over 1 Million**  
oz Au Eq Precious Metals

- **High-Grade Copper**  
with Zinc and Precious Metals
- **Located in Alaska**  
a Safe, Rule of Law Jurisdiction
- **50/50 Joint Venture**  
with South32 Limited
- **Ambler Mining District with**  
**Significant Exploration Upside**

### JV Focused on Developing the District **Upper Kobuk Mineral Projects (UKMP)**

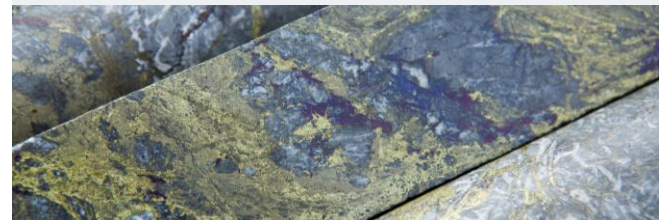
#### **ARCTIC**

- **Feasibility Study** results released Aug 20, 2020
- **Feasibility Highlights:**  
43.4 Mt @ 2.2% Cu | 3.1% Zn | 0.54% Pb | 0.47 g/t Au | 35 g/t Ag  
Contained Copper Equivalent of 3,988 Million pounds

**Post Tax \$1.1 Billion NPV and 27% IRR**

#### **BORNITE**

- **Bornite Exploration** 6 Billion lbs  
Copper and 77 Million lbs of Cobalt



# SHARE CAPITALIZATION

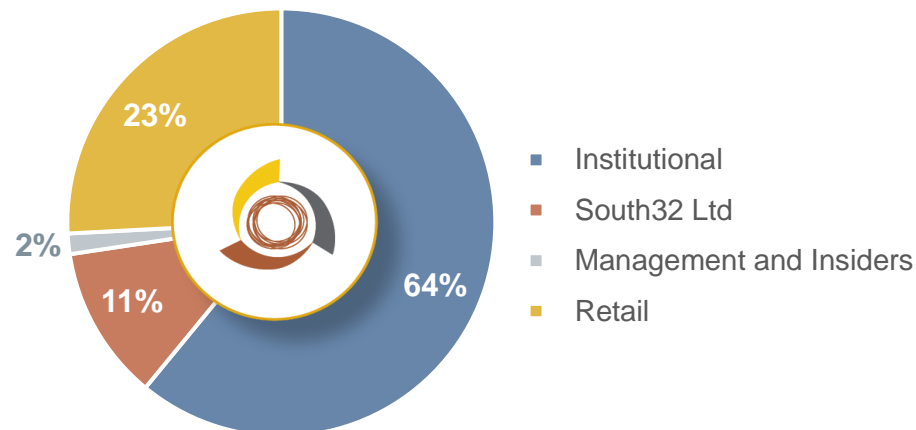
## Solid, Supportive Shareholder Base

### WELL FUNDED BALANCE SHEET

- Cash ~\$12.8 Million
- No Debt
- TMQ's share of JV cash is \$72.5 Million
- Market Cap \$290 Million
- Largely Institutionally Held
- Meaningful Management Ownership

#### TSX, NYSE | TMQ

Issued and Outstanding	143.0 M
Options	9.7 M
Fully Diluted <sup>1</sup>	153.8 M



### MAJOR SHAREHOLDERS

Electrum Group ~20.6%	Baupost Group ~8.5%
South32 Limited ~11.5%	DW Partners ~1.7%
Paulson & Co. ~10.0	Mgt & BoD ~2.0%
Neuberger Berman (Selz Capital) ~9.2%	

Above totals approximately 65%

1. Fully diluted shares include 1.2M Deferred Share Units (Directors) on August 31, 2020.

# CORPORATE HIGHLIGHTS – PARTNERSHIPS

## Forming Strong Partnerships to Advance the Ambler Mining District in Alaska

### 1. Joint Venture Partnership with South32

2. Local Native  
Partnership  
with NANA  
Agreement/Business  
Relationship with strong  
community relationships

3. Infrastructure  
Partnership with  
State of Alaska  
AIDEA currently advancing  
road access



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### 1. Joint Venture Partnership with South32

### 2. Local Native Partnership with NANA

Agreement/Business  
Relationship with strong  
community participation

### 3. Infrastructure Partnership with State of Alaska

AIDEA currently advancing  
road access



NANA



# CORPORATE HIGHLIGHTS – PARTNERSHIPS

## Forming **Strong Partnerships** to Advance the Ambler Mining District in Alaska

### 1. Joint Venture Partnership with South32

### 2. Local Native Partnership with NANA

Agreement/Business Relationship with strong community relationships

### 3. Infrastructure Partnership with State of Alaska

Alaska Industrial Development & Export Authority ("AIDEA") currently advancing road access



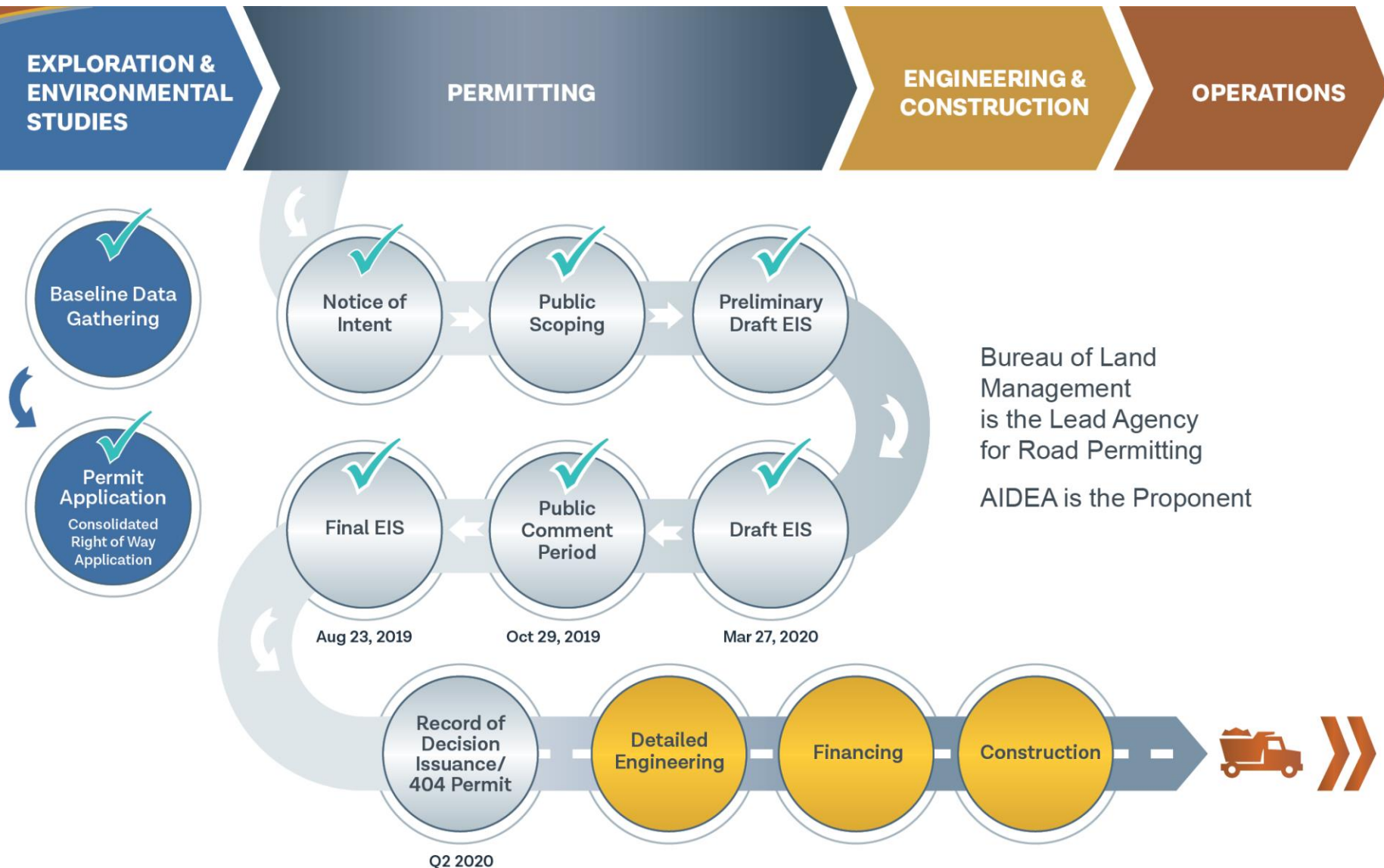


# TRUCK TRANSPORTATION PLAN

## AIDEA Currently Advancing Road Access to Ambler Mining District

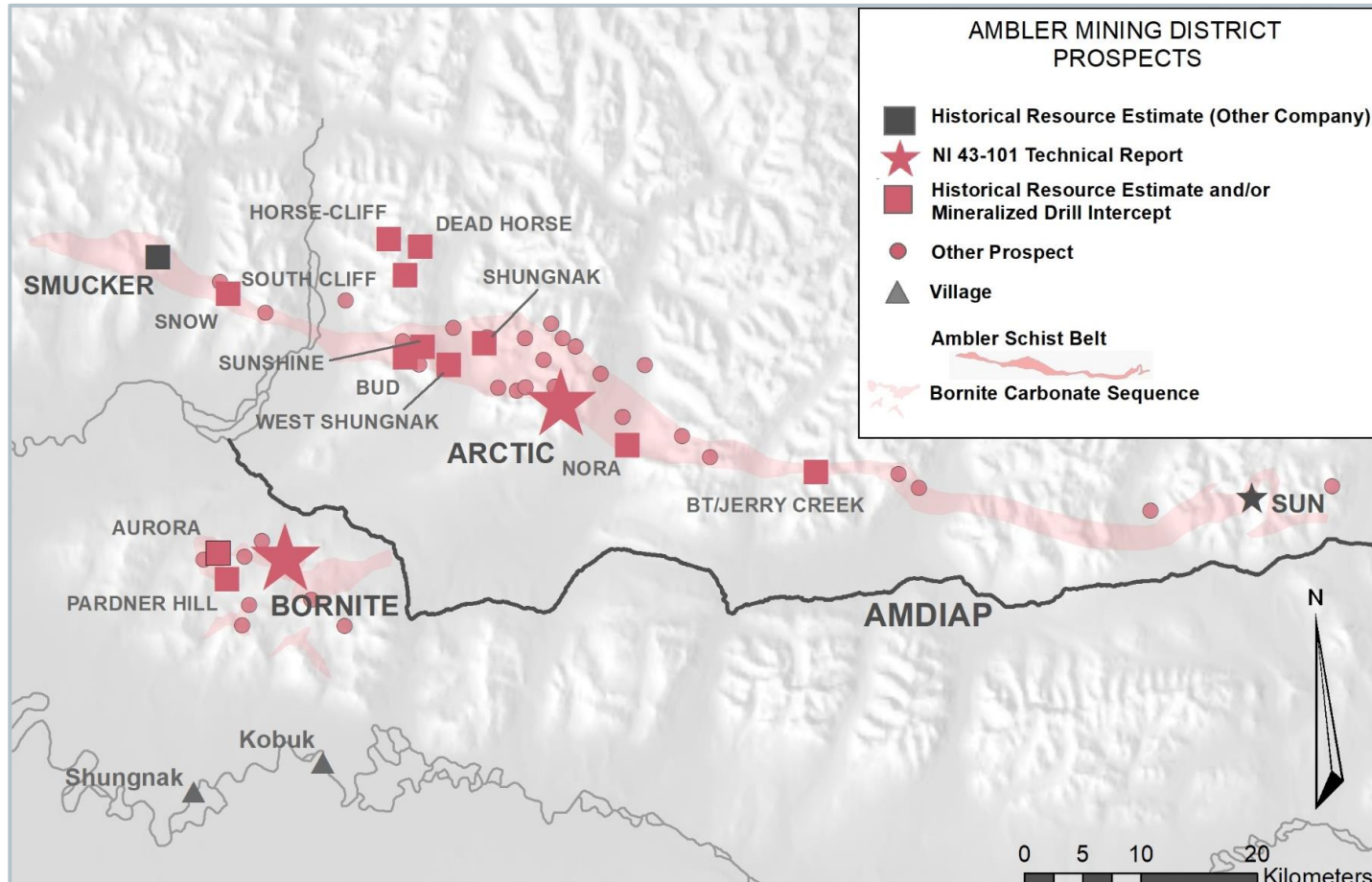


# NEPA ROAD PERMITTING PROCESS (EIS)



# HIGH-GRADE STRING OF PEARLS

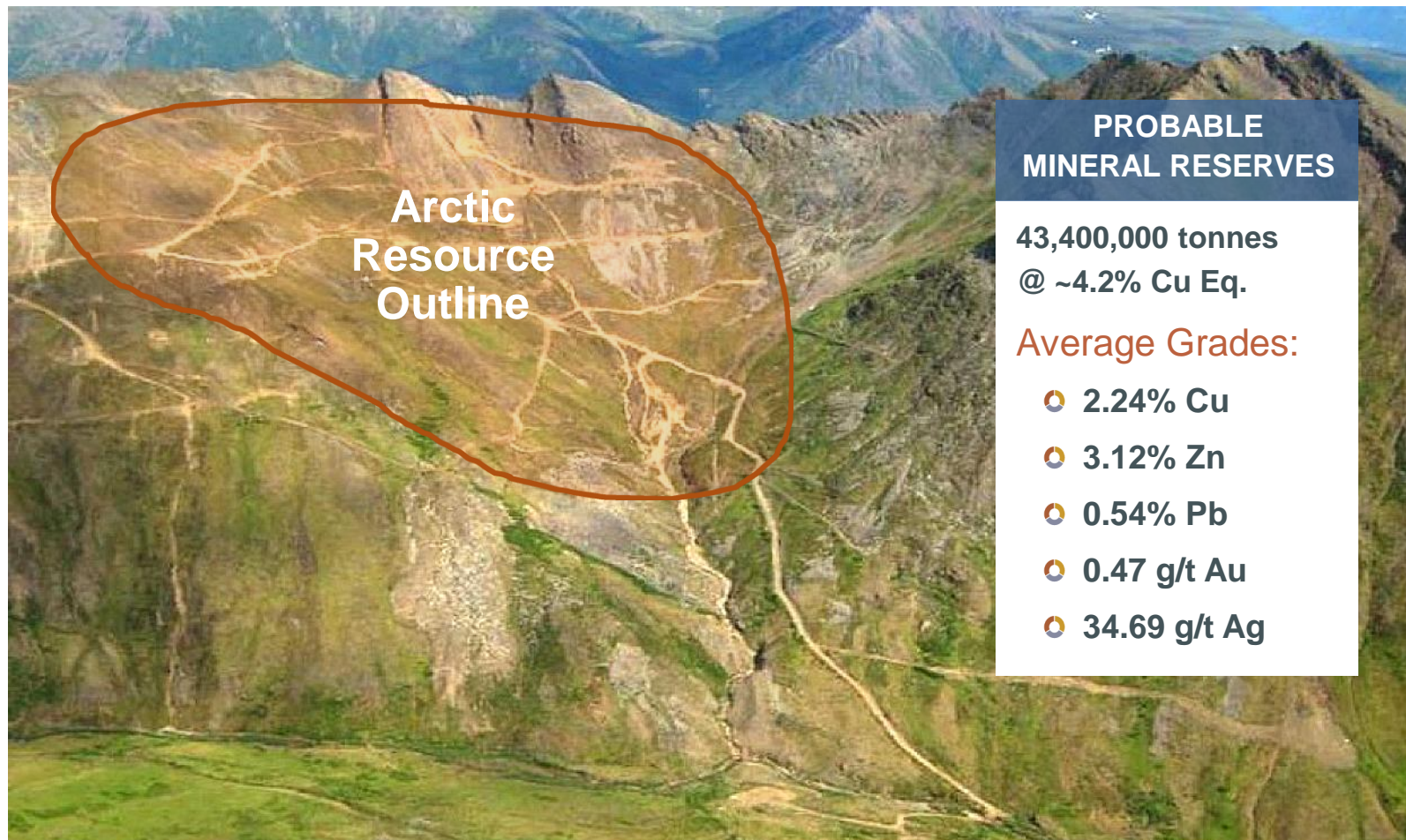
## Ambler Mining District Hosts Deposits Rich in Copper, Zinc, Lead, Gold, Silver & Cobalt





# RESERVES AT THE ARCTIC PROJECT

## Probable Mineral Reserves



Additional Inferred Resources of 3.5 Mt, with average grades of 1.71% Cu, 2.72% Zn, 0.60% Pb, 0.36 g/t Au and 28.69 g/t Ag. See Appendix for Reserve Estimate for the Arctic Project.



# ARCTIC FS – INPUTS & ECONOMIC RESULTS

## Feasibility Inputs and Economic Results

Mine Life	12 Years
Mill Capacity	10,000 tpd
Strip Ratio (Waste/Ore)	6.87:1
Average Annual Production	155M lbs Cu 192M lbs Zn 32M lbs Pb 3.4M oz Ag 32,400 oz Au
Base Case Metal Prices	\$3.00/lb Cu \$1.10/lb Zn \$1.00/lb Pb \$18.00/oz Ag \$1,300/oz Au
Initial Capital Cost (\$ million)	\$905.6
Total Capital Cost (\$ million)	\$1,224.7
Operating Cost (\$/tonne milled)	\$50.65
Pre-Tax NPV (\$ million) at 8%	\$1,550.9
<b>After-Tax NPV (\$ million) at 8%</b>	<b>\$1,134.7</b>
<b>Cash Costs, Net of By-Product Credits (\$/lb Cu Payable)</b>	<b>\$0.32</b>
<b>All-in Cost (\$/lb of Cu Payable)</b>	<b>\$0.98</b>
Annual Free Cash Flow at Assumed Metal Prices (\$ million)	~\$416
Capital Intensity Ratio (\$ Initial Capital/Tonne of Copper Equivalent)	\$6,432
<b>Pre-Tax IRR (%) / After-Tax IRR</b>	<b>30.8/27.1</b>
<b>Payback Period - After-Tax (Years)</b>	<b>2.6</b>



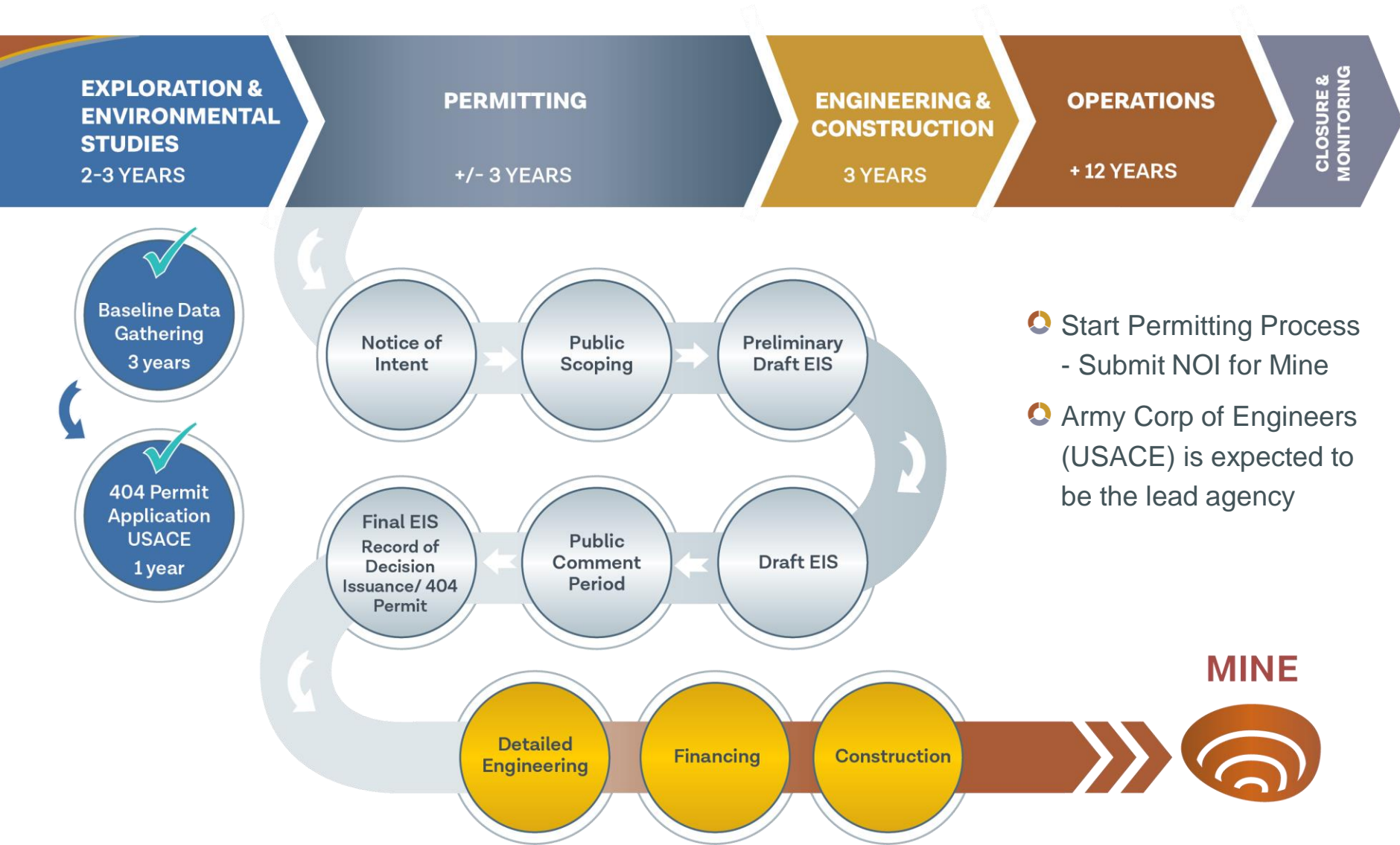
# ARCTIC PROJECT DEVELOPMENT PLAN

## Overview of Mine Site – Looking Northeast





# NEPA MINE PERMITTING PROCESS (EIS)



# NO FEDERAL LANDS – EASIER TO PERMIT

## Requires Federal, State and Borough Approvals

- ▶ 404 Wetlands Permit from the US Army Corps of Engineers is the only significant Federal Permit Required

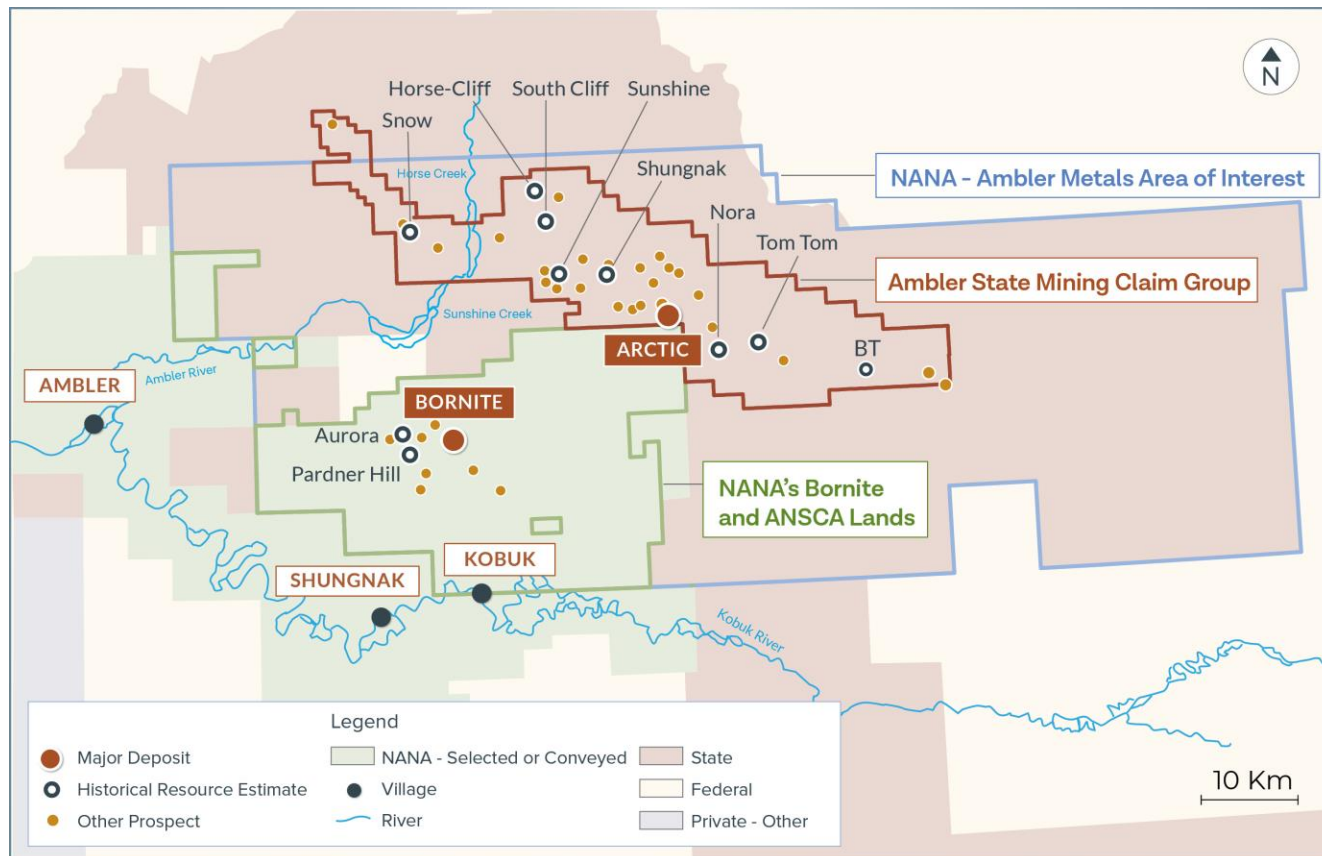
- ▶ All other significant permits issued by the State of Alaska:

● **Mine Operating Permit**

● **Dam Operating Permit**

● **Air Quality Permit**

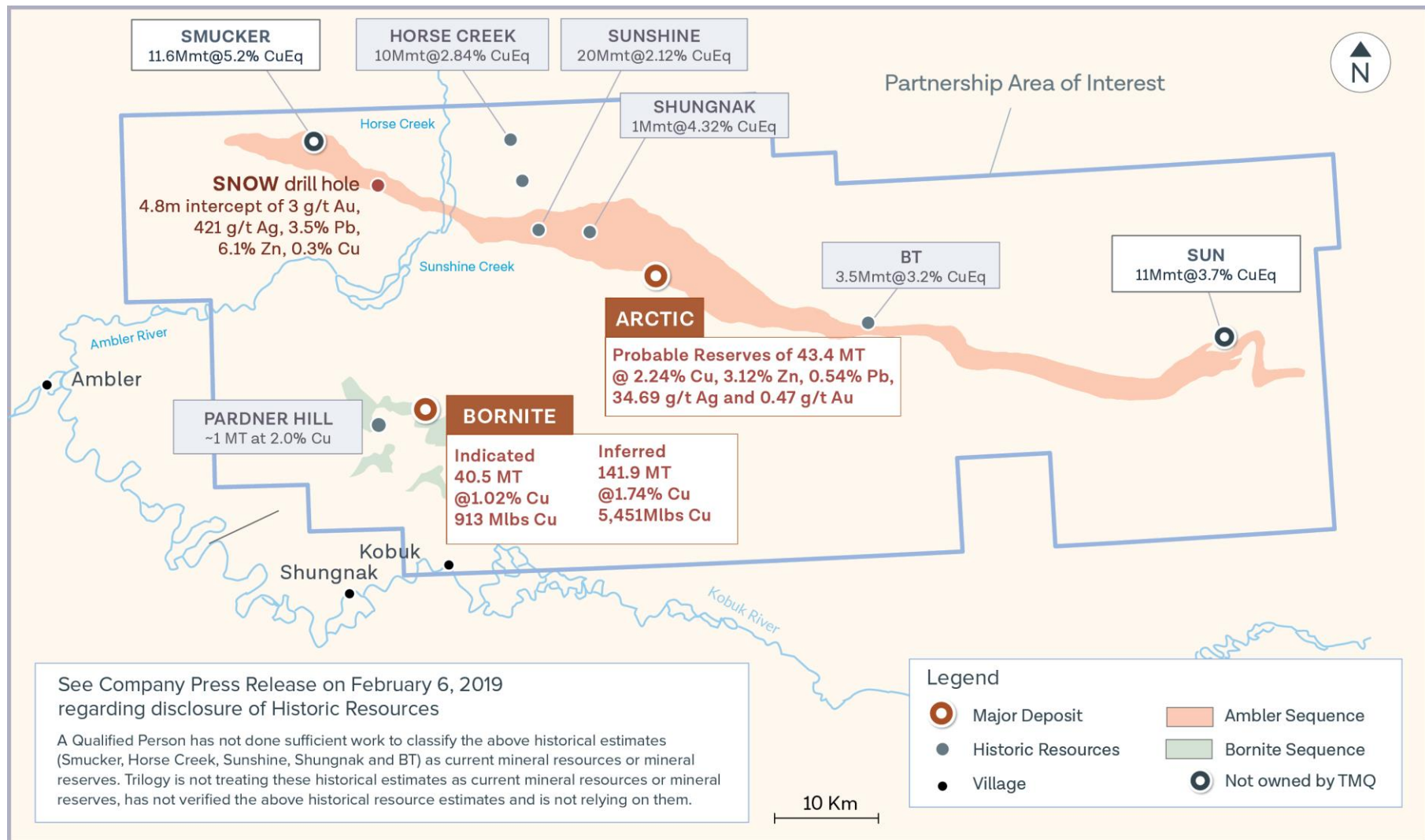
● **Water Discharge Permit**



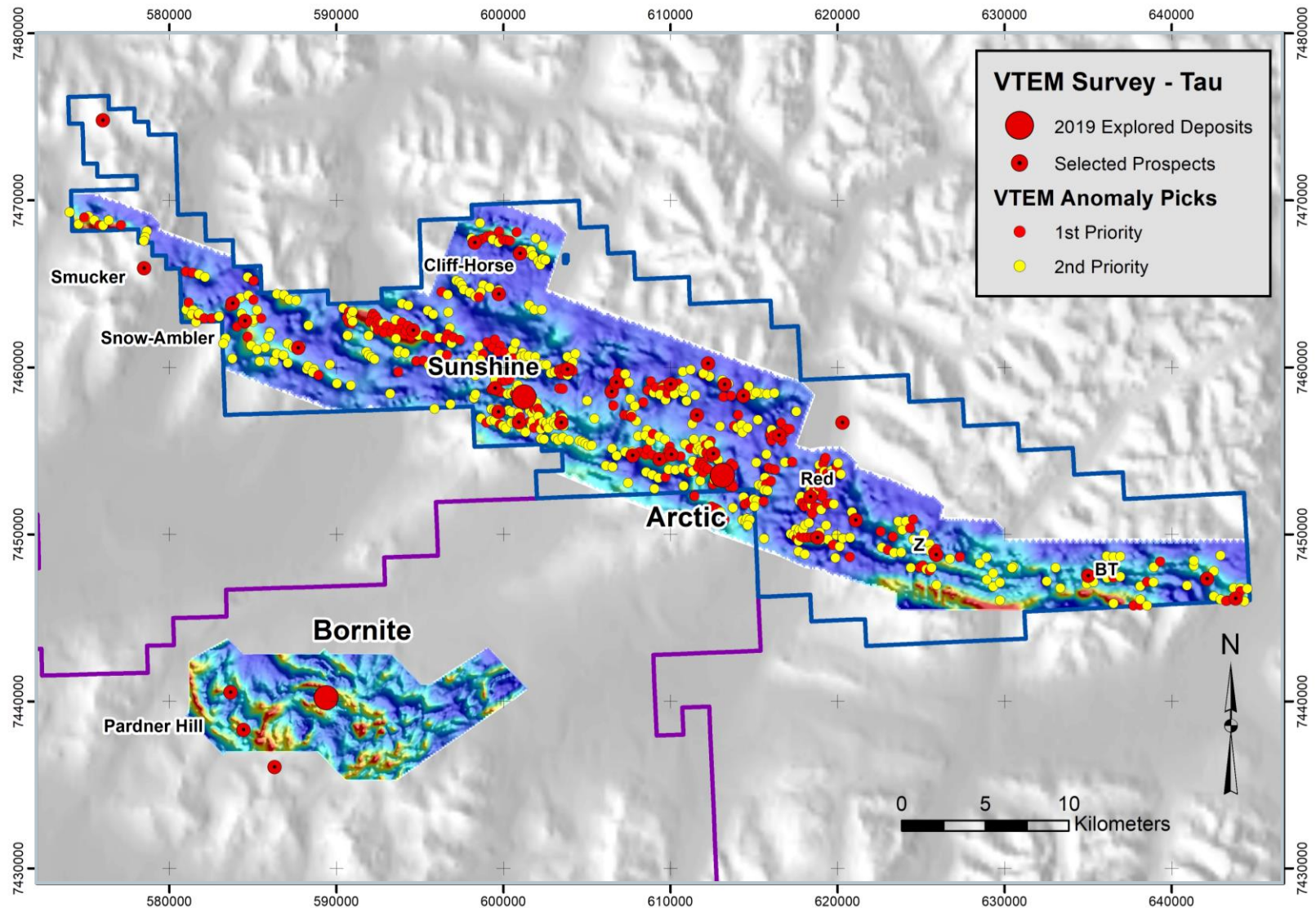


# DISTRICT EXPLORATION

## Pearls on a String

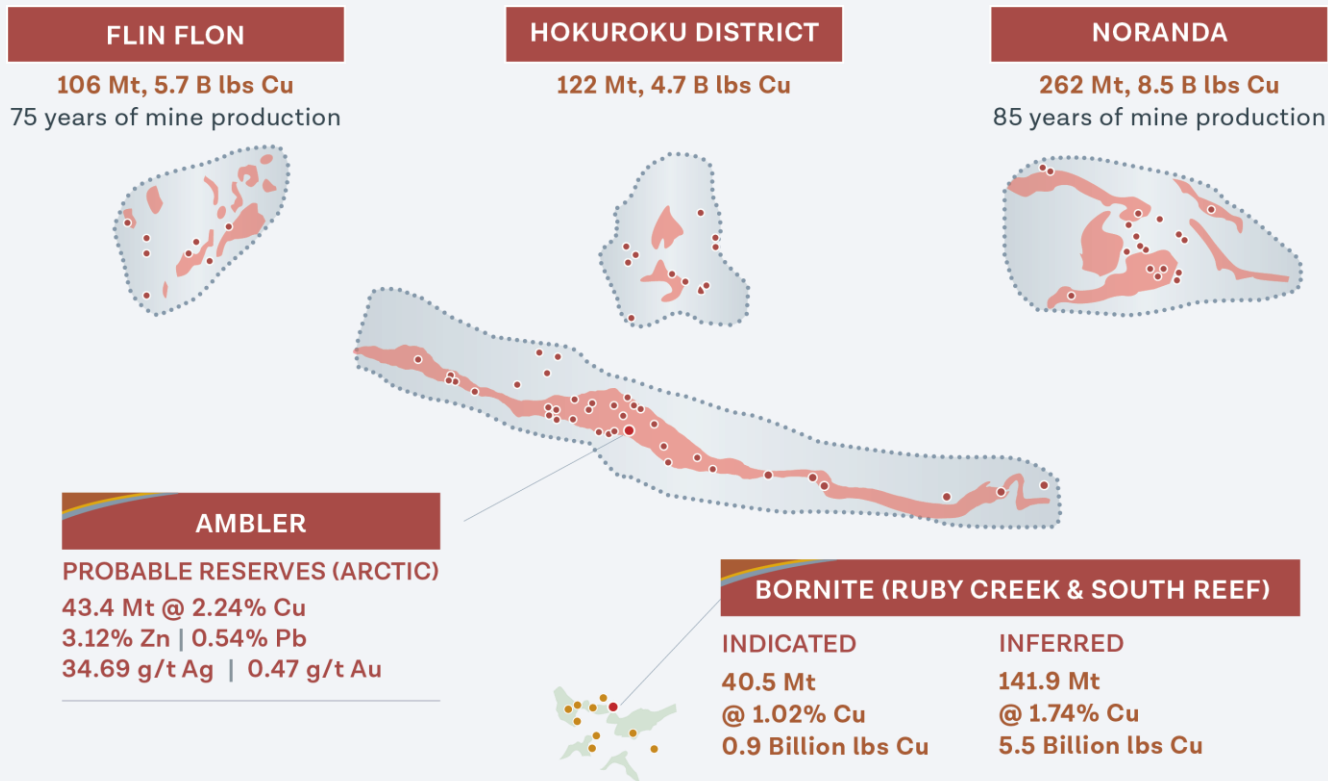


# NUMEROUS ELECTROMAGNETIC ANOMALIES



# COMPARISON OF THE AMBLER VMS BELT WITH OTHER KNOWN BELTS

## Multi-Billion Pound Copper VMS Districts of the World



--- Dashed lines represent area of influence of proximal-scale alteration about each deposit

Source: Franklin et al., 2005, Volcanic-associated massive sulphides, Econ.Geol., Data includes all type of reserves and resources (inferred, indicated and measured resources, proven and probable reserves.

20 Km



# UPCOMING CATALYSTS

## News Flow

- 🕒 H1 2021 – Optimization of Arctic Feasibility Study by Ambler Metals
- 🕒 H1 2021 – Engineering Finance Agreement with AIDEA on Ambler Road
- 🕒 H1 2021 – Commencement Summer Drilling Campaign – 14,600 m
- 🕒 H1/H2 2021 – Commencement of Permitting of Arctic Project







# TAIKUU!



TRUST | RESPECT | INTEGRITY

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