



**North Arrow**

MINERALS INC.

Experienced  
**NORTHERN EXPOSURE**  
to Lithium, Diamonds  
and Gold In Canada

PDAC 2023

## FORWARD-LOOKING INFORMATION

This presentation contains projections and forward-looking information that involve various risks and uncertainties, including, without limitation, statements regarding the potential extent of mineralization, resources, reserves, exploration results and plans and objectives of North Arrow Minerals Inc. These risks and uncertainties include, but are not restricted to, the amount of geological data available, the uncertain reliability of drilling results and geophysical and geological data and the interpretation thereof and the need for adequate financing for future exploration and development efforts. There can be no assurance that such statements will prove to be accurate. Actual results and future events could differ materially from those anticipated in such statements. These and all subsequent written and oral forward-looking statements are based on the estimates and opinions of management on the dates they are made and are expressly qualified in their entirety by this notice. The Company assumes no obligation to update forward looking statements should circumstances or management's estimates or opinions change.

QUALIFIED PERSON  
UNDER NI 43-101

Disclosure of a scientific or technical nature related to North Arrow's projects in this presentation has been reviewed and approved by Ken Armstrong, P.Geo. President and CEO of North Arrow and a Qualified Person under NI 43-101.



North Arrow is a Canadian company focused on the identification and evaluation of exploration opportunities in Canada.

North Arrow's multifaceted project portfolio includes a pipeline of lithium, diamond and gold projects ranging from greenfields to advanced stage.





**Canadian diamond sector's most active & successful explorer over the last 10 years ...now with lithium exposure**

**Lithium is not new to North Arrow:**

- ❖ Experience in exploration for spodumene lithium pegmatites

**Best in class Diamond exploration pipeline:**

- ❖ Diamond interest may be low, but the diamond business is healthiest it has been in years

**Strong Investor support:**

- ❖ ~138M shares outstanding & >60% held by insiders/key shareholders shows we can spend wisely with supportive shareholders



## Advanced Stage

Assessing a known diamond deposit

### 1. Naujaat (60%)

*Significant diamond inventory; High-value fancy orange-yellow diamonds*

## Discovery Stage

Next stage of diamond exploration could lead to discovery

### 2. Pikoo (100%)

*Kimberlite discovery – 2013-16*

### 3. Loki (100%)

*Kimberlite discovery - 2018*

### 4. LDGJV (~21%)

*Kimberlite discovery – 2019*

### 5. Mel (100%)

*Kimberlite discovery – 2017-18*

### 6. Luxx (100%)

## Grassroots

Target development

### 7. CSI (100%)

**Oro - Hope Bay (100%)**  
Gold project 3km north of Agnico Eagle's Doris Mine

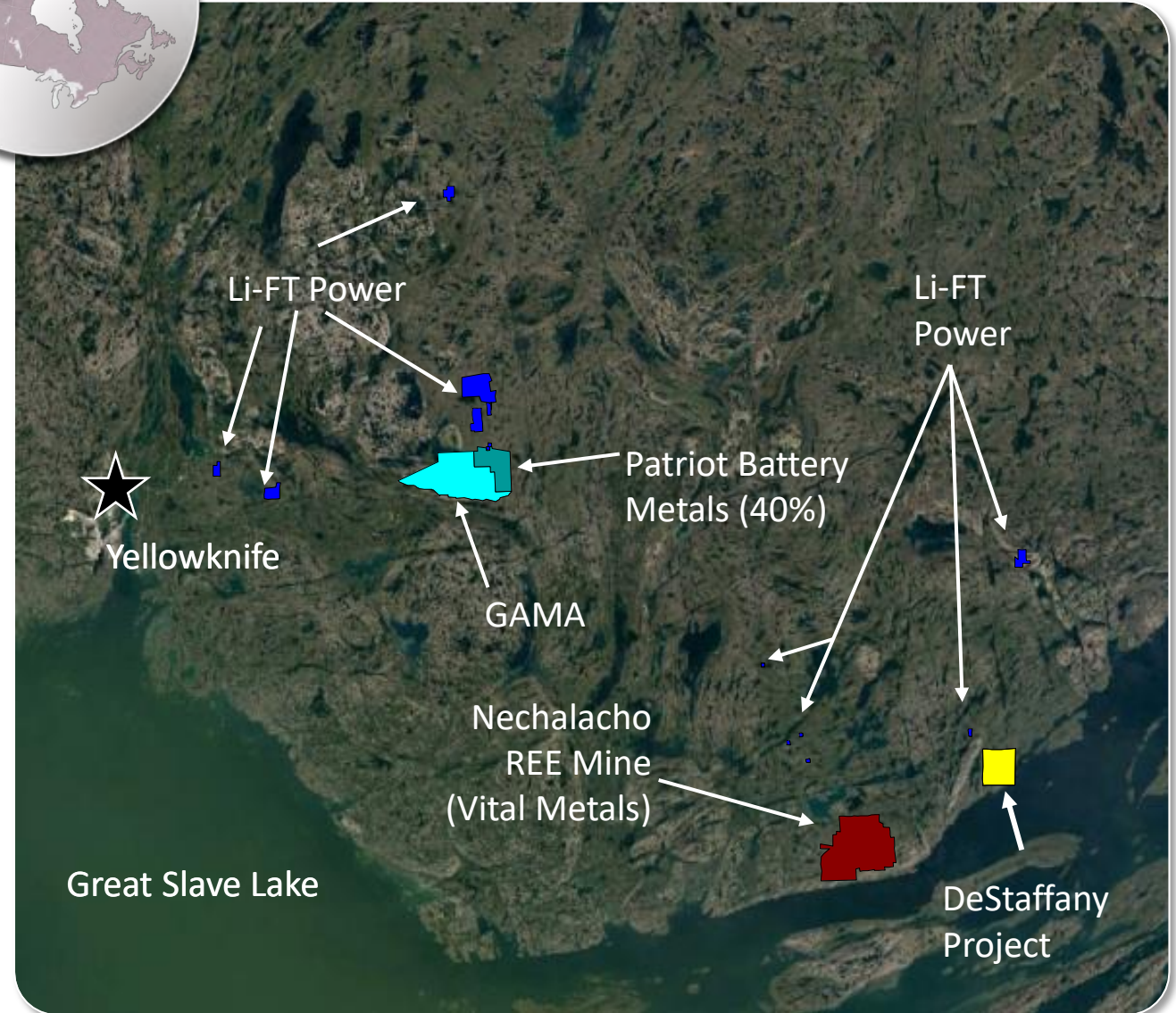
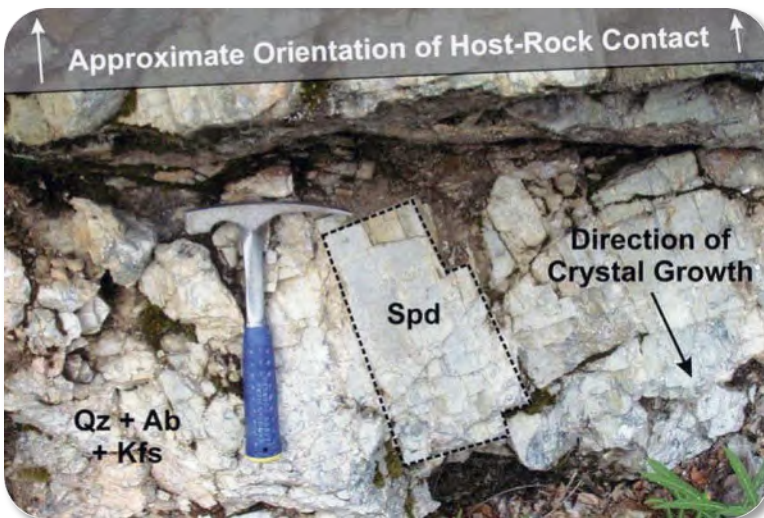
**DeStaffany (100%)**  
Spodumene lithium pegmatite project

**Bathurst Inlet (100%)**  
Grassroots lithium exploration project





- Yellowknife Pegmatite Province.
- 115 km East of Yellowknife.
- 18 km Northeast of Nechalacho REE Mine.
- Same geology, deposit type and location as Li-FT Power's Yellowknife Lithium Project.
- Acquired for cost of staking plus a royalty.
- Working with Panarc Resources to identify additional spodumene targets in NWT and NU.



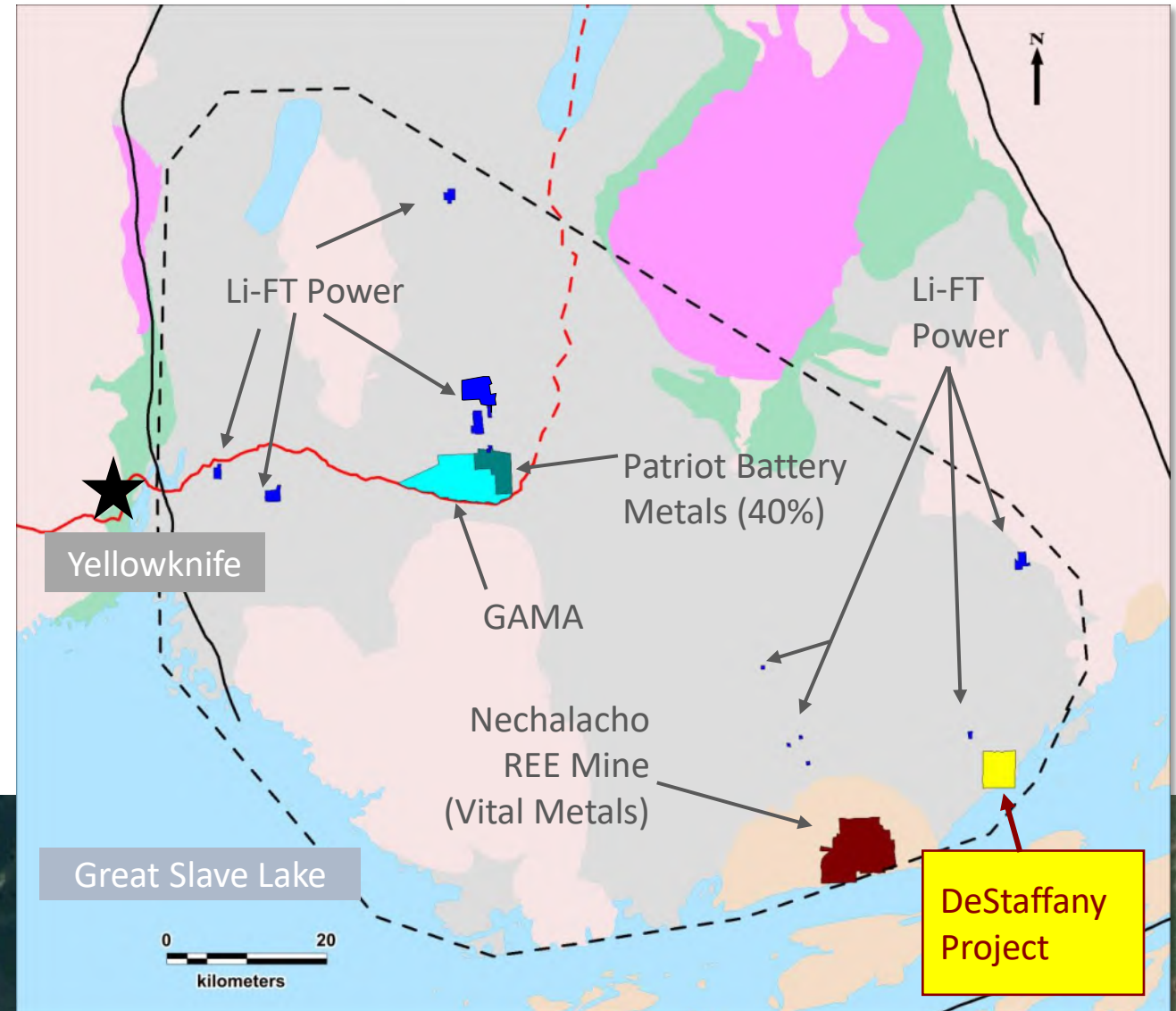


## North Arrow MINERALS INC.

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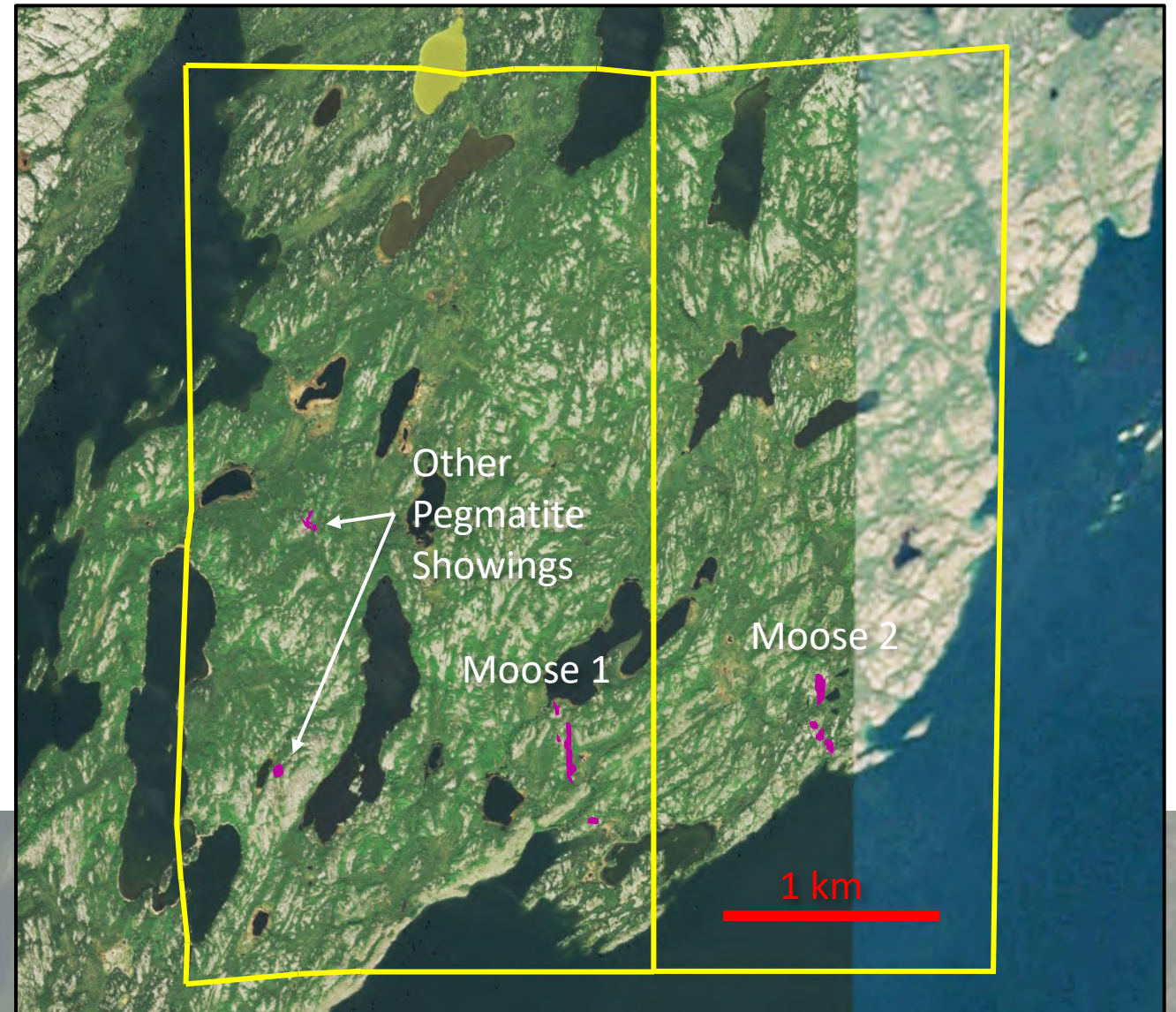
### LEGEND:

<span style="background-color: yellow; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> North Arrow - DeStaffany	<b>PROTEROZOIC</b>
<span style="background-color: blue; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> Li-FT Power	<span style="background-color: orange; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> Cover and intrusive rocks
<span style="background-color: cyan; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> Gama Explorations	<b>ARCHEAN</b>
<span style="background-color: darkteal; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> PMET / Youssa	<span style="background-color: pink; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> Plutonic rocks / partly >2.8Ga
<span style="background-color: darkred; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> Nechalacho REE Mine (Vital Metals)	<span style="background-color: lightgrey; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> Metasediments / migmatites
<span style="color: red;">—</span> Road	<span style="background-color: lightgreen; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> Volcanic and related intrusions
<span style="color: red;">- - -</span> Winter_Road	<span style="border-bottom: 1px dashed black; display: inline-block; width: 15px; height: 10px;"></span> Yellowknife Pegmatite Province
<span style="border-bottom: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> Fault	





- Two known spodumene pegmatites: Moose 1 and Moose 2.
- **Never evaluated for lithium.**
- Both within several hundred metres of Great Slave Lake.
- Excellent access to Yellowknife to the west and Hay River (and rail head) on south side of the Lake.
- Additional pegmatites provide upside for new discoveries through mapping & prospecting in 2023.

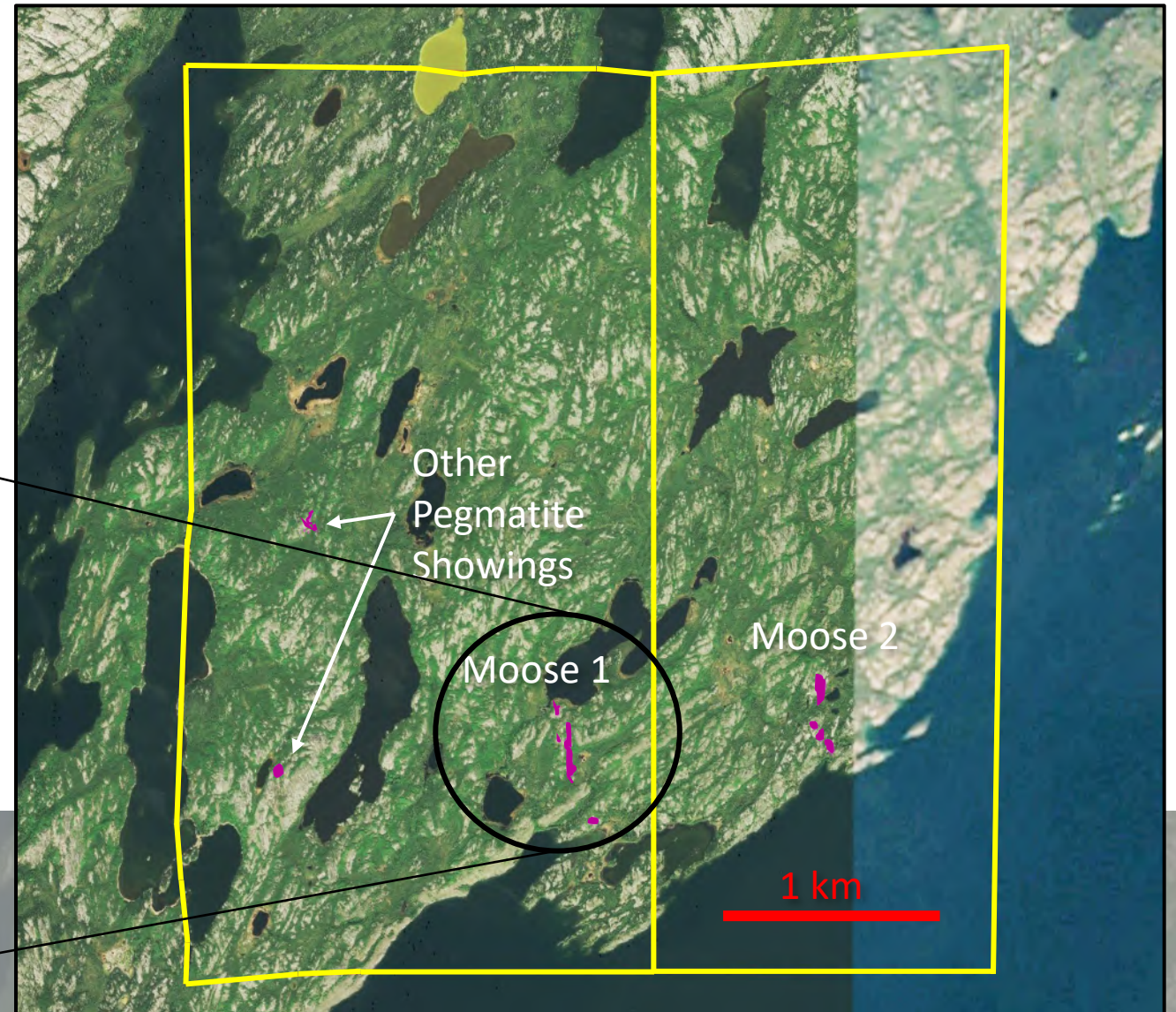
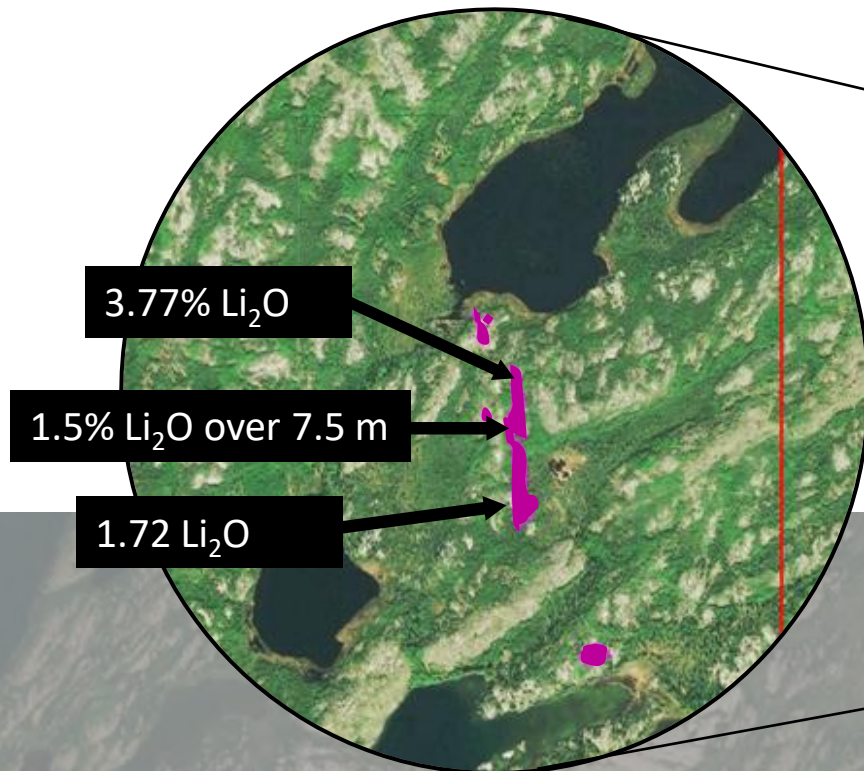






## North Arrow

- Never drilled; 370m strike length.
- Averages 4.5 to 6m in width; max width ~11m.
- Spodumene mineralization returned 1.5%  $\text{Li}_2\text{O}$  over 7.5m from 2009 channel sample.
- 2023: mapping, sampling, drilling.





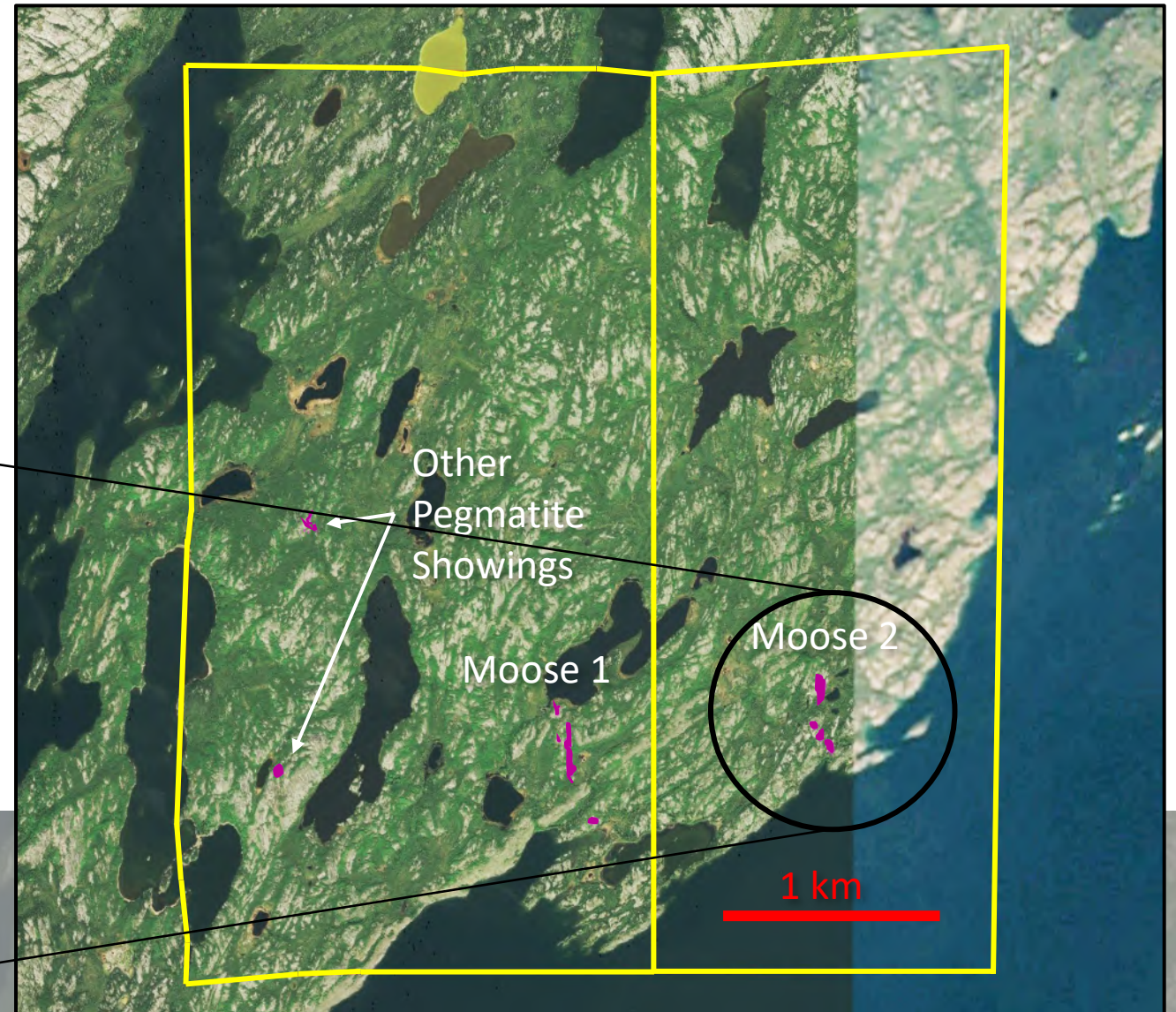
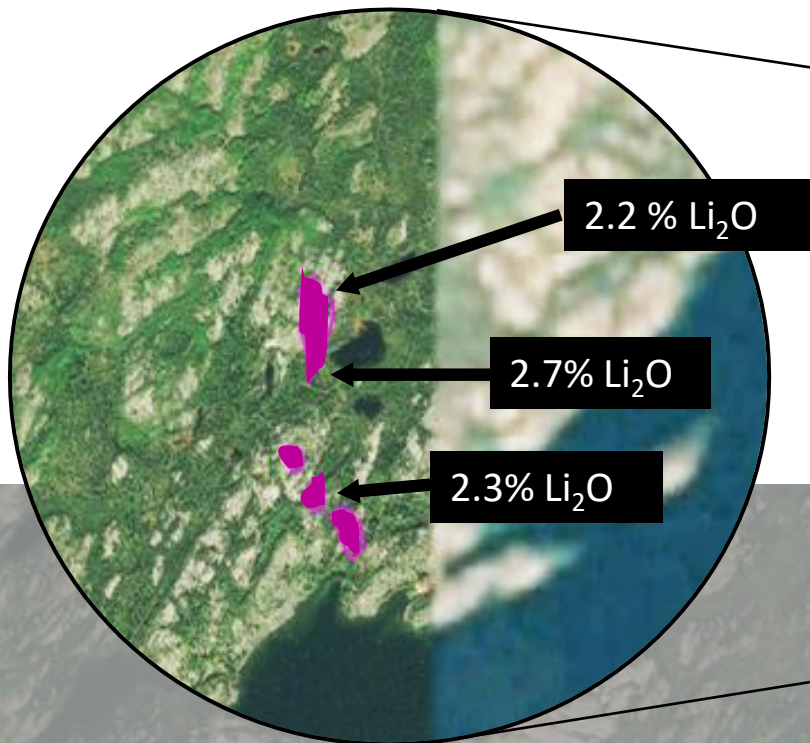


# MOOSE 2 PEGMATITE

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- 450m strike length; up to 30m wide.
- Bulk sampled for Ta and Nb in the 40's and 50's.
- Up to 2.73%  $\text{Li}_2\text{O}$  returned from samples along at least 250 m strike length of the body.
- 2023: mapping, sampling, drilling.

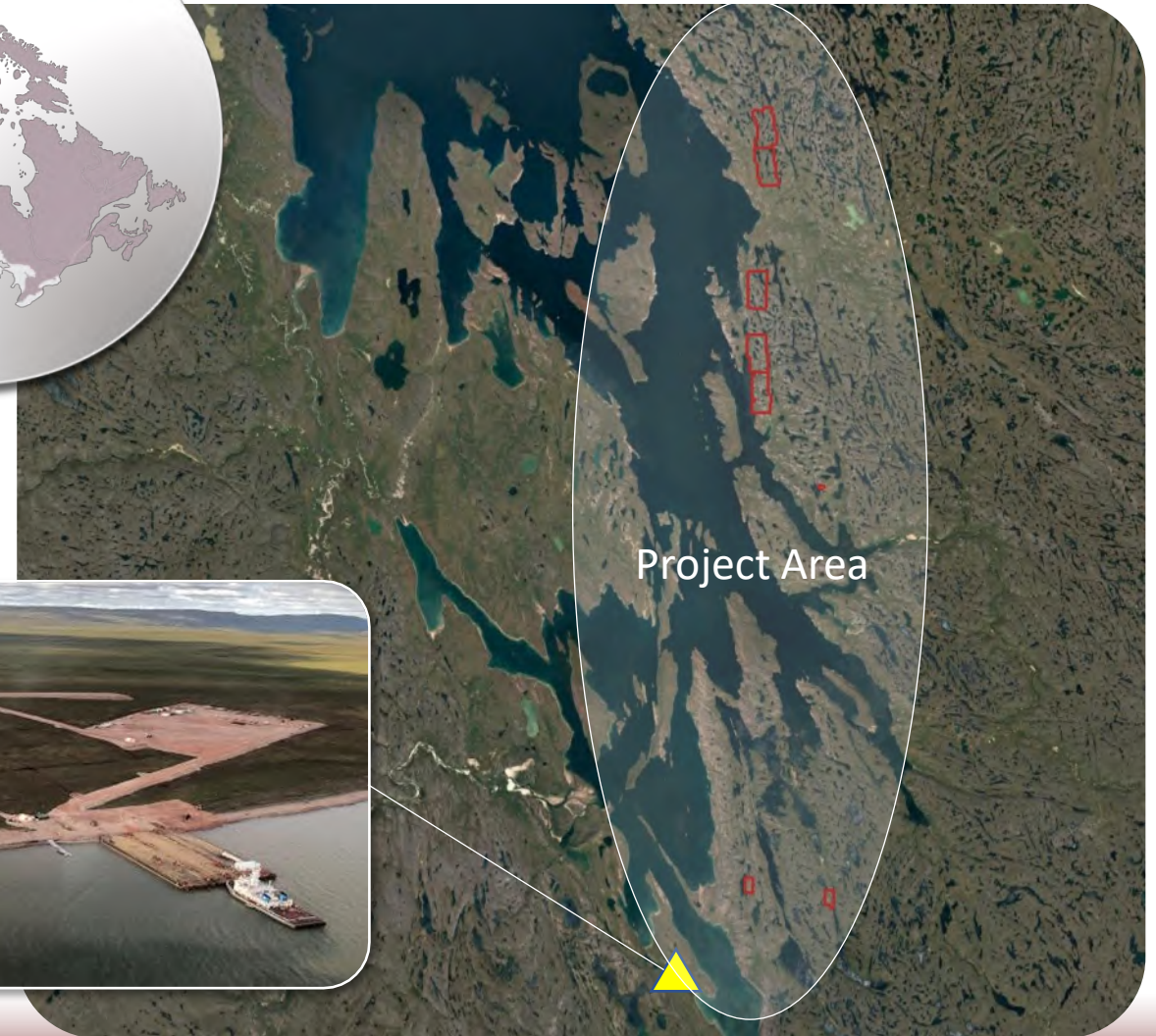




- Part of strategic work with Panarc to identify and acquire lithium pegmatite opportunities in the NWT and NU.
- Pegmatites have been known to occur in the Bathurst Inlet area for many decades.
- Yet to be assessed for spodumene and related lithium mineralization.
- The southernmost mineral claim lies within 12 km of Sabina Gold and Silver's port facility.



Sabina Gold  
and Silver's  
port facility

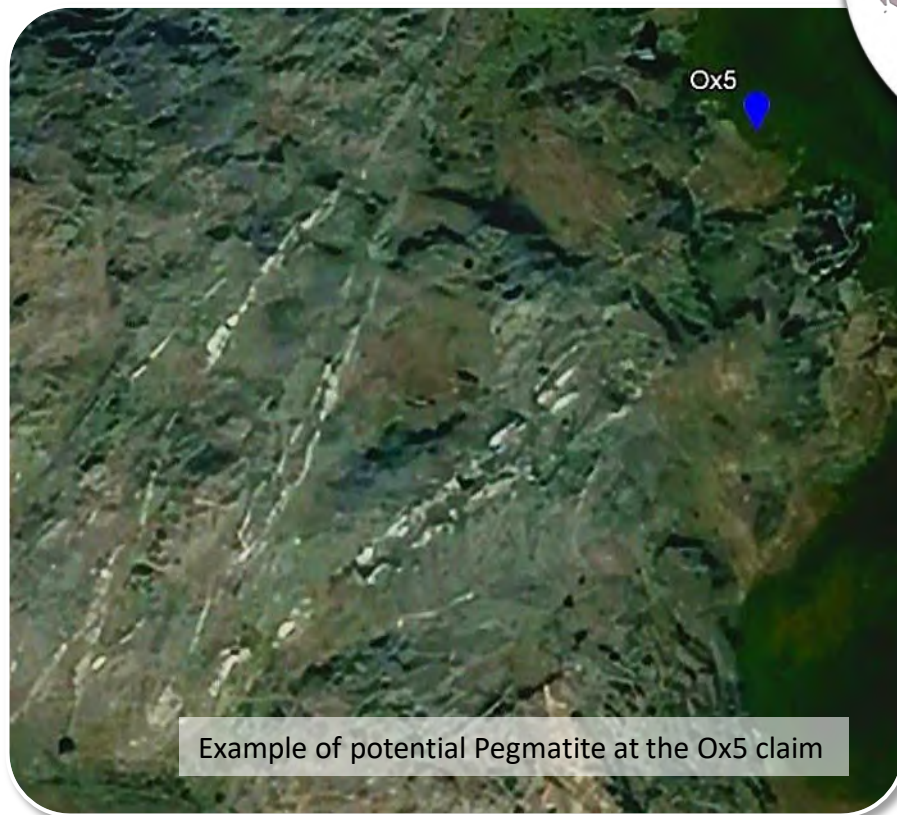




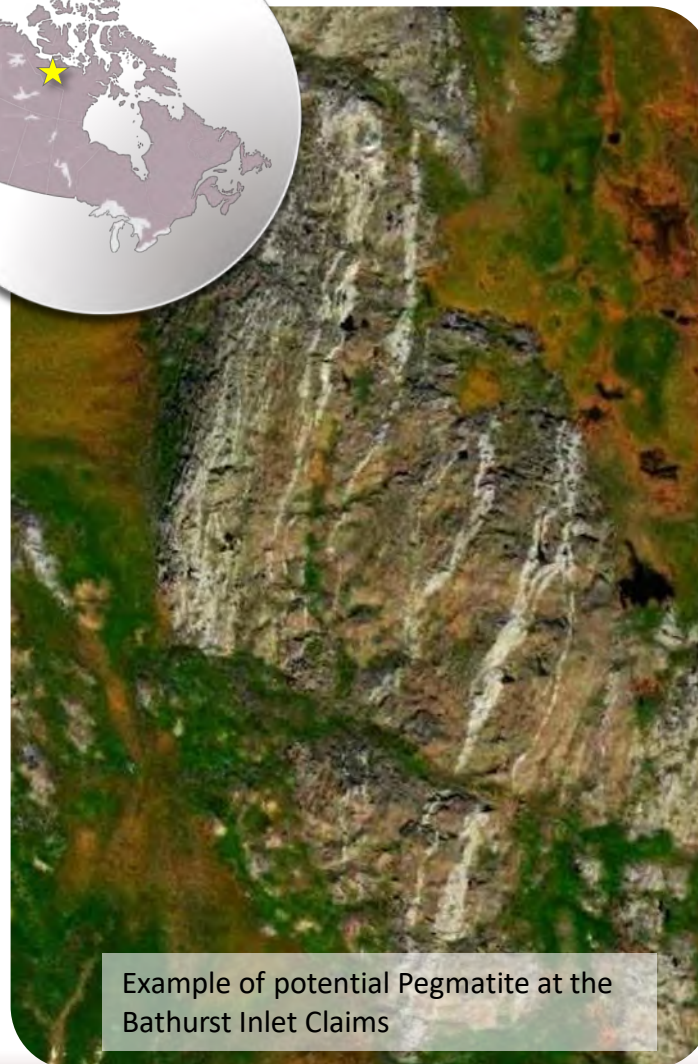


# BATHURST INLET LITHIUM PROPERTY, NU

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Example of potential Pegmatite at the Ox5 claim



Example of potential Pegmatite at the  
Bathurst Inlet Claims

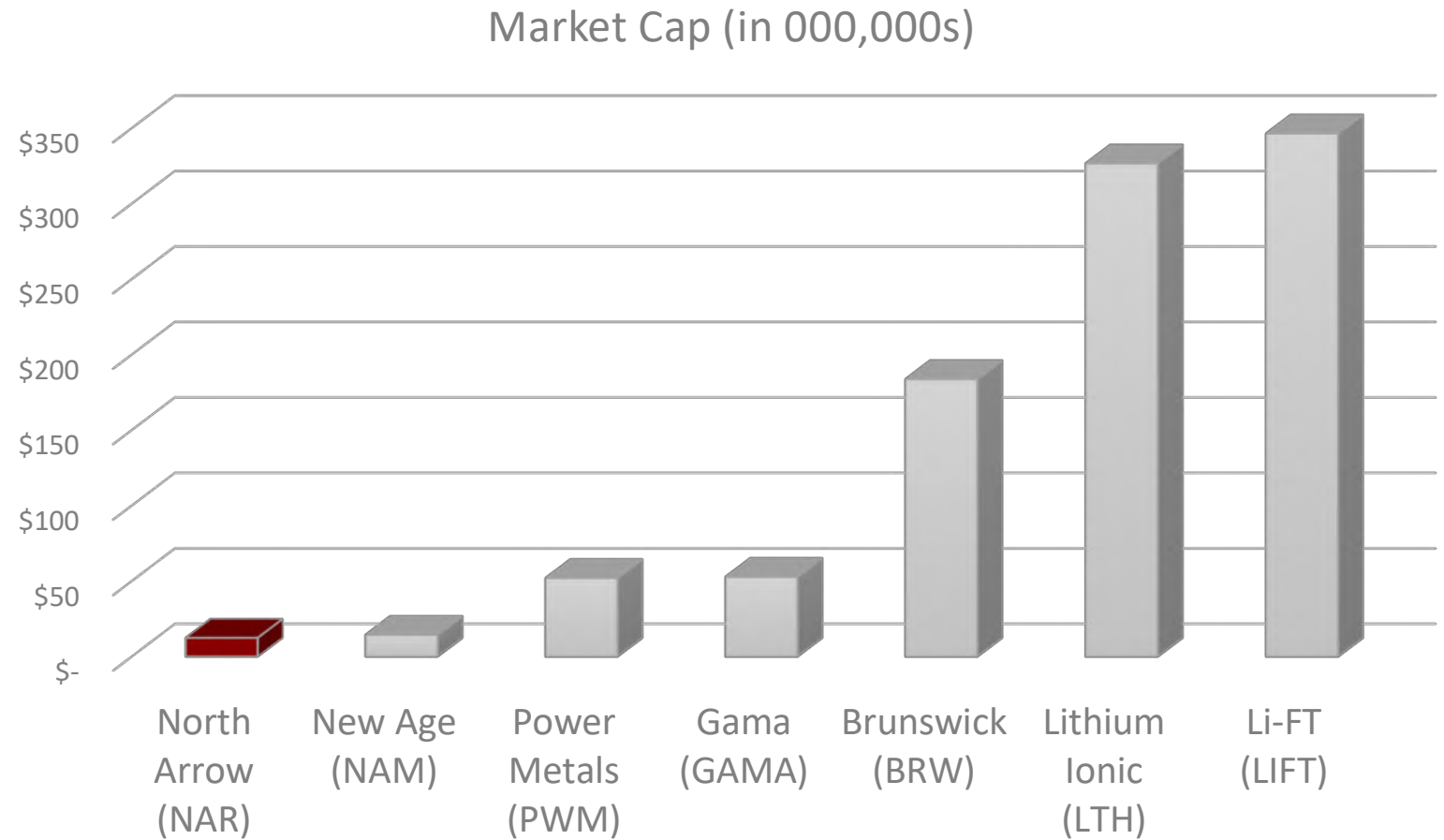


Example of potential  
Pegmatite at the Ox3  
claim.



## COMPANY SELECTION CRITERIA

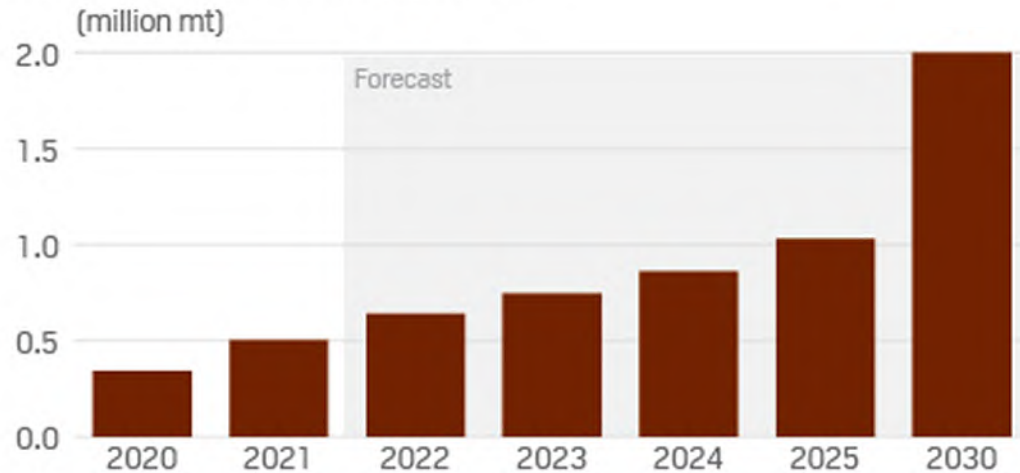
- No defined resources yet
- Hard rock lithium exploration projects
- Exploring in Canada





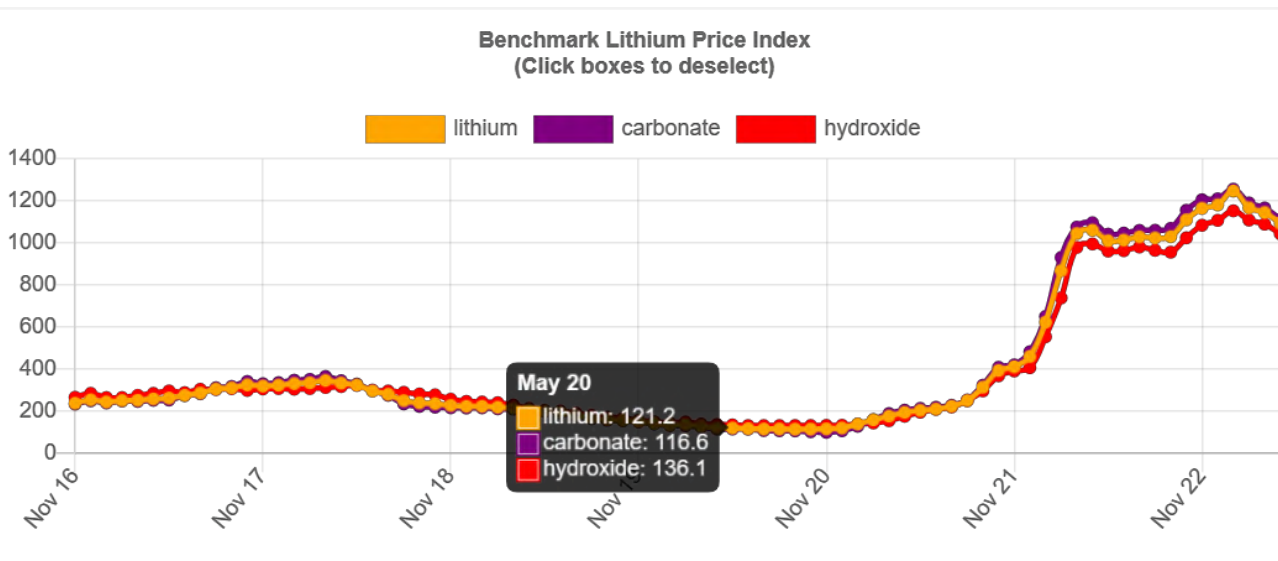
# PREDICTED LITHIUM DEFICIT

## LITHIUM DEMAND FORECAST



Even if all lithium projects expected to be online by 2030 are perfectly executed, there is still a 220,000 mt gap to the 2 million mt in demand expected in 2030.

## FUTURE LITHIUM DEMAND BY 2030



## LITHIUM PRODUCTS AND ASSETS

### Assets



### End-products



Hard-rock assets will keep accounting for most of the lithium output in the future, but all production routes—even those which have never operated at a commercial scale—will be necessary to mitigate the increasing supply deficit. Within the product base, there will be limited integrated hydroxide capacity, meaning converters will keep playing an essential role in the future.

Images and text (other than Li Price index graph) from infographic developed and designed by Henrique Ribeiro and Melenie Yuen for S&P Global, January 2022



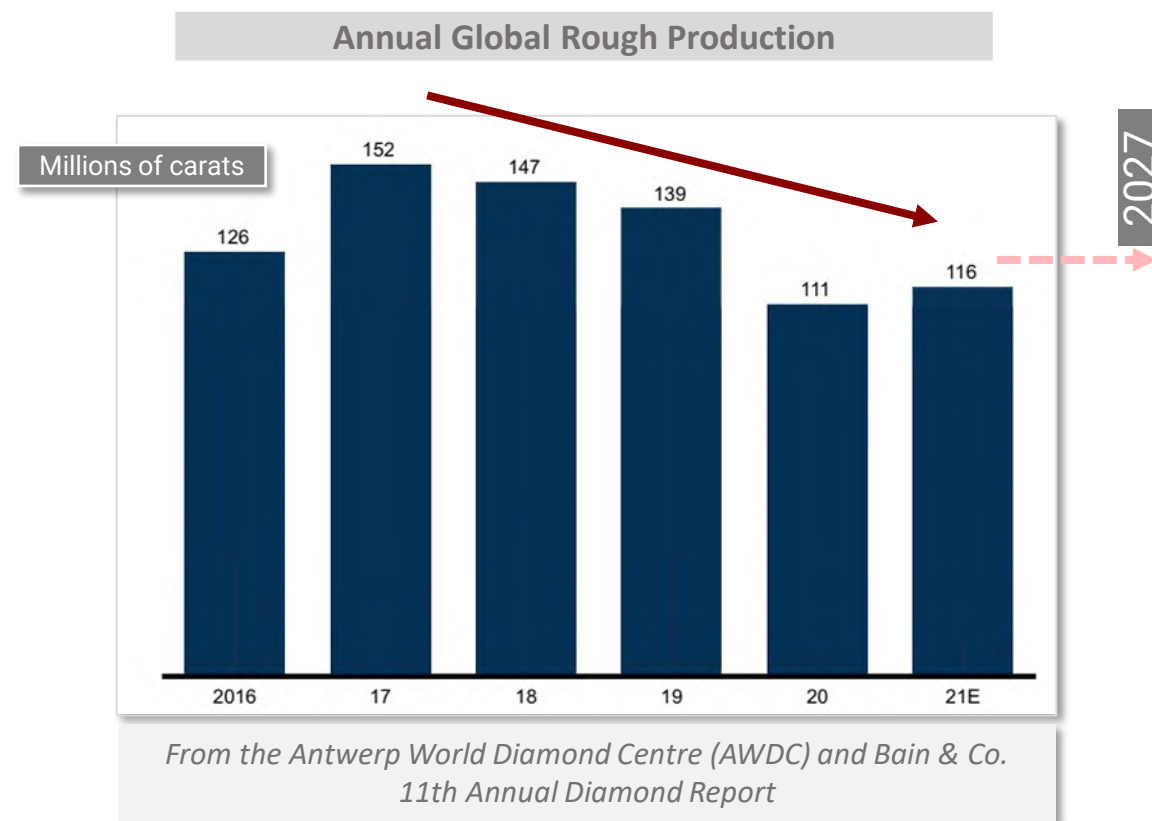
# CONSIDER DIAMONDS – Decreasing Supply / Increasing Demand

## Rough Diamond Production

- ❖ Global rough diamond production down >20% since 2017; expected to flatline to at least 2027
- ❖ Very few new projects being developed worldwide
- ❖ Exploration for new deposits at lowest level in over 30 years

## Jewelry sales outperformed most commodities during and after the pandemic

- ❖ 2021: post-pandemic diamond sector bounce back was stellar in all segments of the diamond pipeline
- ❖ US jewelry sales (50% of market) up ~50% in 2021; continued to perform well in 2022



“LVMH, the world’s largest luxury company and parent of Tiffany & Co., saw company-wide sales grow 13% year-over-year in Q4 2022 –as a category, “Watches and Jewelry” were up 7% in the period; ...a second consecutive year of record sales, (US\$86 billion), for the company.”

*Paul Zimnisky, State of the Diamond Market, Feb. 2023*



# POLISHED MARKET POSITIVITY: US JEWELRY SALES

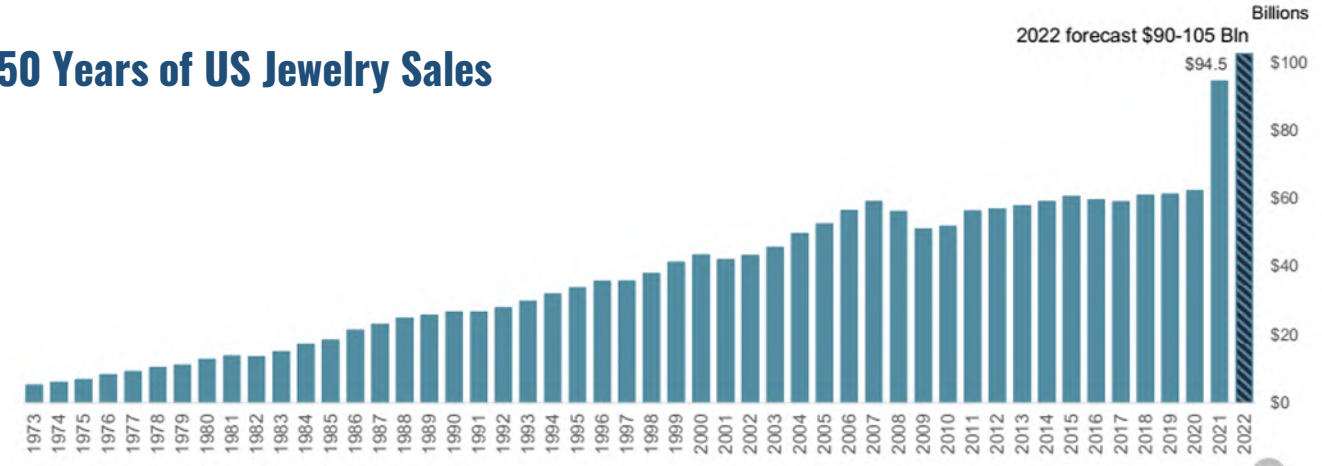
## US Jewelry Sales Rebound and Soar in 2021, Stabilize in 2022



Source: US Dept. of Commerce, Edahn Golan analysis

EdahnGolan.com EG

## 50 Years of US Jewelry Sales



Source: US Dept. of Commerce, Edahn Golan Diamond Research & Data Ltd.

EdahnGolan.com EG

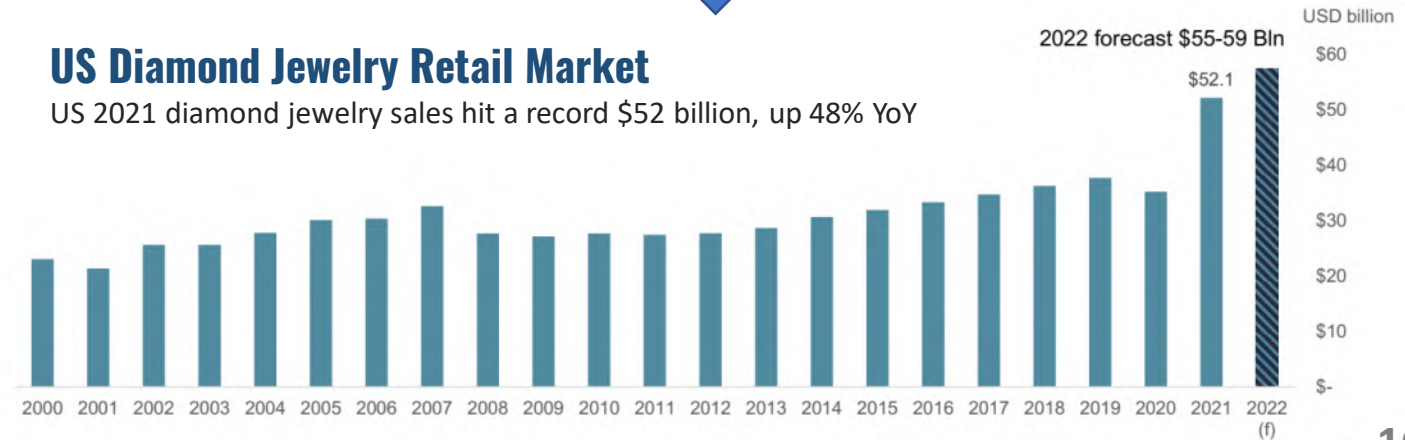


The US accounts for ~50% of polished diamond sales worldwide.

As of September 2022

## US Diamond Jewelry Retail Market

US 2021 diamond jewelry sales hit a record \$52 billion, up 48% YoY



Source: De Beers, Edahn Golan

EdahnGolan.com

EG

Graph Information on this slide has been provided by Edahn Golan.

Mr. Golan is a Veteran of the diamond industry, researching & writing about it since 2001



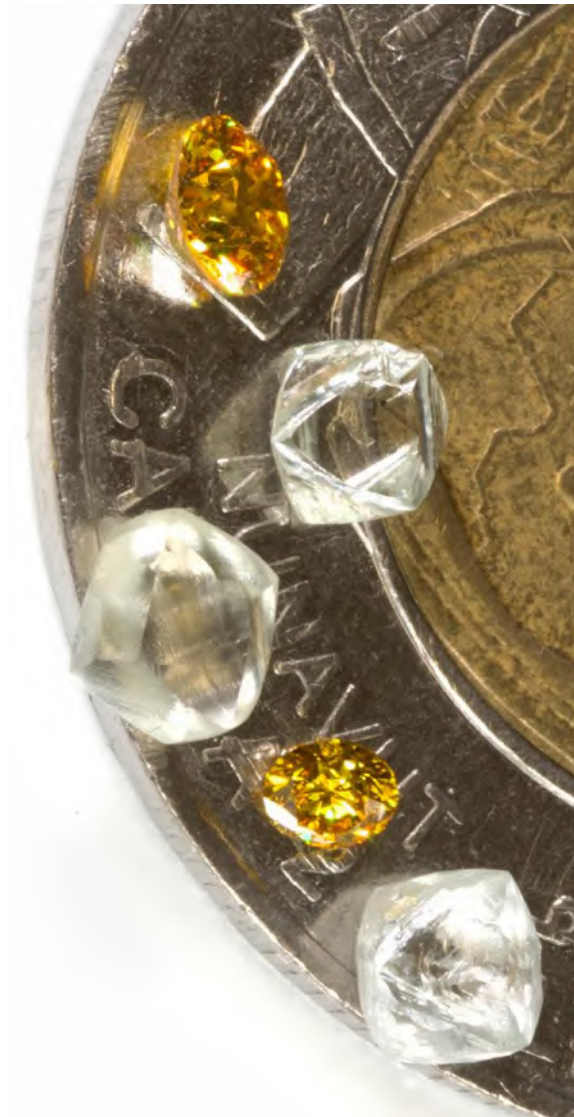


## Advanced Stage

*Assessing a known diamond deposit*

### **Naujaat (60%)**

*Significant diamond inventory; high-value fancy orange-yellow diamonds*







**North Arrow**  
MINERALS INC.

# POLISHING RESULTS



*0.31 ct polished rectangular radiant cut*



**~38%  
Yield**

*0.57 ct rough*



*0.21 ct polished rectangular radiant cut*





# NAUJAAT – CLOSE TO THE COMMUNITY



Image view: Q1-4 kimberlite looking southwest towards the Hamlet of Naujaat, 9 km away





# NAUJAAT – CLOSE TO THE COMMUNITY

## Two-time winner of the Nunavut Mining Symposium Corporate Award:

*"To recognize the contribution of a mining, exploration, or related company to the economic/social development of a community, region or Nunavut in general."*

2018



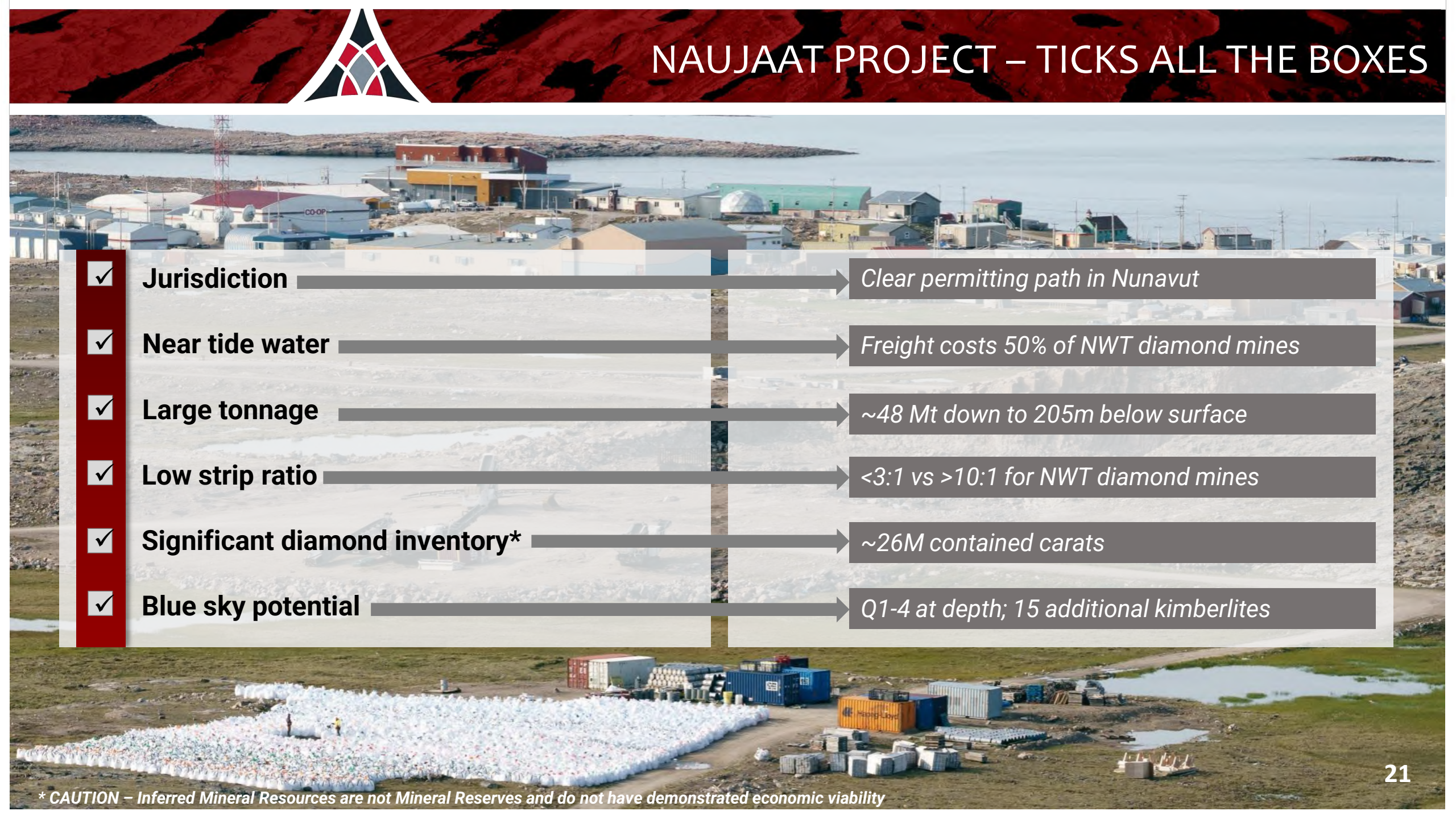
2022







# NAUJAAT PROJECT – TICKS ALL THE BOXES

- 
- |   |  |
|---|--|
| ✓ <b>Jurisdiction</b>                   | → Clear permitting path in Nunavut         |
| ✓ <b>Near tide water</b>                | → Freight costs 50% of NWT diamond mines   |
| ✓ <b>Large tonnage</b>                  | → ~48 Mt down to 205m below surface        |
| ✓ <b>Low strip ratio</b>                | → <3:1 vs >10:1 for NWT diamond mines      |
| ✓ <b>Significant diamond inventory*</b> | → ~26M contained carats                    |
| ✓ <b>Blue sky potential</b>             | → Q1-4 at depth; 15 additional kimberlites |

\* CAUTION – Inferred Mineral Resources are not Mineral Reserves and do not have demonstrated economic viability





# PIKOO DIAMOND PROJECT, SK

## North Arrow

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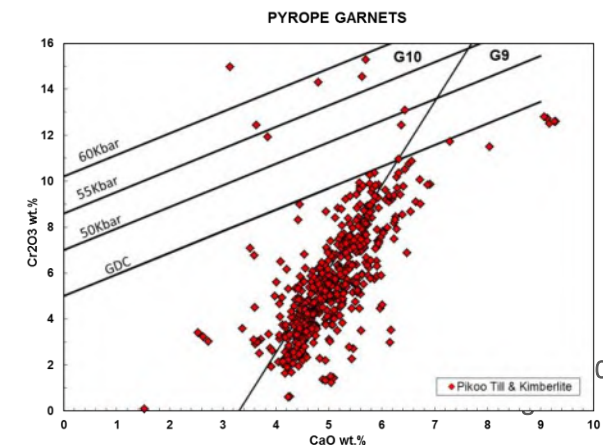
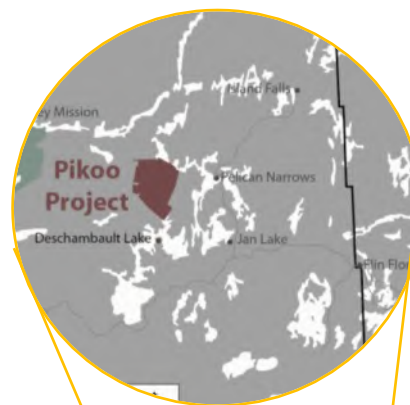
Discovery Stage

*Excellent diamond potential*

**Pikoo (100%)**

*Next stage of diamond exploration  
could lead to discovery*

- Kimberlite field discovered by North Arrow
- Good local infrastructure
- PK150 – significant discovery: 1,232 diamonds > 0.106 mm from 531 kg
- 10 kimberlites discovered; 5 diamondiferous
- Applied Deep Machine Learning in 2022
- Permitted for geophysics and drilling
- More kimberlite discoveries to be made







# LOKI DIAMOND PROJECT, NWT

## North Arrow

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Discovery Stage

*Excellent diamond potential*

### Loki (100%)

*Next stage of diamond exploration  
could lead to discovery*

- Brownfields exploration near Ekati and Diavik diamond mines; lower threshold for economic discovery
- Last well defined, unsourced, KIM train at Lac de Gras
- Ground geophysics spring 2023
- Potential use of DML to identify additional targets



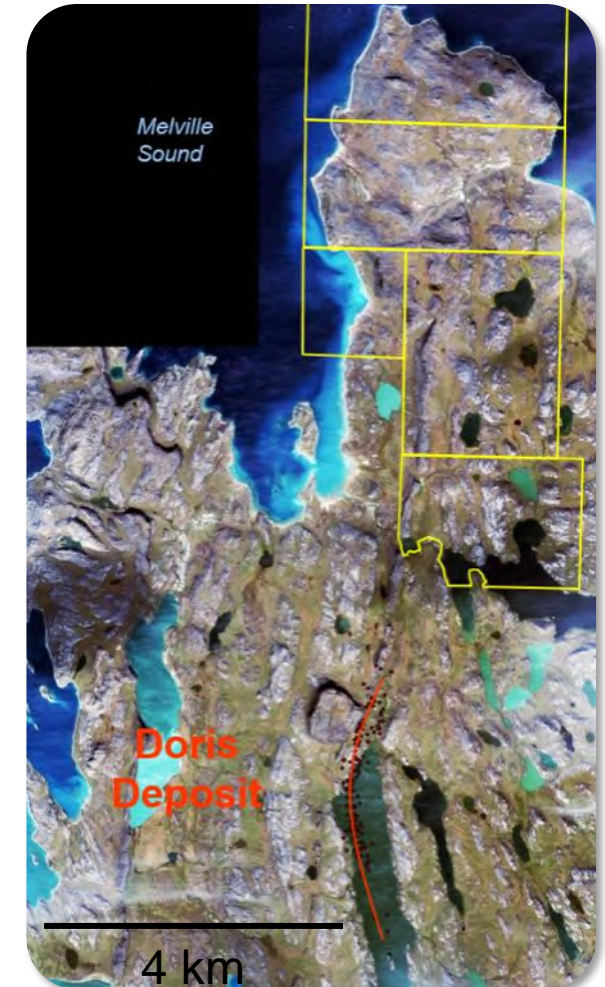


Brownfields Gold

## Hope Bay Oro (100%)

- ~3km north of Agnico Eagle's Doris Gold Mine.
- Host stratigraphy to the Doris deposit extends north onto ORO property.
- Multiple showings including Ida Point – 5.48 g/t over 5.96 m; 8.0 g/t over 4.2m.
- **Pursuing potential option/JV arrangement with third party.**

- ✓ Same rocks
- ✓ Same structural setting
- ✓ Same mineralization style







# MLESTONES & CATALYSTS FOR 2023

**North Arrow**  
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Lithium

Advanced  
Diamonds

Discovery  
Diamonds

Brownfields  
Gold

Project	Milestones / Catalysts	Details
<b>Corporate</b>	Technical Arrangement	Technical arrangement with potential to bring value to NAR's projects
DeStaffany, NT	Potential for expansion & new discovery	Stakeholder / Community engagement & permitting Mapping, sampling, prospecting; follow up drilling
Lithium Pegmatites	New lithium project announcements	Continued evaluation additional lithium opportunities in northern Canada – Bathurst Inlet Property
Naujaat, NU	Q1-4 diamond evaluation	GIA Colour certification; Permitting future bulk sample
Loki & LDG, NU	Target generation in brownfields Loki & LDG	Ground geophysics at Loki Reassessment of exploration data potentially using DML
Pikoo, SK	Pikoo sample results	Fall 2022 till sample results; follow up geophysics/drilling
Hope Bay, NU	JV Partnership	Announcement of earn-in partnership





## North Arrow

### WEALTH OF EXPERIENCE

**D. Grenville Thomas (Chairman)** Founder of Aber Resources, discoverer of the Diavik Diamond Mine, Nechalacho Rare Earth Deposit; Canadian Mining Hall of Fame inductee.

**Ken Armstrong P.Geo. (President, CEO, Director and Qualified Person under NI 43-101)** Diamond exploration & evaluation experience w/ Diavik, Aber, De Beers, Navigator, and Stornoway.

**Christopher Jennings (Director)** Founder of SouthernEra, consultant to Aber; formerly with International Corona, BP Minerals (Canada) and Falconbridge.

**Blair Murdoch (Director)** More than thirty years experience in senior management of private and public companies.

**Torrie Chartier (Director)** Currently CFO of Uravan Minerals; 20+ years of experience as a diamond exploration geologist.

**Eira M. Thomas (Advisor)** Extensive diamond exploration and development experience in Canada and Africa; Founder, CEO & director of Lucara; current director of Suncor; former officer & director of Aber and Kaminak.

**Robin Hopkins (Advisor)** 25+ years diamond exploration, evaluation and development experience with Stornoway, Navigator, and Aber.

**Allison Rippin Armstrong (Advisor)** 20+ years CSR & ESG experience; Ex-Kaminak Gold.

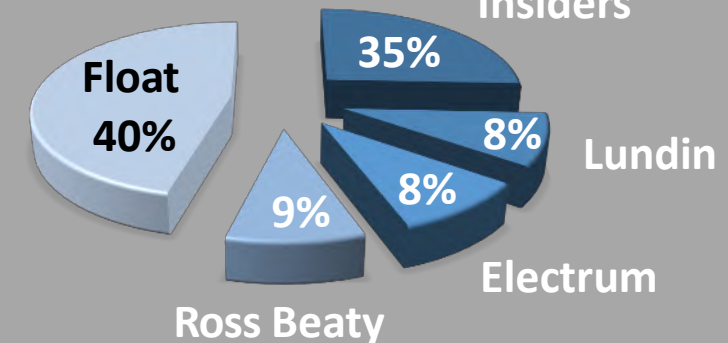


## Investing in...

- ❖ **A Highly Experienced Team with a Pipeline of Projects in Lithium, Diamonds and Gold**
- ❖ **Near term Lithium news flow**
- ❖ **Advanced Stage Diamond Project with Value Upside**
- ❖ **A Company Positioned for both Strong Market Demand for Lithium and a Looming Global Shortage of Rough Diamonds**

TSXV: NAR	As of February 1, 2023 unless otherwise labelled
Share Price	\$0.09 (as of Feb. 8, 2022)
Market Cap	\$12.4 M
Issued	137.6 M
Options	9.2 M
Warrants	40.2 M <small>(1 M @ \$0.12, 34.6 M @ \$0.10, 4.6 M @ \$0.18)</small>
Fully Diluted	187.0 M

## MAIN SHAREHOLDERS



\*Approximate due to rounding





**Ken Armstrong**  
*President & CEO*

**Nick Thomas**  
*Community and Investor  
Relations Manager*



**North Arrow**  
MINERALS INC.

**TSXV: NAR**

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**TSXV: NAR**

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