



ARKLE

RESOURCES PLC

MINERAL EXPLORER

July 2023



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COMPANY OVERVIEW



Market: AIM

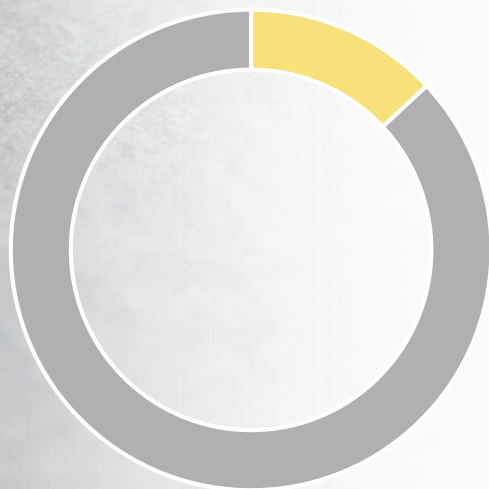
Ticker: ARK

Shares in issue: 345,382,426

Share Price: .6 GBX

Market Cap: £2.0m

Shares not in public hands: 8.6%



■ DIRECTORS ■ OTHER INVESTORS

SIGNIFICANT SHAREHOLDERS

Hargreaves Lansdown (Nominees) Limited	12.99%
Jim Nominees Limited	12.95%
Interactive Investor Services Nominees	9.42%
Michael O'Reilly	6.53%

ABOUT US



Arkle is an experienced mineral explorer with zinc and gold opportunities in Ireland and an emerging interest in battery group metals in Southern Africa

- We have a high grade zinc resource in our Limerick joint venture – currently drilling
- We are developing gold project opportunities in Wexford / Wicklow and in Donegal
- We are examining opportunities in battery group metals in South Africa, Botswana and Zimbabwe. In Zimbabwe we have obtained 3 small licences containing lithium spodumene.

BOARD & MANAGEMENT TEAM



John Teeling Chairman

Over 40 years' resources experience, including the early days of zinc mining in Ireland, John founded Arkle Resources (previously named Connemara Mining) and, amongst others, African Diamonds developing the Karowe mine in Botswana (now Lucara), Pan Andean Resources, Minco, and Kenmare Resources. Mr. Teeling holds degrees in Economics and Business from University College Dublin, an MBA from Wharton and a Doctorate in Business Administration from Harvard.

Jim Finn Financial Director

Over 20 years' experience with exploration companies and extensive experience in their administration, responsible for listing several resource companies, including two of the first companies ever listed on AIM - Pan Andean Resources and African Gold. He holds a degree in Management and an Association of Chartered Certified Accountants (ACCA) qualification.

David Cockbill Non-Executive Director

Experienced corporate financier and public capital markets executive. Studied accountancy at Manchester University before commencing a 35 year career in the City of London at various leading investment banks as a proprietary trader. David has been a Financial Conduct Authority regulated person for the last five years, focusing on opportunities within the micro-cap sector and raising capital for public companies in the natural resources and technology sectors.

Gavin Berkenheger Consultant Geologist

Chartered and European Geologist, extensive knowledge of Irish and UK mineral deposits. Has spent the last 15 years exploring for gold and base metal resources in Ireland and Scotland, aided in the development of the Curraghinalt gold deposit in Northern Ireland and is a Director of GreenOre Gold Plc exploring for gold in Scotland. He holds honours degree in Geology and Petroleum Geology from the University of Aberdeen.

GOLD & ZINC IN IRELAND



Gold

- **Dalradian-hosted targets gathering interest across Ireland and Scotland**
- **Six million ounce resource at Curraghinalt (Dalradian Resources) at planning application stage**
- **Galántas in Omagh shipped first concentrates**
- **Arkle Resources active on Mine River and Inishowen projects**
- **New entrants Demir of Turkey in JV with Conroy Gold on licences in Monaghan**

Zinc

- **60 years' history of major zinc mines**
- **High prospectively for zinc**
- **High grade orebodies with clean metallurgy**
- **Majors Boliden, Vedanta, Anglo and Lundin have operated mines in Ireland**
- **Boliden's Tara mine at Navan developing new Resources at depth**
- **South32 optioned ground west of Stonepark, Limerick**

Gold & ZINC PROJECTS



Gold

Inishowen, Donegal

100% Arkle

**Mine River,
Wicklow/Wexford
border**

100% Arkle

Zinc

Stonepark, Limerick

23.44% Arkle

76.44% Group Eleven

IRISH ZINC



Mines	Mt	Zn+Pb%
Navan Tara	110.0	10.0
Lisheen	18.9	15.0
Silvermines	18.0	8.9
Tynagh	9.0	11.2
Galmoy	6.2	12.4
Resources	Mt	Zn+Pb%
Pallas Green	45.1	8.0
Tara Deep	18.2	9.2
Kildare	9.0	9.5
Stonepark	5.1	11.3

STONEPARK ZINC DISCOVERY

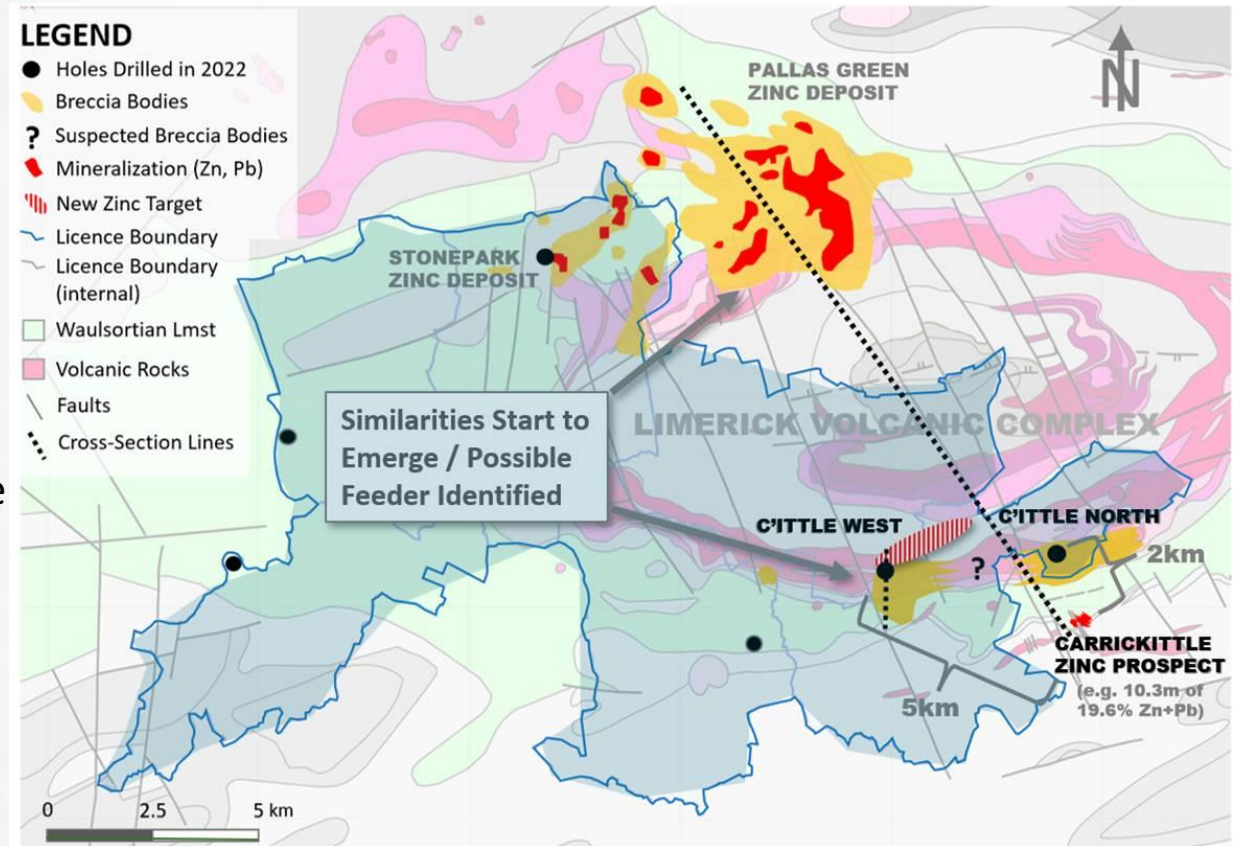


- **23.44% interest**
- **Maiden Independent NI43-101 Inferred Resource 5.1 Mt grading 11.3% combined (8.7% Zn and 2.6% Pb)**
- **Adjacent to Glencore's Pallas Green Resource 45.1 Mt grading (8 % combined Zn+Pb) – strategic location**
- **Relatively shallow deposit occurring at depths ranging from 190m to 395m**
- **Spectacular grades - 5.40m of 25.0% zinc and 7.2% lead at Stonepark North**

STONEPARK ZINC: DRILLING 2022



- **7 holes drilled** across entire block
- Three completed at **Carrikittle North, Carrikittle West and Stonepark West**
- **Plus 4 short exploratory holes** completed within the other licences
- An additional deep hole to target major fault structure discovered at Carrikittle West will be drilled in the coming year

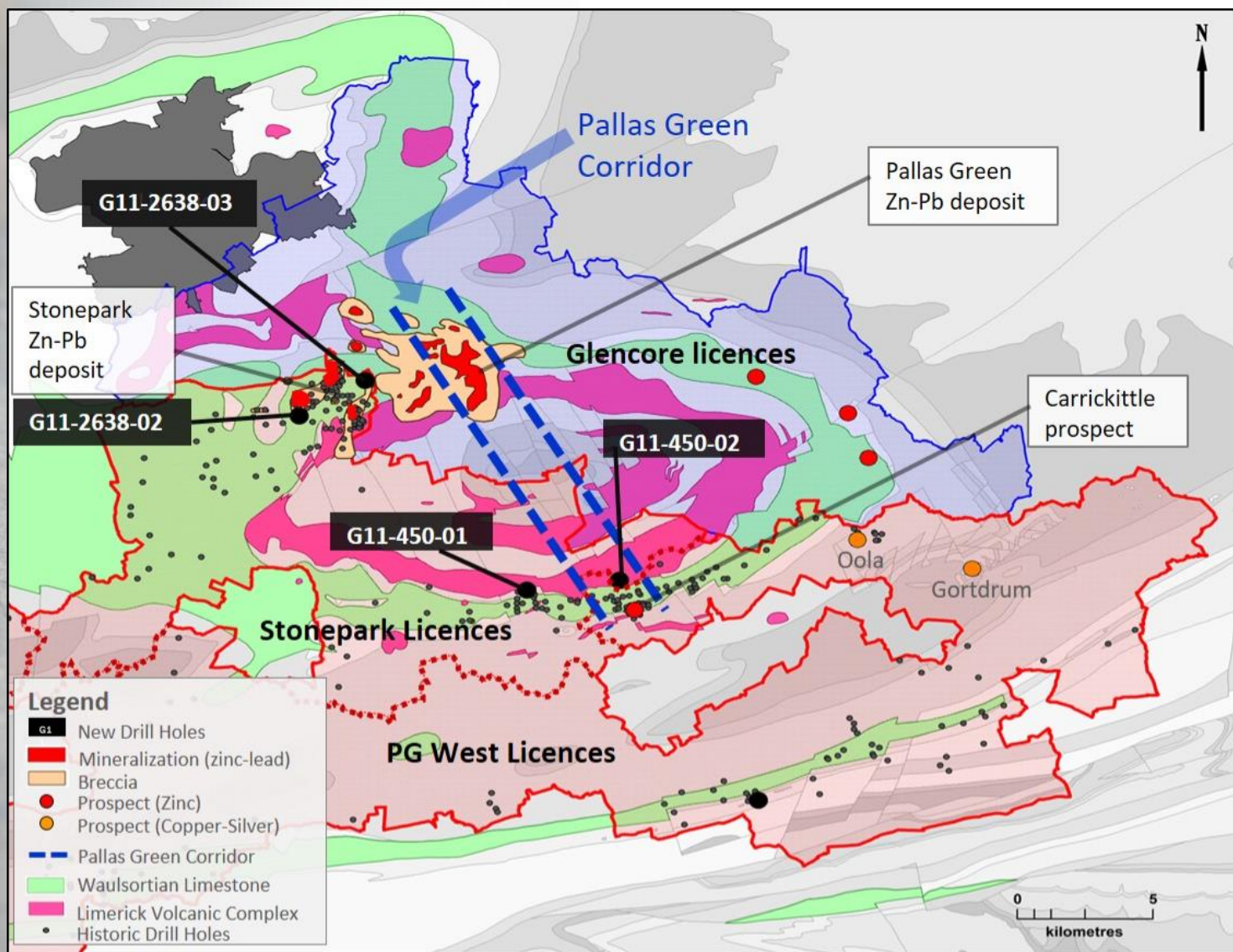


STONEPARK ZINC: SUMMARY OF 2022 DRILLING



- **First ever drill intercept of a major fault structure in the Limerick region, that is also zinc hosted (Carrickittle West)**
- Major Fault Structure identifies a **new high priority zinc target at depth** for immediate follow-up drilling
- Drilling extends the thick package of hydrothermal activity at Carrickittle North which is **associated with large scale zinc deposits** like that at Pallas Green
- Further drilling at Stonepark West proves that the **zinc mineralisation extends out with the main resource area**
- A Deep hole will be drilled which will likely be slightly shallower than Stonepark's deepest which was 927m (TC-2531-01)

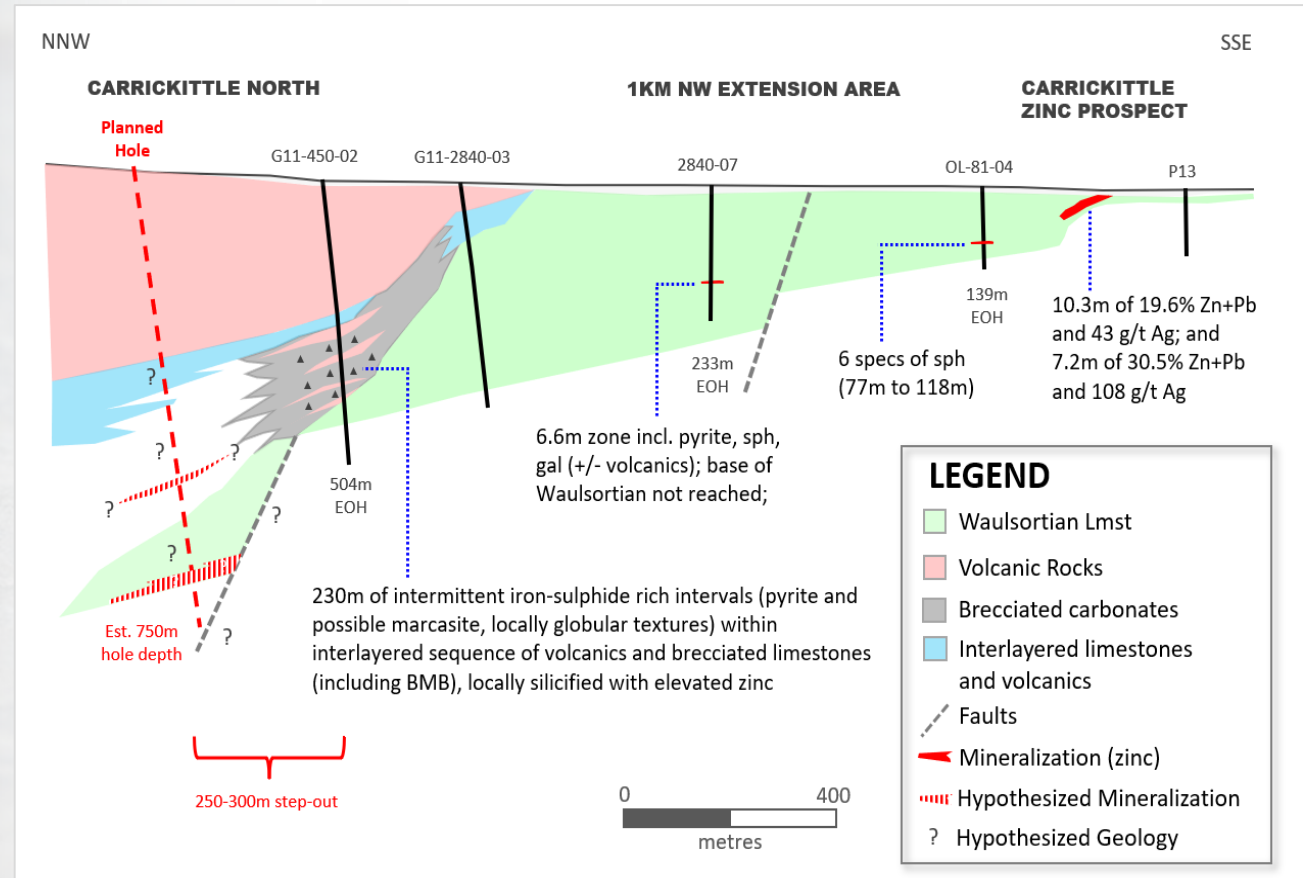
STONEPARK ZINC 2022 DRILLING



STONEPARK ZINC: CARRICKITTLE NORTH, STONEPARK BLOCK



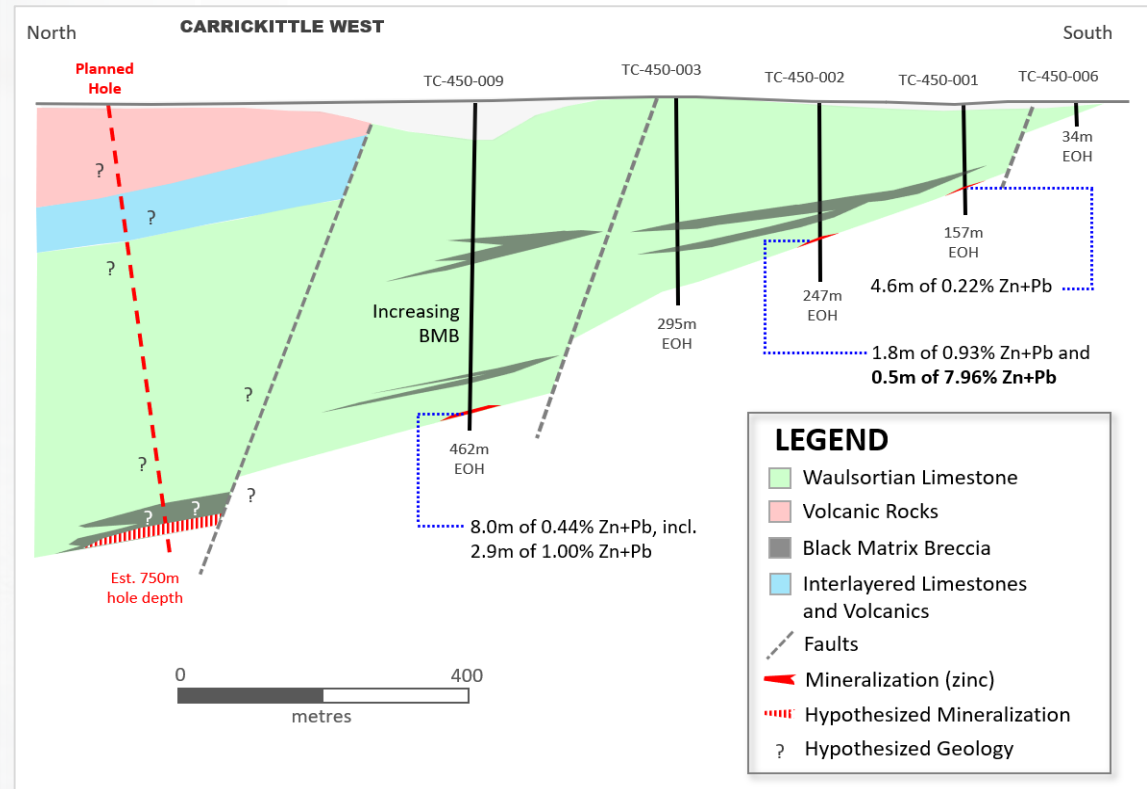
- 250m step out from Killeteely hole
- 750m deep
- Focused on northern portion of the Carrickittle prospect
- Intercepted extensive brecciation and pyrite



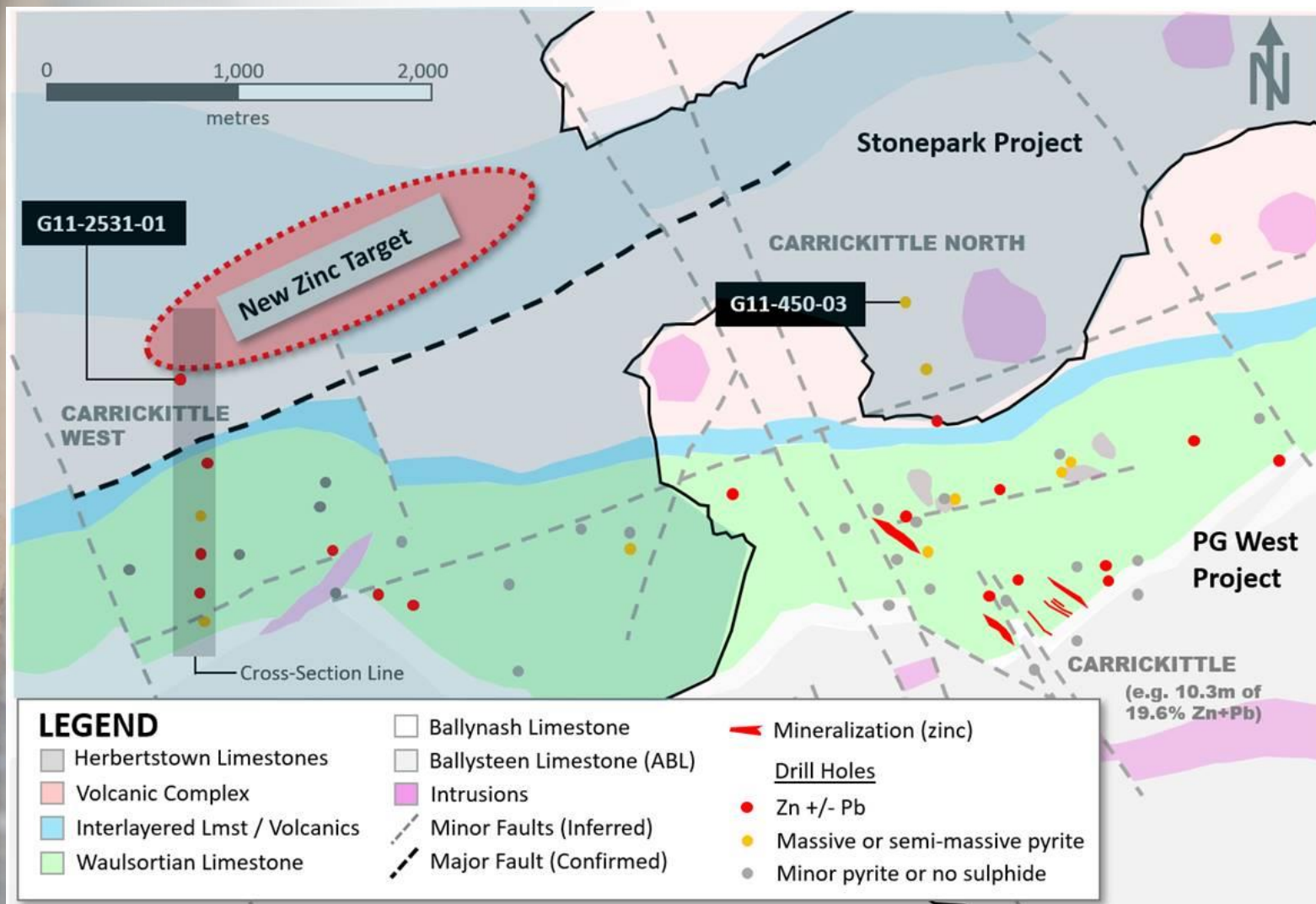
STONEPARK ZINC: CARRICKITTLE WEST, STONEPARK BLOCK



- 400m step out from far western portion of the Carrickittle prospect
- Intercepted a **major fault structure** at 544m showing a large vertical displacement of 150m
- A new high-priority zinc target identified



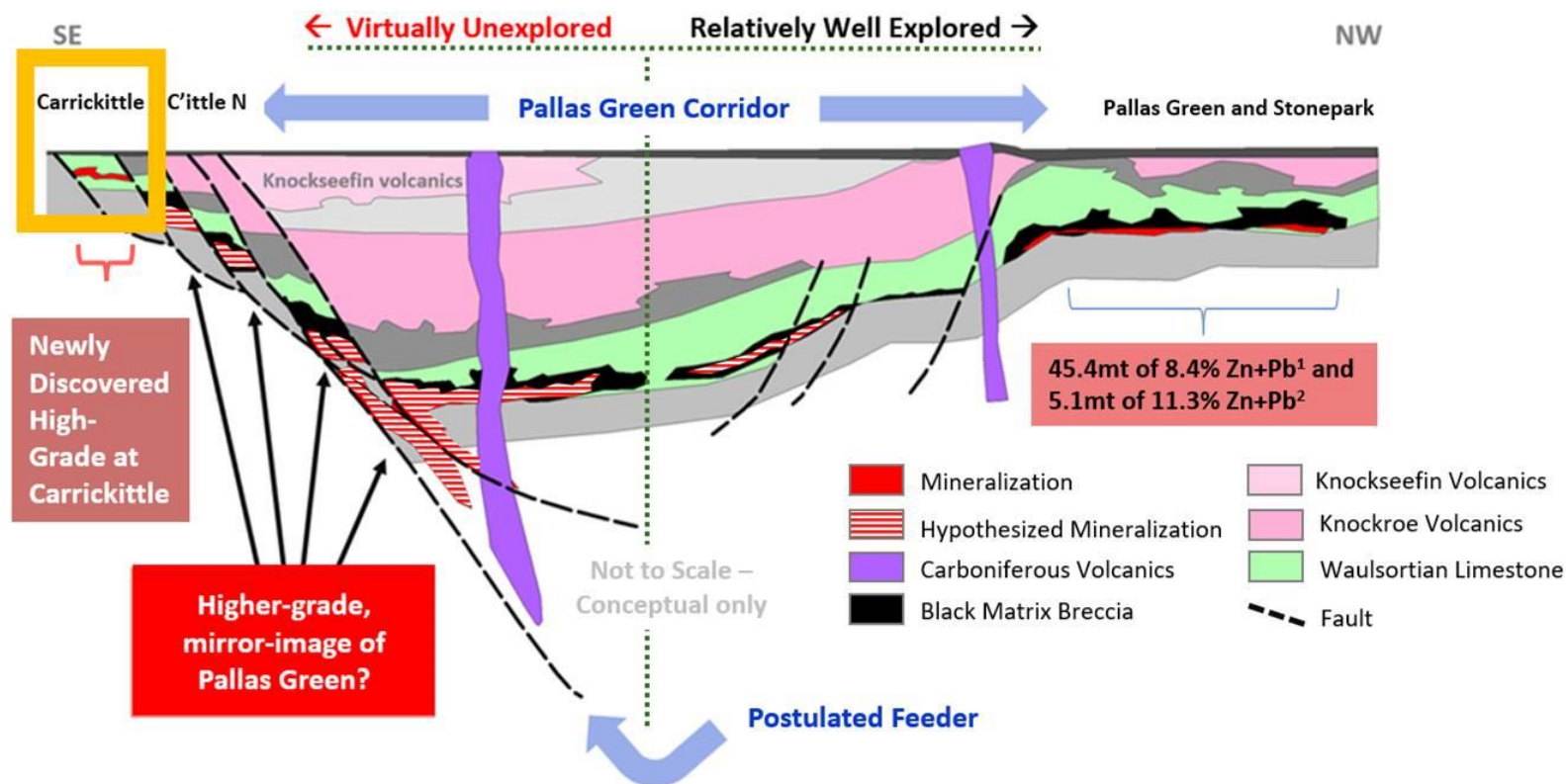
STONEPARK ZINC: CARRICKITTLE WEST



STONEPARK ZINC: CARRICKITTLE WEST

Cross Section of Hypothesized Roots of the Limerick System

Main Zinc Mineralizing System May Occur Under the Volcanic Complex



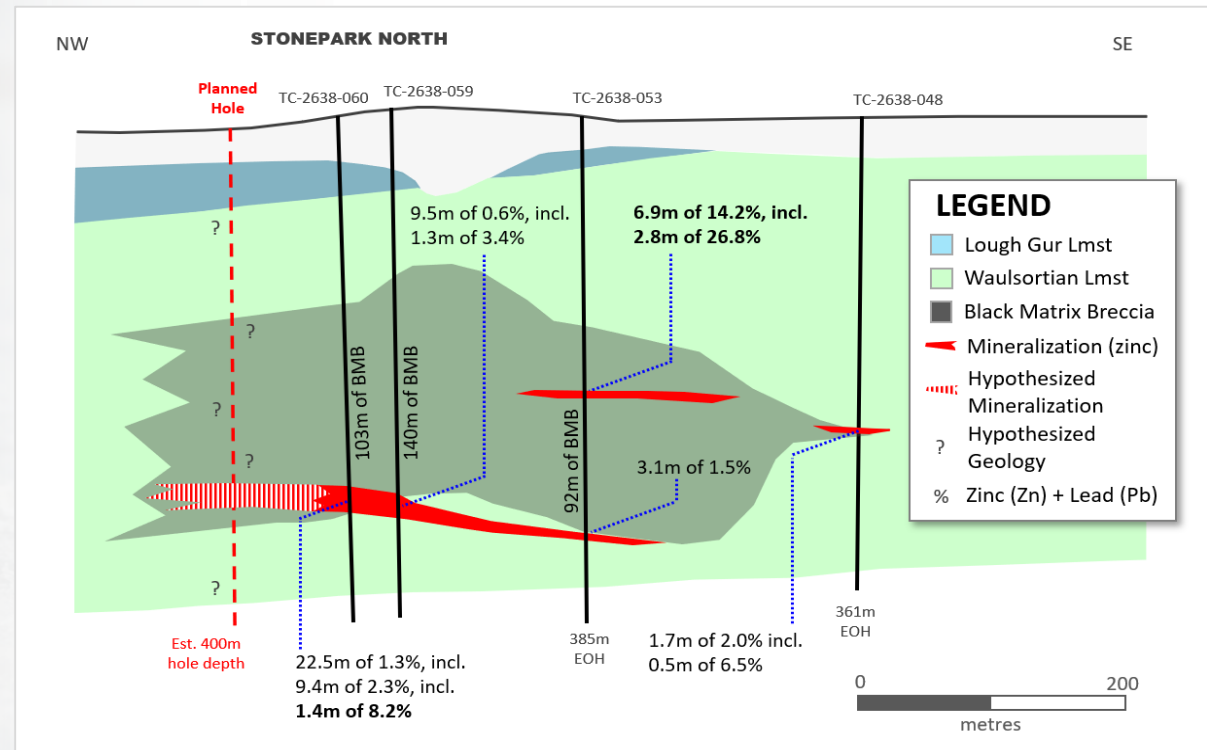
¹ Pallas Green Inferred Resource (Glencore, Resources & Reserves, dated Dec 31, 2022)

² Stonepark Inferred Resource (Group Eleven news release dated April 17, 2018)

STONEPARK ZINC: STONEPARK WEST



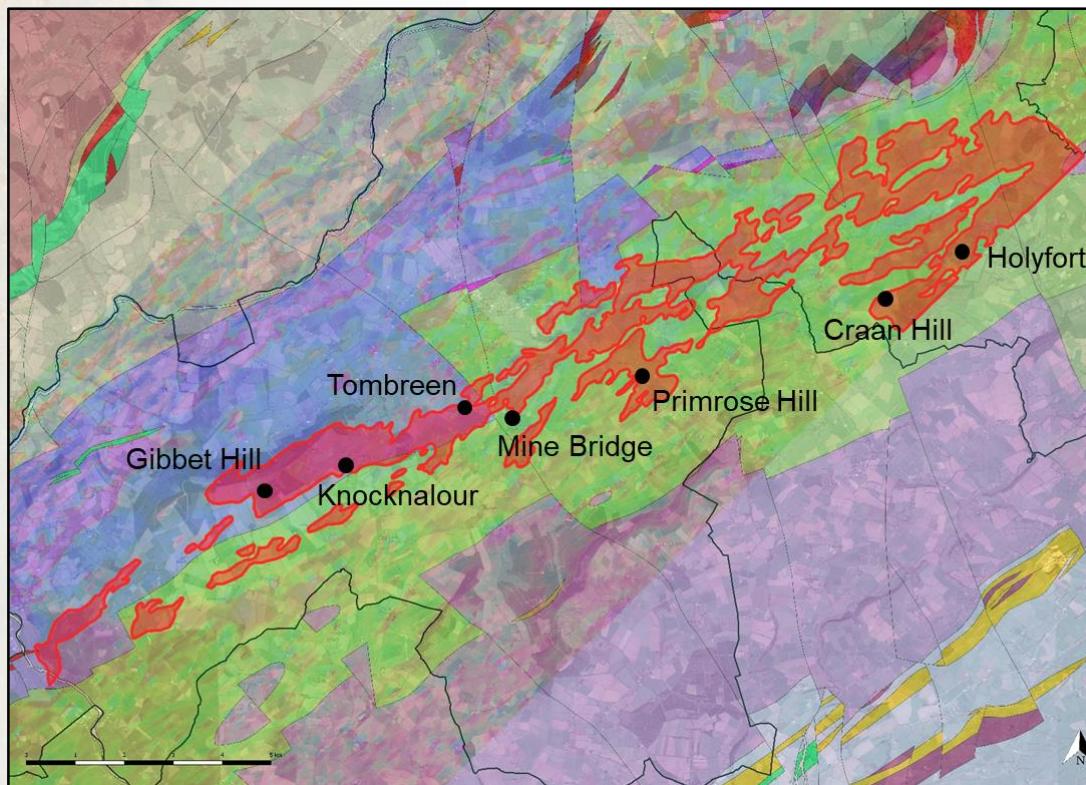
- 100m step out hole from previous drilling
- 400m deep
- Focused on northern portion of the Stonepark resource
- **Moderate zinc mineralisation intercepted**



MINE RIVER GOLD



- 100% ARKLE, 15 km target trend of gold occurrences
- Airborne geophysics, historic sampling data and drilling
- Tripled in scale following acquisition of former JV partner
- **Recent drilling identified 0.5m @ 51.6g/t gold**



MINE RIVER GOLD TREND

Tombreen

2021 drilling intercepted 0.5m 51.6g/t
 2018 drilling intercepted 24m @ 0.34g/t Au
 2017 drilling intercepted 8.0m @ 4.53g/t Au
 Historic drilling: 0.40m @ 11.65g/t Au
 and 0.50m @ 18.4g/t Au

GEOPHYSICAL TARGET

SOIL SURVEY AREA

Hollyfort

Craanhill

Hollyfort
 Historic trenching
 located 2.6g/t Au
 Deepoverburden sample
 1.6g/t Au

Primrose Hill

Primrose Hill
 Historic rock sampling
 identified 4.8g/t Au

Mine River

Mine River
 Historic drilling intercepted
 1.75m @ 0.28g/t Au

Knocknalour
 Historic drilling intercepted
 0.30m @ 18.89g/t Au
 0.40m @ 19.9g/t Au
 Drilling in 2018 intercepted low
 grade gold

Gibbet Hill

Gibbet Hill
 Historic Outcrop 7.37g/t Au
 Arkle Prospecting 5.08g/t Au
 Drilling in 2017 intercepted low
 grade gold

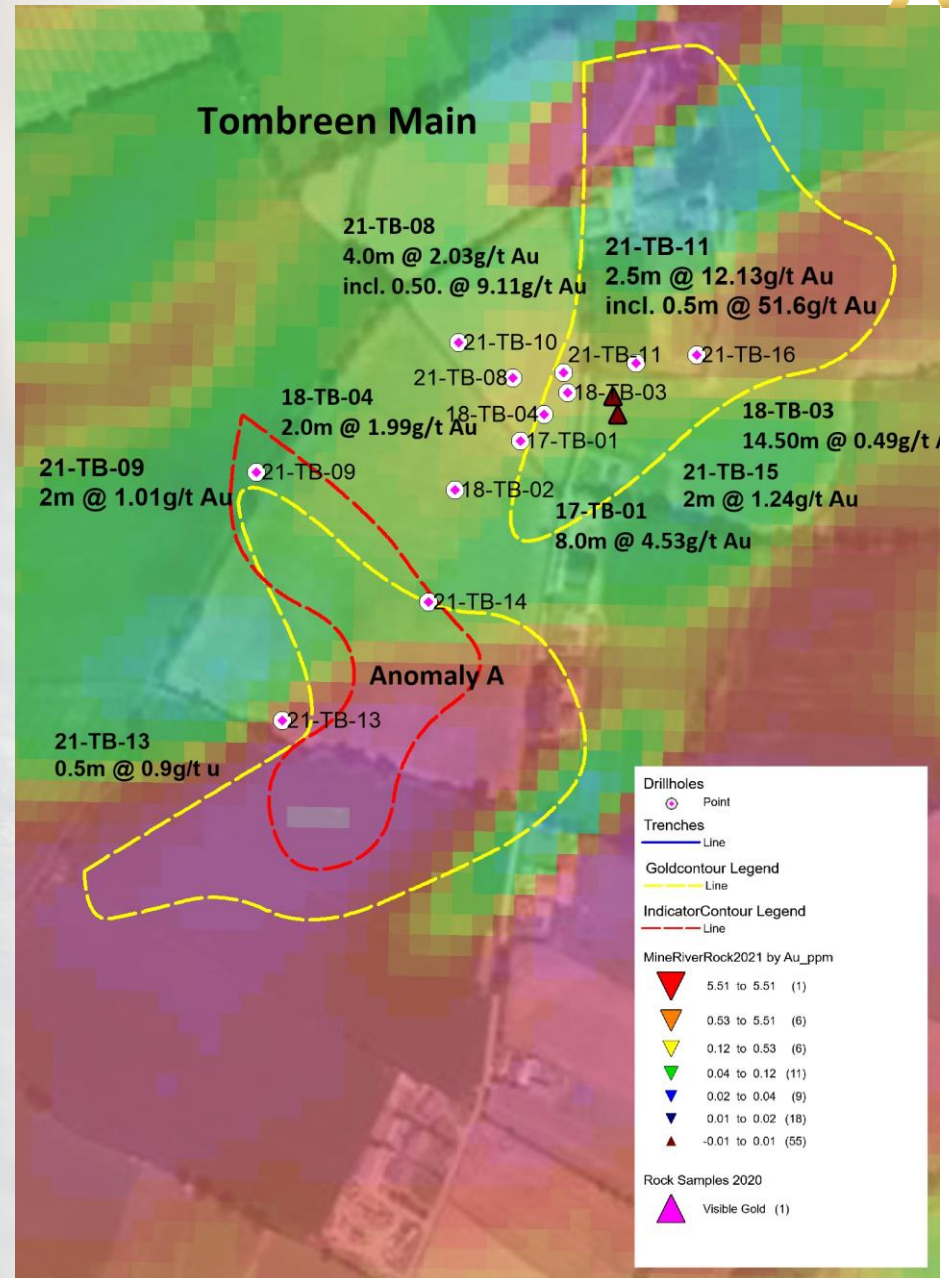
Craanhill
 Historic rock sampling
 identified 8.5g/t Au

0 1 2 3 4 5 km



MINE RIVER: TOMBREEN MAIN

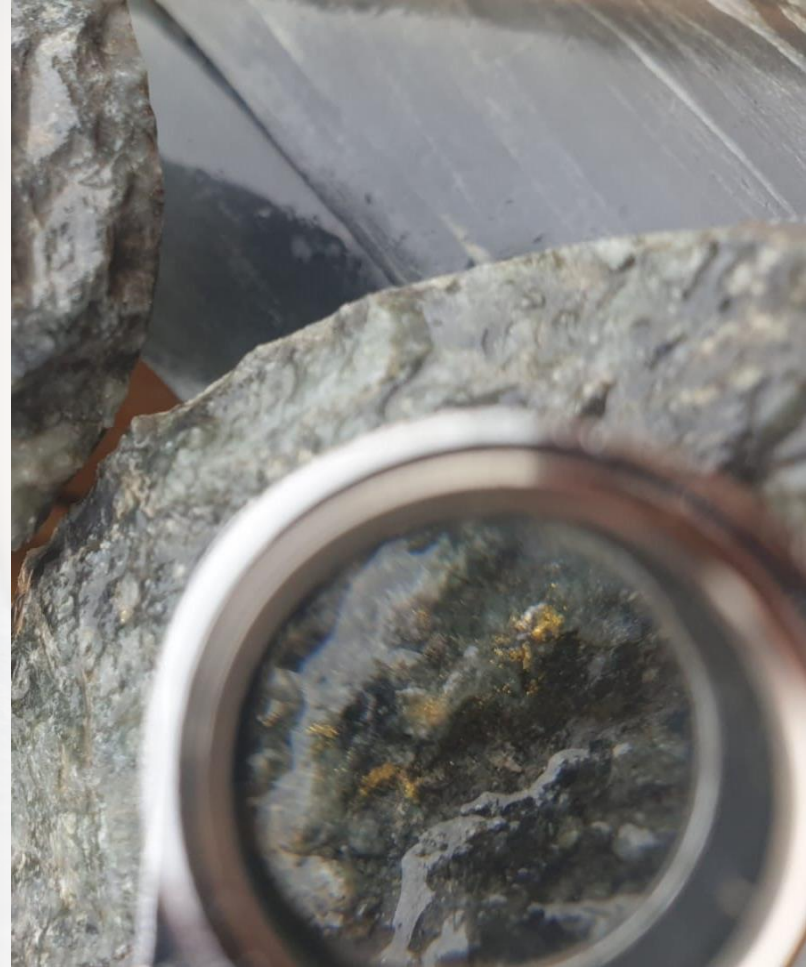
- **Visible gold** in hole 21-TB-08 at Tombreen Main
- Step out hole returned **51.6g/t gold over 0.5m** at Tombreen Main
- Further holes stepped out to east intercepted low grade gold intervals
- Low grade gold also discovered in soil Anomaly A to the south



MINE RIVER: TOMBREEN TARGET



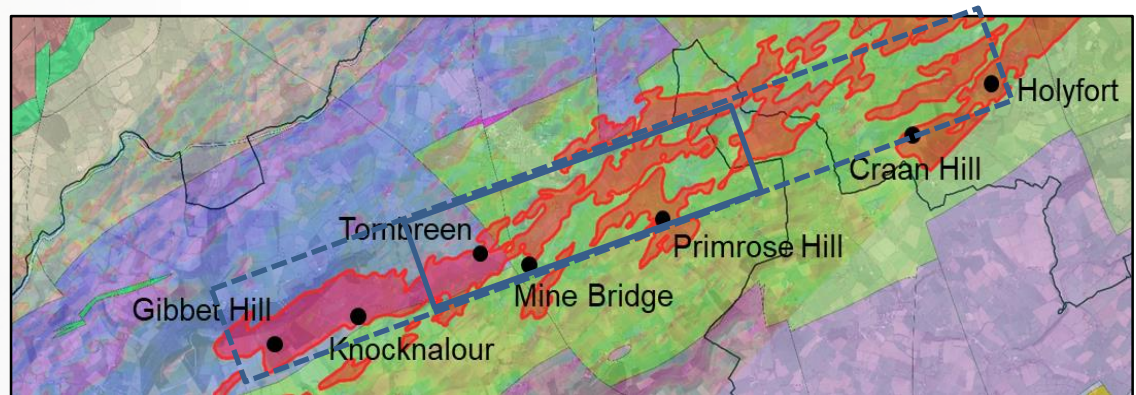
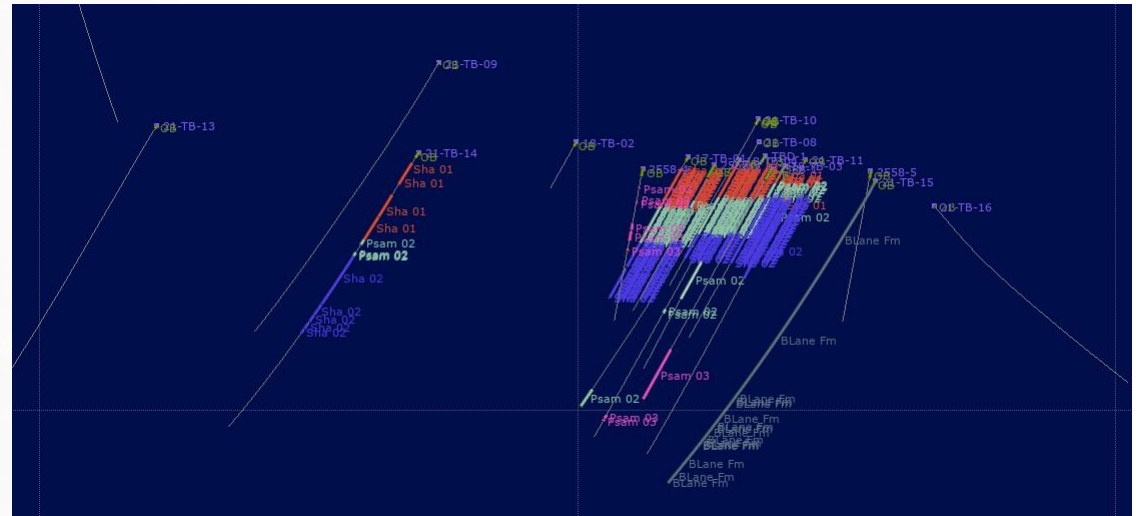
- 51.6g/t Au Vein



- Visible gold

MINE RIVER GOLD- Next Steps

- Developing 3D model
- Acquire magnetic and hyperspectral data of core
- Analyse further core
- Generate quality drill targets
- Expand XRF soil survey along the Gold Trend



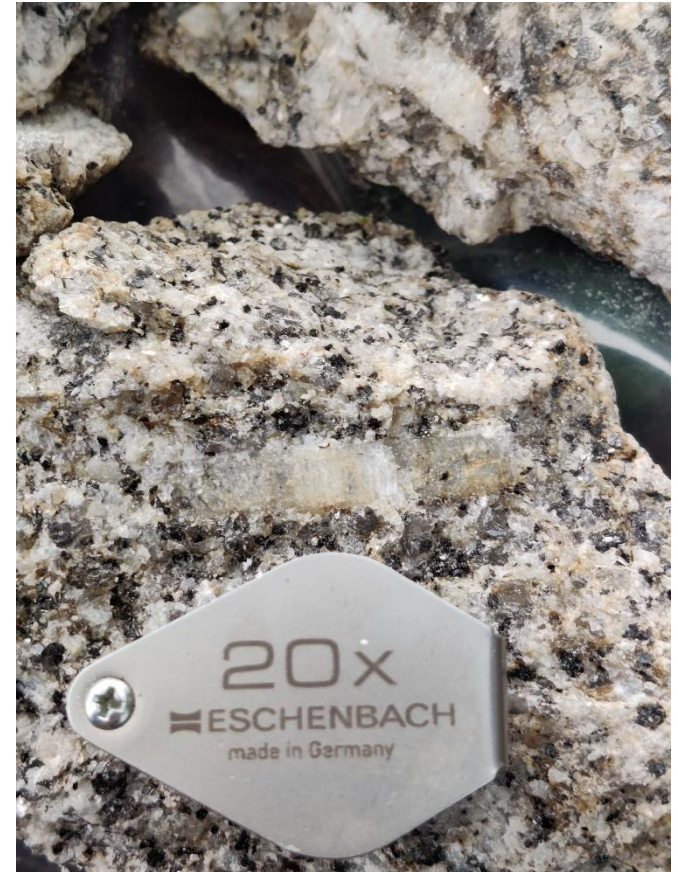
MINE RIVER GOLD: SUMMARY



- Tombreen Target has now grown to a **1.5km long, 750m wide gold target**
- Trenching has discovered **gold in bedrock at two new locations** at Tombreen which remain undrilled
- Recent **drilling has discovered 0.5m at 51.6g/t gold** among other lower grade intervals in new areas at Tombreen
- **Gold remains 'nuggety'** which is affecting the analysis, as nuggets can elude the final small representative sample used in grade determination
- Lower grade intersections common but **locating a wide, rich gold zone is the main target** for the Mine River project like that discovered in 2017 which graded 8m at 4.53g/t gold
- **Potential also for wide, low grade gold zones** like that discovered in 2018 which included 24m at 0.34g/t gold

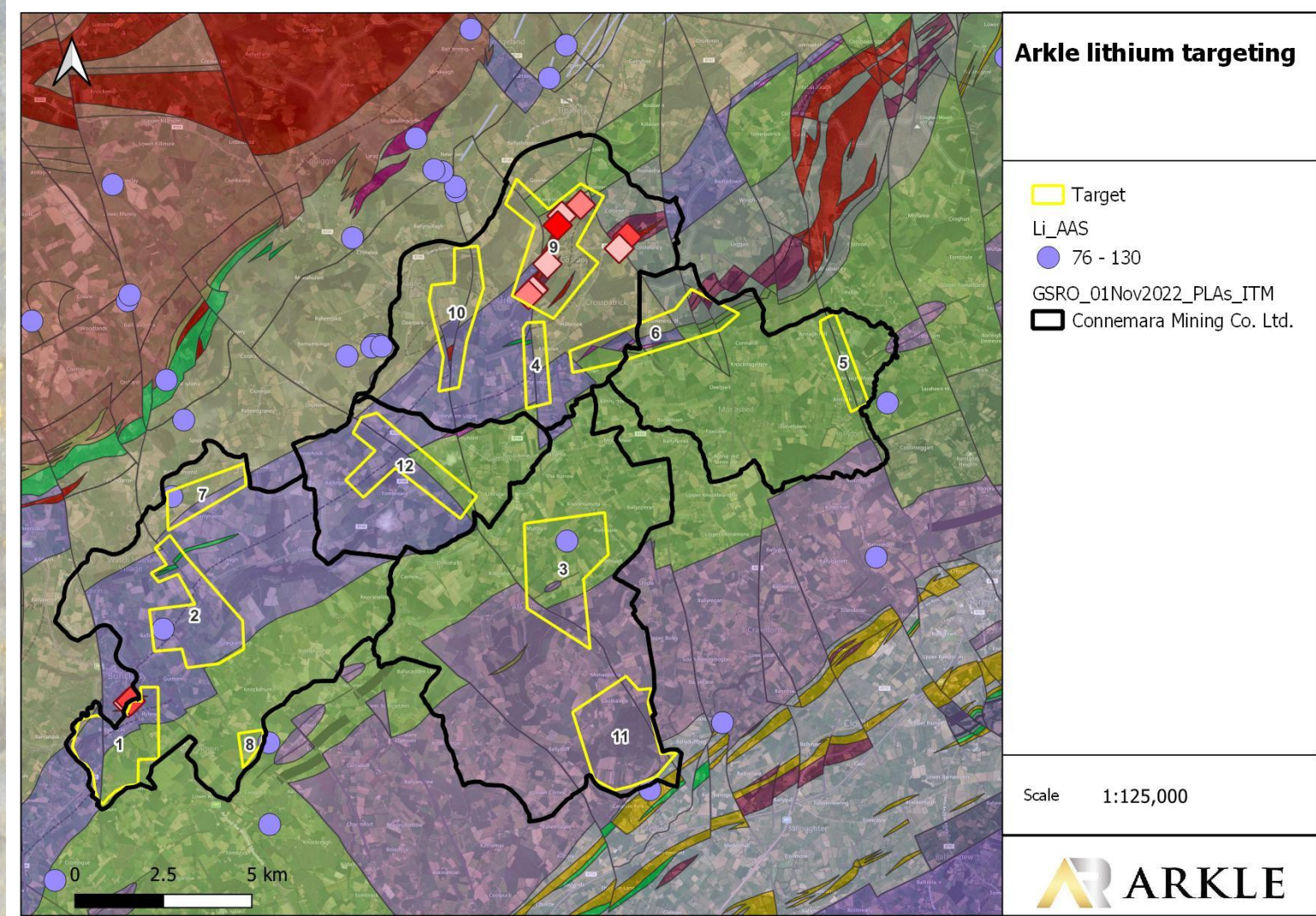
MINE RIVER: LITHIUM

- Arkle recently reviewed the Mine River block for lithium potential
- The Mine River block is proximal to the known lithium bearing Leinster Granite, lying to the west and contiguous with the international Lithium Corp. – Genfeng Lithium Co. Ltd venture where a large zone of lithium bearing pegmatites and aplites has been discovered
- Early 2023 Arkle announced that it has discovered lithium bearing pegmatites at their Mine River block with one assay returning 0.09% Li_2O from the Bunclody area
- Prospecting to resume in the near future



Lithium bearing pegmatite found near Bunclody

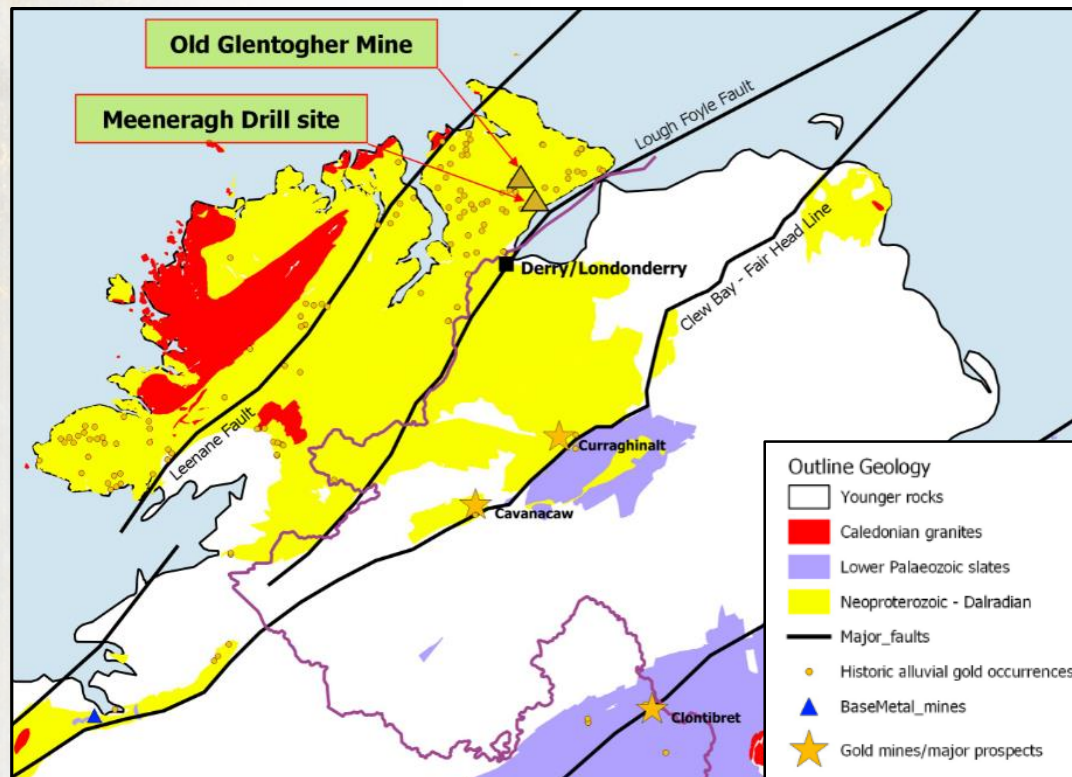
MINE RIVER: LITHIUM TARGETS



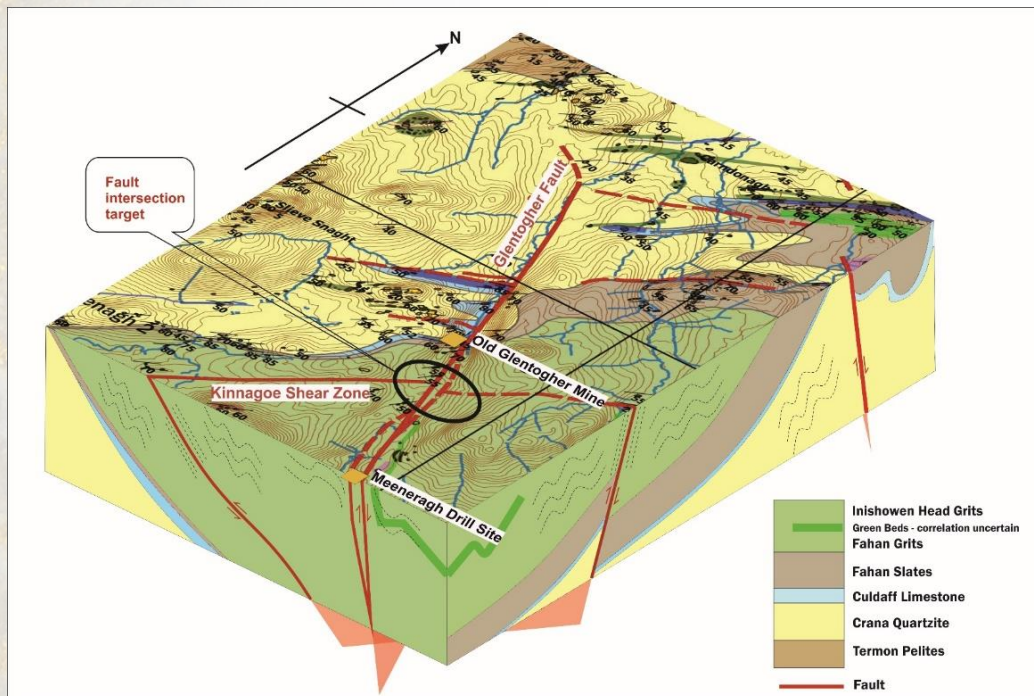
INISHOWEN GOLD



- 100% Arkle, **Arkle first to drill gold in Inishowen**
- Targets are hosted in Dalradian rocks, **60km northwest of Curraghinalt**
- 12 holes include **3.05m grading at 5.8g/t gold, 4.82 m at 5.48g/t and 14.25g/t gold over 0.5m**
- Target structure between Arkle discovery and 1800's lead/silver mine



INISHOWEN GOLD



- **Highly prospective target** at intersection between newly identified shear zone and Glentogher Fault
- Target lies between Arkle's Meeneragh gold discovery drill site and the historic Glentogher Lead-Silver mine
- Combined strike length between historic mine and Meeneragh discovery site is 5kms
- Recent detailed sampling refined the geological model

INISHOWEN GOLD



- Soil results identified **many locations for follow up trenching**
- Trenching identified **new gold bearing veins in outcrop** at Meeneragh
- **40.7g/t gold in a 10cm quartz vein** 85m along strike from high grade drillhole
- **13.1g/t gold in 50cm quartz vein outcrop** identifying source of the large boulders found in the adjoining fields
- New gold veins **ready for drill testing**



NEW PROJECTS



- **Arkle has been granted three licences covering 163 hectares to prospect for lithium in Zimbabwe**
- **Low cost entry into one of the largest lithium producing countries in the world**
- **Potential new projects in lithium, cobalt and PGMs are under review in South Africa and Zimbabwe**



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