



ARCTIC STAR EXPLORATION



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ARCTIC STAR SHARE STRUCTURE

Shares	104,928,054
Warrants	74,924,054
Options	10,173,750
Fully Diluted	190,025,858

DIAVIK MINE



MULTI BILLION DOLLAR DIAMOND MINE DISCOVERY



Buddy Doyle (Photo above) Leader of the exploration team that discovered the Diavik Diamond Mine in Canada. Diavik has produced over 100 million carats since 2003.

Diavik is operated by Rio Tinto and sold 40% to the Washington Group for \$1.2B.

GRIB MINE



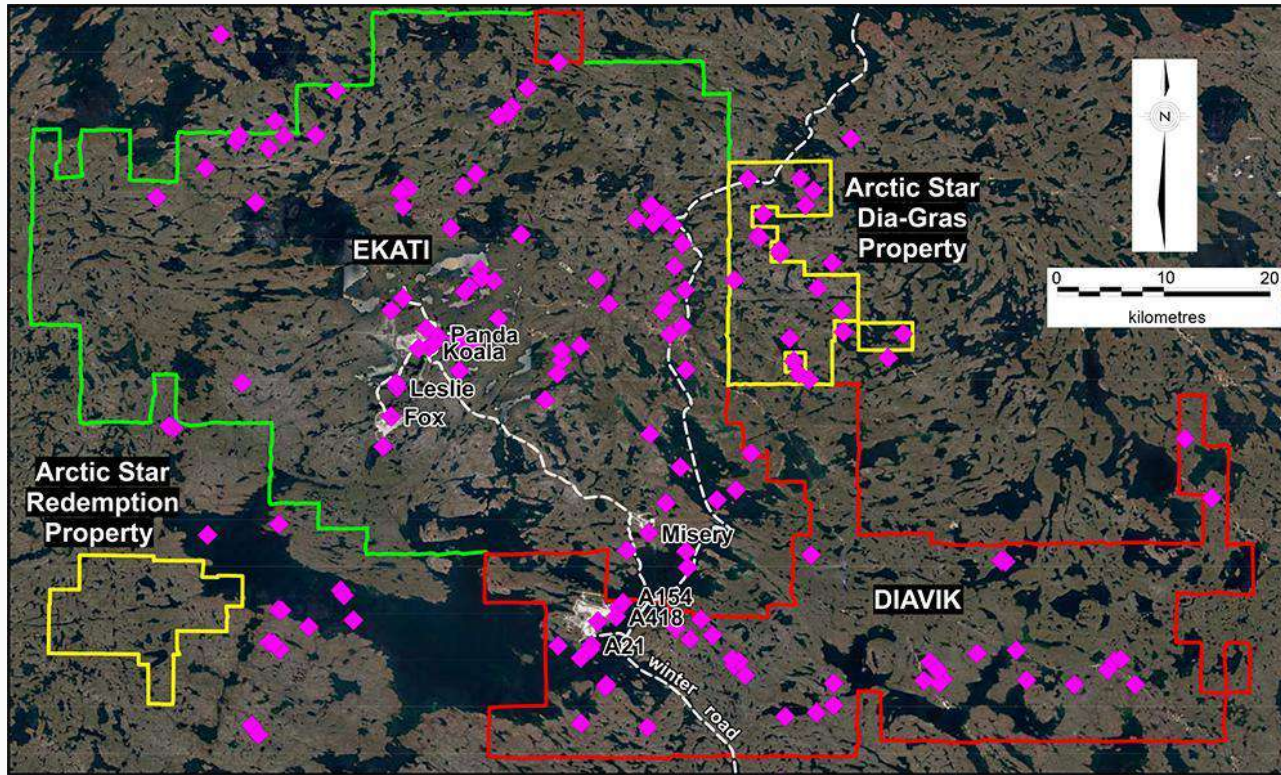
MULTI BILLION DOLLAR DIAMOND MINE DISCOVERY



Roy Spencer (Photo above) led the team that discovered the Grib Diamond Mine in Russia, the 8th largest diamond mine in the world. Same geological belt as our Timantti diamond project.

Otkritie Industrial Investments purchased Grib for 1.45B. AGD Diamonds recently consolidated with Otkritie for a 100% stake in Grib Diamonds 2018.

CANADA – DIAGRAS PROJECT

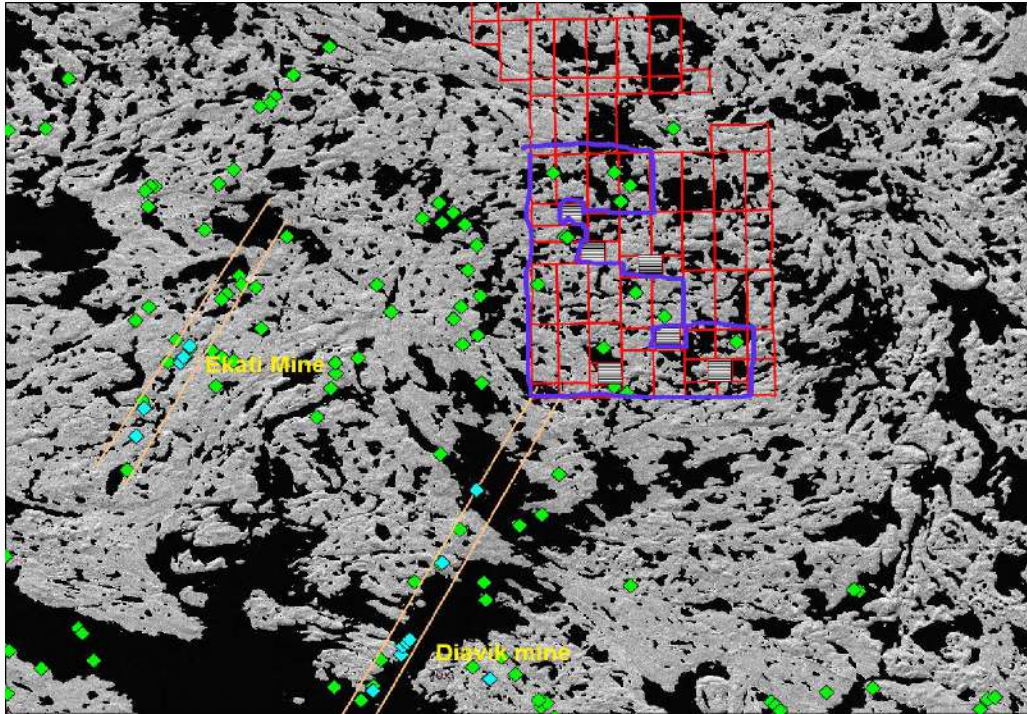


Diavik has produced over 100 million carats of diamonds since 2003. It's currently operated by Rio Tinto and sold 40% to the Washington Group for \$1.2B.

The Diavik Property (40% Arctic Star & 60% Margaret Lake) consists of 29 contiguous claims encompassing an area of 22,595 hectares.

Arctic Star & Margaret Lake is using new gravity and EM geophysical surveys to find new potential kimberlites.

DIAGRAS – JOINT VENTURE



Diagras property in Blue JV Arctic Star (40%) & Margret Lake (60%).

The Property contains 13 known kimberlites discovered by DeBeers with Mag in the 1990's. We are targeting non-magnetics using new and improved gravity technology.

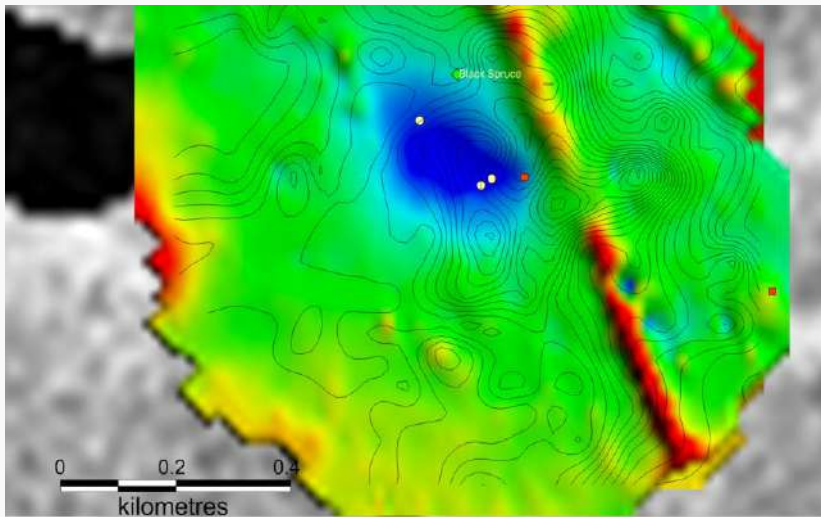
Green Diamonds are kimberlites.

Blue Diamonds are Kimberlites with mine plans that have Greater than 1ct/t.

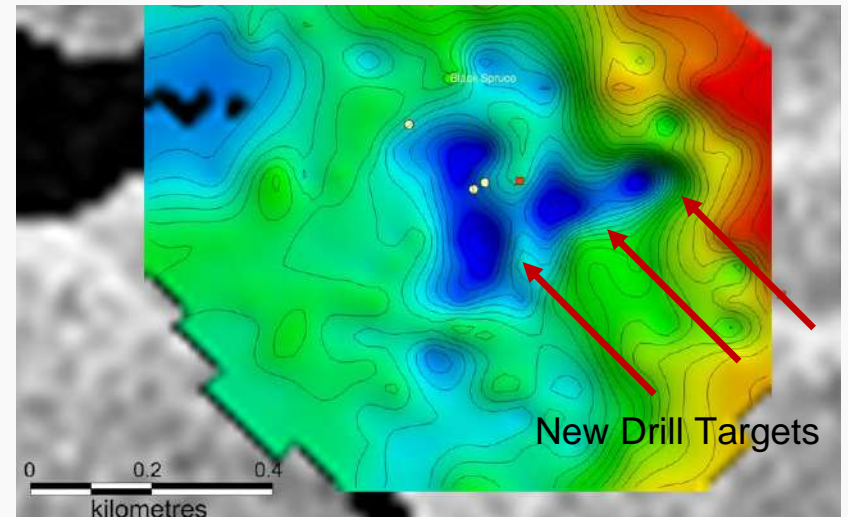
DIAGRAS – BLACK SPRUCE KIMBERLITE

MAG SURVEY 2017

GRAVITY SURVEY 2017

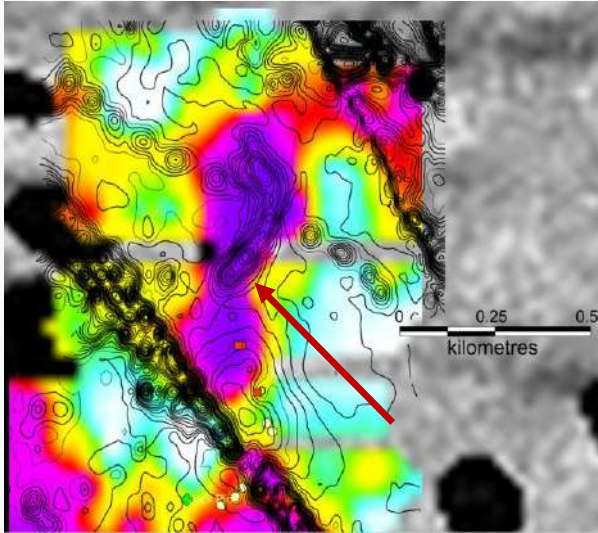


Yellow Dots (De Beers) Red Dots (Majescor) previous drill holes.



Gravity surveys show contrasts of Pyroclastic Kimberlite and kimberlite breccia revealing rock that is less dense than the surrounding country rock.

DIAGRAS – JACK PINE KIMBERLITE



Gravity Survey

Spring 2017 ground geophysical surveys

Color image Ohm Mapper EM results, 380m Elevation Slice

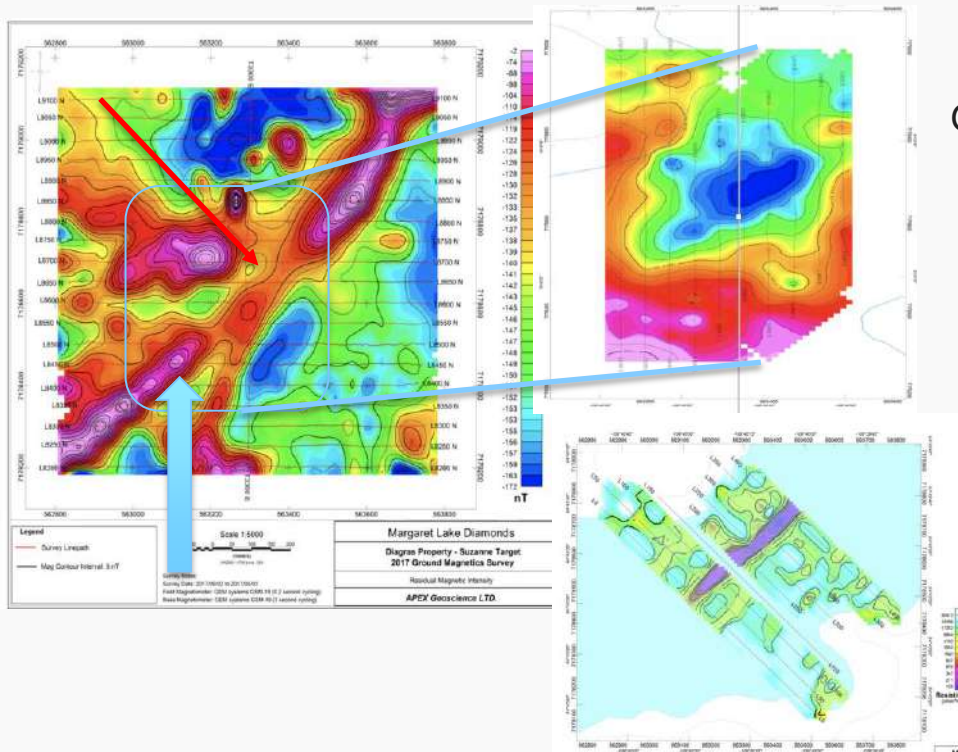
Contours Ground Magnetics

Red and yellow dots previously drilling by previous explorers

Red arrow large untested EM anomaly

		Diamond Size (mm)					
Kimberlites Of Interest	Sample Wt (kg)	0.074	0.104	0.15	0.212	0.3	0.45
Jack Pine	436.26	248	89	42	12	4	
Jack Pine	359.75		186	80	25	6	2
Black Spruce	167.15		7	3	2	2	

DIAGRAS - SUZANNE KIMBERLITE



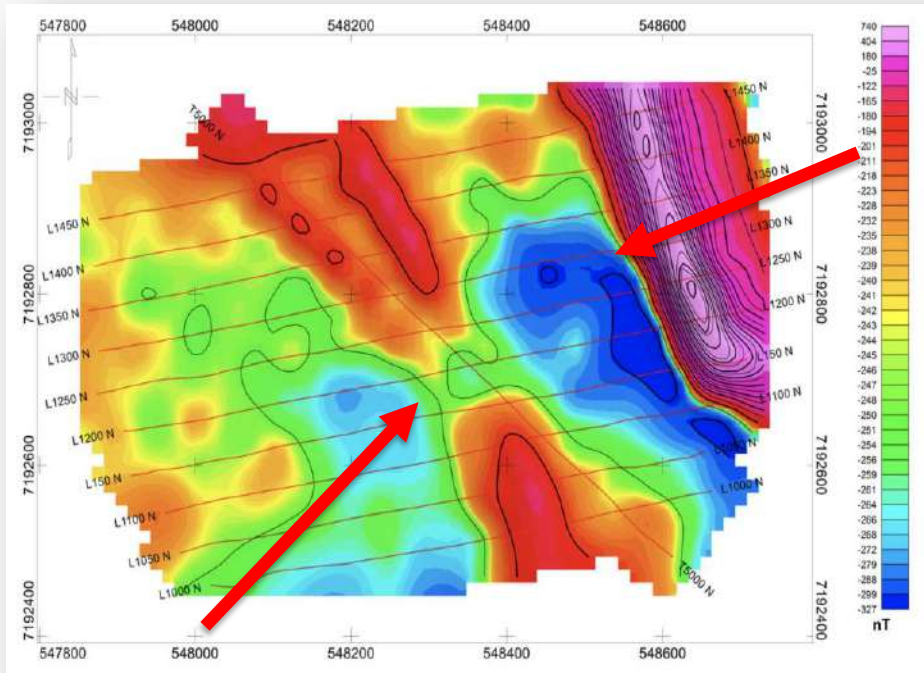
Gravity

Suzanne Kimberlite is assumed to be a magnetic low, (blue arrow). Ground Geophysical surveys conducted in spring 2017.

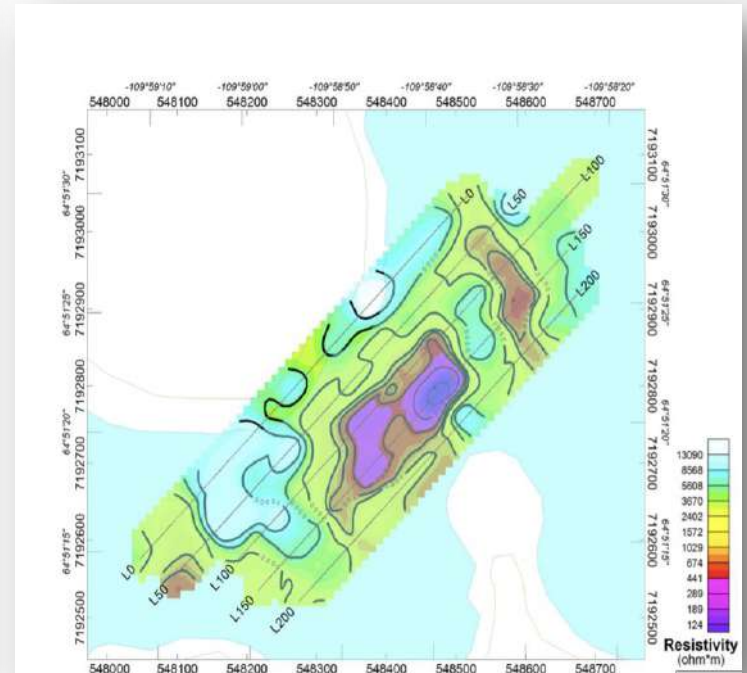
EM

A second drill target has been discovered showing a separated gravity low, and linear EM anomaly coincident with a break in a Diabase dyke.

DIAGRAS - HL02 KIMBERLITE

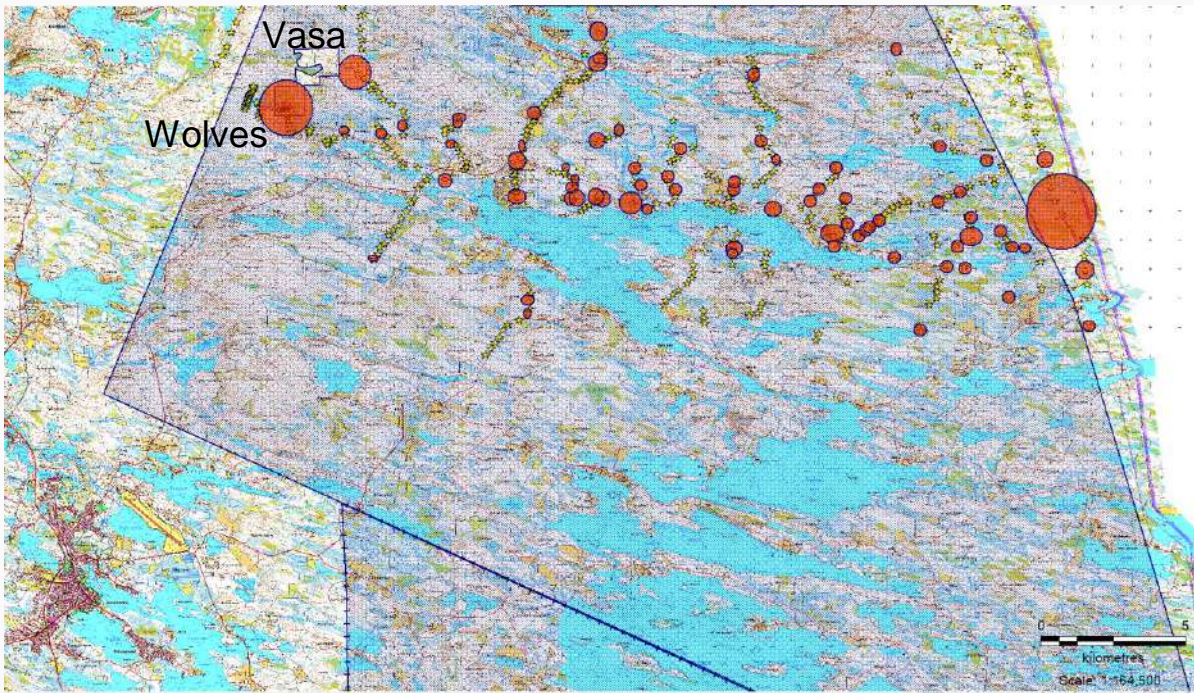


Two drill holes were previously drilled into a magnetic low shown by the red arrow.



Kimberlite was intersected. The EM anomaly shown above and located on the magnetic image by the black arrow, seems to break a Diabase dyke.

REGIONAL TILL SAMPLE - MORE TO BE FOUND



Till data a compilation from 2005 AGM European diamond power point & Arctic Star data.

Arctic Star and previous workers have found numerous diamond indicator minerals in the till samples

Red dots are indicator minerals, the large the dots have more indicators

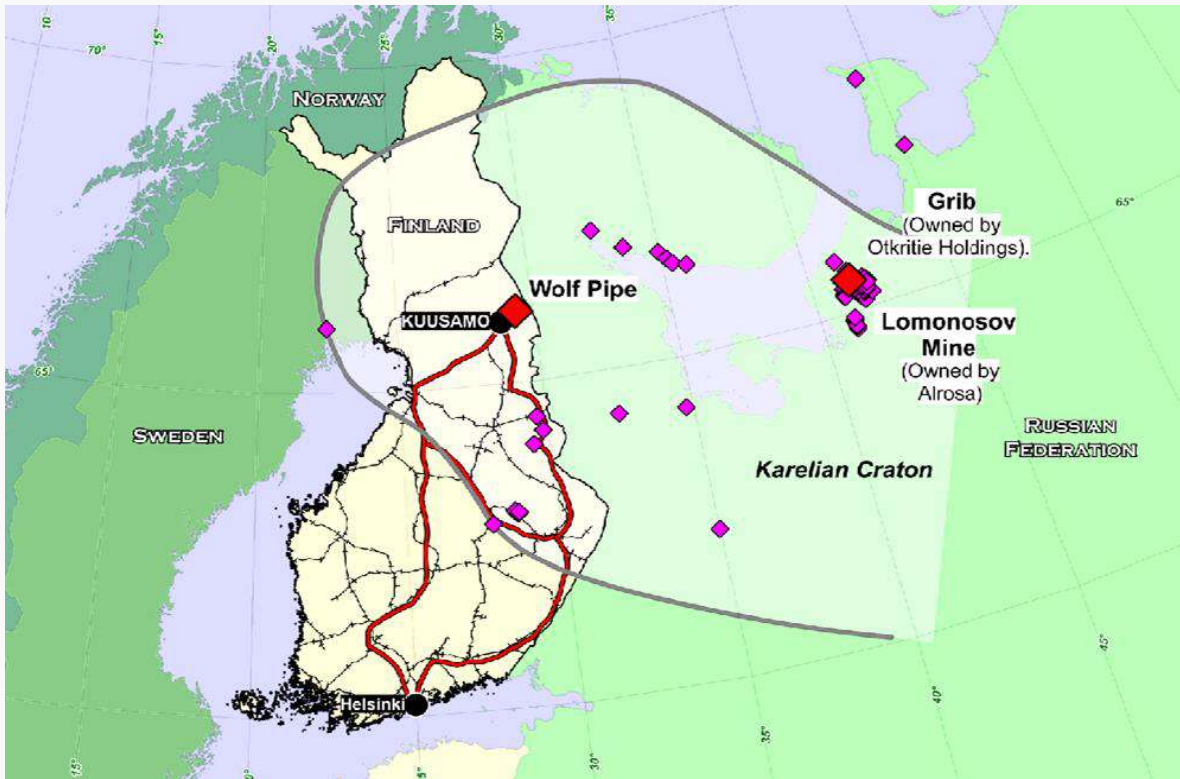
Topo map in purple shade are our exploration reservations

Blue boxes show areas for follow-up

Indicator distribution suggest more kimberlite sources to be found

Most of the exploration reservations are unsampled

TIMANTTI FINLAND – A NEW KIMBERLITE FIELD



Finland Was Ranked as World's #2 Mining Jurisdiction in the world by the Fraser Institute 2020.

100% Interest 243 Ha Exploration Permit near the town of Kuusamo. No Royalties.

District Scale Land Package: 193,700 Hectares or Exploration Reservation.

Same Geological belt of rock as Grib & Lomonosov. Both Mines Are Multi Billion Dollar Producers.

TIMANTTI – WORLD CLASS INFRASTRUCTURE



Air photo Kuusamo.
Source Kuusamo city website.



Kuusamo lies on crossroads of two major highways
Source Photo commons.



Part of the national energy grid
Adven owns a 6MW electricity plant in town which uses sawmill rejects. Map shows grid
Source Fingrid website

The Timantti diamond project lies between Kuusamo and the Russian border. It has excellent infrastructure and is possible to take a taxi from the airport to the project only 24 km away.

The municipality has a population of approximately 15,800 people.

Its main industries are Tourism, forestry, Reindeer herding, government and light industry.



Kuusamo International airport, daily flights to Helsinki
Source visit finland.



Ruka Finlands' most popular Ski resort lies 27km north of town outside the project area
Source Ski finland.



TIMANTTI HISTORY – 2018 WORK PROGRAM



4 Diamond Bearing Kimberlites Discovered

2 More Kimberlites Recently Discovered

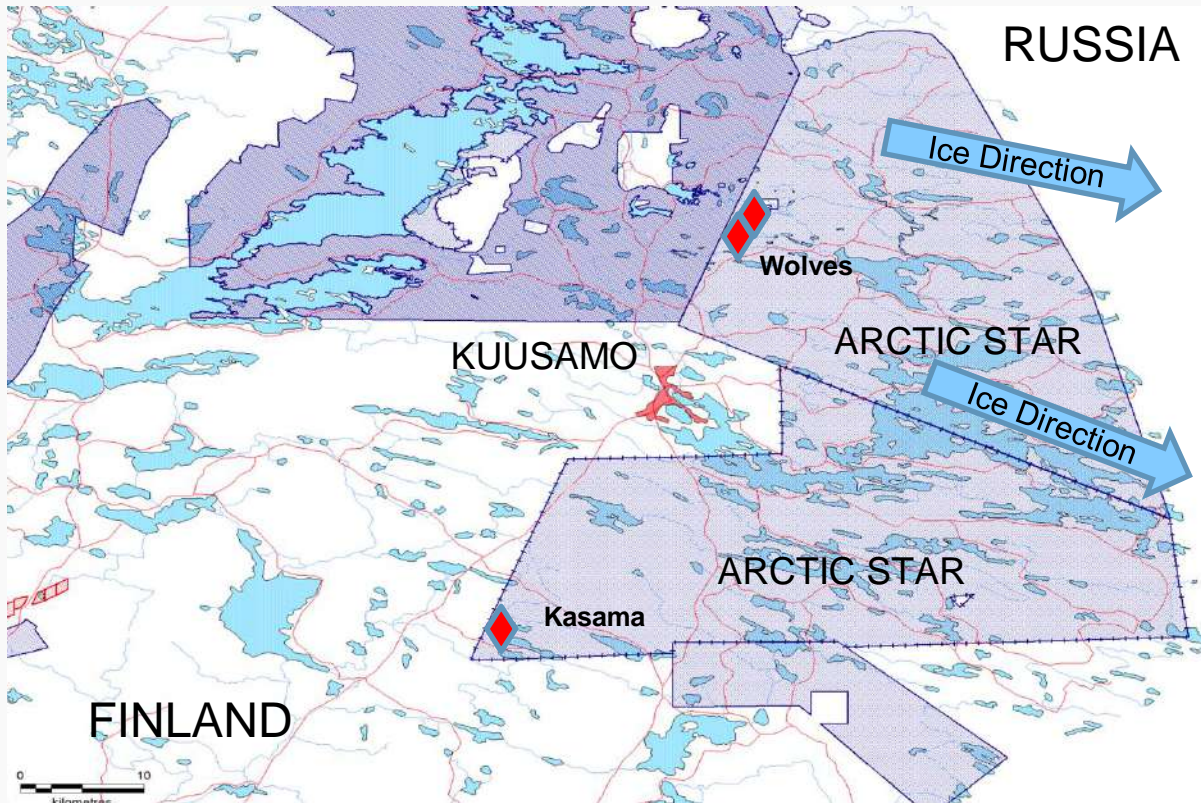
Ground Geophysics Complete: Magnetic, Gravity and EM Surveys

Excavator Till Sampling: 20 Samples ~50lbs

Drilled Approximately 600m



TIMANTTI - EXPLORATION RESERVATION

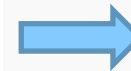


Exploration Reservation 193,700 Ha

Covers the extent of the large kimberlite indicator plume known from the Russian border.

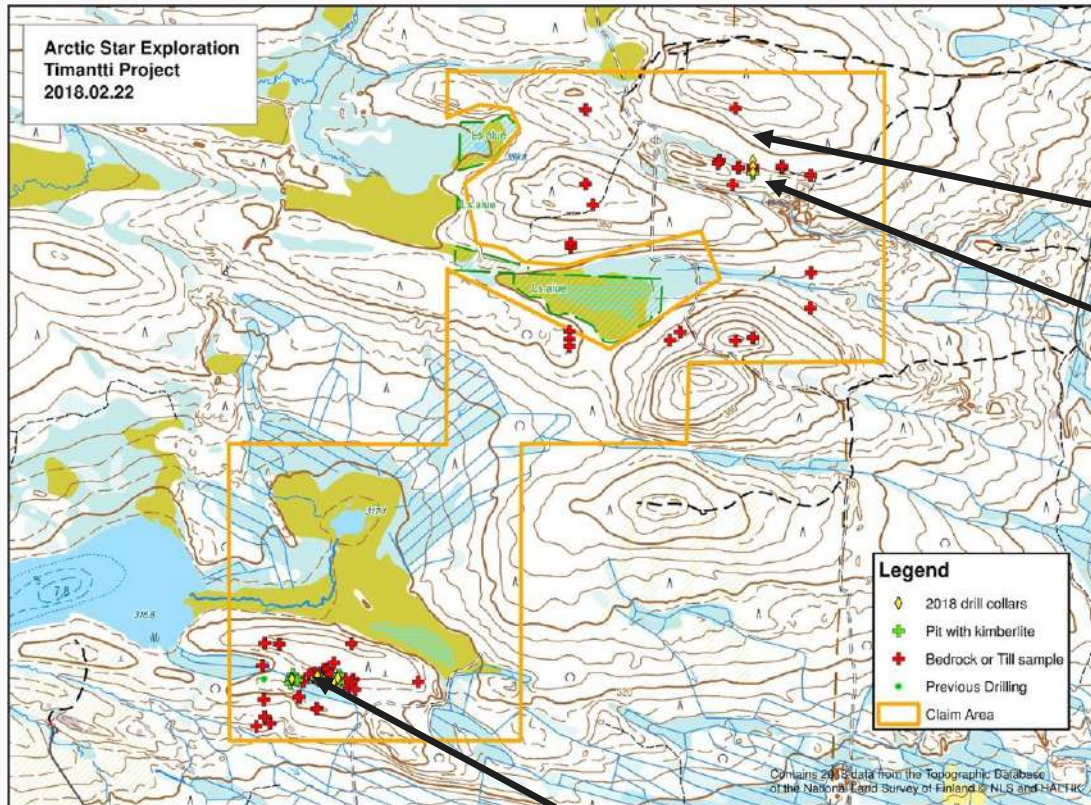
Public data thought to outline the extent of Timantti project kimberlite field.

ICE DIRECTION AND LOCATION OF BORDER INDICATOR ANOMALIES



KNOWN KIMBERLITES

TIMANTTI – 6 KIMBERLITES FIELD DISCOVERY



Plug & Karhu

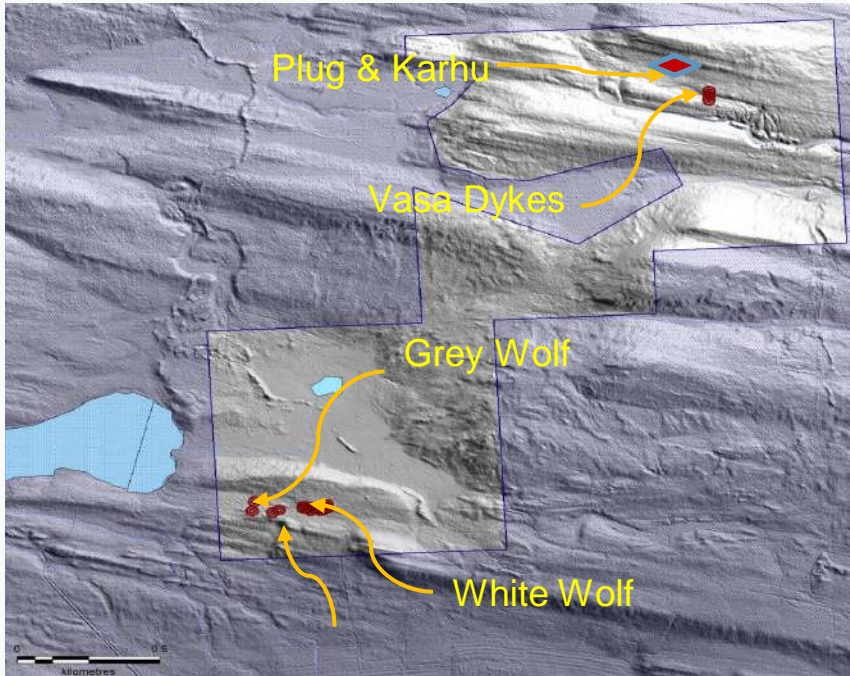
Vasa
Dykes

White, Black,
and Grey Wolf

TIMANTTI - DIAMOND RESULTS

Kimberlite	Sample Weight Kg	+0.106mm	+0.15mm	+0.212mm	+0.3mm	+0.425mm	+0.60mm	+0.85mm	+1.18mm	Total Stones
White Wolf	409.93	516	253	136	81	27	16	7	5	1,032
Black Wolf	349.75	267	138	87	45	16	3	3	0	559
Grey Wolf	201.64	57	32	33	16	2	3	0	1	144
Vasa Dykes	25.74	1	5	5	0	0	0	0	0	11
Total	987.06	841	428	261	142	45	22	10	6	1746

TIMANTTI – DRILL COLLARS



Location of drill collars and Kimberlites discovered to date

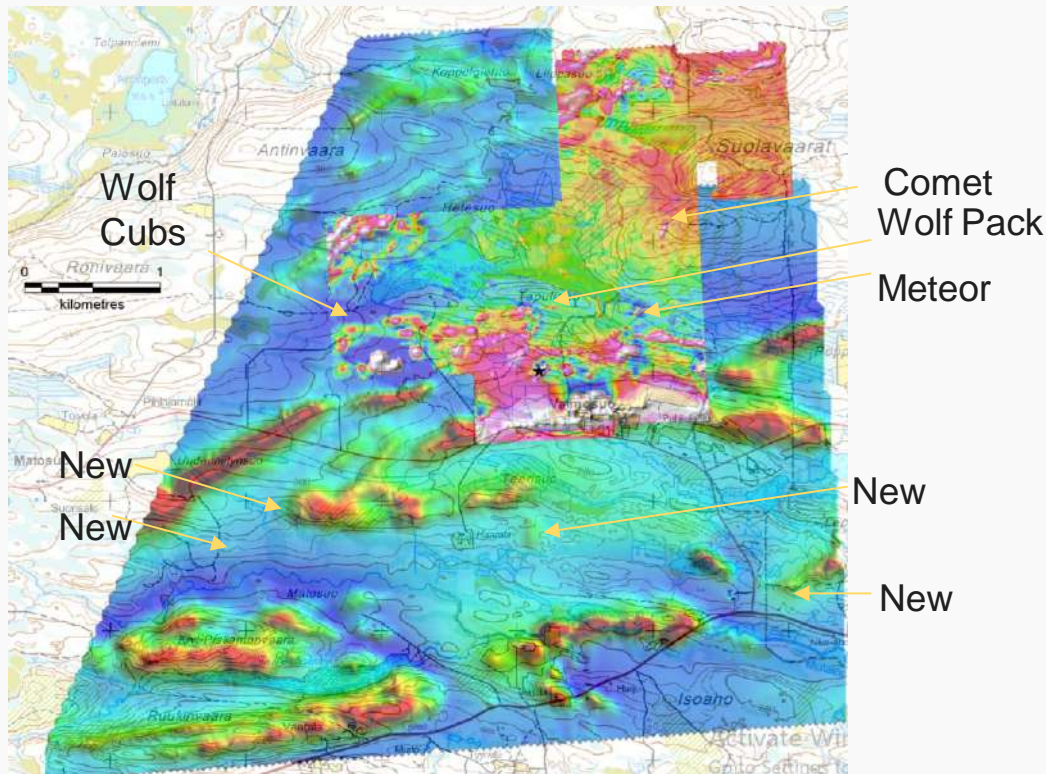
Karhu and Plug are new summer 2019 discoveries, diamond results awaited

Grey background Digital Elevation model

Ice direction characterized by drumlins

Scale bar 500m

TIMANTTI - NEW TARGETS



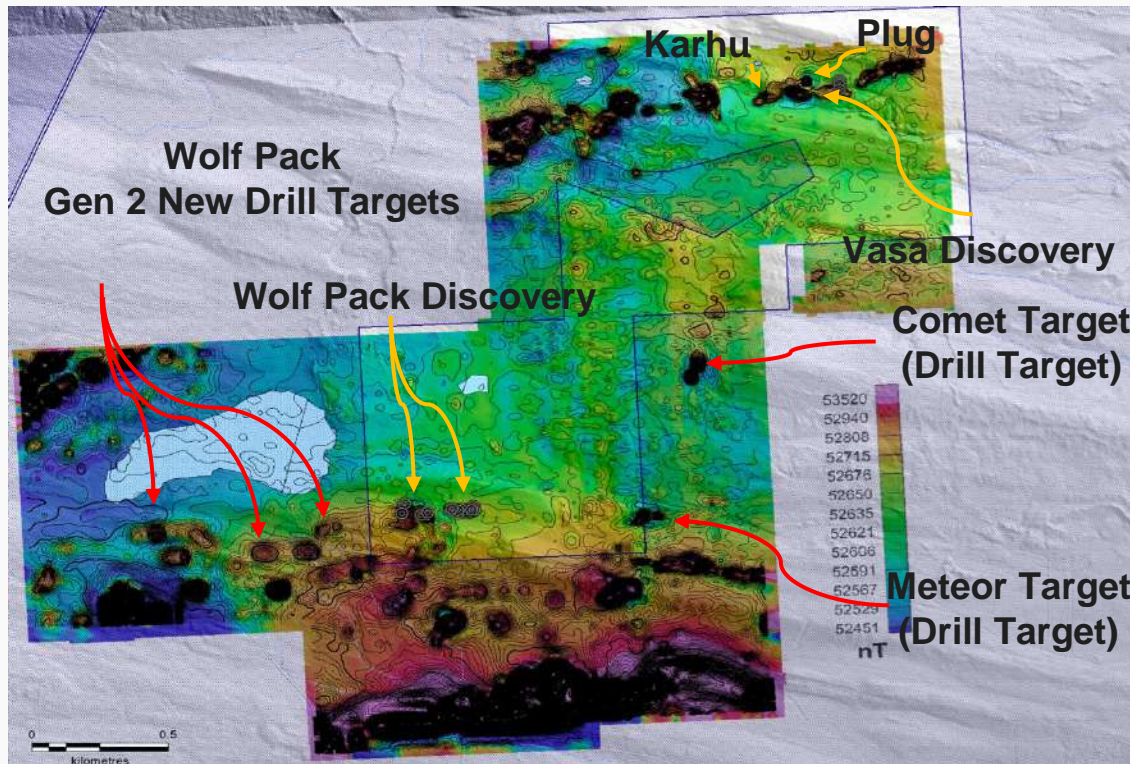
Arctic completed a 600 km² UAV magnetic survey this Summer, adding to our Winter ground Mag

Greenstones belts and gabbro sills dominate the image as long linear Mag highs

Some of the new targets highlighted, arrows, kimberlite targets

Kimberlite targets in the quite quartzites tend to stand out

TIMANTTI – NEW TARGETS CONTINUED

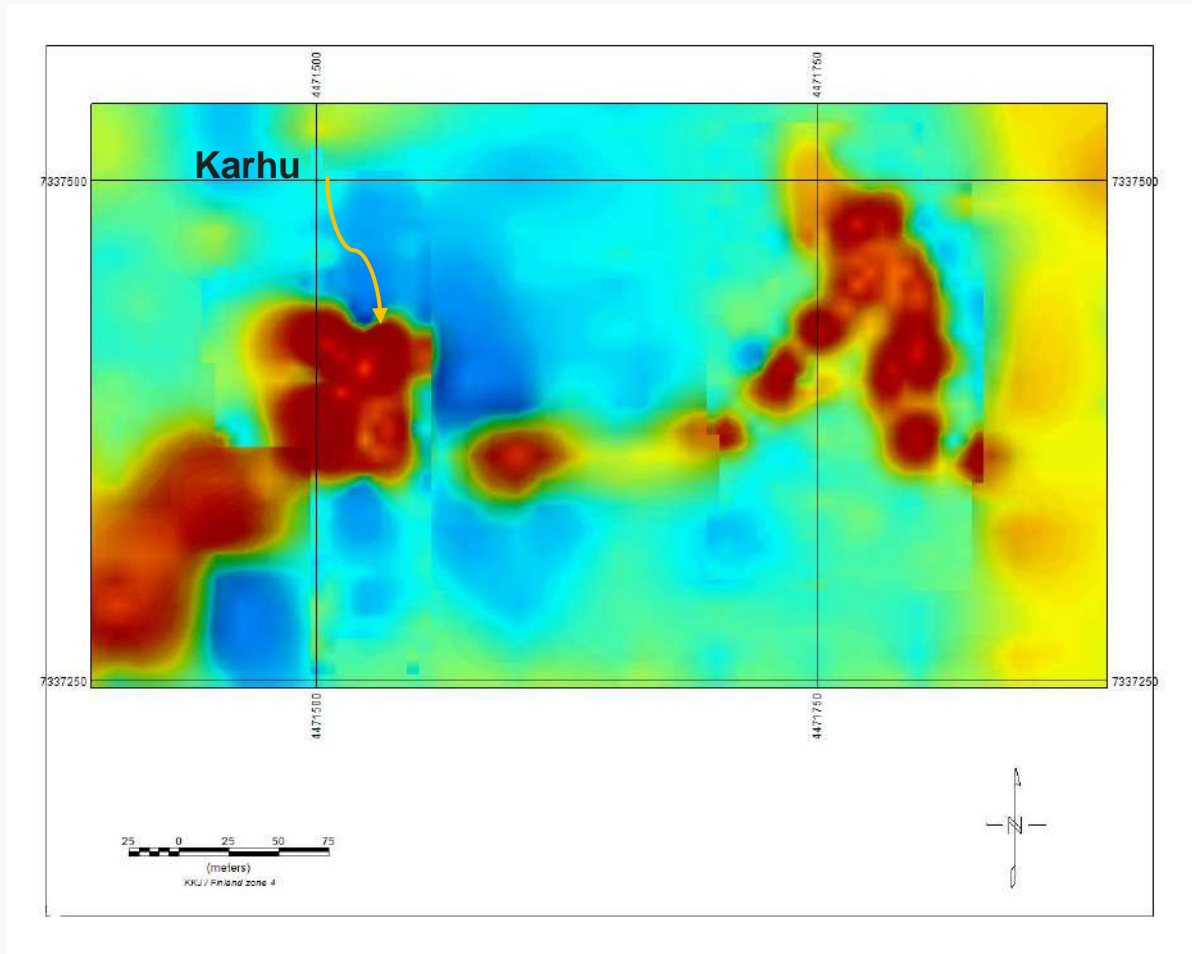


38 New untested drill targets for 2020. Red arrows point to the top priority targets.

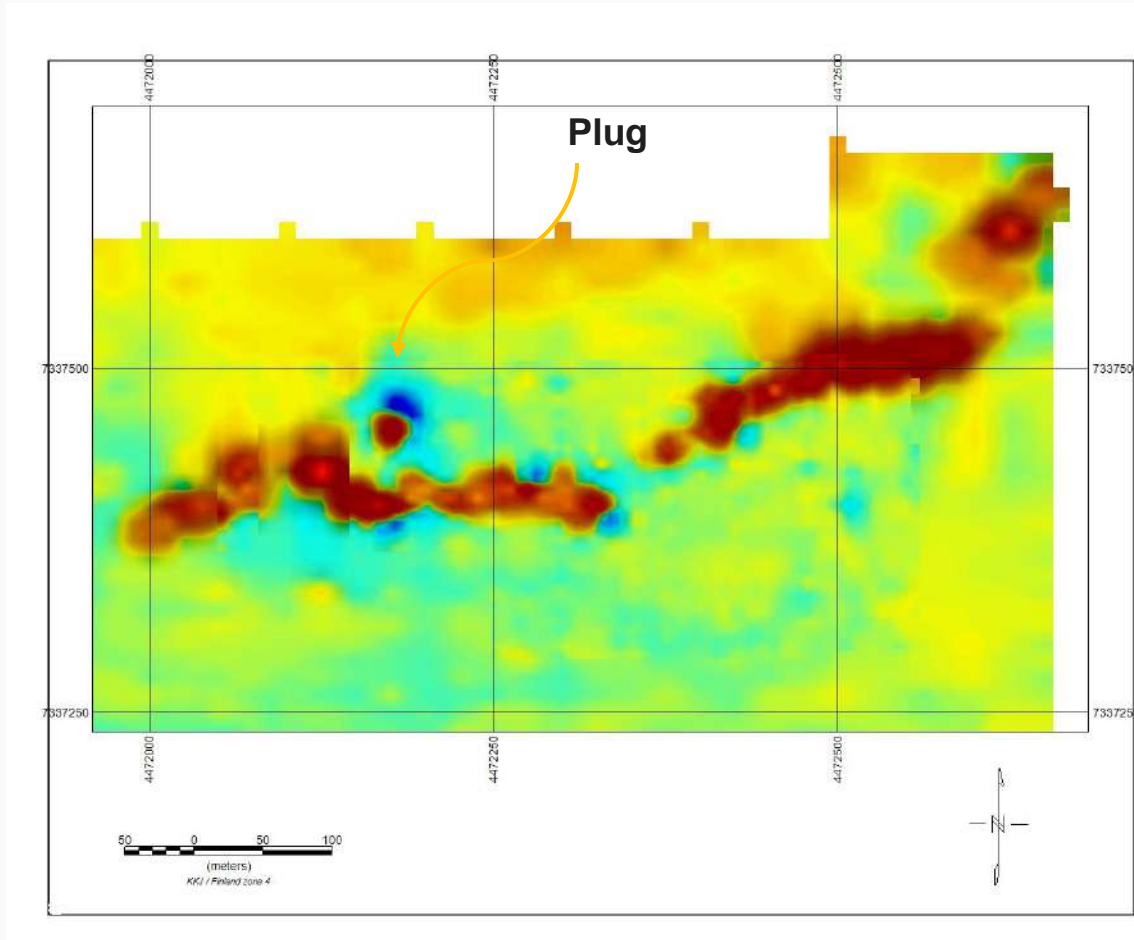
As little as 1-3 m overburden.

The Wolves seem to form an East-West trend (Yellow Arrows).

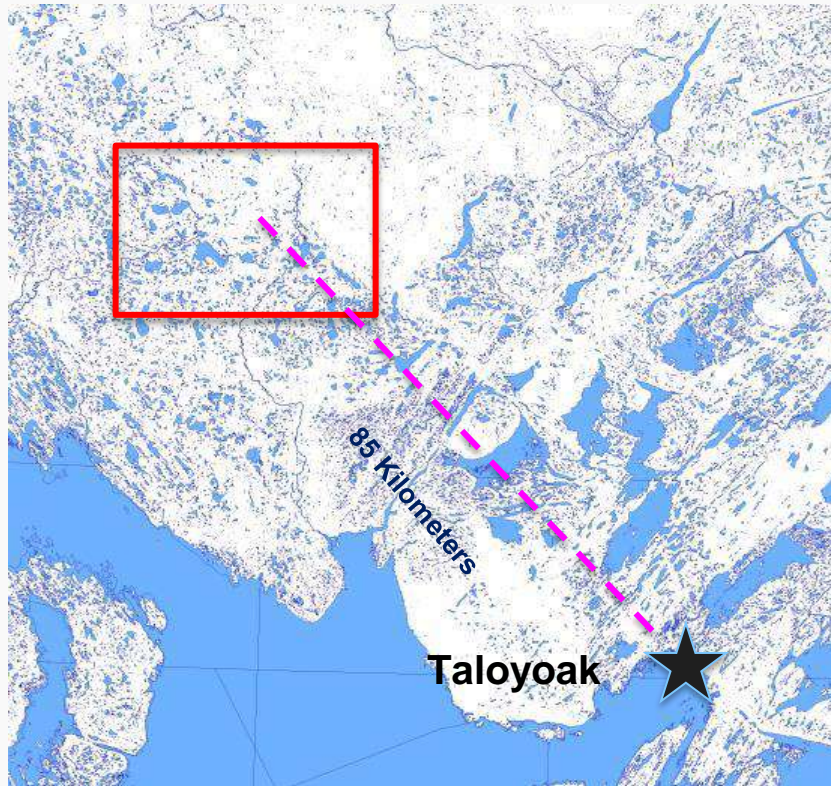
TIMANTTI – New Kimberlite Karhu



TIMANTTI – Plug New Kimberlite



STEIN PROJECT - LOCATION & OPTION WITH GGL



The STEIN project is 85 km Northwest of Taloyoak, Nunavut

GGL Resources Corp. has the option to earn into Arctic Star's Stein Project up to 60% by conducting ground geophysics on high priority drill targets and discovering kimberlite by drilling, trenching or in outcrop

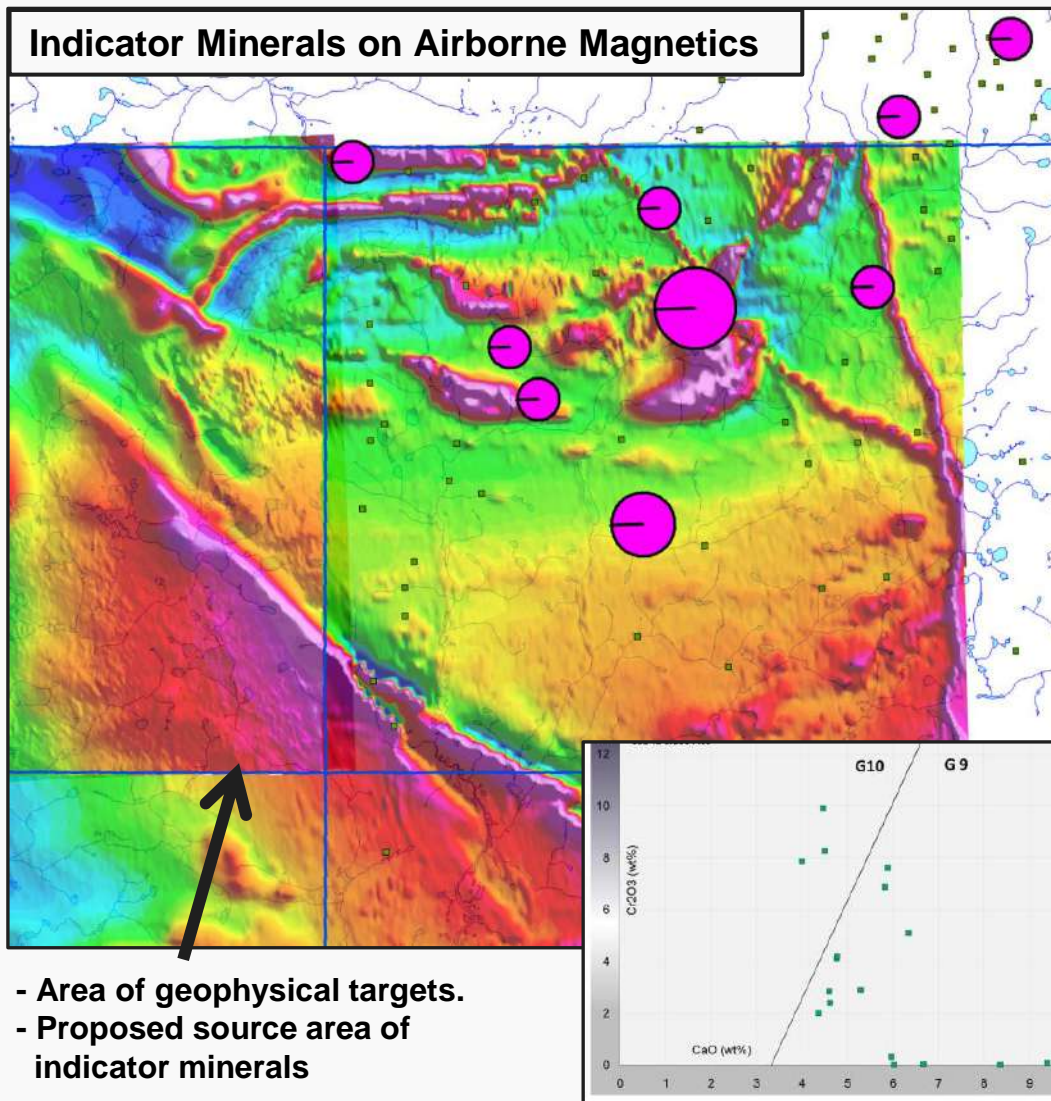
Stein property owns 4 permits covering 1,065 km²

\$1.5 mil of exploration expenditures by previous explorers. Permitted and drill ready.

Kimberlitic indicator minerals are showing high chrome, low calcium G10D pyrope garnets were followed up-ice direction

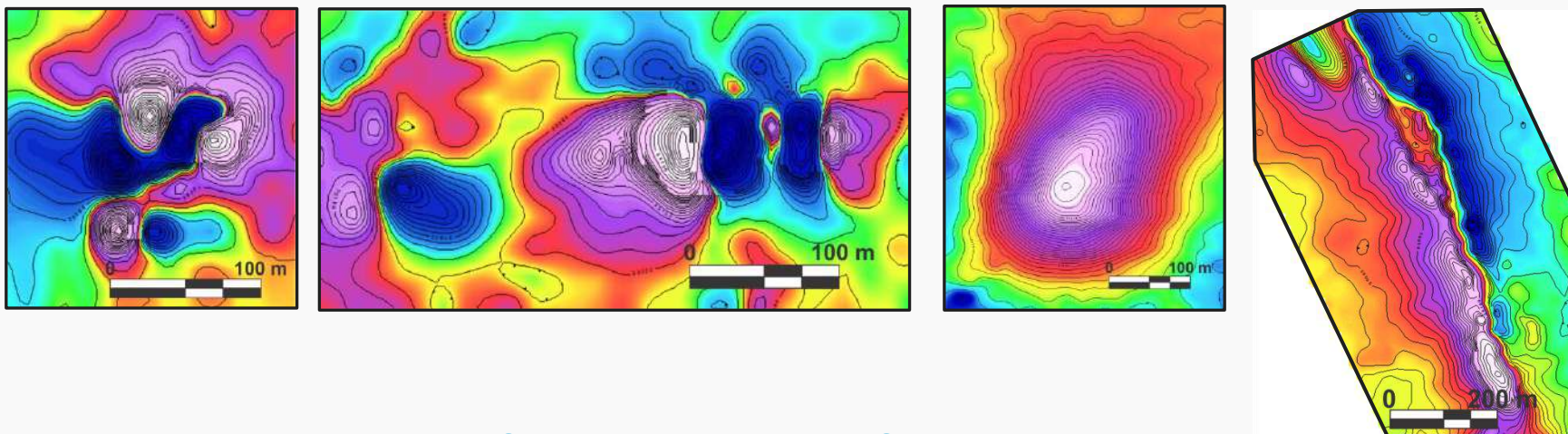
Potential New Diamond District

- Next steps – target evaluation with drilling
- Indicator minerals with diamond inclusion chemistry down ice from high priority targets
- Nearest known kimberlites 240km SE; perpendicular to regional ice flow
- Detailed ground geophysics defined numerous high priority targets
- No previous drilling





Stein Project



Stein Ground Magnetic Signatures

- Stein ground magnetic targets display characteristics consistent with magnetic signatures over known kimberlites elsewhere at parallel latitudes which have intruded Arctic Platform Cambrian - Devonian carbonate rocks. Similar geology also found on the Stein property
- A broad range of intrusive magnetic signatures were defined from isolated magnetic highs to strong dipolar features to elongate dyke-like signatures
- Isolated magnetic high 200 meter diameter, dyke-like signature 800 meters long



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