



AIM: KDR

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KDR focuses in Finland and Northern Ireland





Lahtojoki Diamond Deposit

Mining permit at advanced stage
Pink diamond presence enhances financial
potential

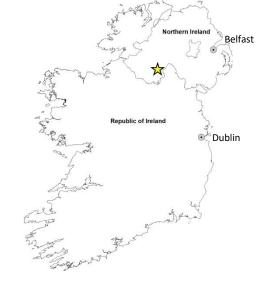
Diamond Exploration Programme in Finland

Discovery of green diamond and diamondiferous

kimberlites at Kuhmo

Northern Ireland

Initial diamond exploration led to positive Nickel – Copper – PGE results



Directors and Senior Management





Richard Conroy
(Executive Chairman)

Professor Richard Conroy has been involved a number of major mining discoveries, including the Galmoy zinc orebodies which led to the revival of the Irish base metals industry and the Pogo gold deposit in Alaska (now in production as a world class gold mine).



Maureen Jones (Managing Director)



Seamus P. FitzPatrick
(Deputy Chairman)

Maureen Jones has over 30 years executive experience in the natural resource sector including bringing the Galmoy mine through the mine permitting and development process and the discovery of the gold trends in the Longford Down Massif.



Howard Bird (Director)

Seamus FitzPatrick has worked in both corporate finance and private equity in London and New York with Morgan Stanley, JP Morgan and Banker's Trust. In 1999 he co-founded CapVest of which he is Managing Partner (which has raised funds in excess of £2.0 billion)



Brendan McMorrow (Non-Executive Director)

Howard Bird is an internationally experienced geoscientist. Former Senior Vice President of Global Exploration for Southern Era Diamonds Involved in the discovery to production success of several new economic diamond deposits.



Sorca Conroy
(Business Development)

Dr Sorca Conroy has over 15 years experience in directorship roles in the natural resources industry. Her experience also includes market facing roles with ING Bank, Canaccord Adams and Hoodless Brennan.

Brendan McMorrow has over 25 years' experience in the financial aspects of the natural resource industry, incorporating a senior role with Ivernia West plc in the discovery and development of the world class Lisheen zinc mine.



Cathal Jones (Chief Financial Officer)

Cathal Jones has over 15 years corporate finance advisory experience with Deloitte and PwC, and a further 9 years direct senior executive natural resource industry experience in oil and gas and mineral exploration and development.

Project Management and Technical Team





Dr Sorca Conroy – Business Development

Dr Sorca Conroy has over 15 years experience in directorship roles in the natural resources industry. Her experience also includes market facing roles with ING Bank, Canaccord Adams and Hoodless Brennan.



Cathal Jones – Chief Financial Officer

Cathal Jones has over 15 years corporate finance advisory experience with Deloitte and PwC, and a further 9 years direct senior executive natural resource industry experience in oil and gas and mineral exploration and development.



Kevin McNulty - Senior Geologist

Kevin McNulty has over 25 years' international exploration experience, primarily in the gold industry. He was involved with Pioneer's (now AngloGold Ashanti's) Teberebie gold mine in Ghana, and with other gold exploration projects in Ghana (including Sefwi and Nangodi). He also worked in Niger and Burkina Faso and South America prior to joining Karelian in 2005. He is a past President of the Irish Association of Economic Geologists, a Fellow of the Society of Economic Geologists, a member of the European Federation of Geologists and a professional geologist of the Institute of Geologists of Ireland.



Andrew Murrells - Senior Geologist

Andrew Murrells has over 15 years of international mineral experience, working in Liberia and Cameroon on gold, iron and uranium exploration projects before joining Conroy Gold in 2011. He was part of the team involved in discovering the billion tonne iron deposit at Nkout in Cameroon. He is a past President of the Irish Association of Economic Geologists.



Terhi Tulenheimo-Project Geologist - Finland

Terhi Tulenheimo has over 20 years experience in exploration particularly diamond exploration in Finland including at European Diamonds where she worked on the Lahtojoki project.



Howard Bird – Diamond Consultant

Howard Bird is an internationally experienced geoscientist. Former Senior Vice President of Global Exploration for Southern Era Diamonds Involved in the discovery to production success of several new economic diamond deposits.



Paul Dinkin - Project Geologist - Ireland

Paul Dinkin has over 15 years of international mineral experience, including project development in Africa, South America and the Middle East.

Why Diamonds



- Diamond demand has historically been driven by a growing population and increasing prosperity internationally
- Diamond supply expected to wane as older diamond mines near the end of their life with few new significant diamond discoveries
- While demand for clear diamonds has been challenged by the advances in synthetic diamonds, naturally occurring coloured diamonds are highly sought after
- Company's Lahtojoki deposit contains pink diamonds and other coloured diamonds which can command prices up to 20 times that of colourless diamonds
- Revenue from pink diamonds accounted for 50% of total revenue at Rio Tinto's Argyle mine even though the pink diamonds contributed less than 5% of the diamond total production of the mine

Karelian diamond exploration target

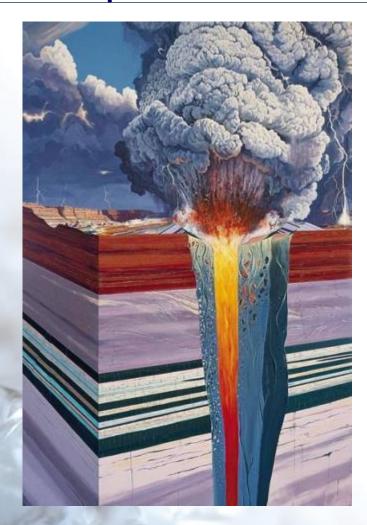


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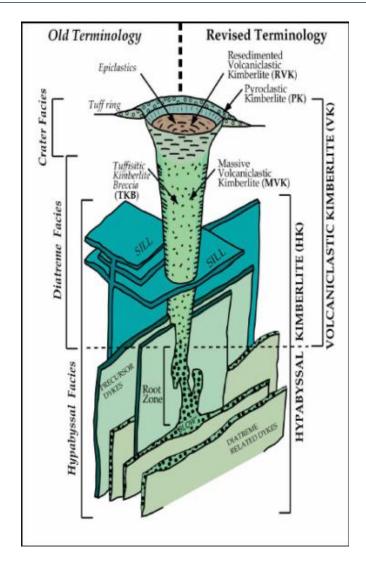
- Karelian's exploration target is the discovery of a world class diamond deposit in Finland similar to the world class diamond deposits found in similar geology elsewhere in the Karelian Craton
- The presence of the Lahtojoki diamond deposit confirms the diamond potential of the Finnish section of the Karelian Craton and also the potential for coloured diamonds
- Karelian owns the Lahtojoki diamond deposit which contains coloured diamonds
 and proposes to develop the deposit as a diamond mine

Kimberlite Pipe: Essential pathway for diamonds formed deep below Earth's crust



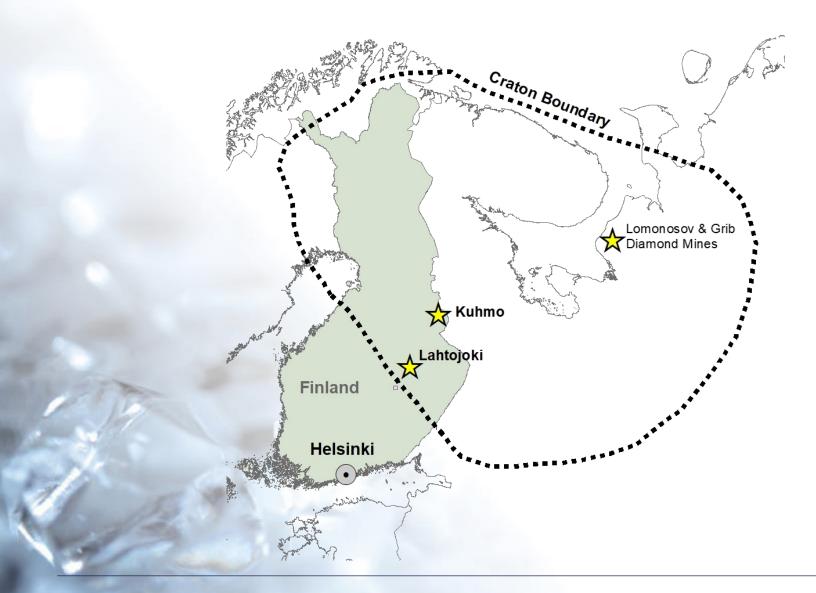


Volcaniclastic Kimberlite Pipe - Cross-section



Lahtojoki Diamond Deposit - Location





Lahtojoki Diamond Deposit



- An independent Preliminary Economic Assessment (PEA) has been completed.
 This was primarily based on the technical data of previous operators.
- However, the deposit is known to contain pink and other coloured diamonds. The PEA does not take into account the numbers and percentages of the pink and coloured diamonds. These figures have yet to be precisely determined. Their presence could substantially increase profitability.
- Permission to proceed with development at Lahtojoki is currently at an advanced stage

Lahtojoki Deposit – PEA Highlights



- PEA suggests 2.11M Carats recoverable with a gross value of US\$211M
- 5.6 million tonnes at c.40 cpht
- 9 year mine life with payback in year 2
- IRR 55% and NPV (@8%) US\$39.1M
- Financial effect of the presence of pink and other coloured diamonds not accounted for in PEA
- Mining operation recommended



LAHTOJOKI DIAMOND DEPOSIT

Mining in Finland



- Finland has a highly skilled work force, advanced technical and logistical services and an established mining industry
- Infrastructure is excellent with direct access by road and readily available adjacent power supply to the Lahtojoki diamond deposit
- Relatively few other diamond deposits are at such an advanced stage of development, or as accessible, as Lahtojoki. Such as those in the north of Canada or the outback in Australia.

Lahtojoki Deposit – Diamond Quality





Lahtojoki Diamonds

High (60%) gem quality diamonds

Lahtojoki Deposit – Pink Diamonds





Lahtojoki Pink Diamonds

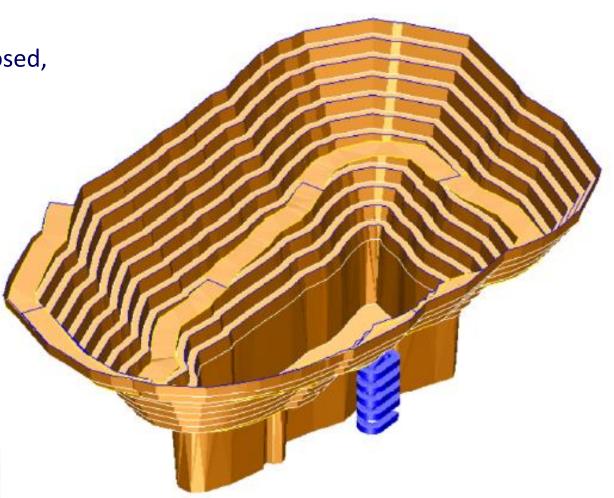
Lahtojoki Mine – Proposed Development



A simple open pit mine is proposed, with an in-wall ramp extension

ESG

Diamond recovery is one of the cleanest forms of mining



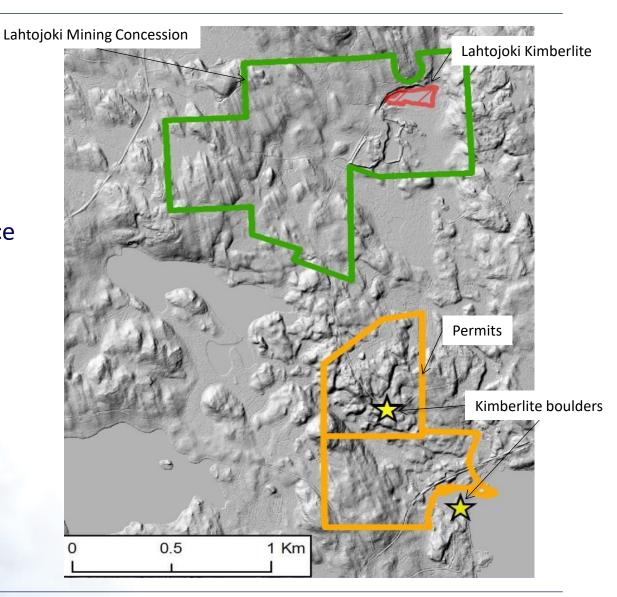
LAHTOJOKI PROPOSED OPEN PIT

Lahtojoki – Adjacent potential



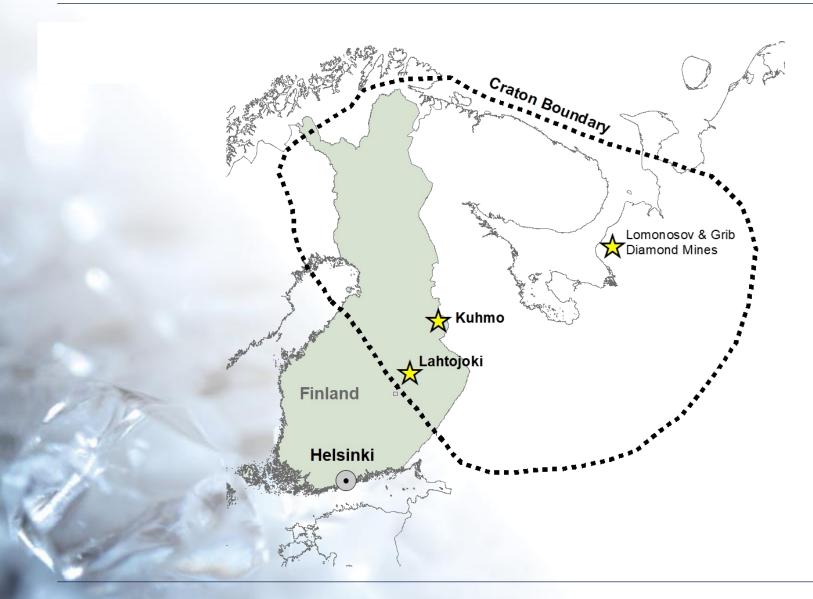
Kimberlites tend to occur in clusters

Potential for additional resourceexpansion in adjacent areas



Diamond Exploration Focus – Kuhmo Region





Diamond Exploration Programme



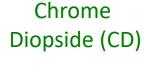
- A systematic exploration programme has been carried out by Karelian in the Finnish Sector of the Karelian Craton.
- The Company has focussed on the diamond potential, including coloured diamonds, of the Kuhmo region to the northeast of Lahtojoki
- Geological and geophysical studies have been followed up by an extensive till sampling programme resulting in the discovery of kimberlitic indicator trains and also the discovery of a green diamond

Kimberlite Indicator Minerals "KIMs"



Mantle minerals known as kimberlite indicator minerals "KIMs" including diamonds are associated with kimberlite bodies. Examples include:

Chrome – pyropes (Garnet group)



Diamonds





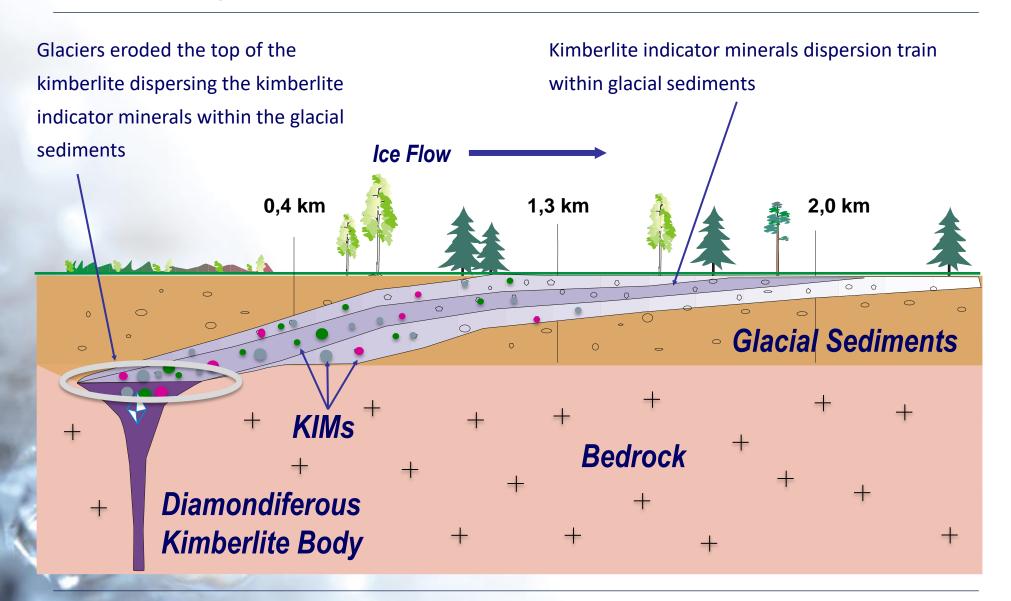


G10 Chrome - pyropes are particularly important as they have been found as inclusions in diamonds.

G9 Chrome – pyropes are found in the same stability field as diamonds

Diamond Exploration Backtracking Kimberlite Indicator Minerals





Green Diamond Discovery by Karelian



- Sparkling clear crystal with clean faces
- Diameter 0.8mm
- ODM Laboratory, in Canada, which recovered the diamond has processed more than 50,000 exploration till samples worldwide but has only recovered less than 10 naturally occurring diamonds including the Karelian discovery seen here.



Exploration to discover source



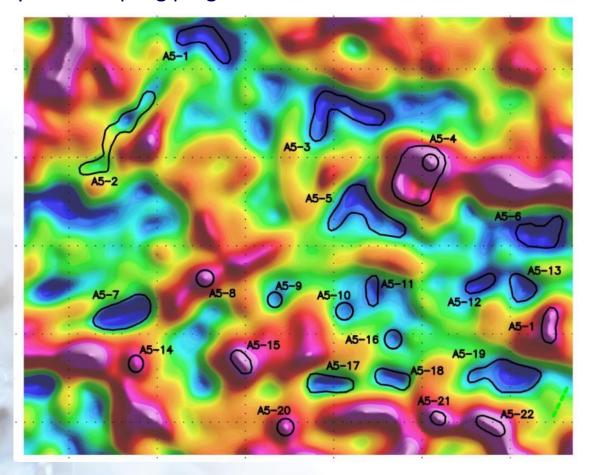
- Follow up exploration has been focussed on the source of the green diamond
- UAV Geophysics survey identified a number of kimberlite targets
- Till Sampling together with a pitting and drilling programme is underway



UAV Survey: Geophysics Targets

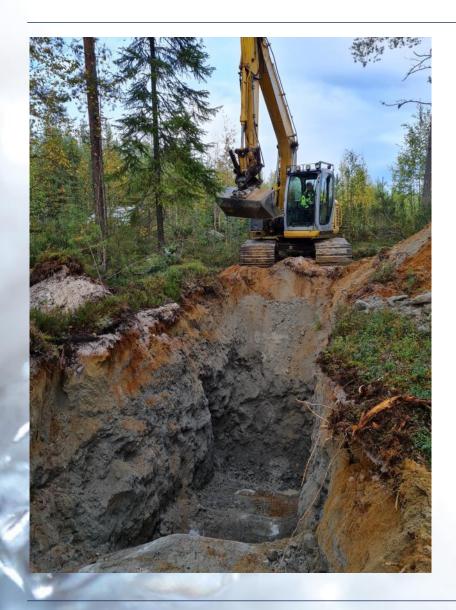


The UAV geophysics survey yielded a series of targets. These geophysics targets were followed up by a till sampling programme for kimberlitic indicator minerals



Till Sampling Process







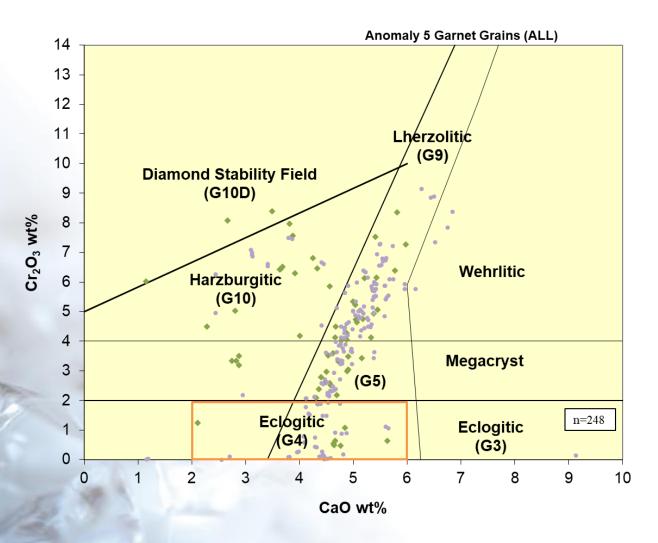
Proximity to Source of Green Diamond



- 4 16 of the 25 basal till samples contained kimberlite indicator minerals which were sent for Electron Microprobe Analysis
- Analysis showed the presence of diamond stability field garnets (G10D) and other diamond-facies garnets (G4D and G5D)
- The results indicate a deep mantle source for kimberlite originating from the diamond stability field where diamonds are formed
- The results are a clear indicator both of the diamond potential of the Kuhmo
 Green Diamond Target area and of proximity to the source of the green
 diamond

Garnet Chemistry





- New Anomaly 5
- Previous Anomlay 5

Data used in RNS - 9 Aril 2024

Northern Ireland





History of Nickel-Copper-PGE discoveries in Diamond Exploration



Diamond exploration can lead to the discovery of Nickel-Copper-PGE. The classic example of this is the world class Nickel discovery at Voisey's Bay in Canada

This famous discovery was made in 1994 during a diamond exploration programme, the deposit subsequently being purchased by INCO for \$4.3 billion



VOISEY'S BAY NICKEL DEPOSIT

Initial Northern Ireland Exploration Programme



The historic diamond discovery of the Brookeborough diamond, together with more recent reports of the recovery of kimberlite chromites in the area prompted Karelian to initiate a diamond exploration programme in Northern Ireland



The Colebrooke River in County Fermanagh in Northern Ireland was the reported location of the discovery of the Brookeborough Diamond (in 1816)

Stream Sediment Survey





Stream sediment sampling in County Fermanagh Initial work done - 2022 – further sampling done in 2023

Stream Sediment Results indicated Nickel-Copper-PGE source



- Samples were dispatched to ODM laboratory in Canada for kimberlitic indicator mineral analysis
- The results were not, however, indicative of a kimberlite source i.e. diamond source
- The indicator minerals instead were indicative of the presence of a magmatic sulphide rich Nickel-Copper-PGE (Platinum-Group Elements) source
- The samples reported magmatic, massive sulphide indicator minerals (MMSIMs) Chalcopyrite, and Low Chrome Diopside with significant numbers of Chromite (CR) and Forsterite Olivine (FO) indicator minerals all indicative of a Ni. Cu. PGE source.

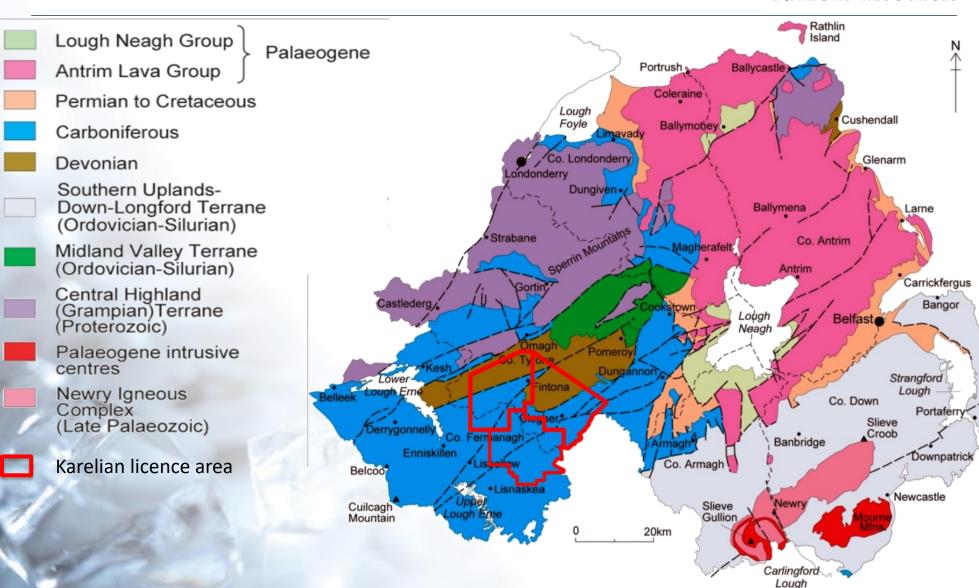
Acquisition of Additional Licences



- Detailed geological and geophysical follow up review led to the acquisition of additional Licences over adjacent acreage
- Company's overall land position in Northern Ireland now covers c.750Km²

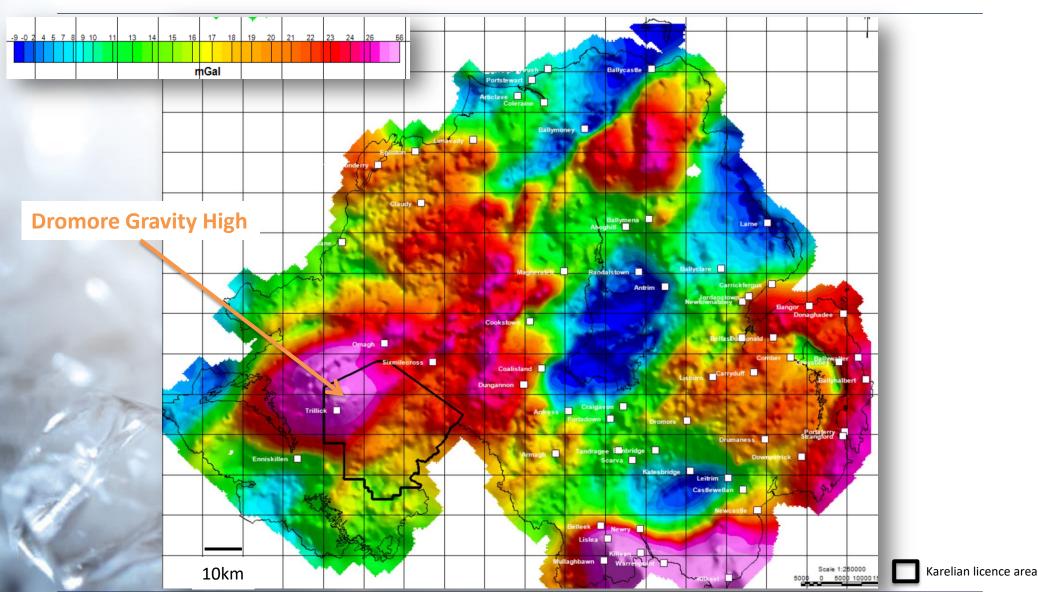
Location of Additional Licences





Bouger Gravity Survey





Further Stream Sediment Survey over Enlarged Licence Area



- Results confirmed the prospectivity of the Company's enlarged licence area for Nickel - Copper - PGE
- Over 1,000 indicator minerals, primarily MMSIM's Chromite and Forsterite with some Chalcopyrite and gold grains identified
- Microprobe analysis of the Chromites showed high zinc oxide values. Such high zinc oxide values in Chromites are a signature of sulphide rich Nickel-Copper-PGE deposits.
- Microprobe analysis of the Chromites also revealed Fe-Ni-S (Pentlandite)
 inclusions, significant as such inclusions demonstrate the presence of nickel mineralisation

Summary



Lahtojoki Diamond Deposit

Mining permit at advanced stage

Pink diamond presence enhances financial potential

Diamond Exploration Programme in Finland Discovery of green diamond and diamondiferous kimberlites at Kuhmo

Northern Ireland

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