

ASX: NVA | OTCQB: NVAAF | FSE: QM3

www.novaminerals.com.au



Investor Presentation

**Unlocking Value for
Shareholders**

October 2021



Introduction to Nova Minerals

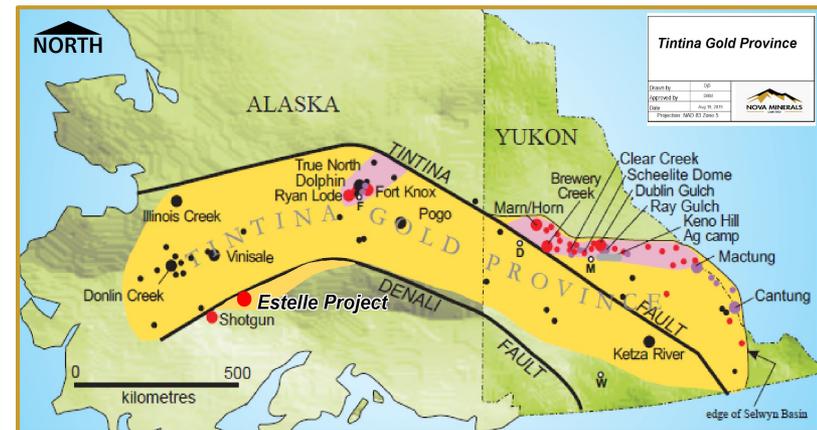
- **One of the fastest growing Gold resources globally - Unlocking a district**
 - **4.7Moz Au Inferred Resource¹** at the Korbel Main Deposit
 - Massive upside remains within the Korbel Valley
 - RPM discovery of **400m @ 3.5g/t Includes 132m @ 10.1g/t²**
 - Korbel resource upgrade and RPM Maiden Resource in Q4 2021

- **Leverage in the emerging gold bull market**
- **Majority holder of Snow Lake Resources³ (Thompson Brothers Lithium Project)**
- **9.9% shareholder in innovative RotorX eVTOL and helicopter manufacturer**
- **11.65% holder of Torian Resources (ASX:TNR)**

1. See NVA ASX announcement on 6 April 2021 for further details
2. See NVA ASX announcement on 11 October 2021
3. See NVA ASX announcement on 2 August 2021 for further details
4. More investments on Slides 27-33

Our Objective

Nova Minerals' Gold deposit and endowment is one of the world's largest and fastest developing. The Thompson Brothers Lithium project is also on track to expand and move into development phase. Our projects are located in Canada and the United States. Our objective is to grow resource and reserve ownership per share. Our risk-reducing strategy: expand through exploration; move resources to reserves through engineering; secure environmental approvals and progress to mine construction and operation.



Tintina Gold Belt:

>200 Mozs Au documented endowment
 Untold Mozs Au placer production
 Intrusion Related Au (IRGS) elephant country

Visualising The Estelle Gold District - Unlocked!

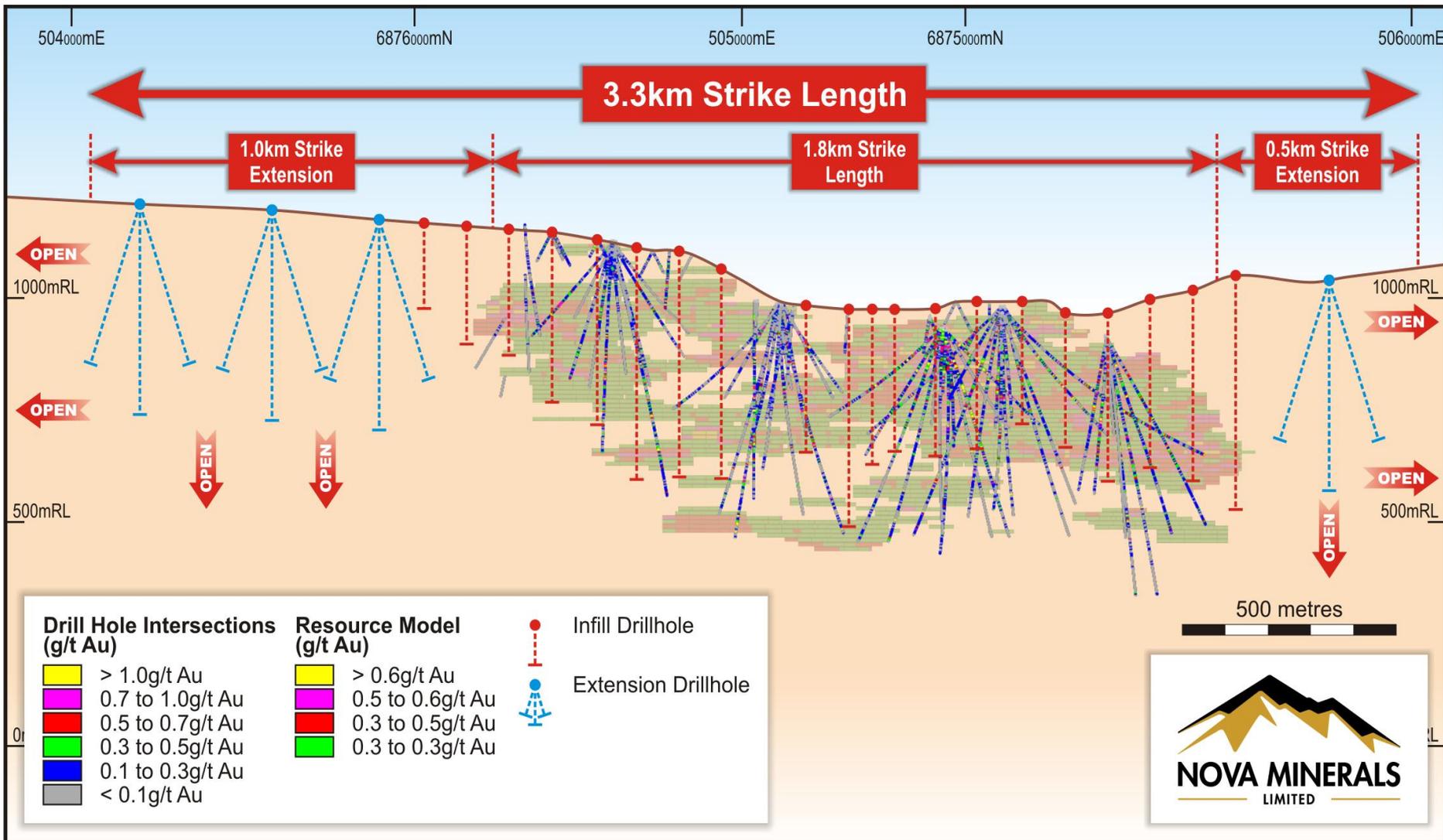
Located 100 miles from a major US city and port



4 of 15 known prospects outlined above- a visual depiction of the Estelle Gold District unlocked

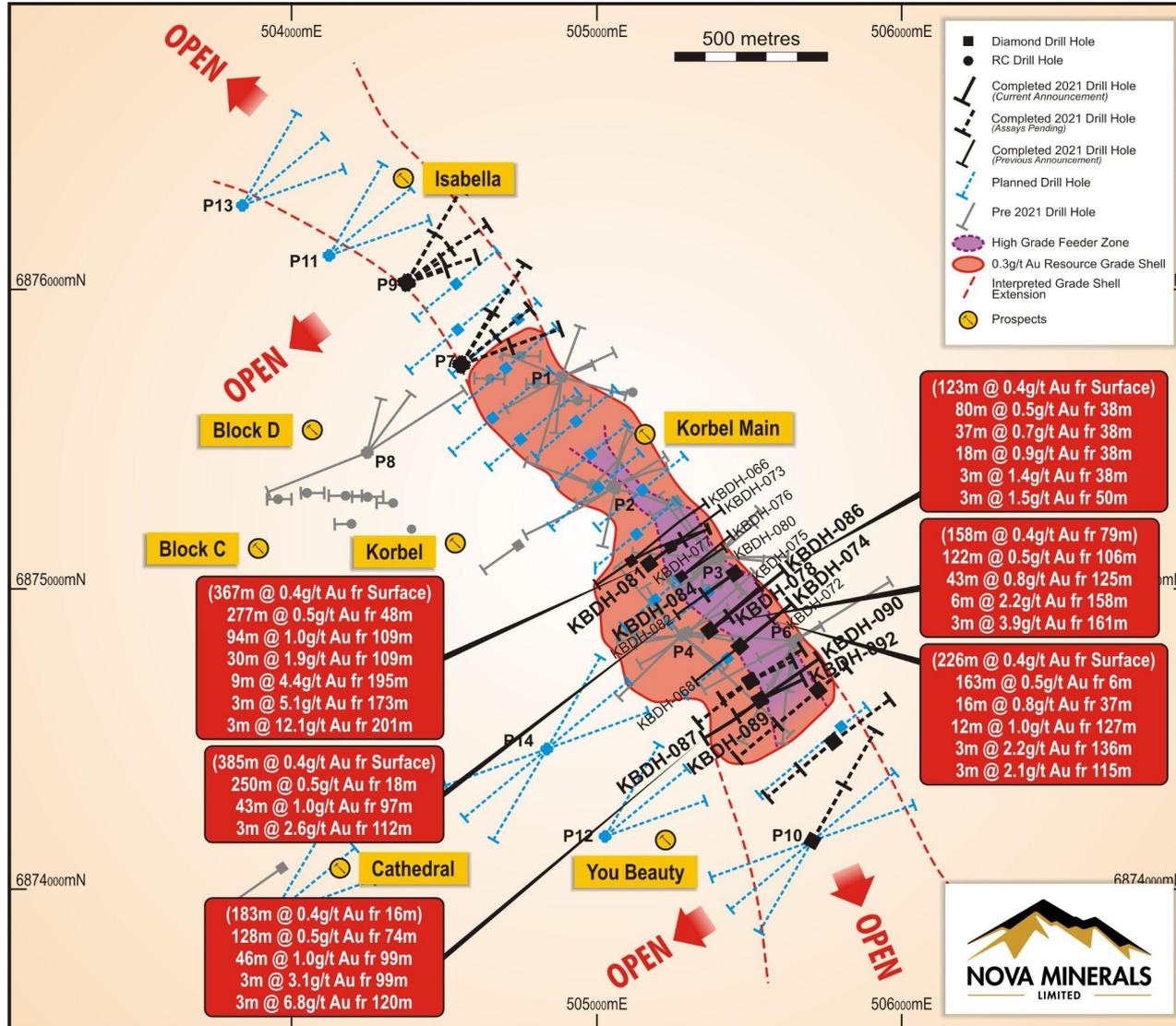
Understanding the Scale of Korbel Main Alone

(A small part of the wider Korbel Valley (page 6) area of interest)



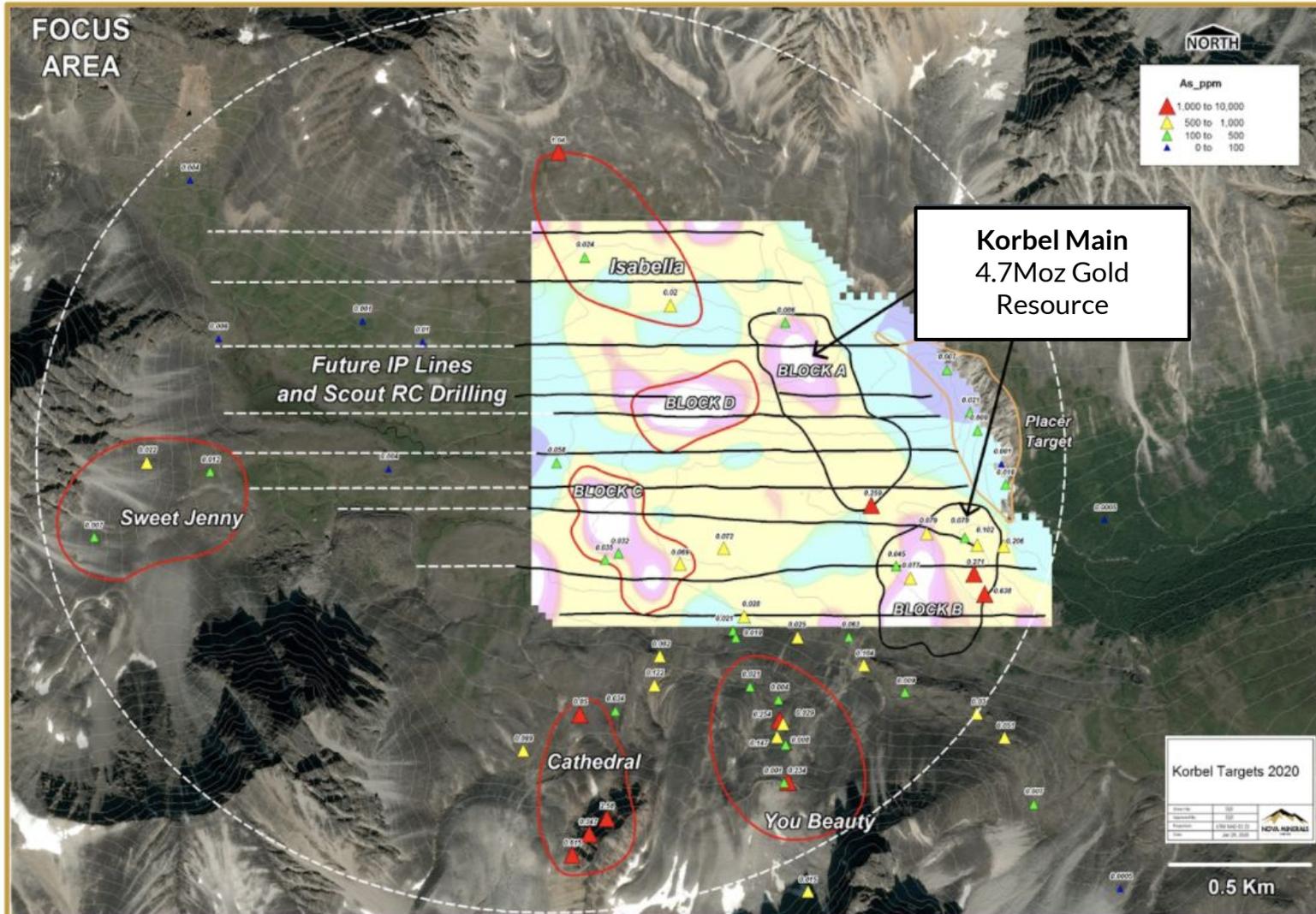
High grade feeder zone within Korbel Main outlined

(A small part of the wider Korbel Valley area of interest)



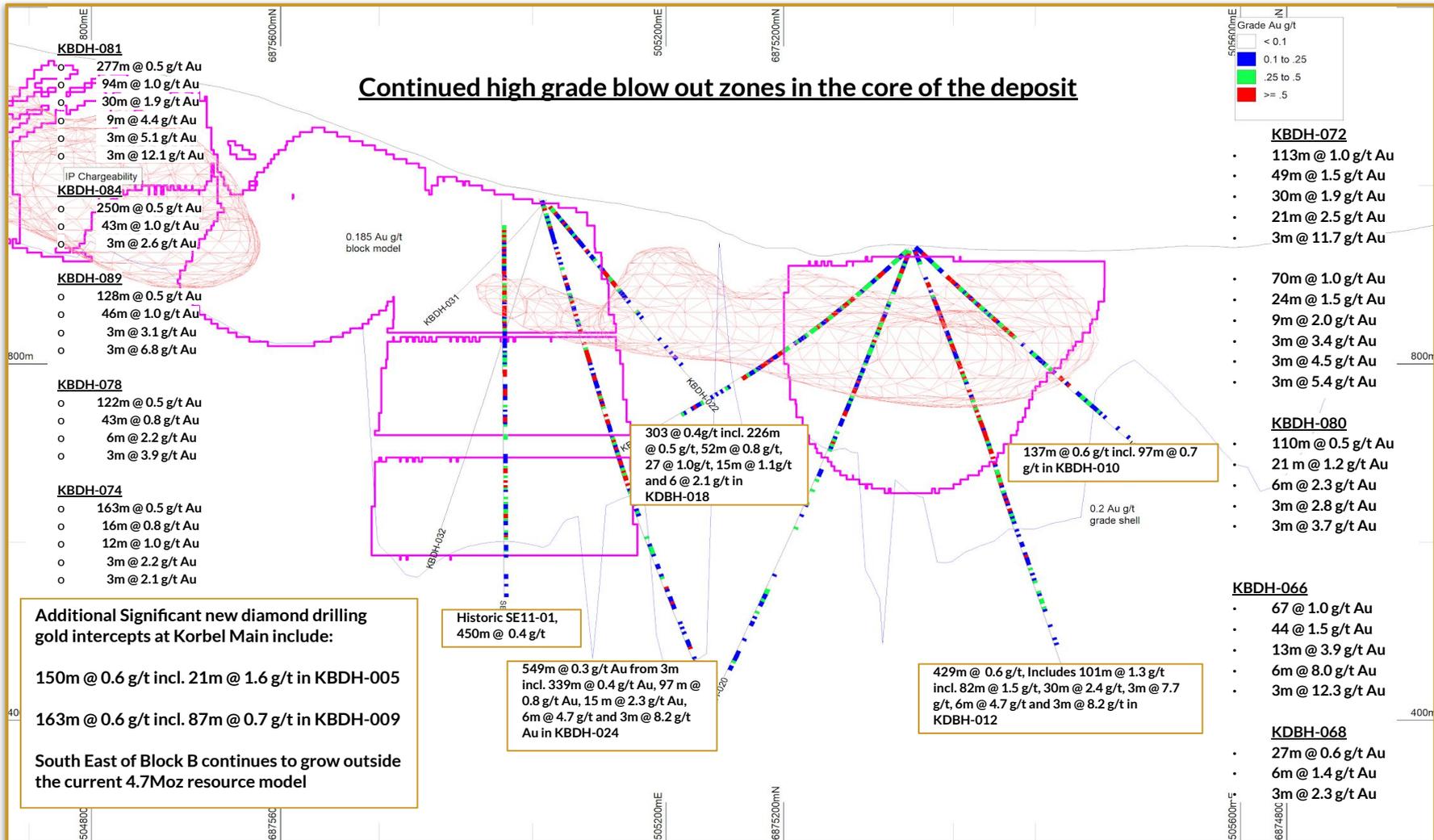
Korbel Valley

(Untapped area of interest outside of Korbel Main within the same valley)



Drilling Extends Mineralisation

(ASX: 19 August 2020 & 16 October 2020)



		Scale 1 : 4000 Plot Date 19-Dec-2020 Plot File: dec 19 louie	Sheet 1 of 1	Section A-A' Drilling, Grade Outlines, and IP Chargeability	ESTELLE GOLD Nova Minerals Ltd
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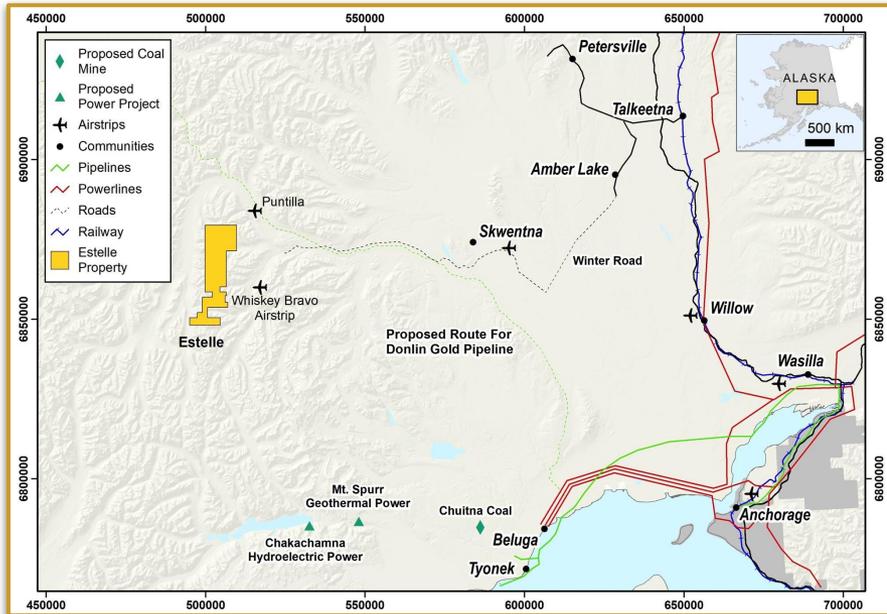
Estelle Gold District - Within the Tintina Gold Province

LOCATION

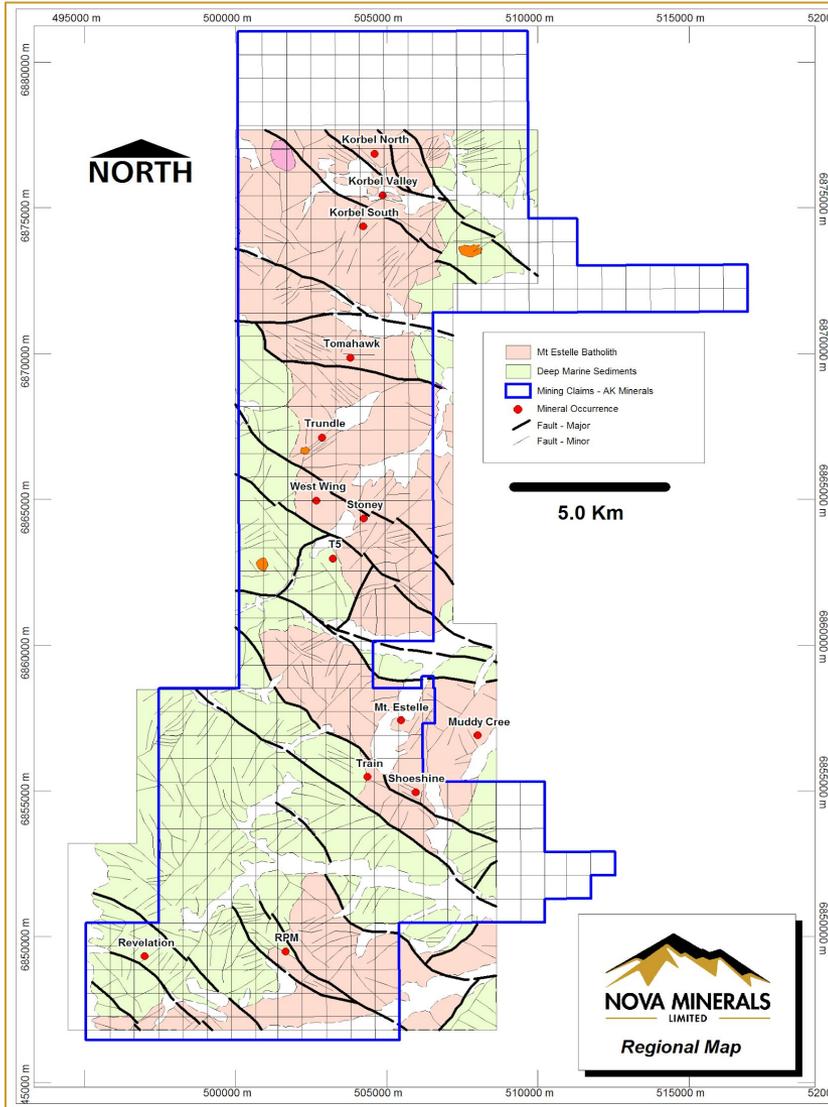
185 km North West of Anchorage
15 km - From Whiskey Bravo Airstrip
15 km - From Proposed Donlin Pipeline

ACCESS

Aircraft: Anchorage to Whiskey Bravo
Helicopter: Whiskey Bravo to Property
Snow Road Access: Heavy cargo and passenger haulage available from Willow to Site, approximately 4 months of the year
Multi-Season Access Road: Government initiative to advance studies for the West Susitna Access Road



Estelle- A Major Gold District



- **324km²** claim block across 507 state claims, no Native Title
- Korbel Main within the Korbel Valley and RPM remain the main drilling focus and continues to grow with the potential for new zones
- Four known intrusions outside the Korbel area, plus more than 15 priority targets
- **High potential to extend existing Mineral Resource of 4.7Moz** (Korbel Main only - a start)
- Reconnaissance field works have identified further high priority drill targets - Stoney, Train and Shoeshine

Inferred Mineral Resources

Cut-off (Au g/t)	Tonnes (Millions)	Grade (g/t Au)	Ounces (Millions)
0.10	748	0.2	5.6
0.15	518	0.3	4.7
0.25	234	0.4	3.0
0.35	112	0.5	1.8
0.45	57	0.6	1.1

Cathedral Prospect - Korbel Valley

(ASX: 03 December 2018 and 26 August 2020)

Sampling of high grade reconnaissance rock chips define a high priority target within the Korbel Valley at Cathedral

Rock chip samples returned high-grade gold results, including 6 samples greater than 10.0g/t and supporting lesser values:

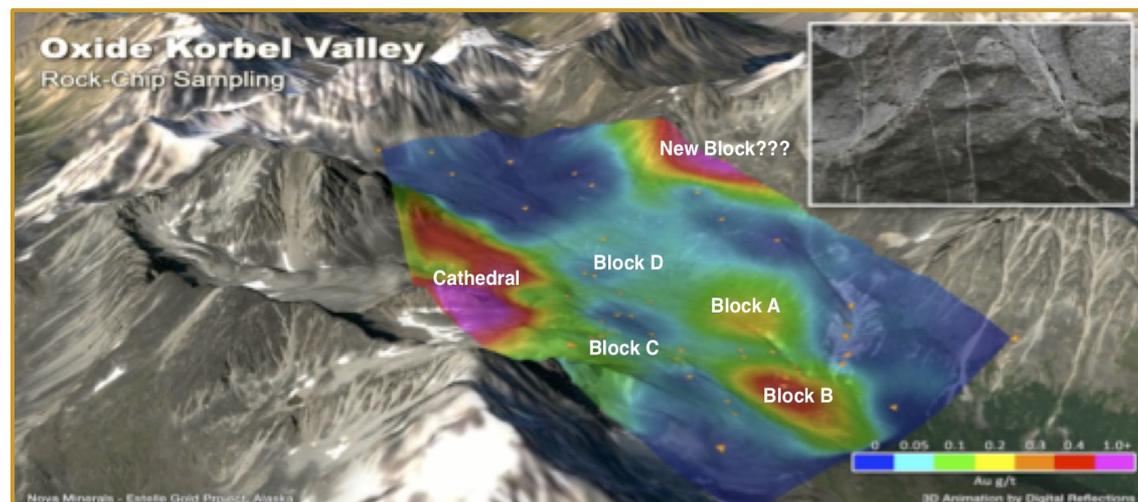
- **141.0g/t, 98.3g/t, 37.1g/t, 24.5g/t, 19.6g/t and 11.05g/t**



Chip Samples from Cathedral
- 141 g/t Au



Arsenopyrite Vein from
Cathedral -141 g/t Au



Chip sample stations 207646-207648 in the general South Korbel map area, illustrating metallic values across three, ten meter chip sample sites (30 metre). The average grade of the sampled area is 1.17 g/t gold, 6,230 ppm arsenic, 1.67 g/t silver, and 1.40 g/t tellurium. In addition, sample 207646 contained 1,295 ppm copper.

Korbel Main Project: Studies and Works

- De-risking studies and works underway:
 - Metallurgical and environmental studies
 - Onsite sample prep lab and infrastructure
- Initial metallurgical testwork on Korbel:
 - Bulk/Particle Ore sorting
 - Gravity/Flotation
 - Carbon In Pulp (CIP)
 - Fine Grind/Intensive Leach
 - Heap Leach

Estelle analogue Mine Complex-Carlin Type Deposits



Estelle analogue Fort Knox Gold Mine- Open Pit



'The resource is amenable to pre-concentration using XRT ore sorting whereby our test work to date has clearly shown a 10x increase in grade can be achieved' (ASX:15 March 2021)

- Scoping Study to assess:
 - Mining/Process optimisation
 - Mine design and infrastructure
 - Optimal engineering design
 - Trade off studies - power/process
 - Economic estimation
 - RPM ore as early feed or sweetener into mill at the Korbel processing hub



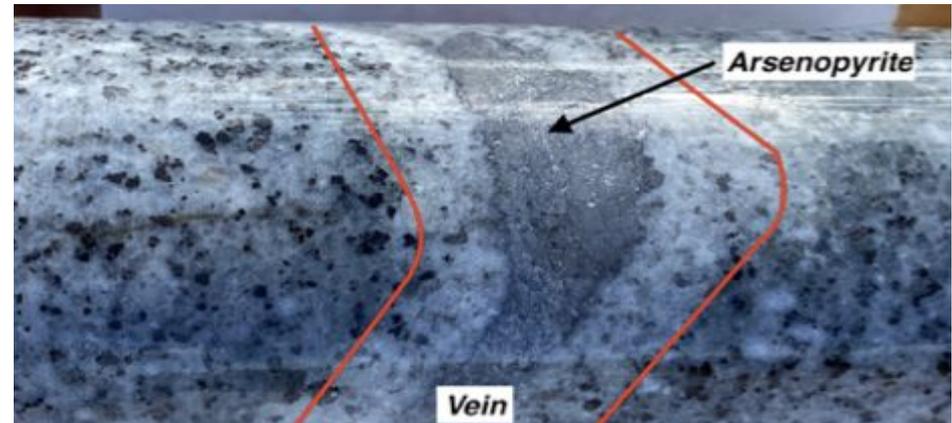
Nameplate capacity is the 1800 tons per hour XRT-based sorting plant at the Umm Wu'al phosphate mine in Saudi Arabia

Ore Sorting Discrete Korbel Main Veins

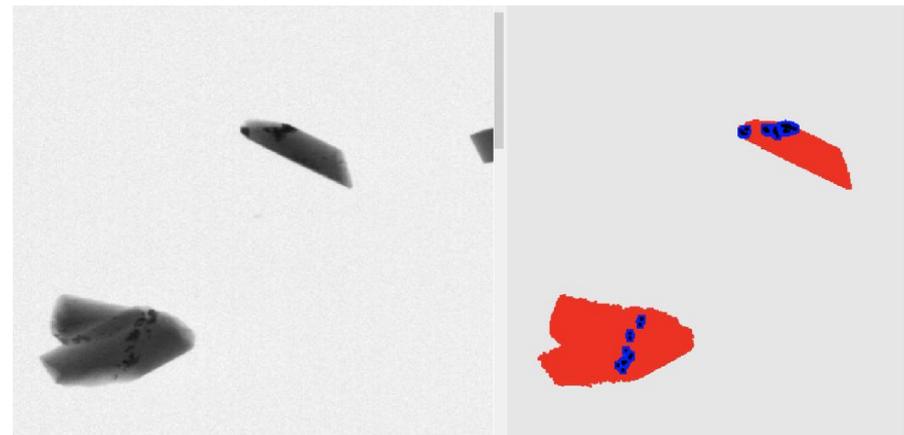
(ASX:15 March 2021)

Ore sorting test work on drill core demonstrates great potential for less processing and increased mine production at Korbel Main

- Ore sorting results show up to 10x uplift from 588kg sample
- Ore sorting test work programmes conducted by TOMRA in Sydney demonstrate the potential of ore sorting using X-ray transmission (XRT) technology to successfully separate the gold-bearing veins at Korbel Main
- The results clearly demonstrate the significant benefits that could be expected from the application of Ore Sorting technology, including the potential to increase mine production and enhance the project economics.
- The application of ore sorting at Korbel Main has potential to improve project economics and increase gold production through:
 - Facilitation of bulk mining that would reduce unit mining costs and ore loss experienced in selective mining
 - Rejection of waste material, leading to lower processing costs and minimising environmental impact
 - Higher mill reed grade



Typical Arsenopyrite sheeted vein in core from Korbel Main



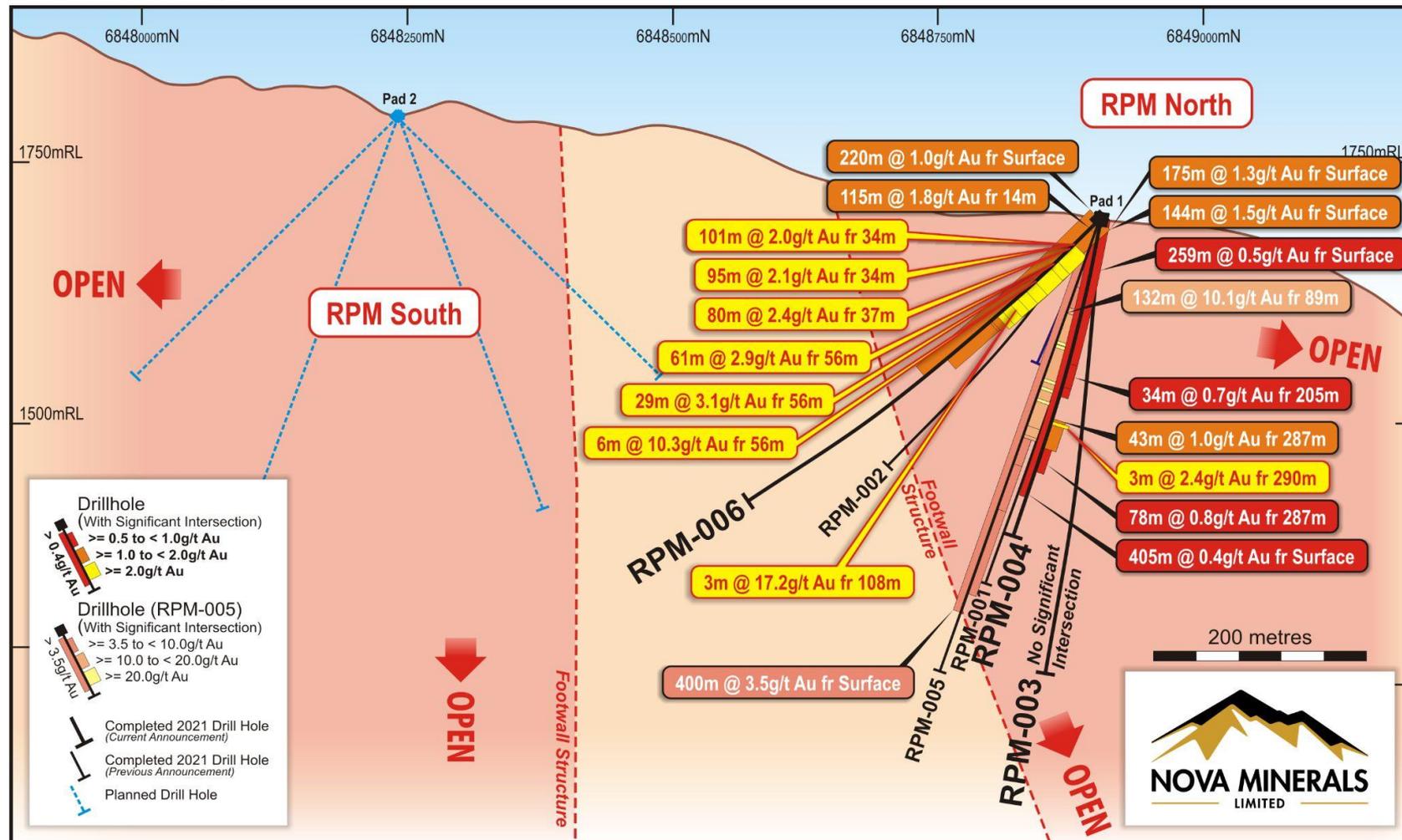
XRT Scan of Product after Stage 1 (6.06 g/t). Blue and Black = Arsenopyrite sheeted vein. Red = Granite Waste Rock.

Continuity of RPM North Prospect

(ASX: 18 October 2021)



- Further high-grade Intercepts Confirms continuity at RPM
- RPM South gold zone looks to be much larger from surface expression with potential to converge at depth with RPM North



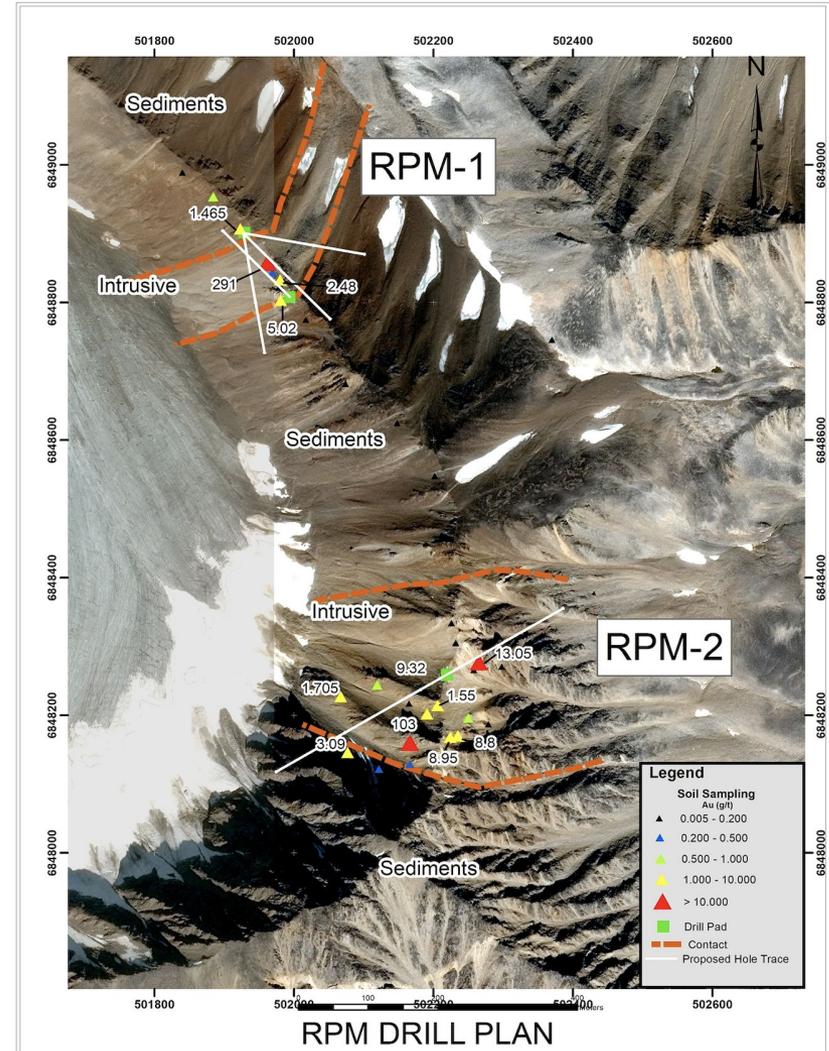
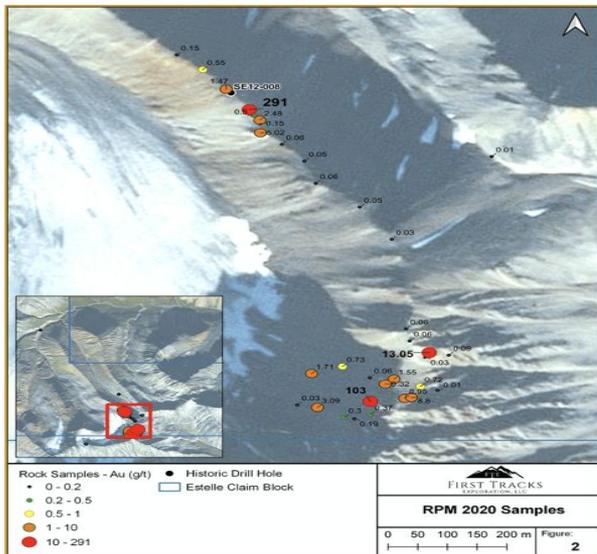
RPM Prospect

SE12-008	From (m)	To (m)	Grade g/t	Width
Intersection	4.27	180.78	0.79	177.39
Includes	26.00	146.40	1.02	120.40
Includes	75.19	125.36	1.76	50.17

Sampling of high-grade reconnaissance rock chips, define expanded footprint of high priority target within the RPM Prospect

Rock samples returned high-grade gold results:

- 291 g/t, 103 g/t, 13.1 g/t, 9.3 g/t, 9.0 g/t, 8.8 g/t and 5 g/t



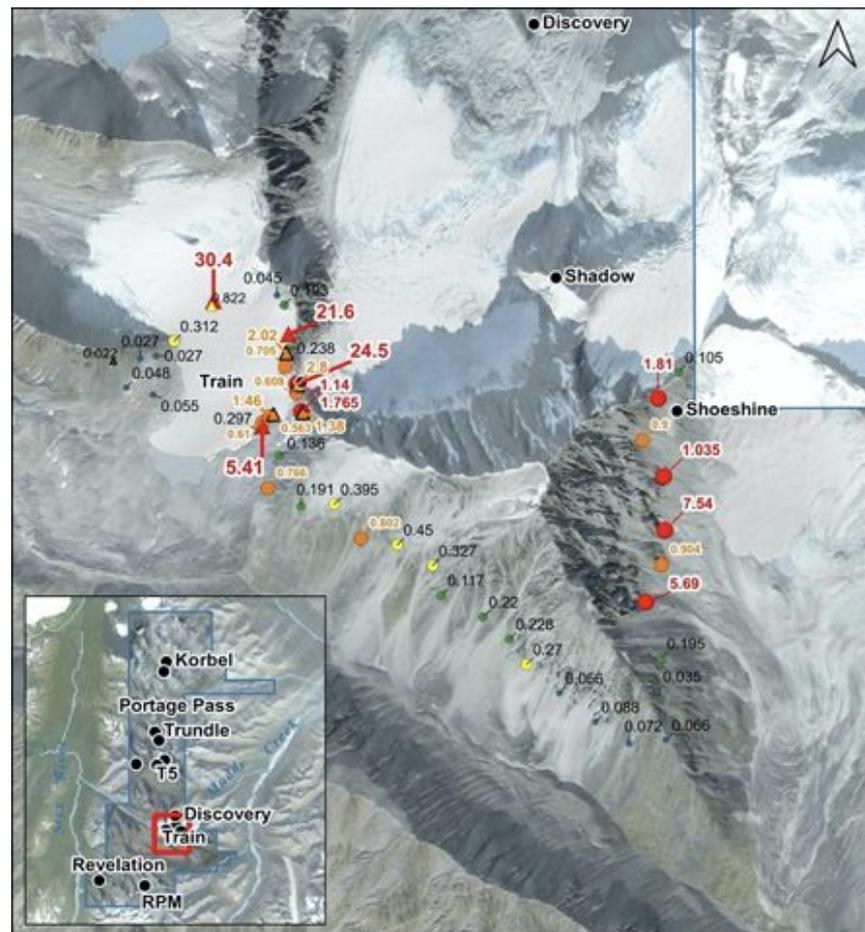
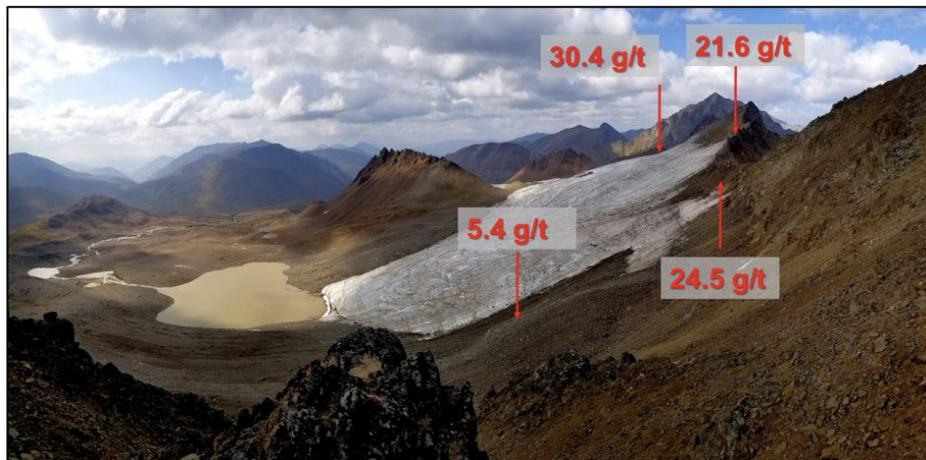
Train and Shoeshine Prospects - Two Additional IRGS

(ASX:23 September 2021)

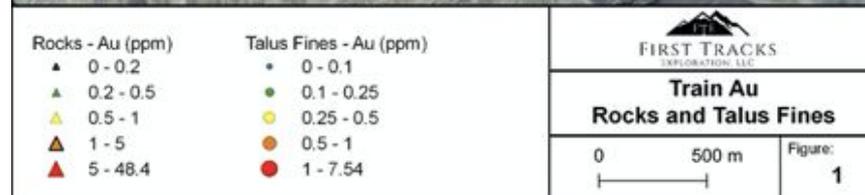


High-grade gold reconnaissance rock samples from the Train and Shoeshine Prospects include:

30.4 g/t, 24.5 g/t, 21.6 g/t, 7.5 g/t, 5.7 g/t, 5.4 g/t



Exploration mapping and sampling campaign confirms another large Intrusive Related Gold System (IRGS) exposed at surface with ~1km strike, 500m wide at Train and ~1km long at Shoeshine Prospects. Similar style of mineralization was also observed at nearby Shadow and Discovery interpreted to be part of the same mineralized system.



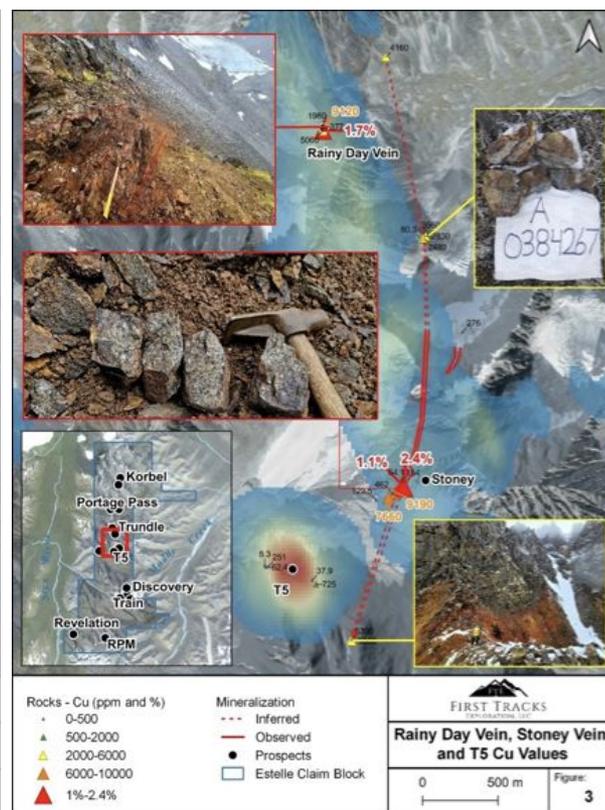
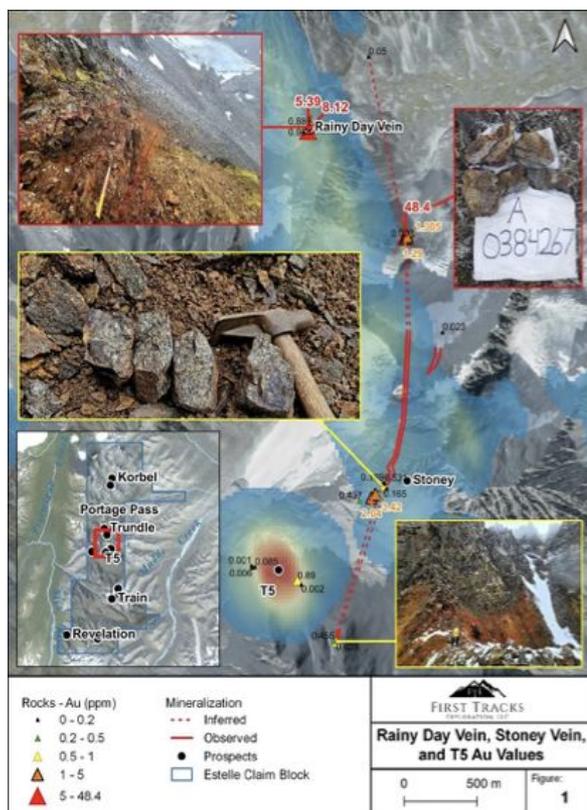
Stoney Prospect - Extensive Polymetallic Vein System

(ASX: 20 September 2021)

Stoney Prospect delivers high grade Au, Ag, and Cu results in rock samples along an extensive outcropping mineralized zone within the Estelle Gold District

- High-grade reconnaissance rock chip samples from the Polymetallic Stoney Prospect include values up to:
 - 48.4g/t Au, 2720g/t Ag, 2.4% Cu

Exploration mapping and sampling campaign defines massive polymetallic mineralized vein at Stoney Prospect observed along ~4km of strike length, up to 10 meters wide, and >300m of vertical extent. Several stacked parallel vein structures and/or splays were also observed and sampled in the surrounding area, e.g. Rainy Day Vein.



Year Round Camp Facility

Man Camp and Logging Facility Established



On-Site Sample Preparation Lab

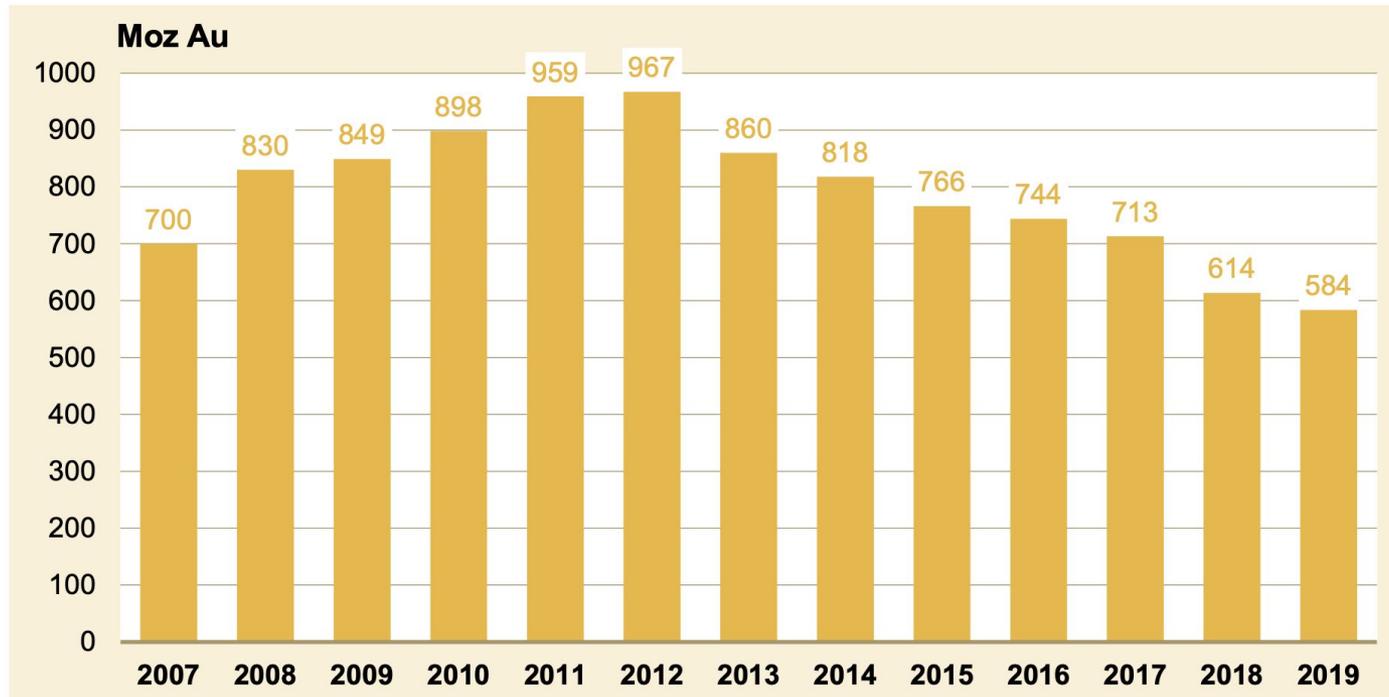
- Capacity to process up to 7,500 samples per month
- Significant cost savings
- Vastly improved assay turnaround time



Unlocking the Estelle Gold District at the Right Time



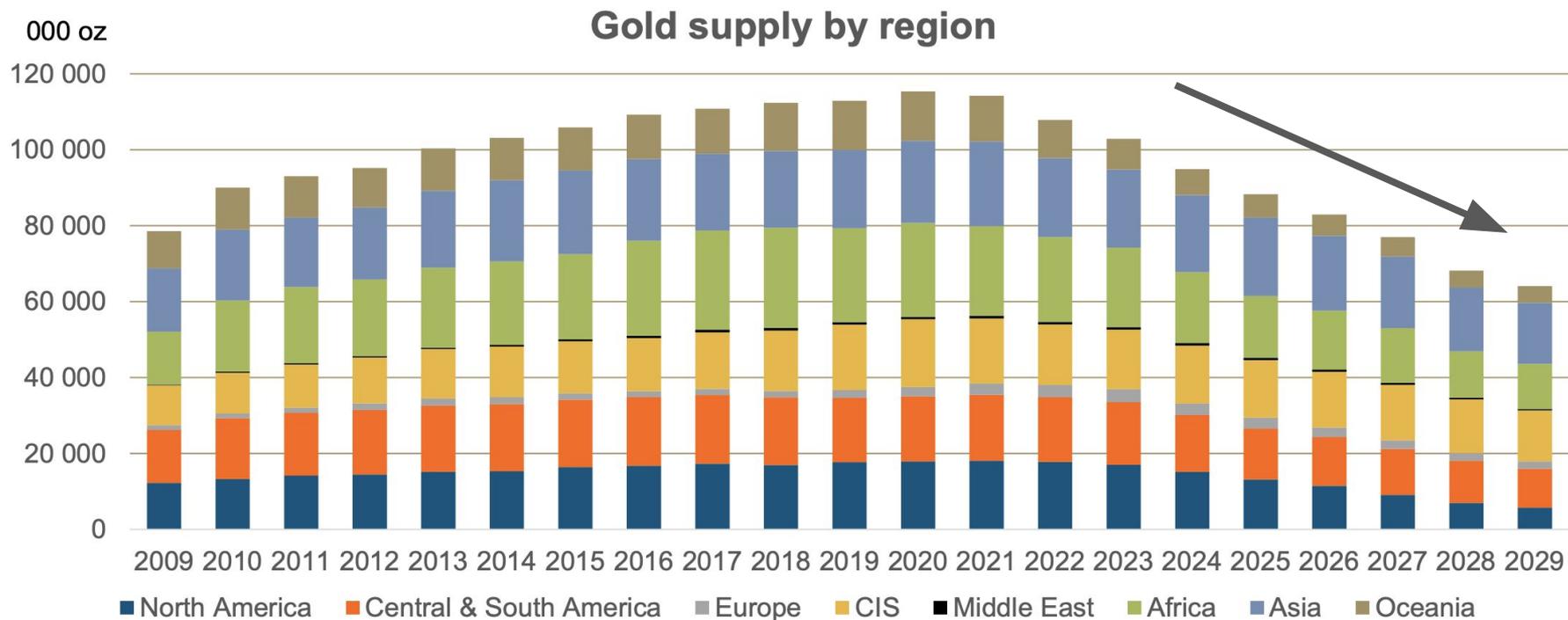
Reserves held by major gold companies have declined 26% since 2012...they are now below 2007 levels



Agnico Eagle, AngloGold Ashanti, Barrick, China National, Freeport McMoRan, Gold Fields, Goldcorp, Harmony, Kinross, Navoi Mining & Metallurgy Combinant, Newcrest, Newmont, Nord Gold, PJSC Polyus, Polymetal International, Randgold Resources, Shandong Gold

Gold Supply Forecast

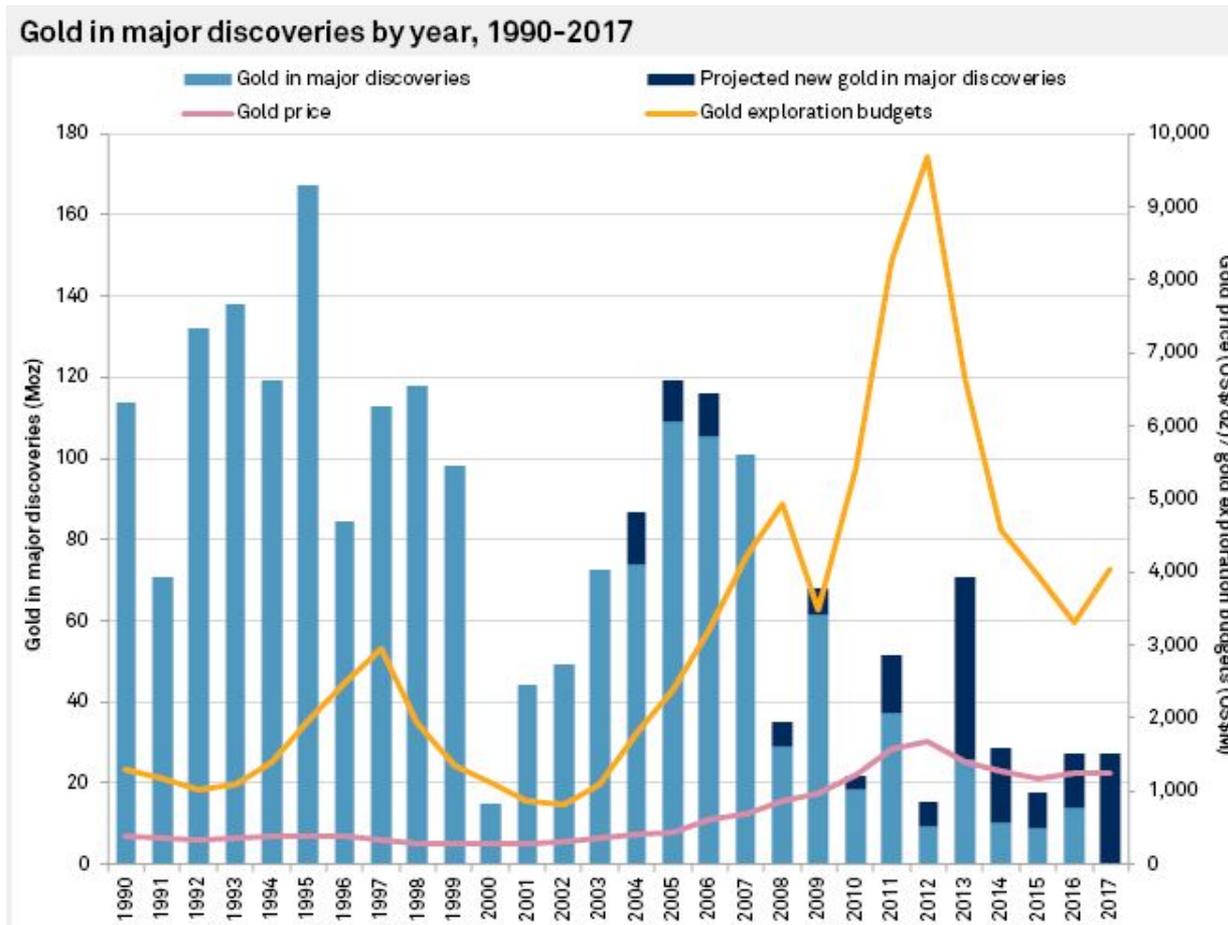
The gold industry is facing a downturn in production



Source: AME Metals & Mining/Strategic Market Study Q2 2019

Discoveries and Exploration Expenditure

Despite increasing exploration budgets, the industry has little to show for it

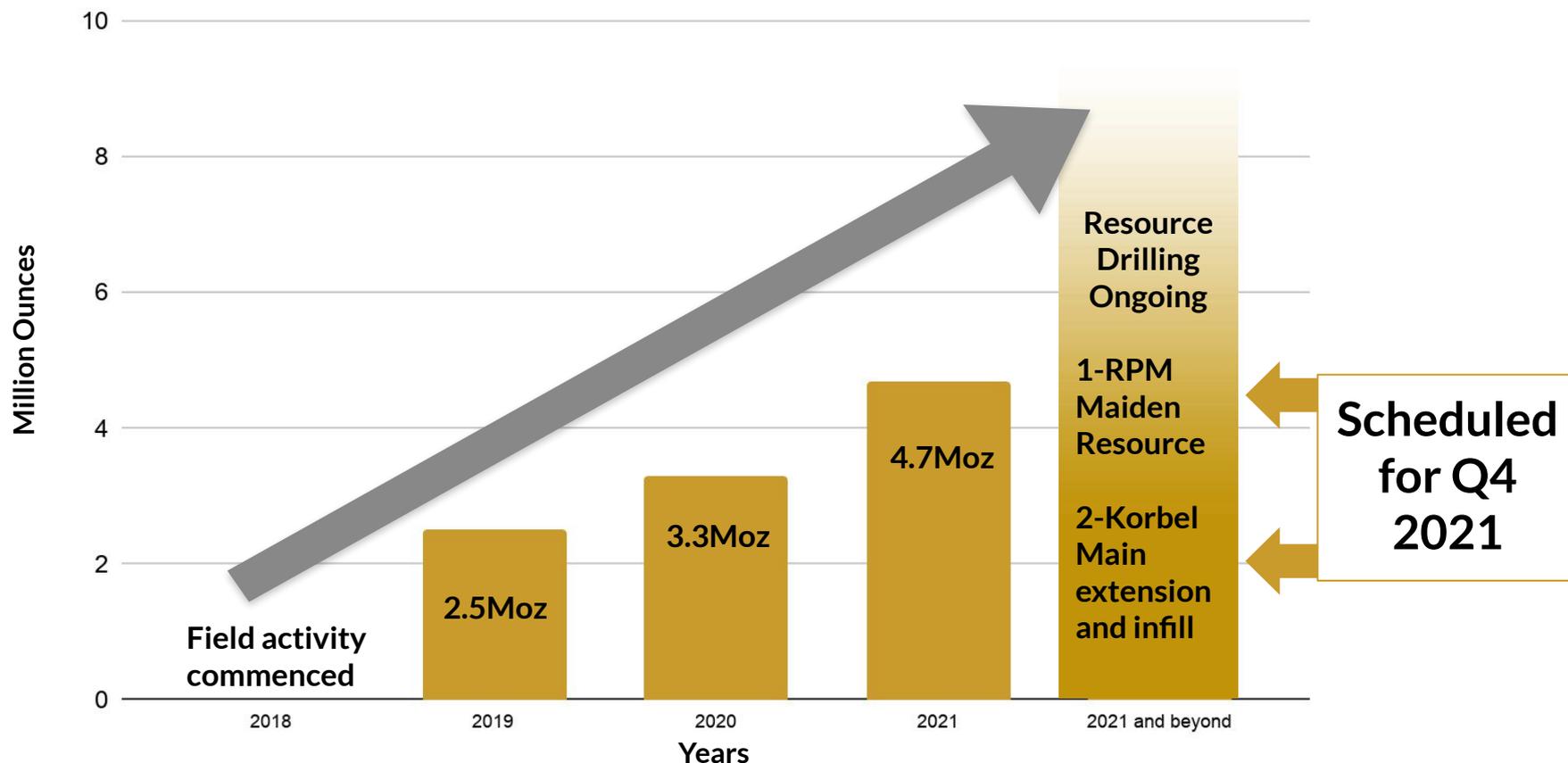


Source: S&P Global Market Intelligence - April 26, 2018

Our Track Record Of Discovering Ounces - We Are Not Done Yet!



Reflective of the Korbelt Main Prospect Only



See NVA ASX announcement on 05 October 2020 and 06 April 2021 for further details

Focus for 2021

Korbel

RPM

Regional

Development

RC and diamond drilling to expand and delineate the footprint and depth of the known mineralisation

Mineral Resource Upgrade in Q4 2021

Zones remain open with limits yet to be found

Potential for further convergence and new zones to be identified within the wider Korbel Valley

Maiden drilling program of two known mineralized intrusions

Bonanza Grades Discovered at RPM North Including 132m @ 10.1 g/t Au (Broad zone of high-grade gold intersected in drilling at the RPM North Prospect of 400m @ 3.5g/t Au from surface)

Maiden Resource late 2021

Geochemical sampling and mapping programs across claims in 2021

Priority on Shoeshine, Stoney and Train

20 miles of strike length with numerous unnamed color anomalies to be investigated

Additional claim staking to expand land holding

More detailed metallurgical testwork

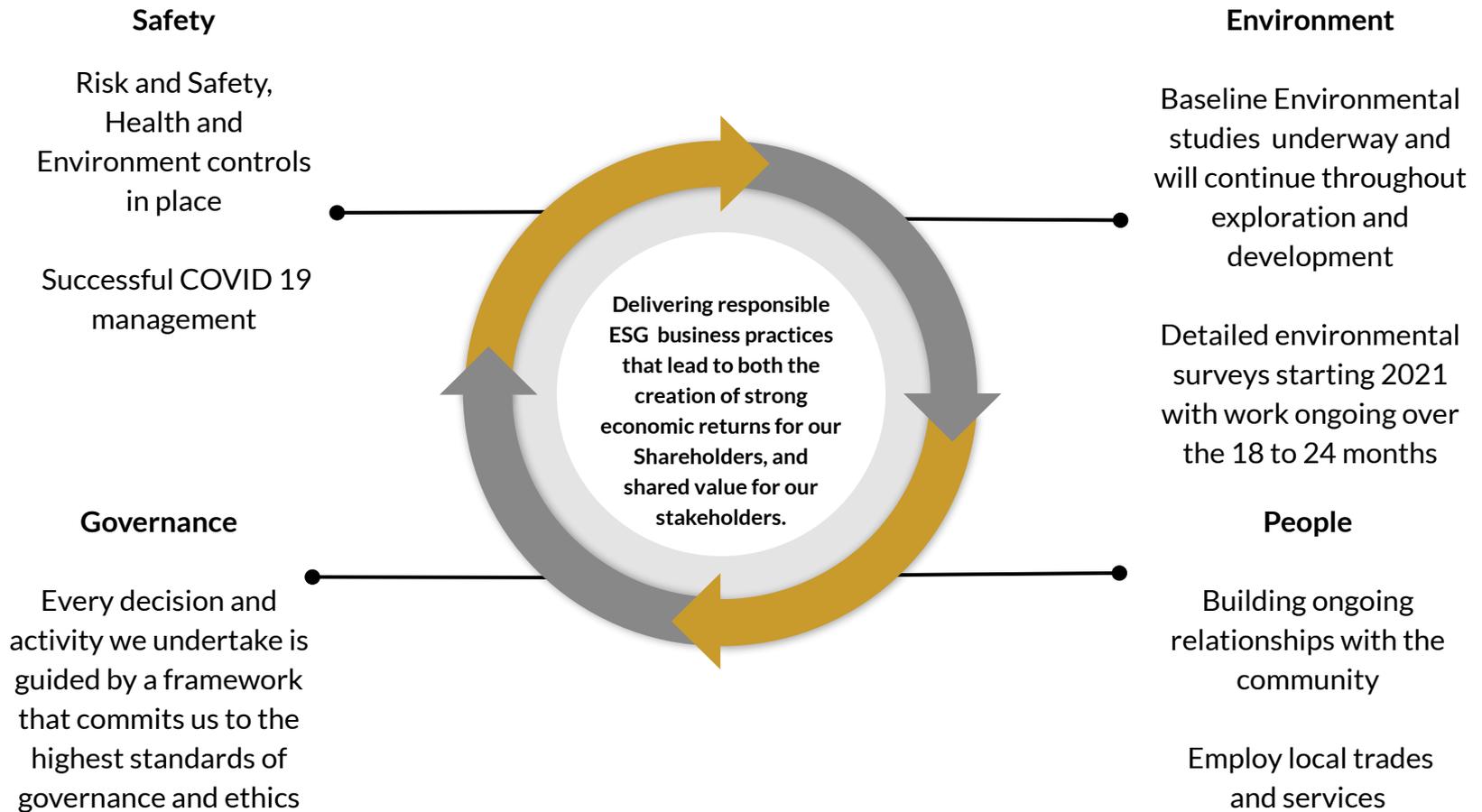
Phase 2 ore sorting test work

Baseline environmental surveys & commence permitting process

Mining and processing studies underway

Economical studies to follow resource estimate growth across Estelle

Building a Solid Business



View our sustainability report here:
<https://novaminerals.com.au/sustainability-report/>

Innovation with Environment in Mind

eVTOL on the Exploration and Mine Site

The RX eTransporter can take off and land vertically and fly for over 1.5 hours, or hover for over 45 minutes, on a single charge. Typical eVTOL's that are in the news today can only hover for a few minutes before needing to land. Having this outstanding eVTOL hovering capability makes the RX eTransporter ideal for commercial cargo and personnel flights.

The extremely versatile eTransporter has a max air speed of over 160mph and a ceiling of over 25,000 feet! This, along with a range of up to 200 miles and a max payload of 1,600 lbs, means that the RX eTransporter will be the clear leader in the electric air taxi space.



XRT Ore Sorting

Sorting particles early in the process removes waste material from the circuit. This removed material allows more throughput of valuable feed for downstream processes like leaching, flotation or gravity concentration. It also allows companies to choose to decrease their plant size for significant CAPEX and OPEX savings. Removing waste from circuits can also remove bottlenecks further down the mineral processing circuit. Higher head grades also result in improved leaching and flotation recoveries.

This preconcentration also lowers the environmental footprint of the mineral processing operation as waste material can be stored in rock piles rather than ending up in a wet tailings impoundment. Preconcentration is simple to implement and an effective way to improve downstream mineral processing operations.



Fundamental Multi Pillar Growth Strategy

- **Gold** - Aiming to be the next low-cost gold producer in Alaska while unlocking the Estelle Gold district
 - Leverage in the emerging gold bull market

- **Lithium** - Spinning off and managing Snow Lake Resources (Thompson Brothers Lithium Project)
 - Snow Lake is committed to being the first fully renewable energy powered electric mine in the world that can deliver a completely traceable, conflict free, net zero carbon, battery grade lithium to the electric vehicle, or EV, consumer market.

- **eVTOL** - Preparing innovative RotorX air taxi and heavy lift eVTOL and helicopter manufacturer for listing (Alongside Lilium, Joby, and Volocopter Peers)

- **Gold** - Continuing to support the growth 11.65% holder of Torian Resources (ASX:TNR)

- **Opportunities** - Remaining open minded for additional opportunistic investments for further shareholder growth

Investments - Positioned for Further Growth



~74% owned

To learn more please visit:
<https://snowlakeresources.com>



11.65% owned

To learn more please visit:
<https://www.torianresources.com.au>



9.9% owned

To learn more please visit:
<https://rotorxaircraft.com>

CEO, Mr. Christopher Gerteisen notes:

“Our metric for evaluating our managerial performance is simply how rapidly we develop our assets, what strategic positions we have acquired at well below inherent value and what partnerships we have formed to advance our projects. From small beginnings, we have evolved into a company that has a large and growing gold endowment, unlocking a district in a top tier jurisdiction, taken strategic positions, formed relationships and partnerships with companies to assist us in our aggressive growth strategy with Nova’s long-term sustainability and innovation in mind to benefit all stakeholders.”



Investments - Positioned for Further Growth

Snow Lake's Mission

Snow Lake is committed to being the first fully renewable energy powered electric mine in the world that can deliver a completely traceable, conflict free, net zero carbon, battery grade lithium to the electric vehicle, or EV, consumer market. Snow Lake aspires to not only set the standard for responsible lithium battery manufacturing but intends to be the first lithium producer in the world to achieve Certified B Corporation status in the process. As a Certified B Corporation (defined on page 3 of F1 Filing), Snow Lake would hope to participate in accelerating the global culture shift to redefine success in business and help to build a more inclusive and sustainable economy.

- Mineral Resource Estimate (ASX: 3 June 2021):
 - o Indicated Resource Estimate of 9.08 Mt @ 1.00 % Li₂O using a 0.3 % Li₂O cut-off grade and;
 - o Inferred Resource Estimate of 1.97 Mt @ 0.98 % Li₂O using a 0.3 % Li₂O cut-off grade.

Snow Lake intend to achieve environmental, sustainability and governance friendly strategy through utilization and operation of the following initiatives and resources:

- Snow Lake have entered into a memorandum of understanding (MOU), with Meglab Electronique Inc. for Meglab's delivery to of the first all-electric lithium mine in the world.
- Snow Lake have also entered into a MOU with CentrePort Canada Inc. to have CentrePort as the potential location to build a hydroxide plant.



Investments - Positioned for Further Growth

Summary

- In April 2021, Snow Lake entered into a MOU with IMG Investitions- und Marketinggesellschaft Sachsen-Anhalt mbH, the economic development agency for the state of Saxony-Anhalt, to consider investment in a lithium hydroxide plant in the Saxony-Anhalt region for final processing. Snow Lake cannot guarantee however, that the above non-binding MOUs will lead to definitive agreements.
- Power to operate the future lithium mine is expected to be supplied by Manitoba Hydro on a 97% renewable basis;
- Snow Lake are currently identifying sites within Manitoba for hydroxide processing of spodumene that will be powered by renewable energy sources;
- The Arctic Gateway Group's Hudson Bay Railway lines are located within 30 kilometers of our TBL property will connect our lithium mining operations to the North American auto industry with a minimum carbon footprint, with total mine to manufacturer distance of less than 1,000 miles; and
- Snow Lake intend to apply for "B Corporation" certification reflecting our corporate dedication to standards of social sustainability, environmental performance, accountability and transparency. A "Certified B Corporation" is a business that meets the highest standards of verified social and environmental performance, public transparency, and legal accountability to balance profit and purpose. Snow Lake have begun the preliminary process to become a "pending" B corporation and expect to formally apply for B Corporation status approximately one year after completion of this offering and ramp up its operations. There can be no assurance at this time that Snow Lake will receive "pending" B corporation status, that Snow Lake will be able to apply for full B Corporation status within the time frame referenced above or that Snow Lake will be successful in achieving B Corporation status.

These factors will give Snow Lake a competitive edge and first mover status in delivering a fully verifiable, environmentally friendly product to a rapid growth market that is consumer driven to demand a new level of transparency and responsibility.

Full details of the updated Snow Lake SEC filing:

https://www.sec.gov/Archives/edgar/data/0001769697/000121390021039589/ea145027-f1a2_snowlake.htm

Investments - Positioned for Further Growth

The Property

The Thompson Brothers Lithium Project is located 20km east of Snow Lake, Manitoba in a mining friendly jurisdiction that has seen continuous production of base metals and gold since 1949. HudBay currently operates the nearby Lalor mine and has milling and concentrating facilities in the Snow Lake district

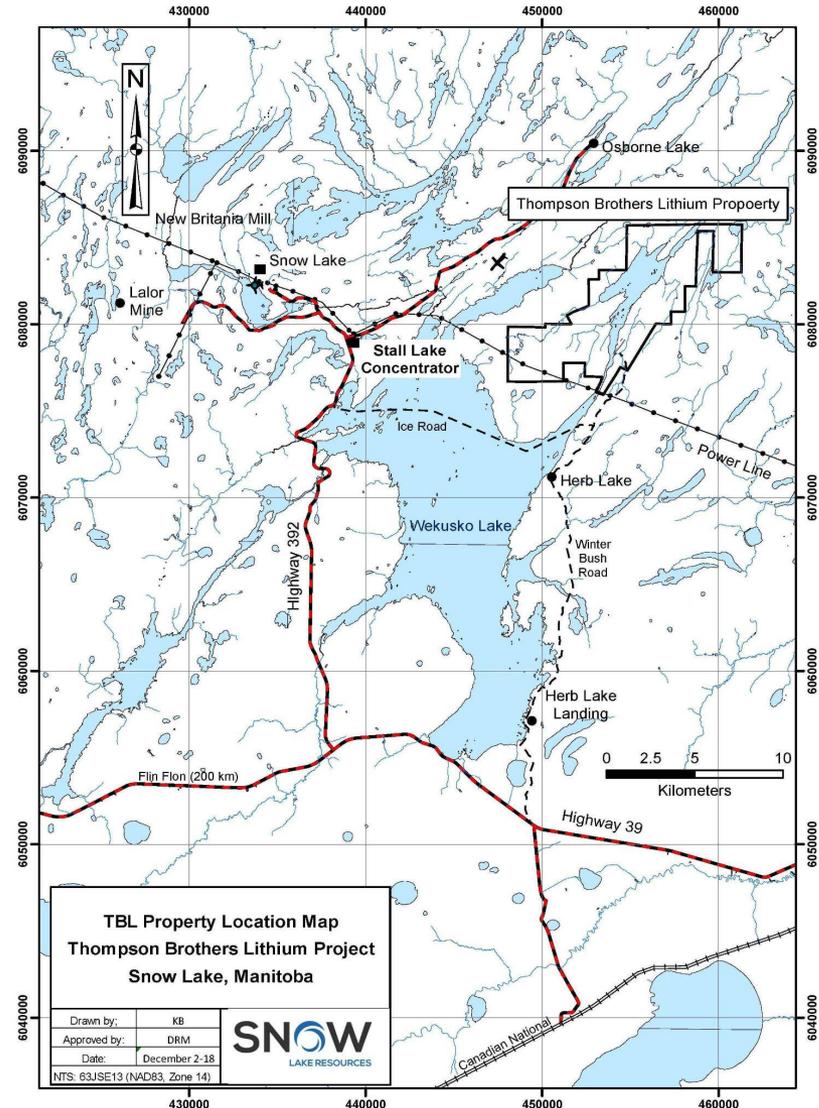
The Project Objectives

Snow Lake is currently working on two lithium enriched pegmatite dyke clusters on its property with recent efforts focused on the TB-1 deposit.

Future work will entail the completion of a Preliminary Economic Assessment followed by further definition and resource expansion drilling and technical evaluation.

Project Milestones

Snow Lake is confident that its strategic plan, once implemented, will demonstrate the robust mining potential of the Thompson Brothers Lithium project.



Investments - Positioned for Further Growth

Large secure Land position:

Snow Lake has a dominant land position encompassing 5,596 hectares (56km²).

Pro mining community:

HudBay operates the Lalor Mine and concentrator in the Snow Lake district.

Recent investments in the district demonstrate high confidence in the potential for new mine discoveries.

Access:

year round access to the Property may be gained by boat, barge, helicopter or winter ice/bush roads.

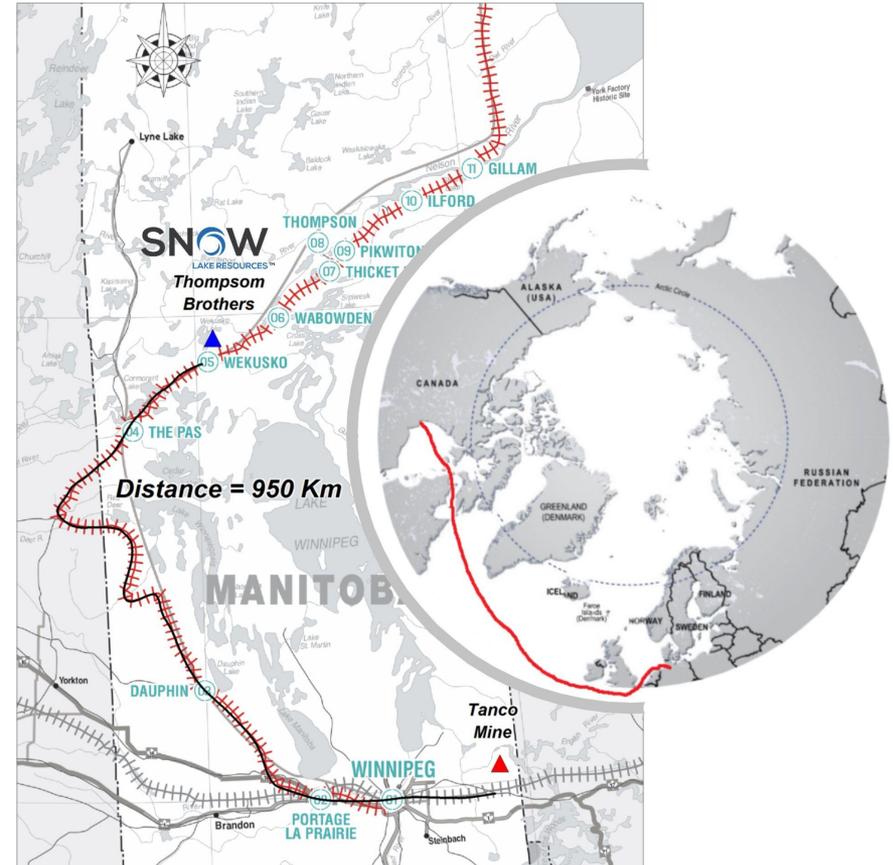
Existing Infrastructure:

Powerline traversing the property

Airstrip located 5km to the north.

Highway access to within 11km.

Railway access 35km to the south.



Investments - Positioned for Further Growth

The World's Most Efficient Helicopter (eVTOL)



The RX eTransporter is a 4-rotor helicopter and is the first of its kind for civilian and industrial use. With the ability to transport 6 passengers comfortably or 1,600 lbs of cargo, this new aircraft is changing the way we think about aviation.

This revolutionary new helicopter provides plenty of leg room and comfortable charter-jet type interiors, and the open-interior version is ideal for air taxi operations, mining and exploration, agriculture package delivery, search and rescue, personnel recovery, and MEDEVAC operations.

Current Need for System:

- Alaska needs a vehicle to access to remote areas without roads and at higher altitudes
- Current vehicles are expensive and have a high operational cost
- Alaska needs a multirole, heavy-lift vehicle with passenger transport, medical evacuation, and air crane capabilities

Transporter B System Benefits:

- High performance aircraft without inefficiencies of a tail rotor system
- Reliable, low-cost, and proven engines flown on Rotor X Helicopters
- Rotor X Aircraft engines can be serviced by a truck mechanic (No A&P mechanic needed), reducing the operational cost of the vehicle
- Multiple modular pod center sections for carrying personnel, cargo, air ambulance, or for providing aerial crane capabilities



Investments - Positioned for Further Growth

RX eTransporter Specs

- Max Air Speed: Over 160 mph TAS (10,000 ft)
- High Speed Cruise: 140 mph TAS (10,000 ft)
- Empty Weight: 6,400 lb. (including batteries)
- Max Takeoff Weight: 8,000 lb.
- Max Payload (passengers, or cargo): 1,600 lb.
- HOGE: Over 20,000 ft
- Range: Over 200 nm with 1,600 lbs. of payload.
- Ceiling: Over 25,000 feet
- Passengers: 1 Pilot, 5 Passengers (FAA Experimental Rated, 1-2 crew & 7 passengers when fully certified)
- Max endurance: Over 1.5 hours
- Max Range: Up to 200 nm



The RX eTransporter is perfect for...



**Personnel
Transport**



Shipping Cargo



**Agricultural/
Mining**



**MEDEVAC
Operations**



**Military
Operations**

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Competent person statement

Mr **Dale Schultz P.Geo.**, Principal of DJS Consulting, who is the Nova Minerals group's Chief Geologist and COO of Nova Minerals subsidiary Snow Lake Resources Ltd., compiled the technical information in this presentation and is a member of the Association of Professional Engineers and Geoscientists of Saskatchewan (APEGS), which is ROPO, accepted for the purpose of reporting in accordance with ASX listing rules. Mr Schultz has sufficient experience relevant to the style of mineralization and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 edition of the 'Australian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Schultz consents to the inclusion in the report of the matters based on information in the form and context in which it appears.



THANK YOU

