



FOCUSED ON Au-Cu DISCOVERY IN THE LACHLAN FOLD BELT

RIU SYDNEY RESOURCES ROUND-UP
MAY 2022



ASX: LGM



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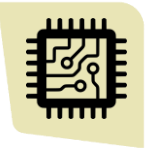
The information in this presentation that relates to Exploration Targets, Exploration Results, Mineral Resources or Ore Reserves is based on information compiled by Thomas Wall, a Competent Person who is a Member of the Australian Institute of Geoscientists. Mr Wall is the Technical Director is a full-time employee of Legacy Minerals Limited and a shareholder, who has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr Wall consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

The release of these presentation materials has been authorised by the Board.



WHY INVEST IN LEGACY MINERALS?

ARTIFICIAL INTELLIGENCE EXPLORATION ALLIANCE¹



- Earth AI to spend up to \$4.5M across battery and critical metals focused tenements Mulholland and Fontenoy

GAME CHANGING DISCOVERY EXPOSURE



- Bauloora – one of NSW's largest epithermals, awaiting assays
- Harden – high-grade gold intersections, awaiting assays
- Rockley – previously overlooked porphyry district

VALUE LEVERAGED TO EXPLORATION SUCCESS

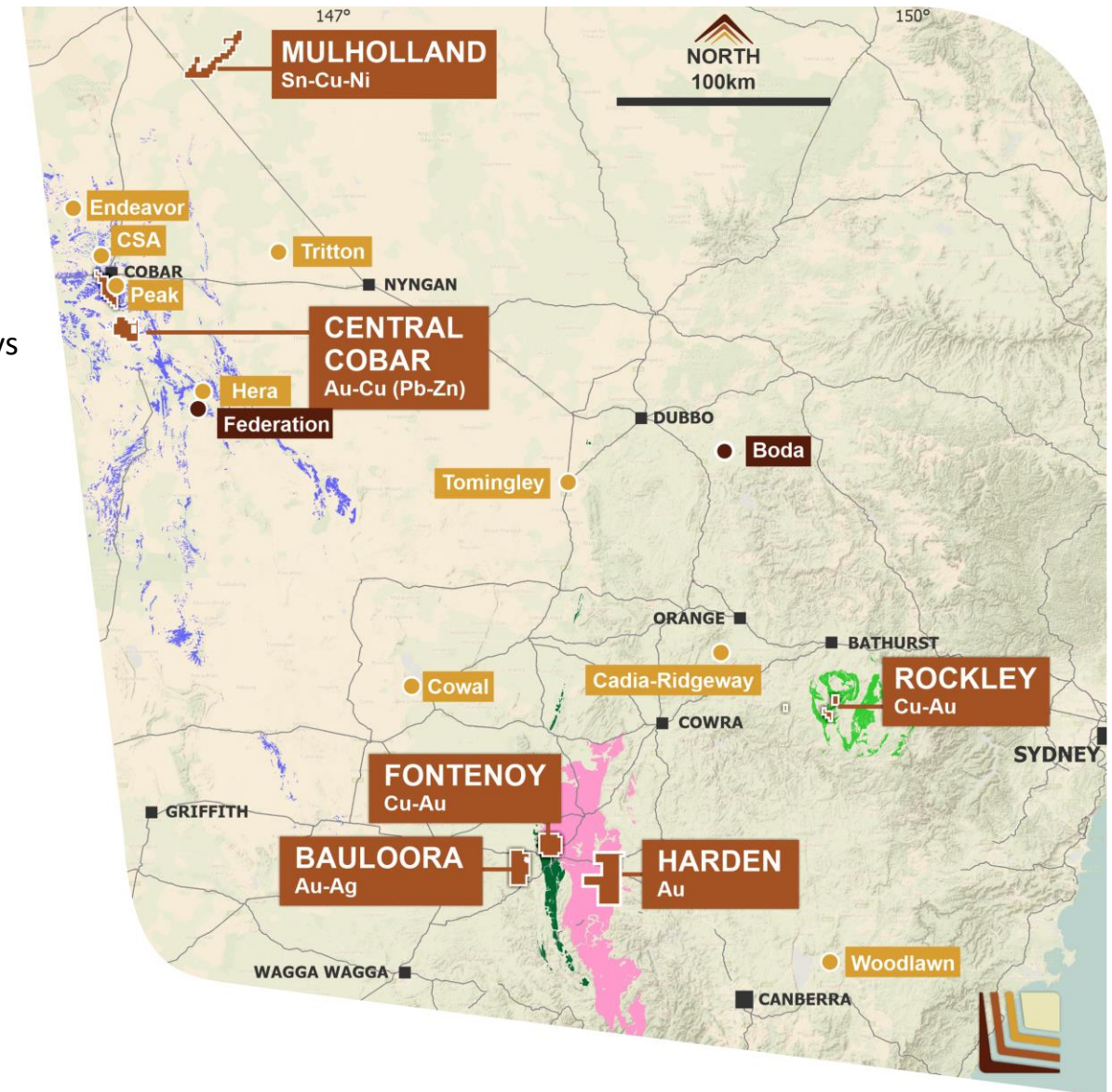


- 100% ownership of six significant projects
- Strong news flow over coming months
- Competitive market cap provides platform for growth

PRIME POSTION WITH THE RIGHT EXPOSURE



- High grade and shallow exploration targets
- Low-cost opportunities to define additional targets

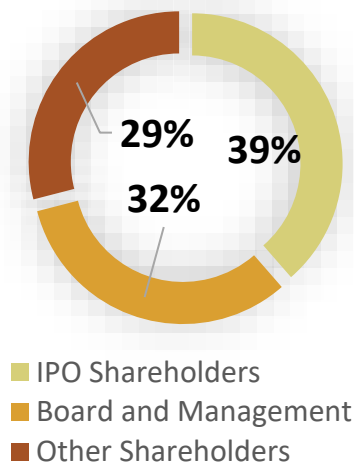


CORPORATE SNAPSHOT ASX:LGM

CAPITAL STRUCTURE¹

ASX Share Price	\$0.155
Shares on Issues	75.2M
Options on Issue (\$0.3)	4.9M
Market Capitalisation	\$12M
Cash (at Mar-21)	\$3.6M
Debt	Nil
Top 20	61.3%

ISSUED CAPITAL



Dr David Carland
Non-Executive
Chairman

Investment banker with over 40 experience. Has held senior positions at UBS, Bankers Trust, CRA (now Rio Tinto). Was recently the Non-Executive Chair of Rex Minerals (RXM) and is a director with Aguiar Resources (**AGR**)



Douglas Menzies
Non-Executive
Director

Geologist with 28 years of widespread experience in the porphyry gold-copper districts of PNG and Australia, epithermal gold-silver projects in Australia, Indonesia, Fiji, Laos, Chile. Doug has held positions at Rio Tinto, Wafi-Golpu, and is a director at Godolphin Resources (**GRL**)



Matthew Wall
Non-Executive
Director

Commercial specialist with over 35 years of experience in metals and mining across sales, marketing, logistics, trading, and risk management. Matt has held senior management roles with Rio Tinto, EDF Trading and Wood Mackenzie and is a director with Allegiance Coal (**AHQ**)



Christopher Byrne
CEO & Managing
Director

Electrical Engineer with diverse experience in the mining sector with Anglo American across maintenance, operations, and capital works. Proven record of delivering large and complex mining and infrastructure projects in greenfield and brownfield environments



Thomas Wall
Exploration Manager
& Executive Director

Geologist with wide ranging exploration industry experience with senior roles at Peak Gold Mines and New South Resources. Demonstrated exploration and mining success across a variety of commodities and deposit styles

DIRECTORS

MANAGEMENT

\$4.5M Strategic Alliance to Explore Battery Metals¹

Why Artificial Intelligence

- Demand vs supply – discovery rates are falling
- AI will be a disrupter of traditional exploration models

Commodity Focus – Fontenoy and Mulholland

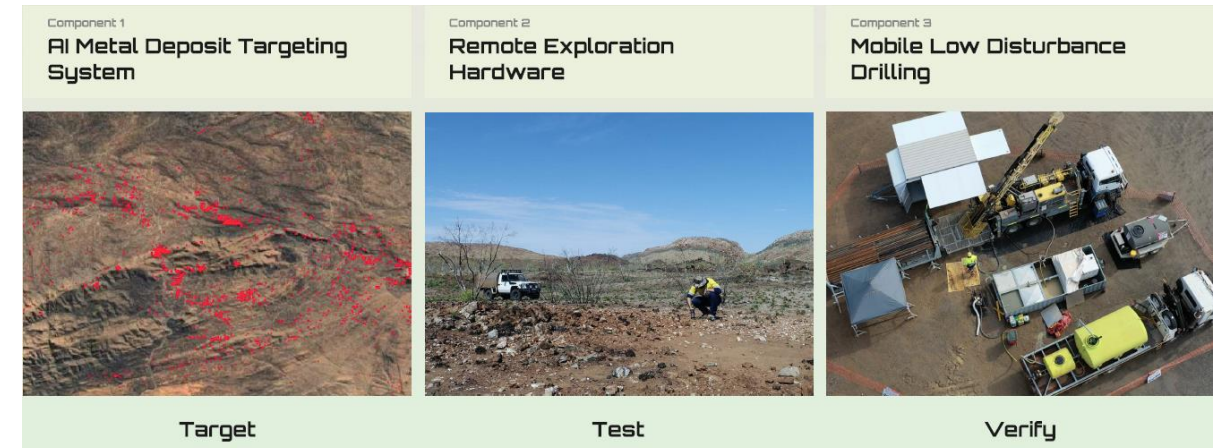
27 Ni 58.693	29 Cu 63.546	50 Sn 118.711	PGE	79 Au 196.697
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Key Alliance Terms

- **Up to \$4.5M** to be spent by Earth AI over 2 years
- **Unlike a 'classic JV' – purely success based**
 - Royalty only earned on a significant drilling discovery made
 - up to 3% depending on co-funding option
- **LGM retain 100% ownership**
- Earth AI have the option to purchase either project for \$1M USD and 2% royalty to LGM

Who are Earth AI and what is artificial intelligence?

- Utilise artificial intelligence and machine learning to target, test, and verify discoveries
- Targeting materials critical for the electric vehicle and renewable energy revolutions
- Based in San Francisco with drilling capability in Central NSW
- Earth AI are backed by two of Australia's largest technology venture capital funds



Alliance Projects: Cu-Ni-Sn-Au Focused

Fontenoy

- Large Copper and Gold System
- Untested PGE potential
- Multiple wide Au and Cu drill intercepts from surface

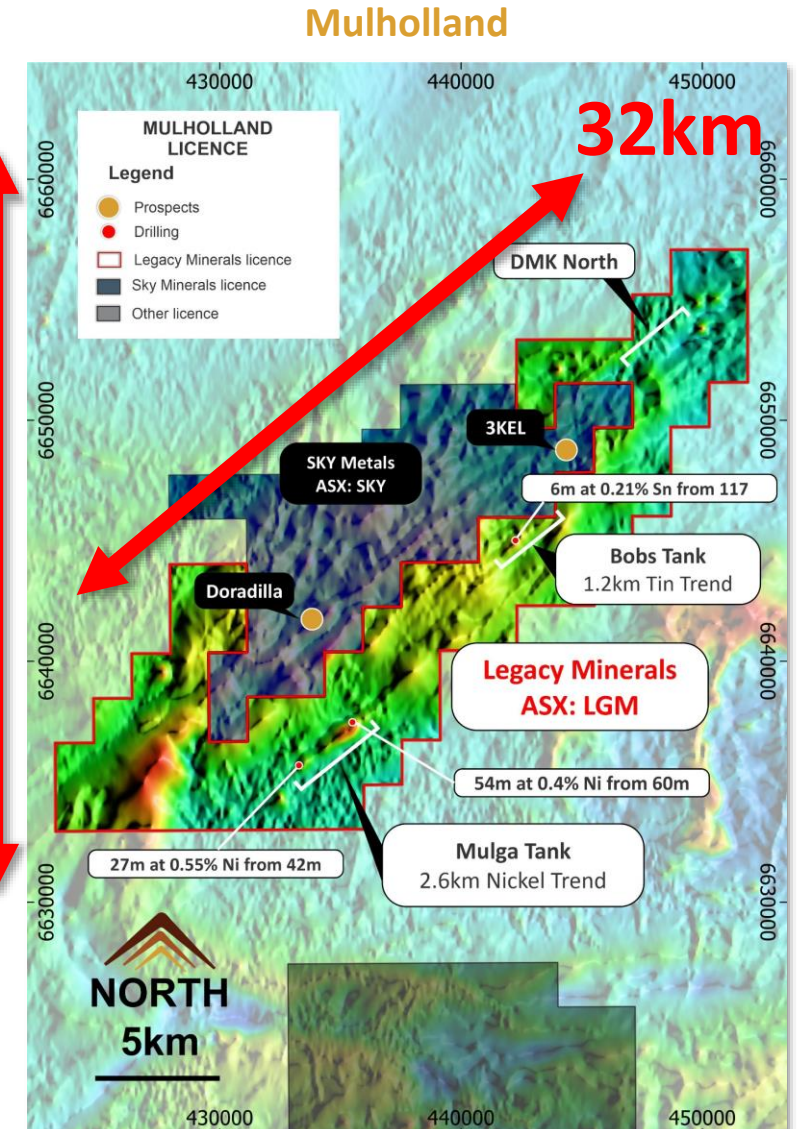
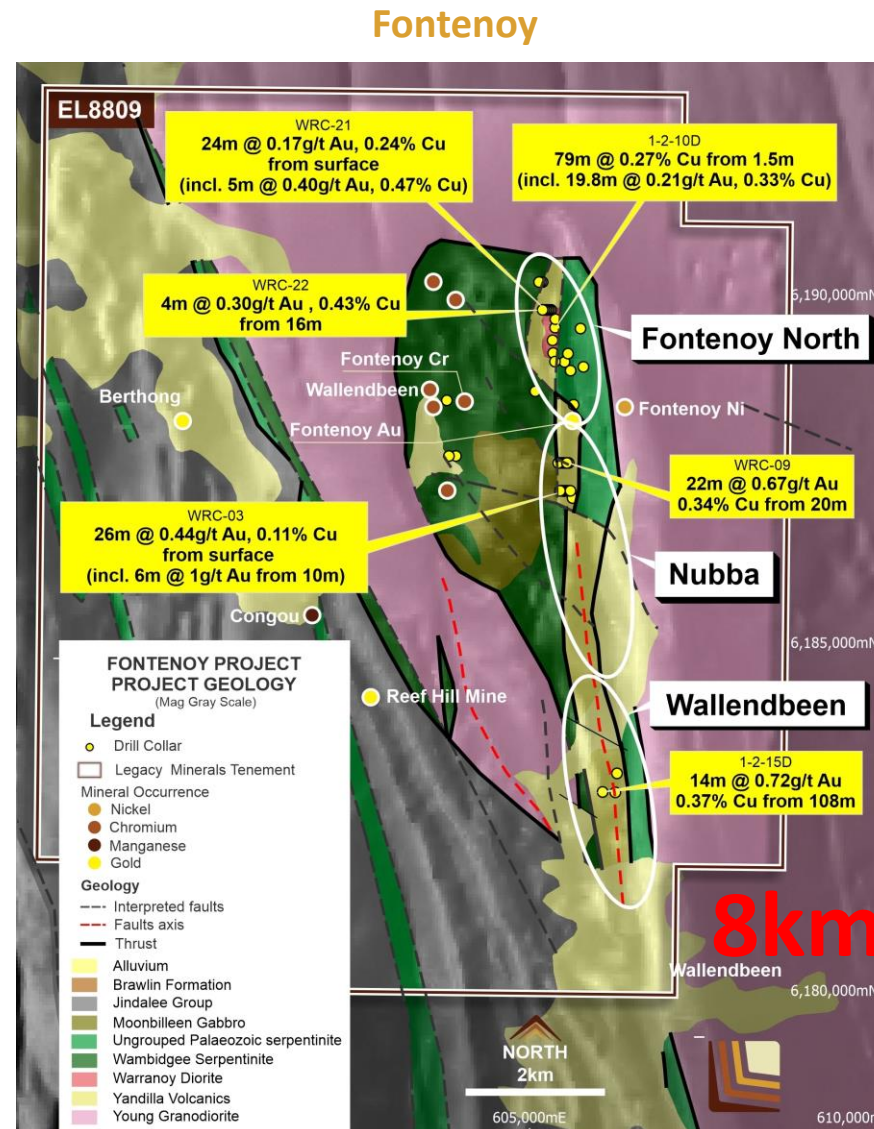
Mulholland

- Emerging tin-copper and nickel district
- Known skarns and untested anomalies

Multiple opportunities for discoveries



LEGACY MINERALS



COBAR

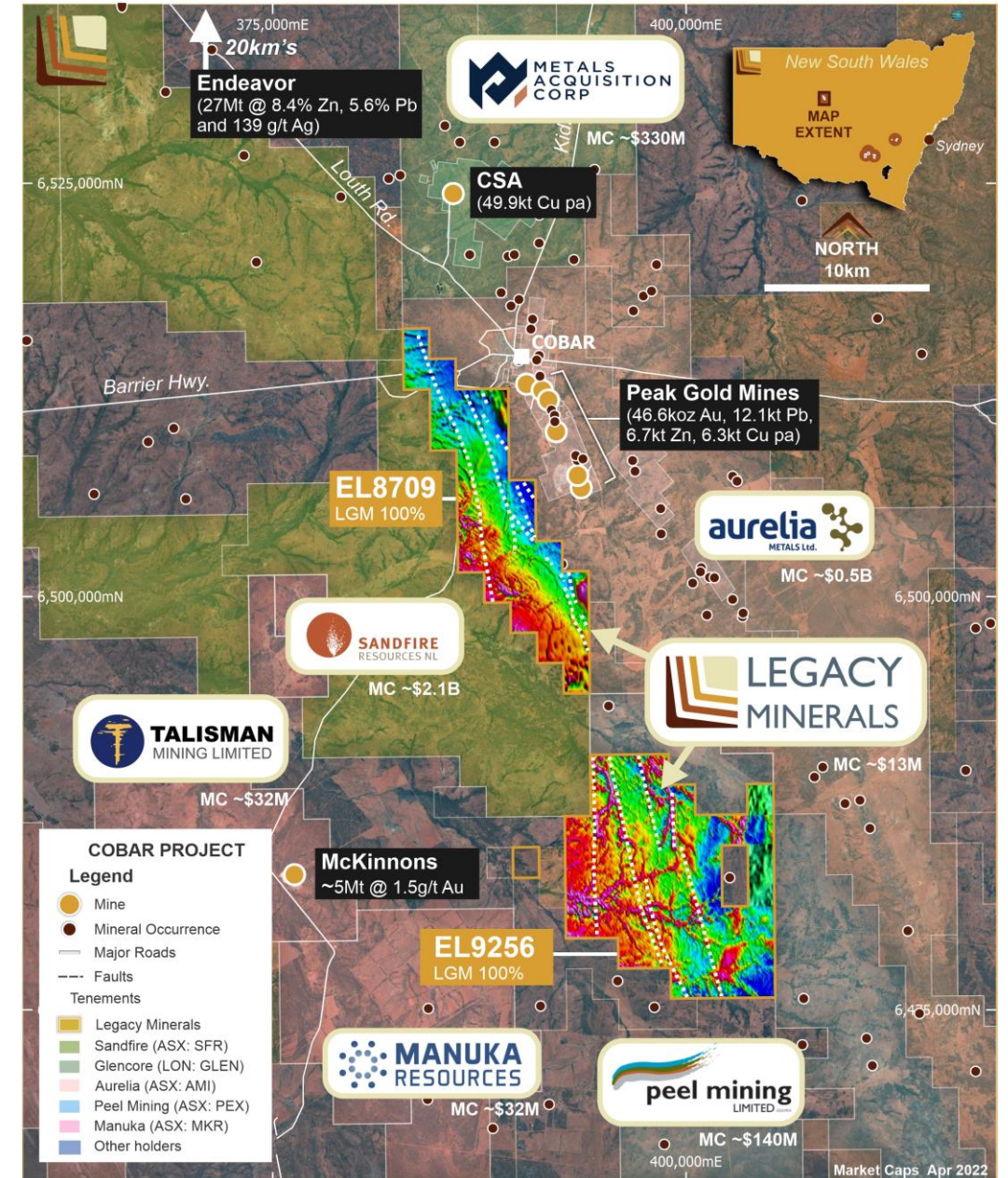
Au-Cu (Pb-Zn)


Prime Position In The Cobar Basin

- Undrilled targets surrounded by operating and historical Au and Cu mines
- Proximity to infrastructure and skilled mining workforce
- World class jurisdiction seeing continued exploration success

What to look for in the next 6 months

- Geochemical programs
- Ground magnetics





“ BAULOORA MINE ”
(1903 – 1957)
ALSO KNOWN AS
MOUNT FELSTEAD OR KOOTRAMINE
SITE OF MAIN SHAFT - DEPTH 23 M.
REHABILITATED BY
DEPT. OF MINES, 1978.

BAULOORA

Au-Ag

One of NSW's largest low sulphidation epithermal systems

WHY EPITHERMALS? – WORLD CLASS POTENTIAL

NSW's Large Low-Sulphidation Epithermals

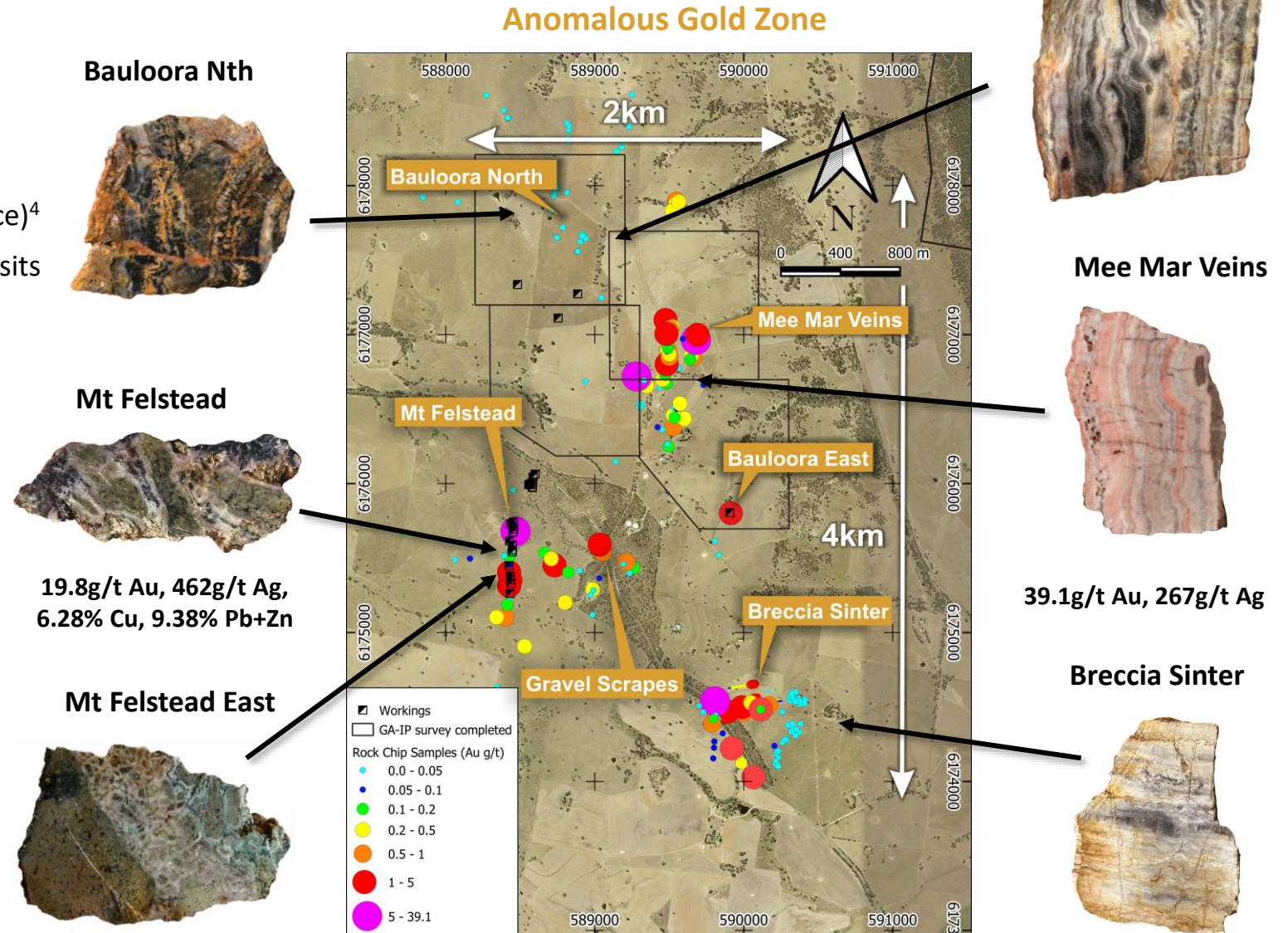
- Cowal, Evolution Mining, ~15Moz¹
 - 'Gold Zone' defined by 7.5 x 2km of >0.1g/t Au
- Bowdens, Silver Mines 275Moz Ag Eq (84% M+I Resource)⁴
 - One of the worlds largest undeveloped silver deposits
- Mineral Hill, Kingston Resources
- Bauloora (Legacy Minerals)

Bauloora – a preserved Epithermal

- Bonanza Ag grades, high-grade Au and base metals
- 27km² zone of alteration and mineralisation
- **Anomalous gold zone: 4km by 2.5km of >0.5g/t Au**
- **Target Rick: 5m wide veins with strike > 2km (up to 39g/t Au rock chip samples)**
- Sinter related lithology recognition

Virtually Untested

- Only 37 drill holes across 27km², most before 1995
 - One drill hole per 72 ha with



MT FELSTEAD MINE - BONANZA GRADES

Outstanding Grades in Maiden Drill Campaign

- 9m at 9.9% Zn + Pb, 2.0g/t Au, 28.4g/t Ag, and 0.2% Cu from 145m, including:
- **2m at 29.3% Zn + Pb, 5.4g/t Au, 94.1g/t Ag, and 0.4% Cu from 148m**

Shallow orebody

- Mineralised from surface
- Strike open to the nth., sth., and down dip
- Consistent high grades

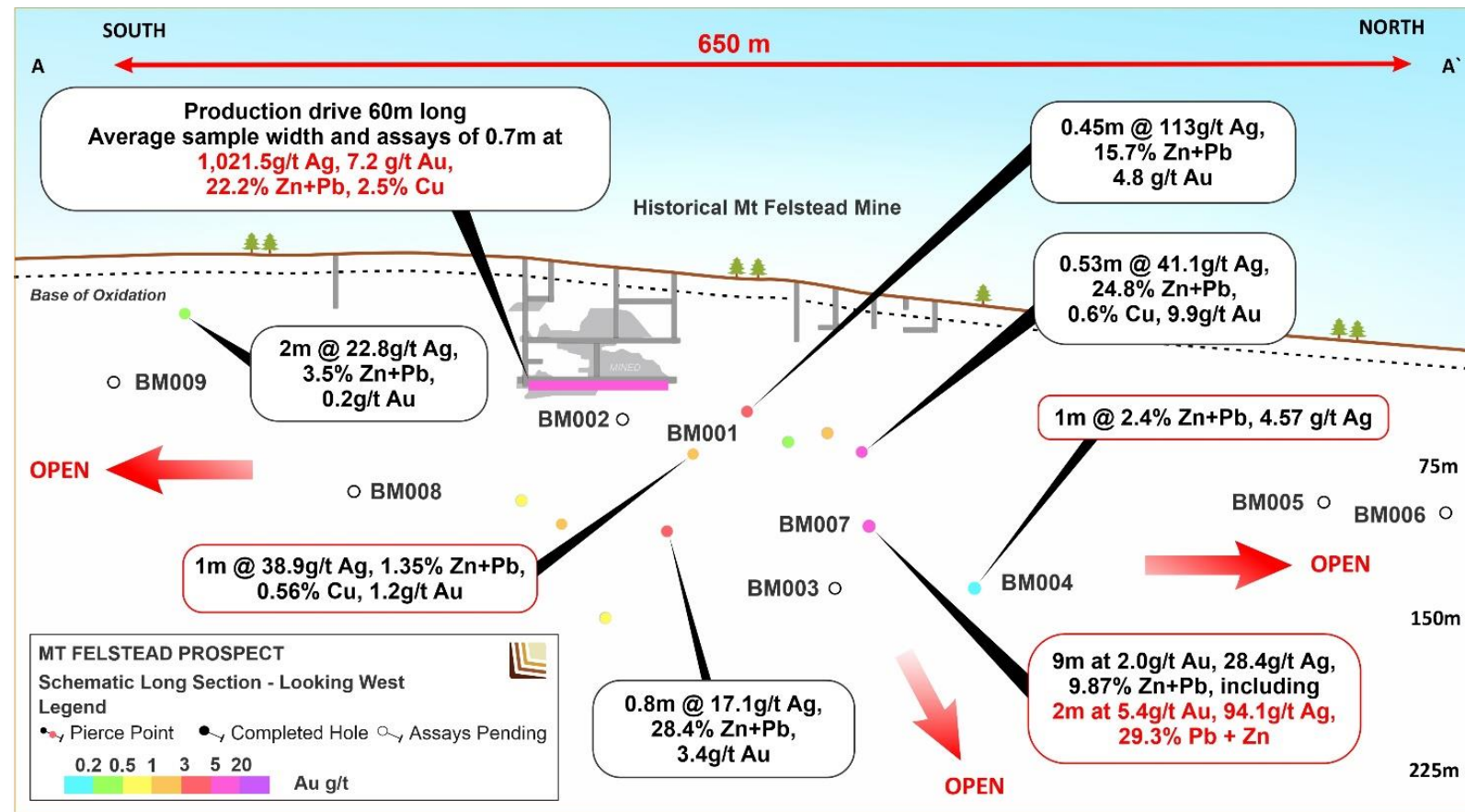
Tip of the Iceberg

- Potential to represent top of a larger system – only covers a fraction of the Bauloora Gold Zone

What to look for in the next 6 months

- Remaining drilling assays (May)
- Large scale sampling program

Mt Felstead Mine Prospect





HARDEN
Au

**High-grade gold mines in one of the
least explored gold districts in NSW**

LONG FORGOTTEN GOLDFIELD

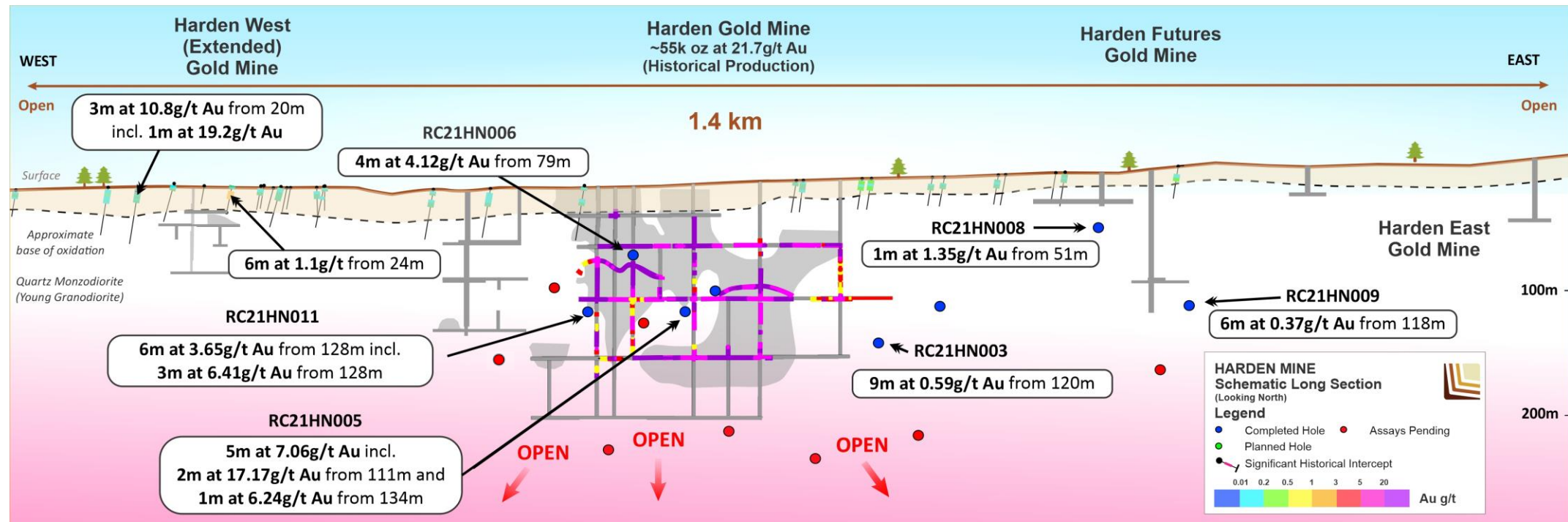
High-grade drill intercepts ^{1, 2}

- **5m at 7.06g/t Au** from 110m incl. **2m at 17.17g/t Au** (RC21HN005)
- **3.6m at 21.7g/t Au** from 116m incl. **2m at 37.9g/t Au** (MR05)
- **3m at 10.8g/t Au** from 20m incl. **1m at 19.2g/t Au** (HP27/8)
- **6m at 3.65g/t Au** from 128m incl. **3m at 6.41g/t Au** (RC21HN011)

Significant Early Production and Scale

- District has produced **~460,000 oz of gold¹** with the two largest historical hard rock mines held within LGM's tenements
- These two mines produced **~75,000 oz Au at 28.6g/t Au¹**
- Interpreted cut-off grade between 12-15g/t Au¹ operations ceased in 1913¹
- Multiple known mineralised faults with significant potential to define more

Harden Gold Mine Corridor



A photograph of a rocky, hilly landscape. In the foreground, there are dark, jagged rock formations with some green plants and dry grass growing on them. A large, mature tree with a thick trunk and dense foliage stands on the right side of the frame. The background shows a clear blue sky and distant hills.

ROCKLEY
Cu - Au

**Prime position in a previously
over-looked porphyry district
in the Lachlan Fold Belt**

EMERGING PORPHYRY DISTRICT

Rockley Gulgong Volcanics

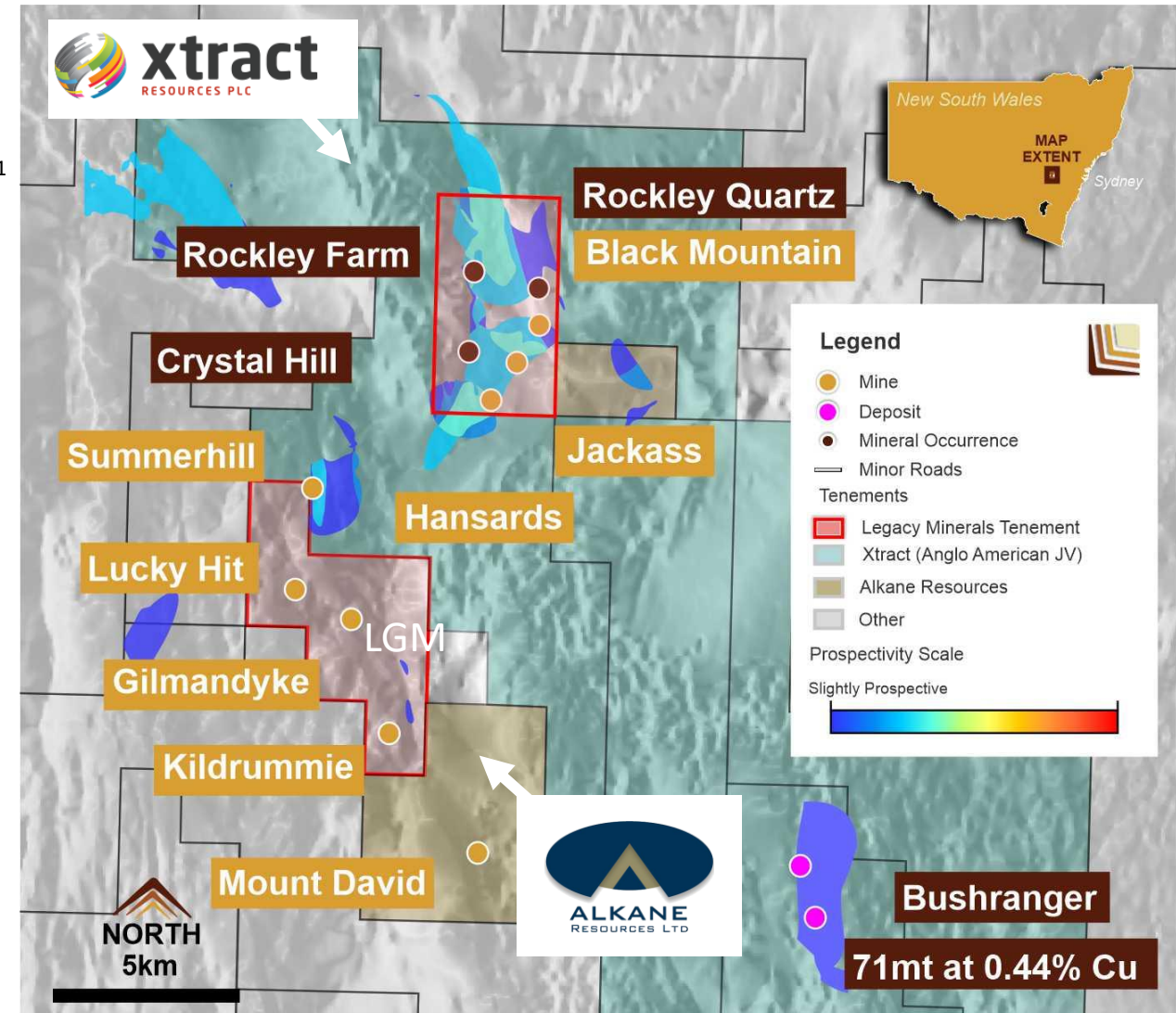
- The Bushranger Porphyry (LON:XTR) inferred Mineral Resource **71Mt at 0.44% Cu¹** consider to have the potential to be a **1bt Project** in the future¹
- High-grade mineralised cap¹
- **Preserved close to surface**
- Drilling intercepts the porphyry **from 11m** with recent intercepts **920m @ 0.3% Cu** from 110m inc. 156m @ **0.48% Cu²**

Porphyry prospectivity recognition

Assessment AI company Kenex the Geological Survey of NSW found the Legacy Minerals tenement to **be the most prospective area for porphyry related Cu-Au** within the entire Rockley-Gulgong Volcanics

All the right ingredients to host a Cu-Au porphyry

- Right host rocks in the right district
 - Macquarie Arc **Ordovician** host rocks
- **Historic high grade gold and copper mines** grading up **21% Cu**



Growing copper-gold story

Overlooked and untested

- District proven to host significant porphyry mineralisation
- Limited of geochemistry sampling and geophysical surveys across the tenement
- Scarcity of drilling across the tenement
 - Only 22 RAB historical holes in south of the porphyry area of interest
 - **No holes deeper than 15m depth**

What to look for in the next 6 months

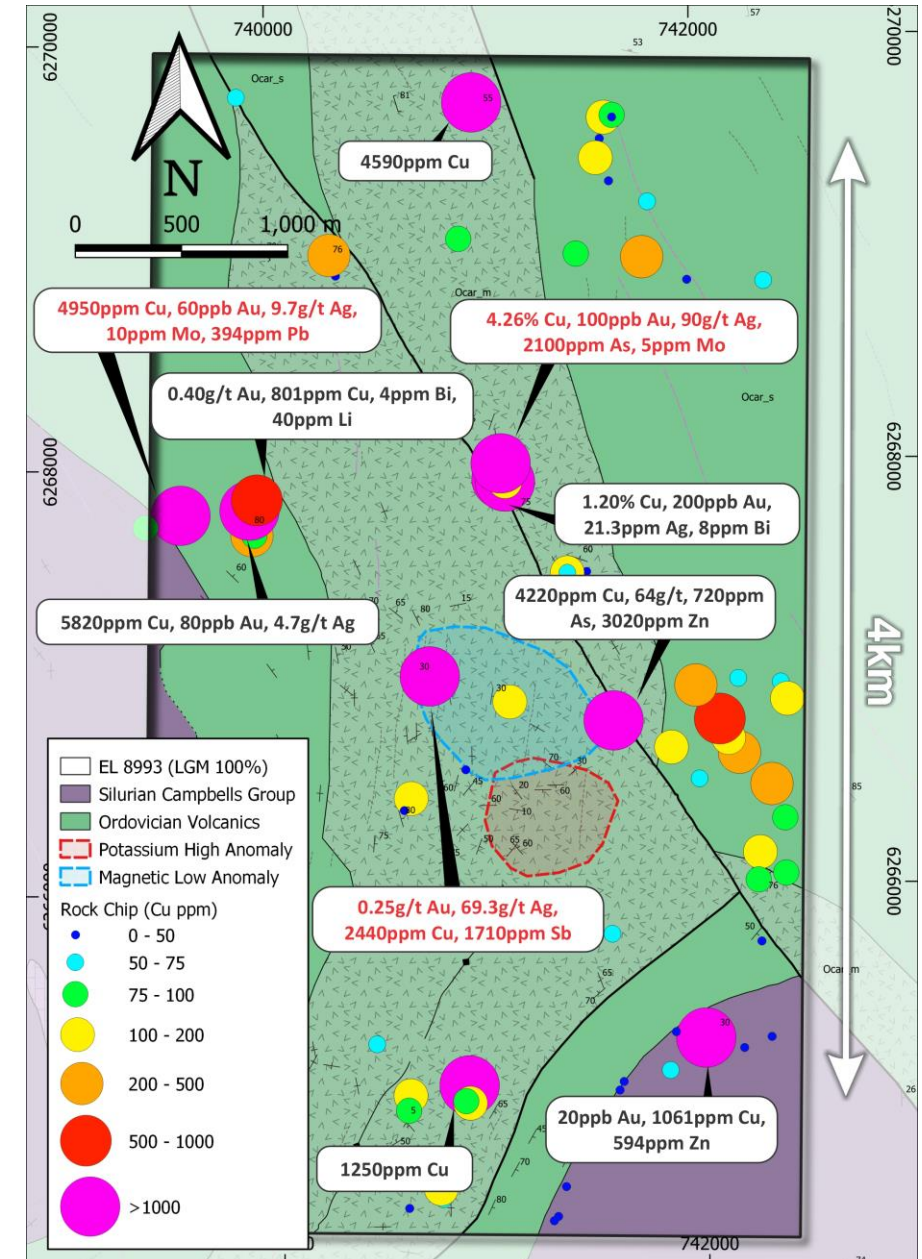
- Airborne magnetics and radiometrics (May)
- Large scale soil geochemistry program (June)



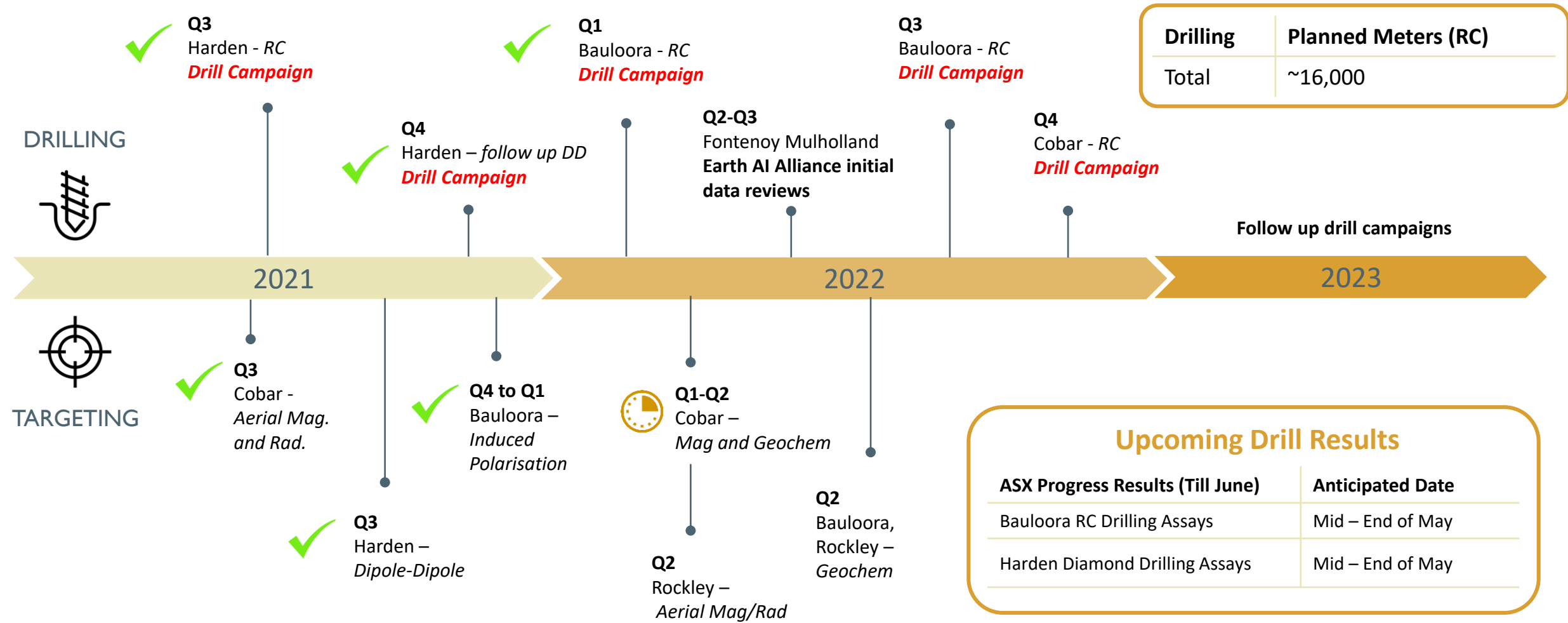
Pyrite vein within silica altered sandstone (Rockley Quartz Prospect)



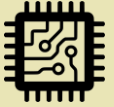
Bucky quartz vein with azurite staining (Quartz Hill Prospect)



PLANNED EXPLORATION PROGRAM



INVESTMENT SUMMARY



\$4.5M artificial intelligence alliance



Game changing discovery opportunities



Focused on delivering shareholder value



Depth of projects in a Tier 1 District



Right metals exposure

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