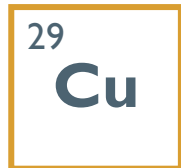
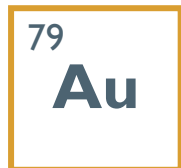




Drilling Transformational Targets



NSW, Australia

Company Presentation, IMARC 1 November 2023



ASX: LGM

Disclaimer



This presentation may contain certain statements and projections provided by or on behalf of Legacy Minerals Holdings Limited (**ASX: LGM, Legacy Minerals, or the Company**) with respect to the anticipated future undertakings. These forward-looking statements reflect various assumptions by or on behalf of Legacy Minerals. Accordingly, these statements are subject to significant business, economic and competitive uncertainties and contingencies associated with the mining industry which may be beyond the control of Legacy Minerals which could cause actual results or trends to differ materially, including but not limited to price and currency fluctuations, geotechnical factors, drilling and production results, development progress, operating results, reserve estimates, legislative, fiscal and regulatory developments, economic and financial markets conditions in various countries, approvals and cost estimates, environmental risks, ability to meet funding requirements, share price volatility. Accordingly, there can be no assurance that such statements and projections will be realised. Legacy Minerals makes no representations as to the accuracy or completeness of any such statement of projections or that any forecasts will be achieved.

Additionally, Legacy Minerals makes no representation or warranty, express or implied, in relation to, and no responsibility or liability (whether for negligence, under statute or otherwise) is or will be accepted by Legacy Minerals or by any of their respective officers, directors, shareholders, partners, employees, or advisers as to or in relation to the accuracy or completeness of the information, statements, opinions or matters (express or implied) arising out of, contained in or derived from this presentation or any omission from this presentation or of any other written or oral information or opinions provided now or in the future to any interested party or its advisers. In furnishing this presentation, Legacy Minerals undertakes no obligation to provide any additional or updated information whether as a result of new information, future events or results or otherwise. Nothing in this material should be construed as either an offer to sell or a solicitation of an offer to buy or sell securities. It does not include all available information and should not be used in isolation as a basis to invest in Legacy Minerals.

This presentation contains exploration results and historic exploration results as originally reported the Company's Prospectus dated 28 July 2021 and released 9 September and subsequent ASX market announcements. The Company confirms that it is not aware of any new information that materially affects the information included in the original market announcements and that all material assumptions and technical parameters underpinning the estimates in the relevant market announcements continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Persons' findings are presented have not been materially modified from the original market announcements.

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.



Asset Overview

Core Focus – Epithermal Systems

Black Range Au-Ag

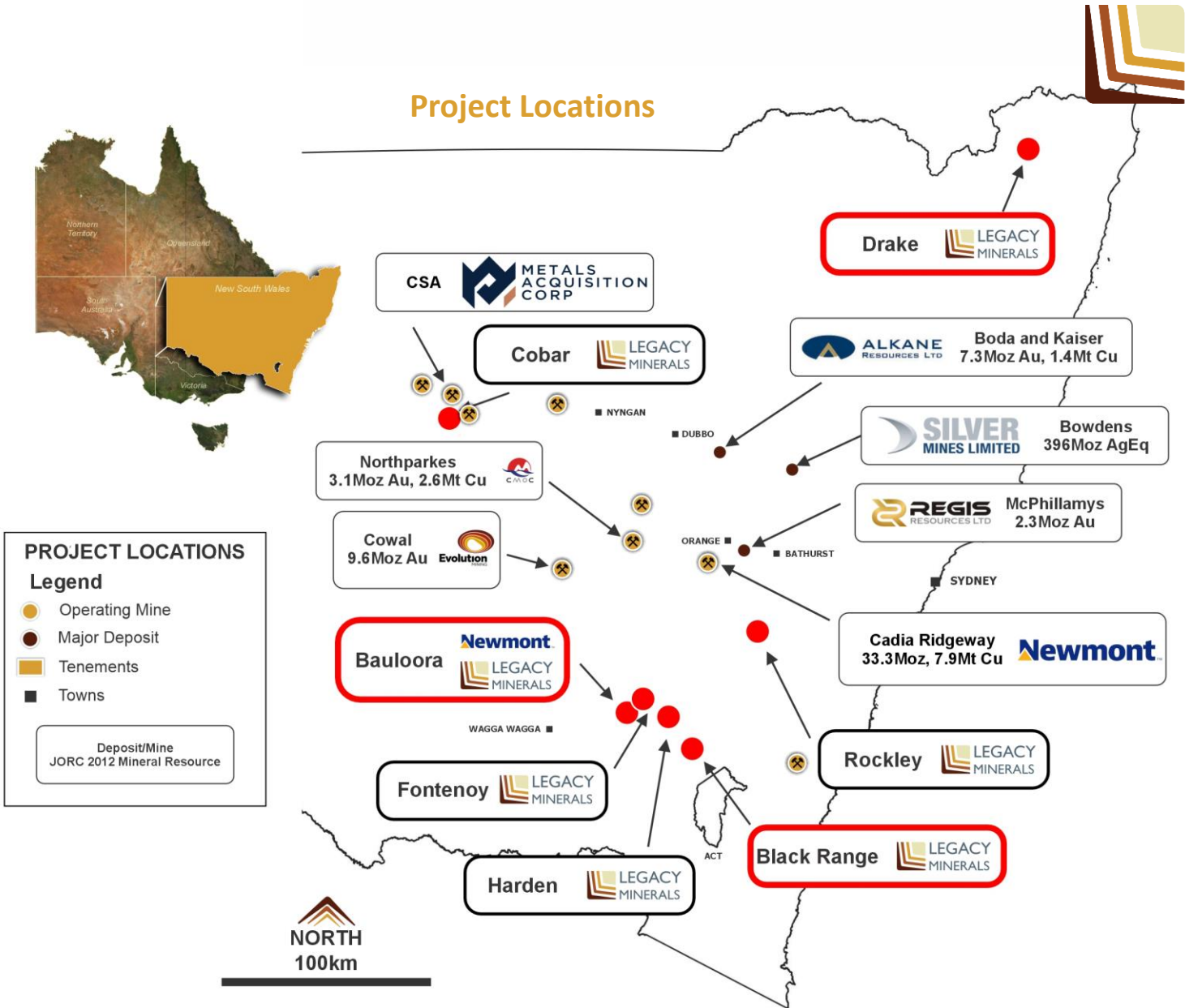
Bauloora Au-Ag **Newmont**

Drake Au-Cu

Pipeline Projects

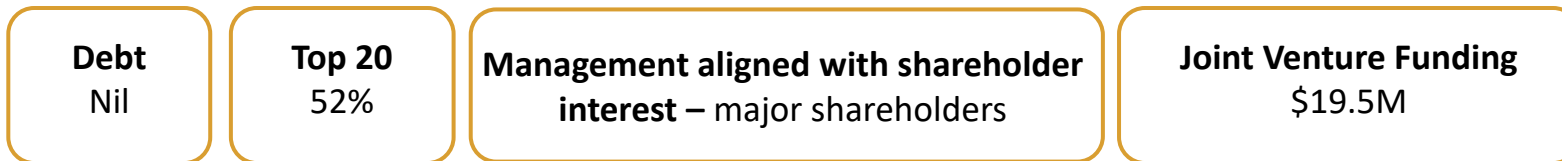
Fontenoy Ni-Cu-PGE-Au **EARTH AI**

Cobar, Rockley, Harden



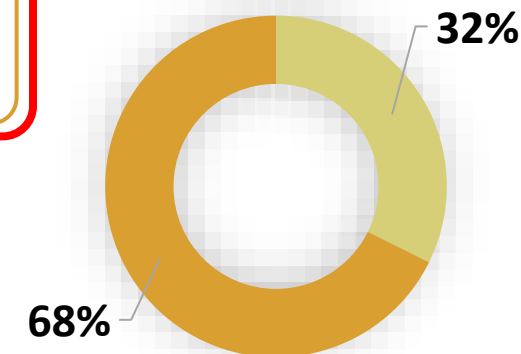
Map of central NSW showing Legacy Minerals tenements (red) and geographical location of major mining and exploration projects in NSW (figures are expressed as mineral resources).

Company overview



Low cost, high-impact exploration
Targeting minerals systems near surface amenable to low-cost exploration

Issued Capital



■ Board and Management
■ Other Shareholders

Share Price - \$0.16



Directors



Dr David Carland
Non-Executive
Chairman



Douglas Menzies
Non-Executive
Director



Matthew Wall
Non-Executive
Director

Management



Christopher Byrne
CEO & Managing
Director



Thomas Wall
Exploration Manager
& Executive Director

Why New South Wales?

Home to Australia's largest gold mine

- Located in a World class jurisdiction with known Tier 1 Deposits
 - Cadia 50Moz Au¹, Cowal 15Moz Au² and Bowdens (400Moz Ag eq.)³

Safe jurisdiction to invest

- 2023 has seen major miners investing in NSW projects 2023 – BHP, Rio Tinto, Newmont, AnlgoGold, IGO
- Two recent mine approvals – McPhillamys and Bowdens

Why Legacy Minerals?

Targeting high value deposits

- Epithermals are some of the richest gold deposits in the world
 - Eg. Cerro Negro (Newmont 7.1Moz Au, 500koz pa⁴)

Quality Partnerships

- Newmont and Legacy Minerals actively exploring at Bauloora

Shareholder growth through discovery

- Aggressive exploration underway across multiple projects

Small market capitalisation presents growth opportunity



Newmont's Cadia-Ridgeway Mine (50Moz Au, 9.8Mt Cu¹)



Legacy Minerals exploration team (Bauloora Project, Newmont Earn-In)

What sets us apart?



Legacy Minerals Discovery Vision

Direct funding



- Five, 100% owned high-quality projects with no royalties
- Multiple projects being actively explored
- **Full upside to shareholders upon exploration success**

Newmont funding

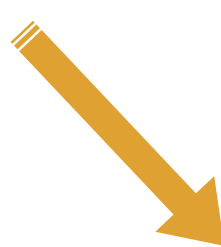


- Aggressive exploration targeting world class deposits
- Financed pathway to mining under earn in
- **Legacy Minerals retains 20% ownership of Project**

Earth AI funding



- Exposure to artificial intelligence
- LGM retain 100% ownership of Projects
- **Success based – No qualifying intercept, no earn-in**



Hybrid Discovery Approach

- **Direct upside for shareholders through self-funded exploration**
- **Minimise exploration risk, dilution, and financing risk with partner funding**
- **Multiple active projects increase the probability of discovery success**

Where the JV model has worked - Greatland Gold (LSE:GGP)

Newcrest Partnership at Havieron's delivered exceptional growth through discovery

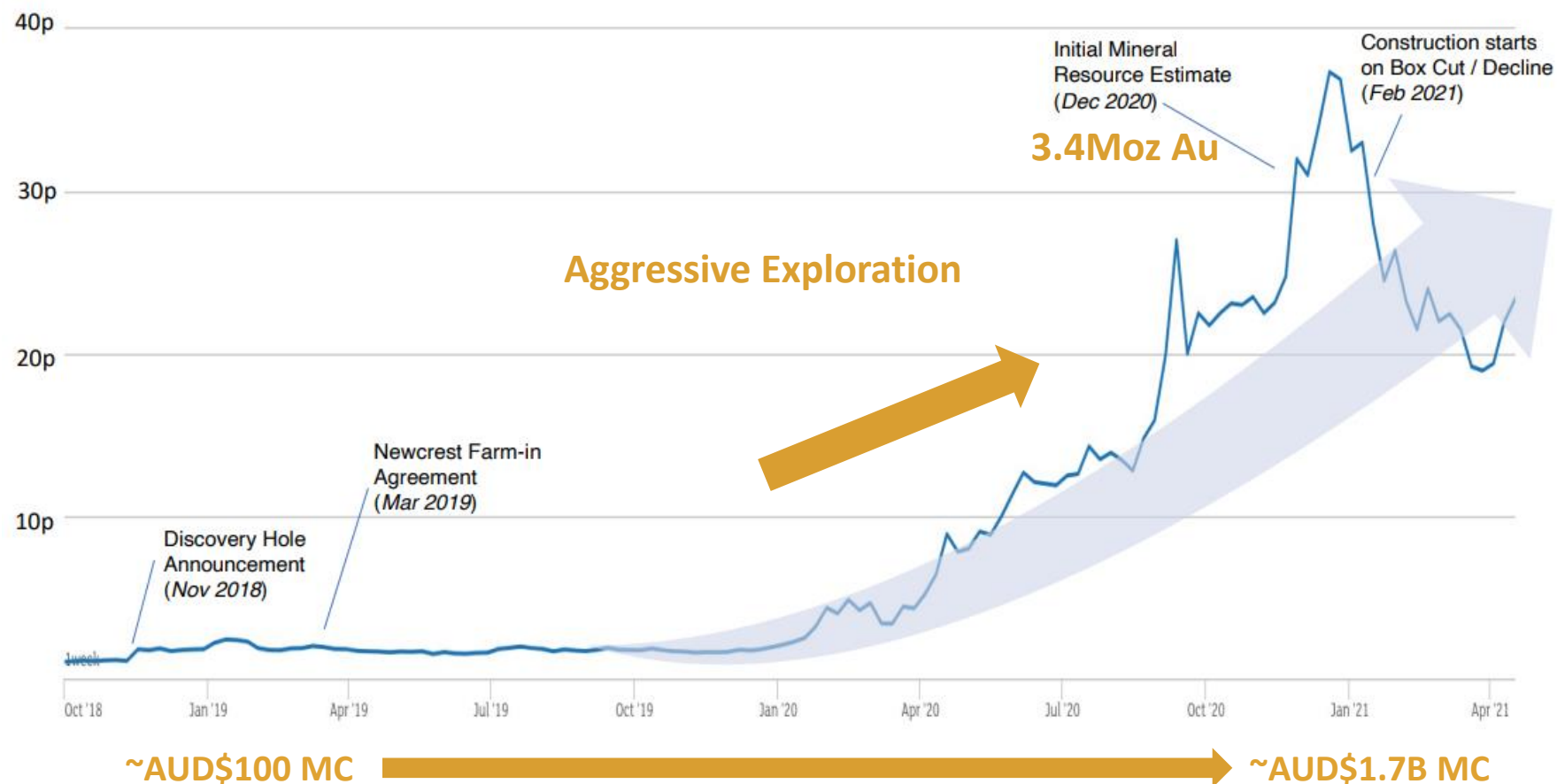
Greatland – Newcrest JV¹

- \$60M for 70% over 7 years
- Greatland to fund its 30%
- As of 2023 \$84M in debt and \$220M facility

Legacy – Newmont JV²

- \$15M for 75% over 8 years
- **LGM option be 20% loan carried to production by NEM**
- Payments to come from production revenue

Greatland Gold Share Price 3 Year Period¹



79
Au

**Large low sulphidation
epithermal with district
control in NSW**

Black Range

Black Range

100% ownership of an underexplored epithermal system

District scale control – 905km² license

- Large 7km² silica-sericite-sulphide alteration zone (Sugarbag Hill Prospect) associated with gold mineralisation.
- **30 years since last significant exploration (Newcrest Mining)**
- Newcrest relinquished the ground in 1992 (year of the Cadia discovery)

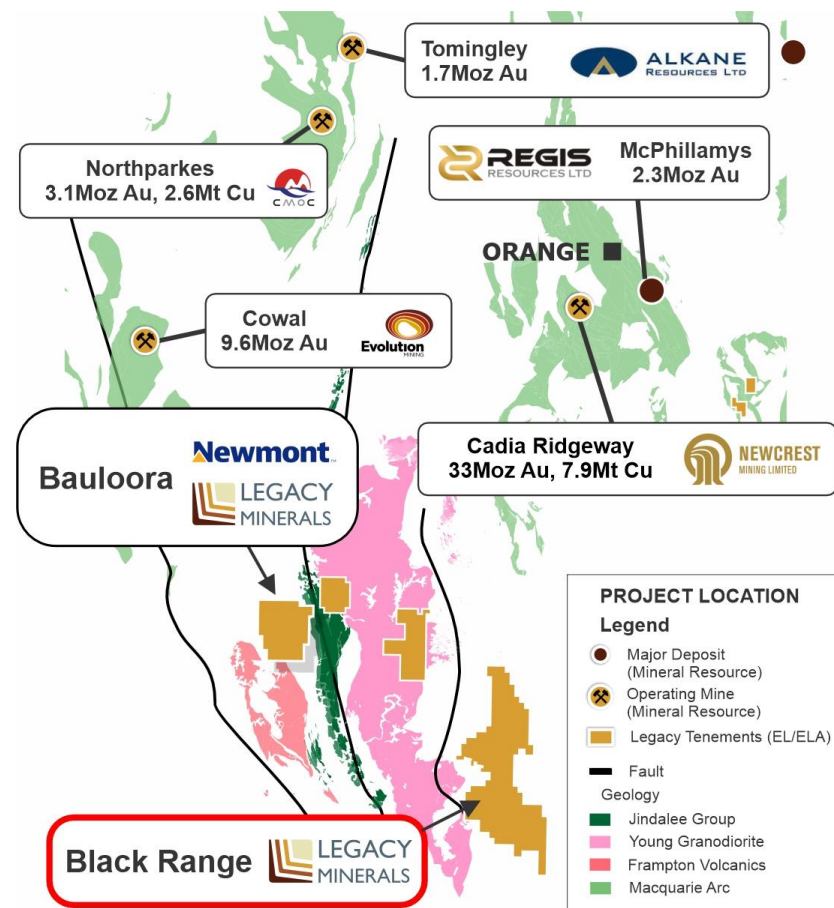
Why are we excited?

- Preservation potential and widespread anomalism
- 65km from Bauloora with known parallels between the two systems
- **Newcrest dated Black Range to be the same age mineralisation as Bauloora**

Upcoming news flow

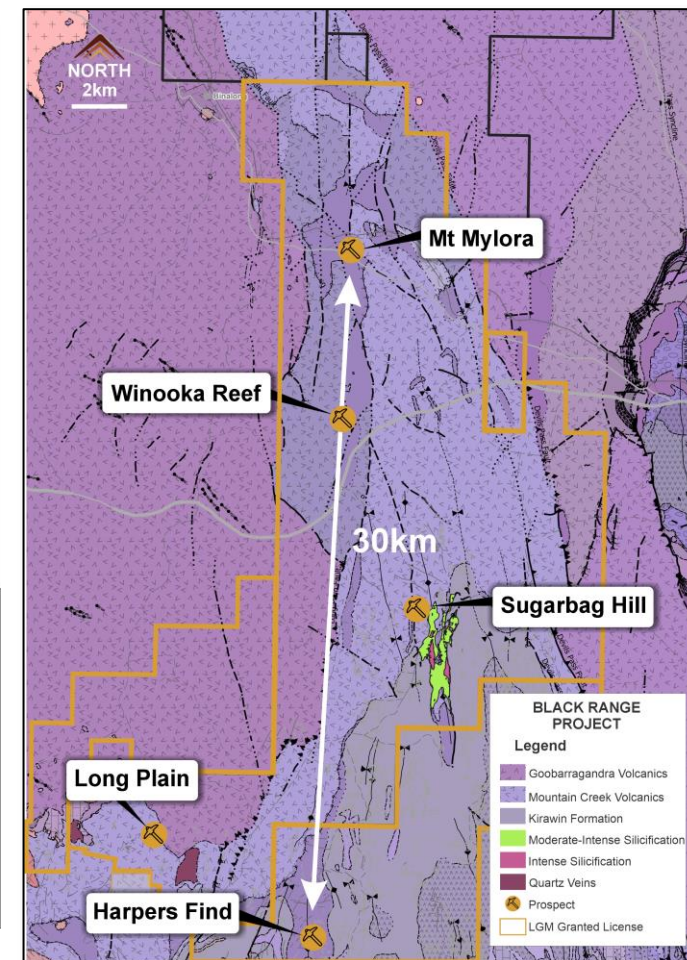
Systemic work with geology and terrain amenable to low cost, high impact exploration

Black Range Project



Black Range EL with solid geology showing major prospect and geology (public data, MinView Department of Regional NSW)

Main Prospects



Black Range regional geology map overlain with EL and ELA tenement boundaries

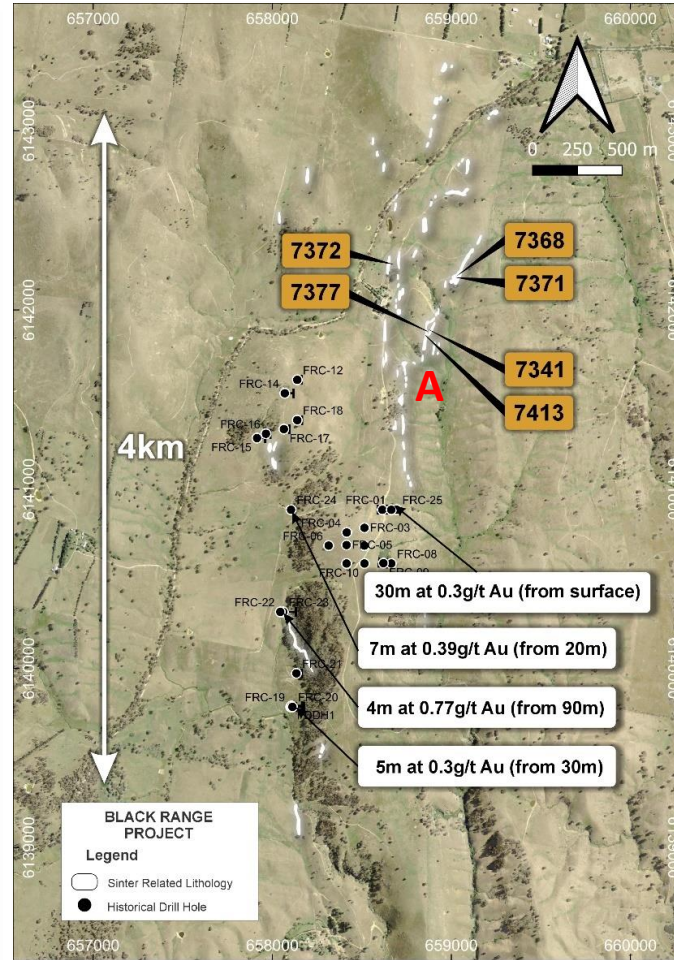
Black Range



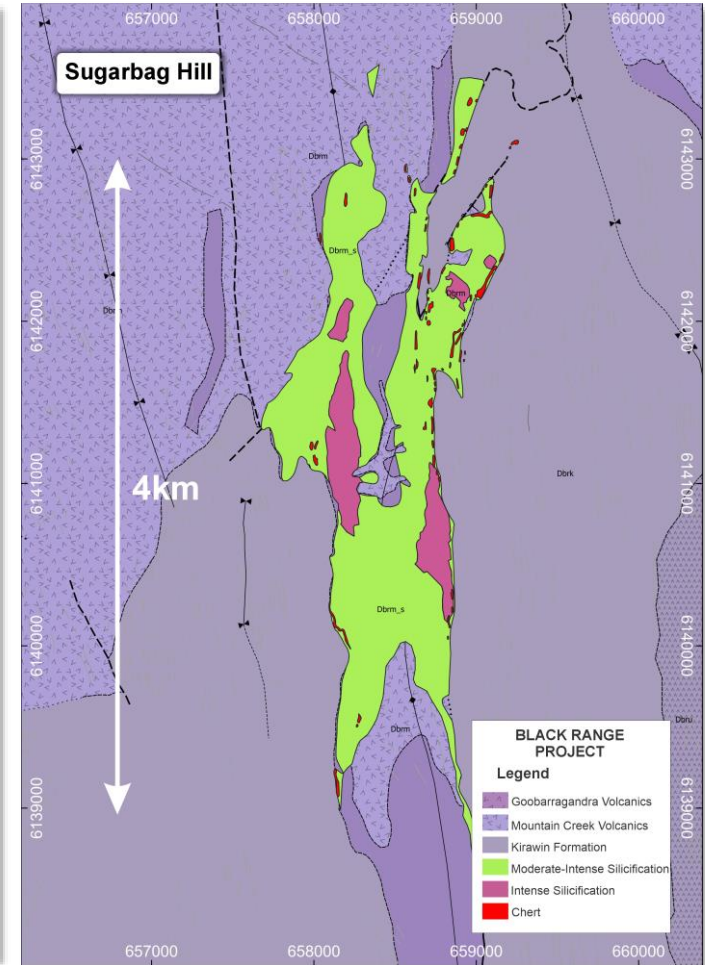
Sugarbag Hill Prospect – Exploration Underway¹



Sinter related lithology at the Sugarbag Hill prospect (Looking South)



Map of sinter related lithology and historic drilling at Sugarbag Hill prospect



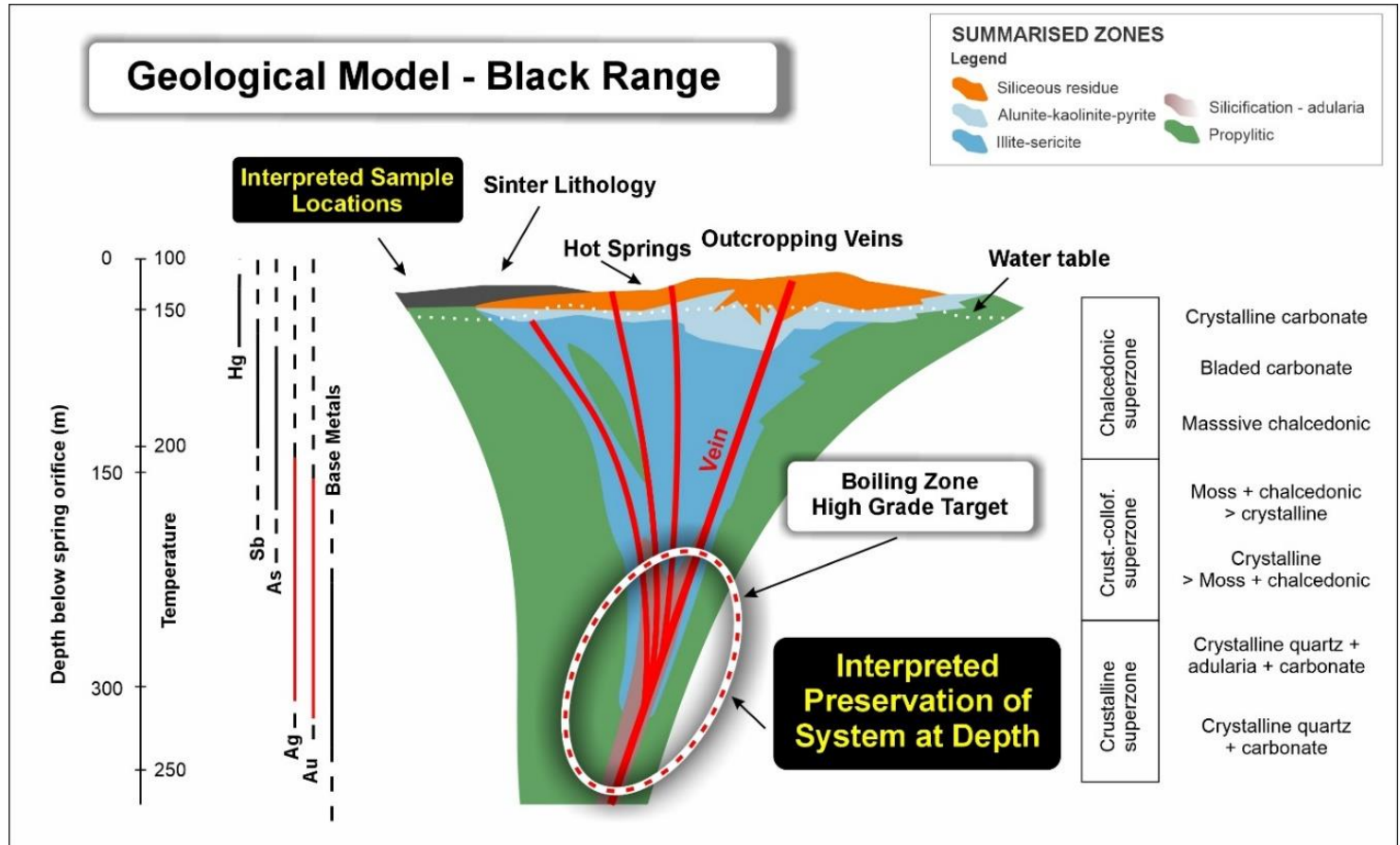
Plan view of the Sugarbag Hill prospect showing mapped geology

Sinter Discovered at Black Range



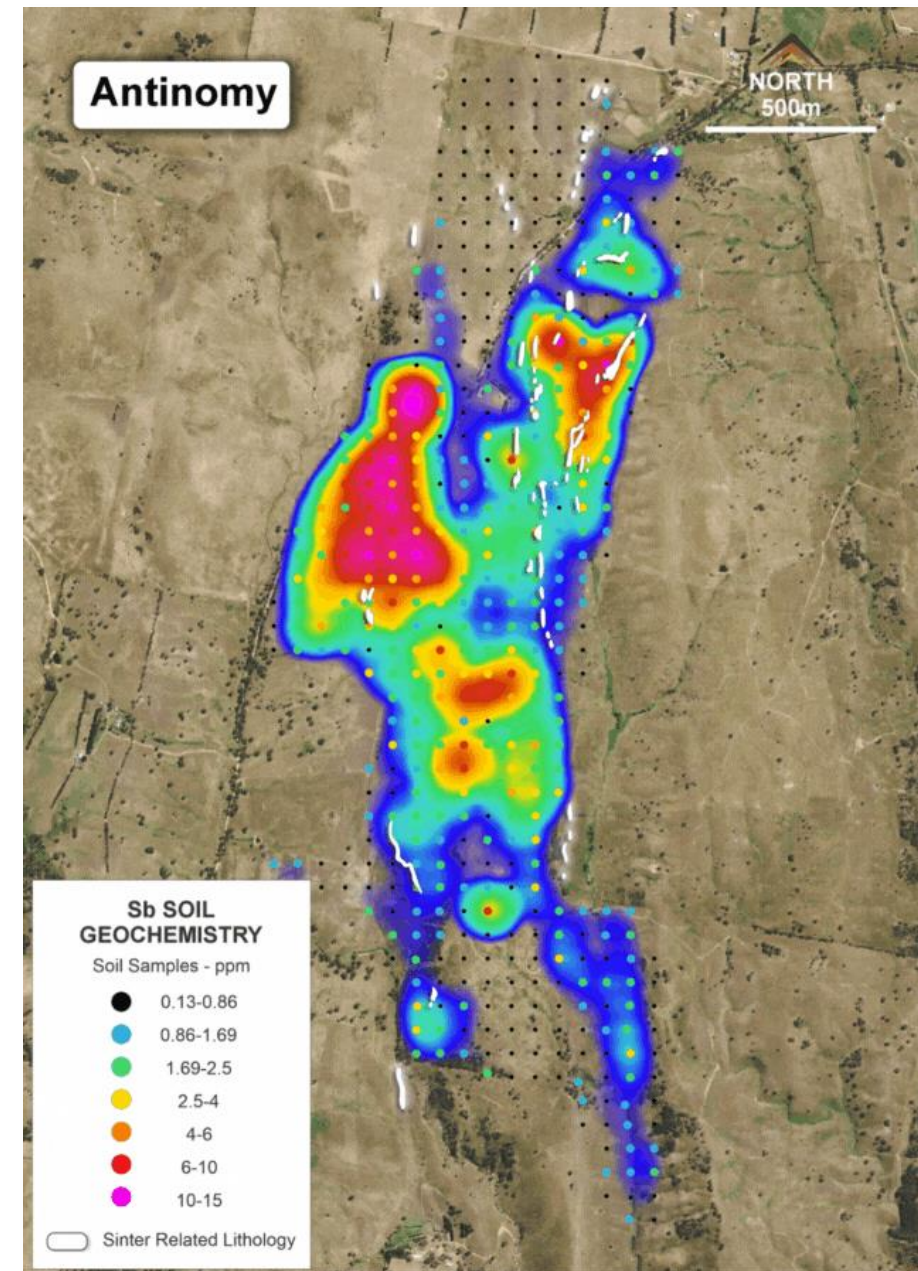
Rock Samples 7371 (7.89ppm Mo and 12.9ppm Sb) and 7377 (1.76ppm Mo and 1.28ppm Sb) are fine-grained siliceous rock interpreted to have formed as a hot spring precipitates, e.g. as silica sinter deposit.

Siliceous chemical sediments are dominated by fine grained quartz (varieties include chalcedonic quartz and very fine to ultrafine granular material); in some there is diffuse layering (including crustiform banding) and small lobate, pelletal and elongate aggregates. Small aggregates, some of spicular form, are interpreted as of former organic origin, and might represent replaced carbonaceous material.



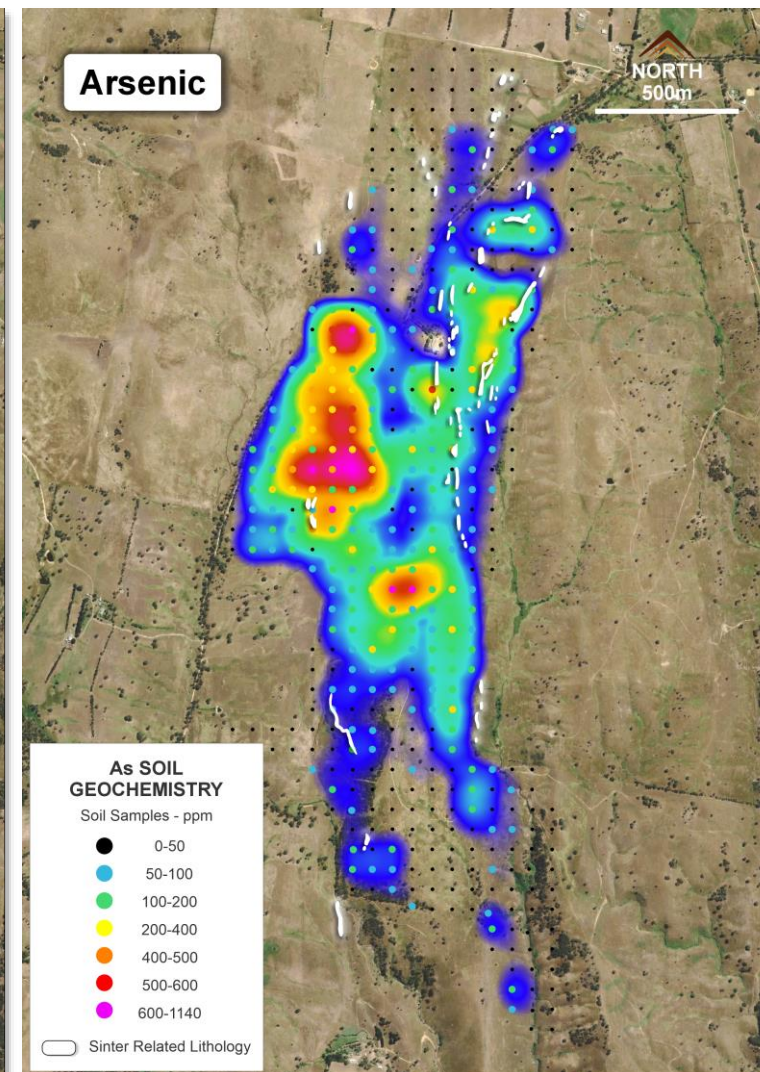
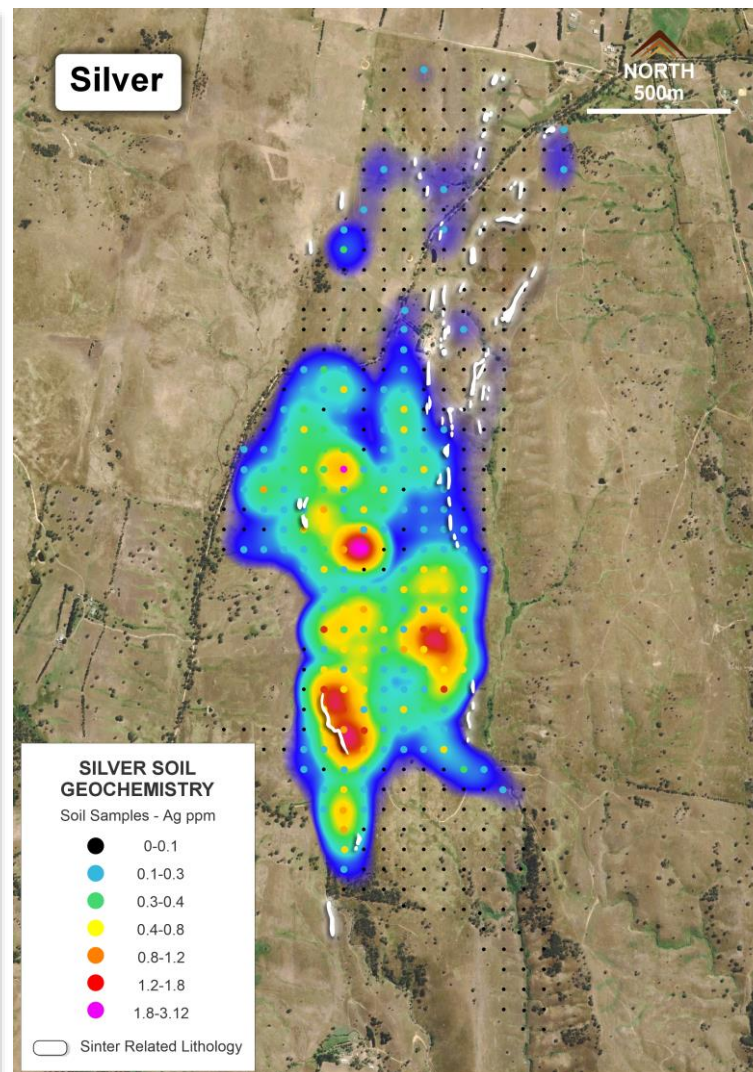
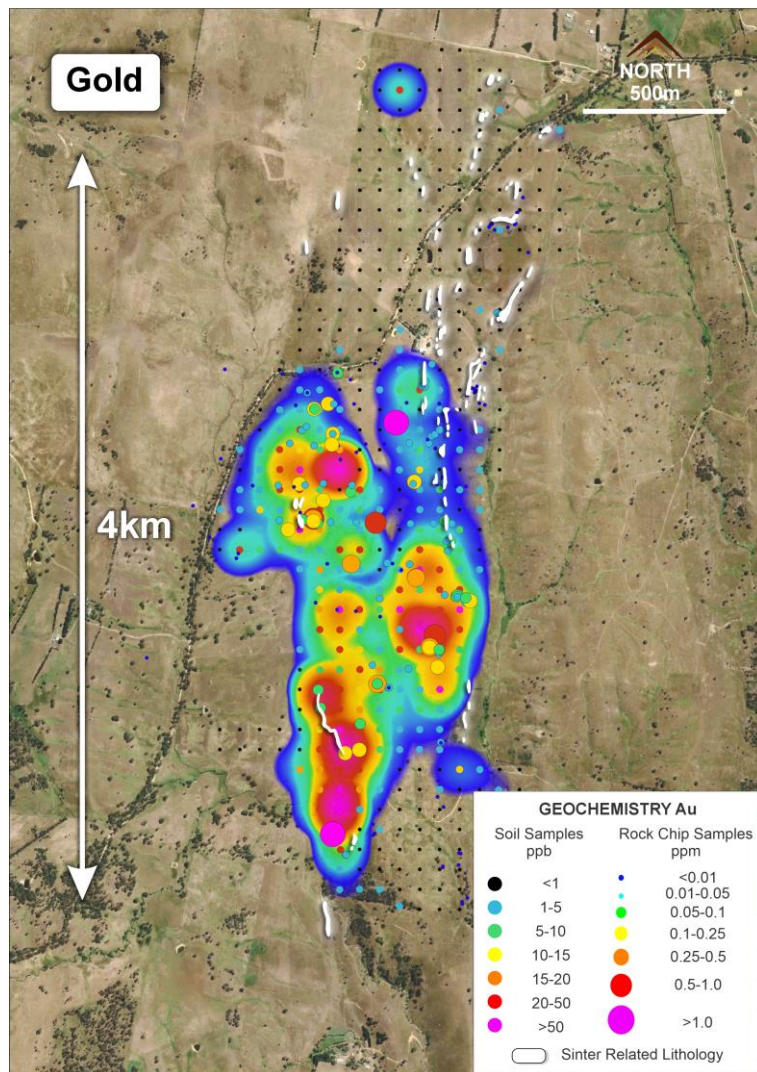
Black Range Geochem

- The latest soil sampling results at Sugarbag Hill have mapped:
 - A **3.5km x 1.2km zone** of elevated low-sulphidation epithermal Au-Ag pathfinder elements
 - **2.2km long gold trend >20ppb Au (up to 296ppb Au).**
- First pass rock chip sampling has returned **up to 2.27g/t gold and 29.6g/t silver.**
- Rock chip samples elevated in gold are dominated by chalcedonic quartz replacement textures consistent with low-sulphidation epithermal gold-silver style mineralisation.



Significant Gold Soil Anomaly

Undrilled coincident pathfinder element targets



Undrilled IP Targets Beneath Sinter

IP targets never before tested



Sugarbag Hill

300m wide gold anomaly

1ppb

24.5ppb

183.5ppb

97.8ppb

9.3ppb

1.7ppb

FRC21

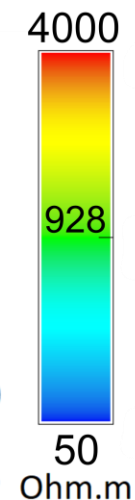
Newcrest Drill Hole - 1992

7m at 0.39g/t Au (from 20m)

2m at 0.16g/t Au (from 28m)

Sinter

Feeder Zone Targets



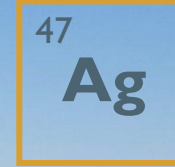
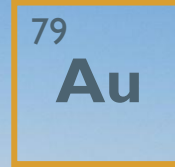
7850 7900 7950 8000 8050 8100 8150 8200 8250 8300 8350 8400 8450



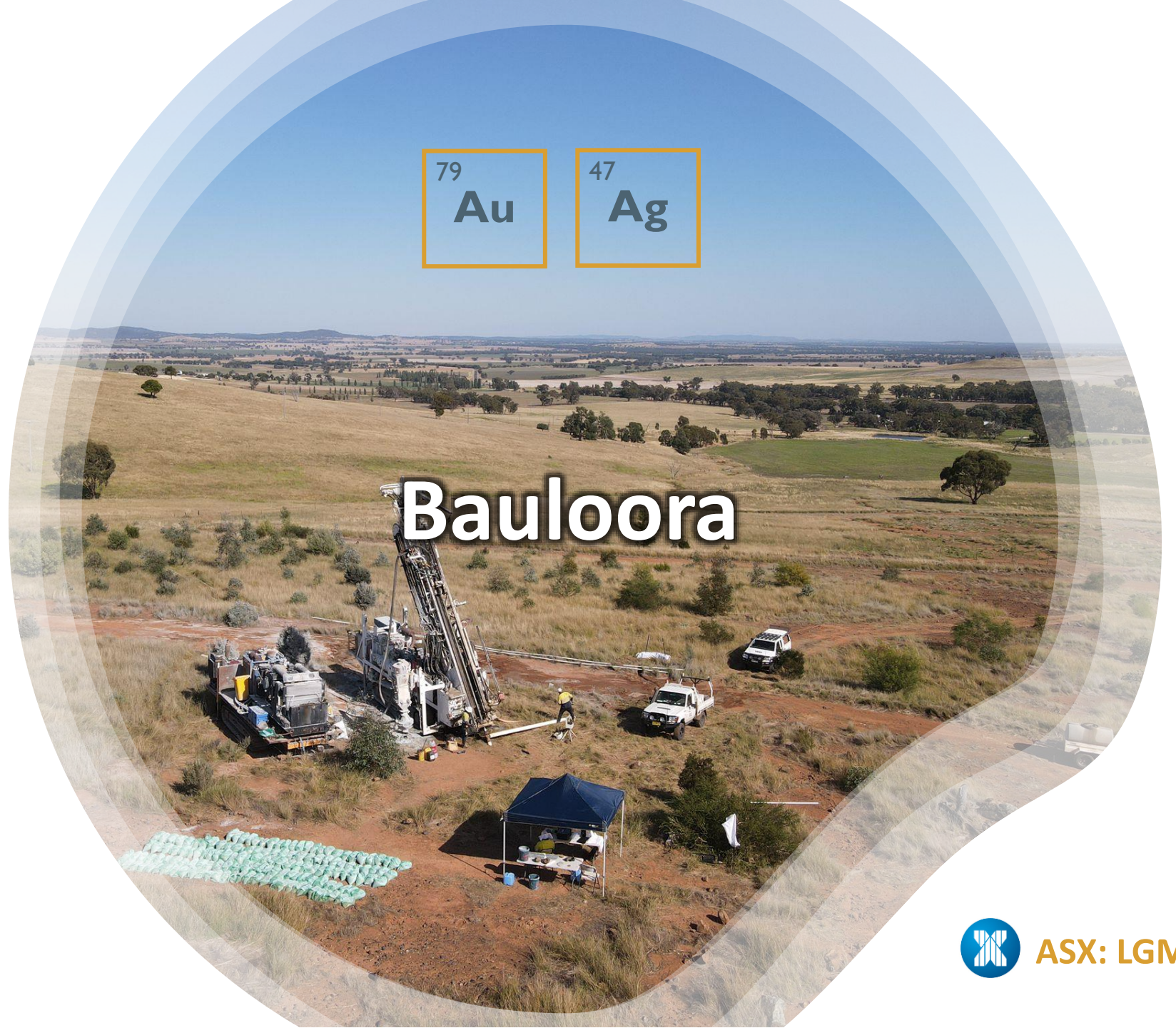
Drilling for a major
epithermal discovery

NewmontTM

Newmont Farm-in



Bauloora



Bauloora

Targeting a Tier 1 Epithermal Deposit

Drilling this quarter

- Immediate discovery exposure

Newmont Joint Venture (\$15M)

- Discovery focused joint venture
- LGM 20% loan carried to production

District scale control – 330km² license

- Alteration across 150km² zone
- 27km² low sulphidation vein field

Untested potential

- Previously unrecognised opportunity

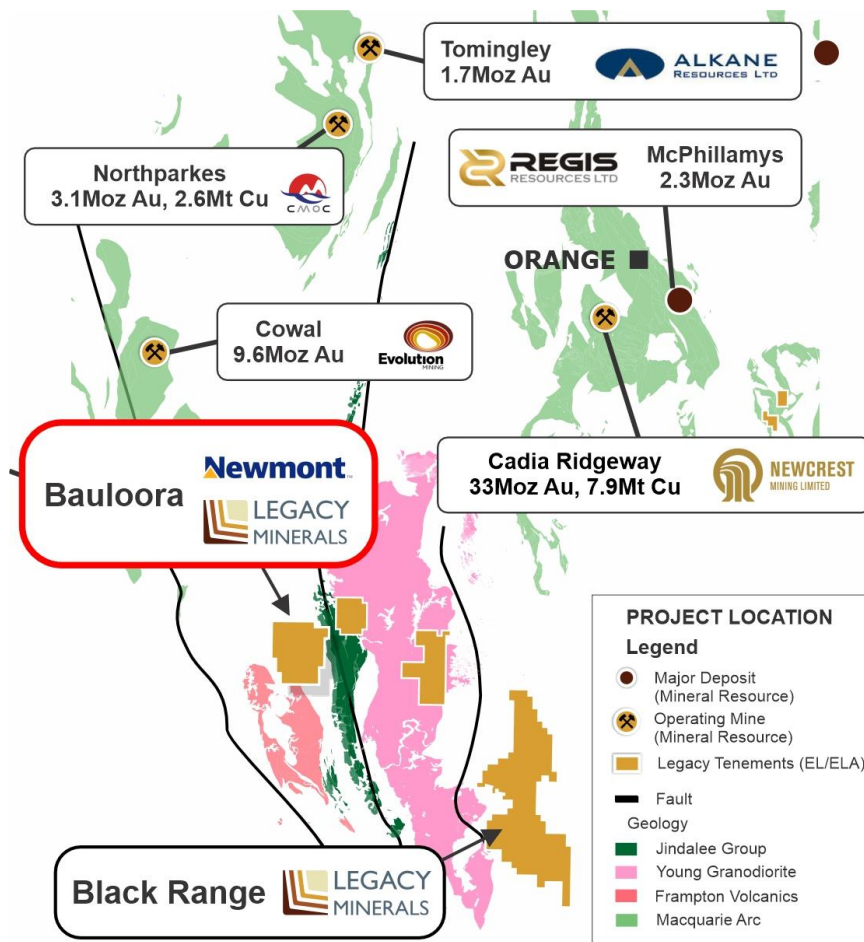
High-Grades and Extensive Veining

- High-grade gold, silver and base metals
- Veins up to 3m wide at surface for >2km

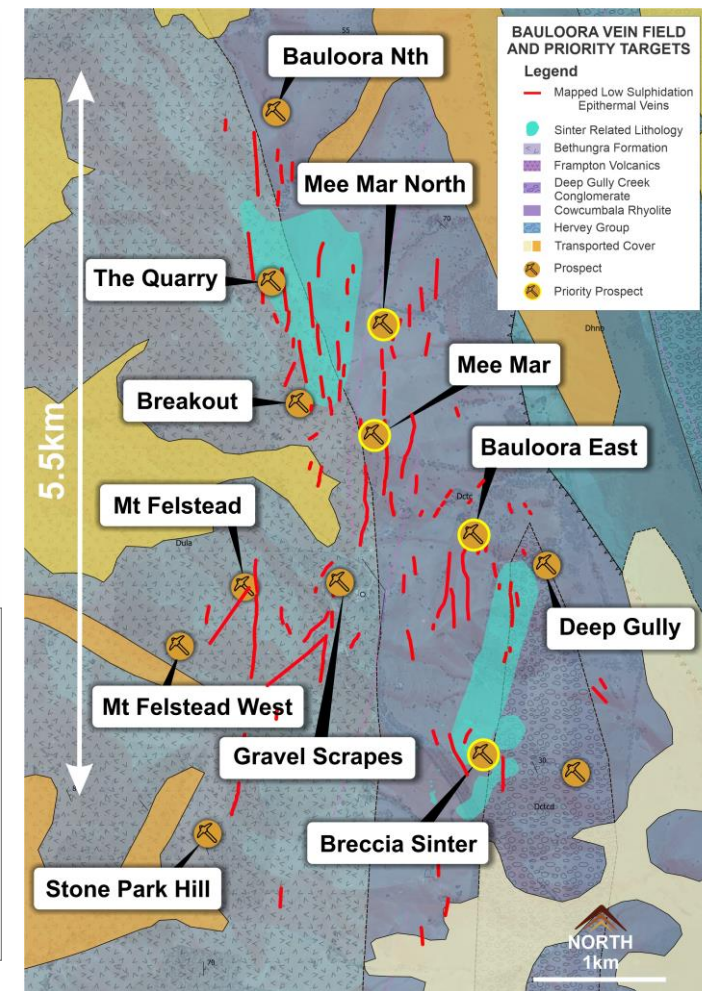
Significant Programs Underway

Large scale ground and airborne geophysics

Bauloora Project



Primary Vein Field



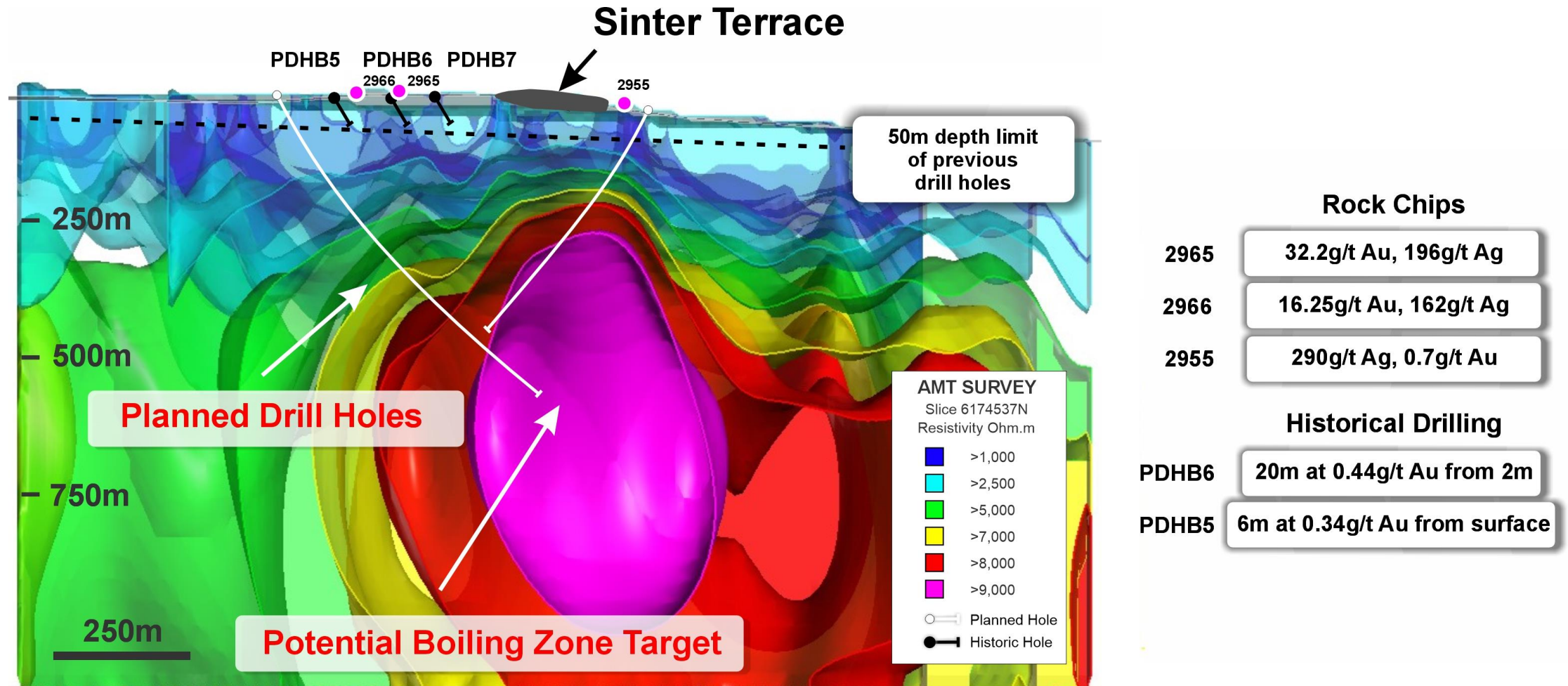
Current combined extent of low-sulphidation epithermal-style textured veins and sinter related lithology¹

'Bulls Eye' 500mx500m Resistive Anomaly



Drilling Underway

- A strongly resistive anomaly (~9,000 ohm*m) has been identified and is depth extensive (>1,000m) and comes to within 300m of the surface¹



Textbook Response

Geological Model for the Breccia Sinter and AMT Response¹

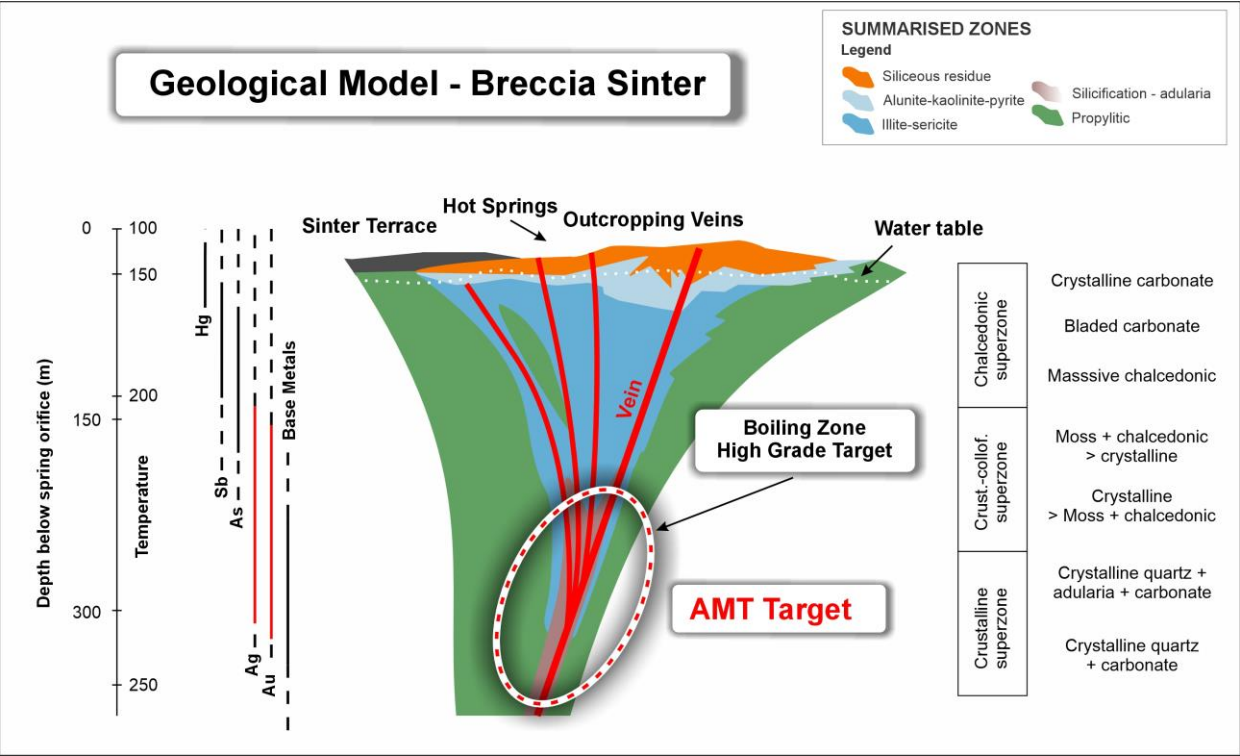


Figure 1. Showing the geological model used for targeting at Bauloora (after Buchanan, 1981)

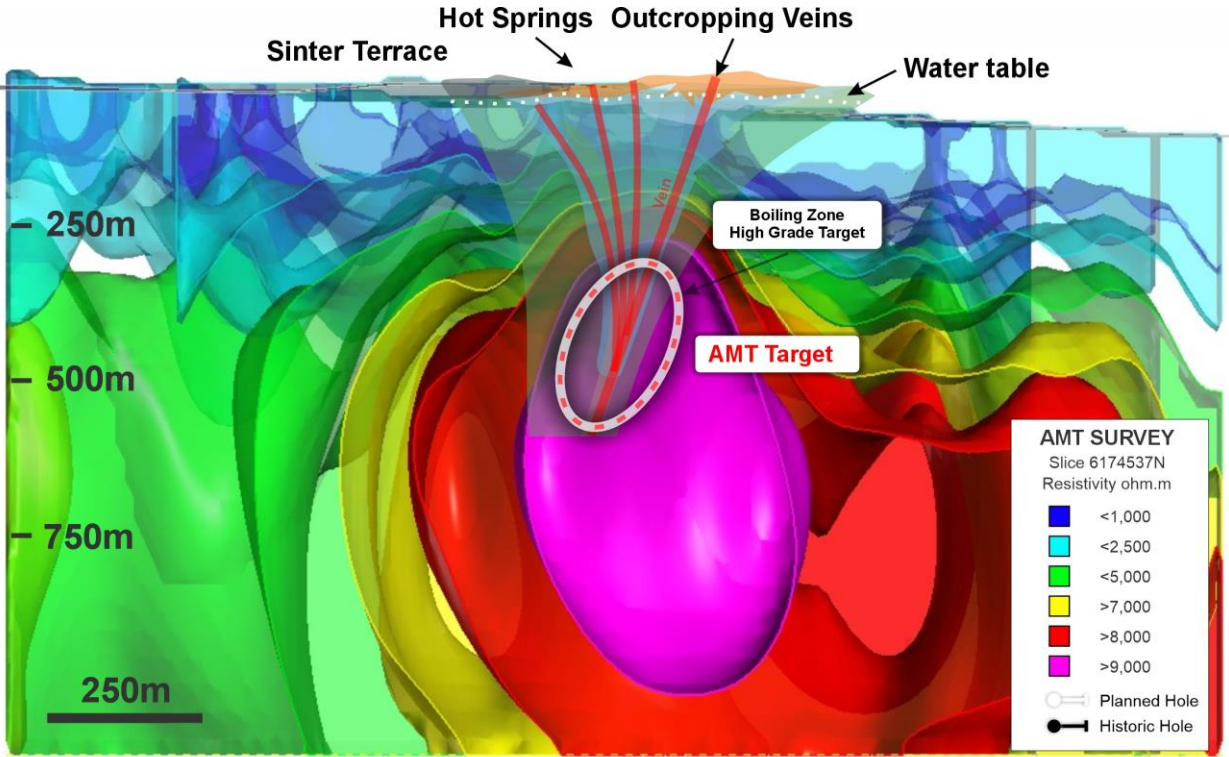
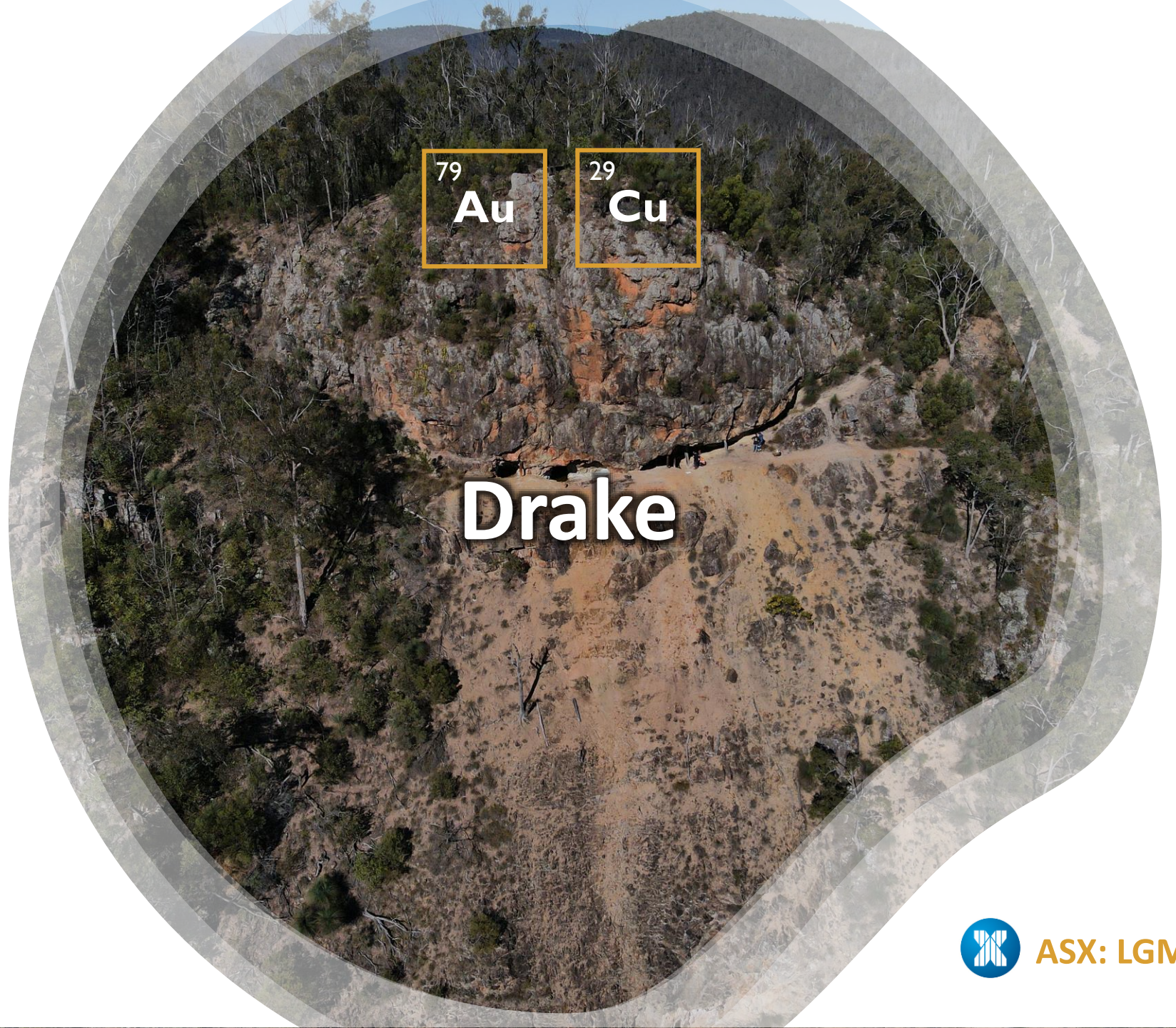


Figure 2. Showing the geological model used for targeting at Bauloora (after Buchanan, 1981) overlain over the 3D AMT model at the Breccia Sinter prospect.



**'Legacy' project with new
copper-gold vision**



Drake Exploration License

Significant Discovery Opportunity

Transaction opportunity

\$200k unencumbered sale from White Rock Resources (WRM)

- **\$20-30M in project expenditure** by previous companies
- Completely surrounds the Mt Carrington MLs – 320kOz Au and 23Moz Ag of resources in existing open pit mines¹
- District scale pegging opportunity

Historical focus on mining has left behind great targets

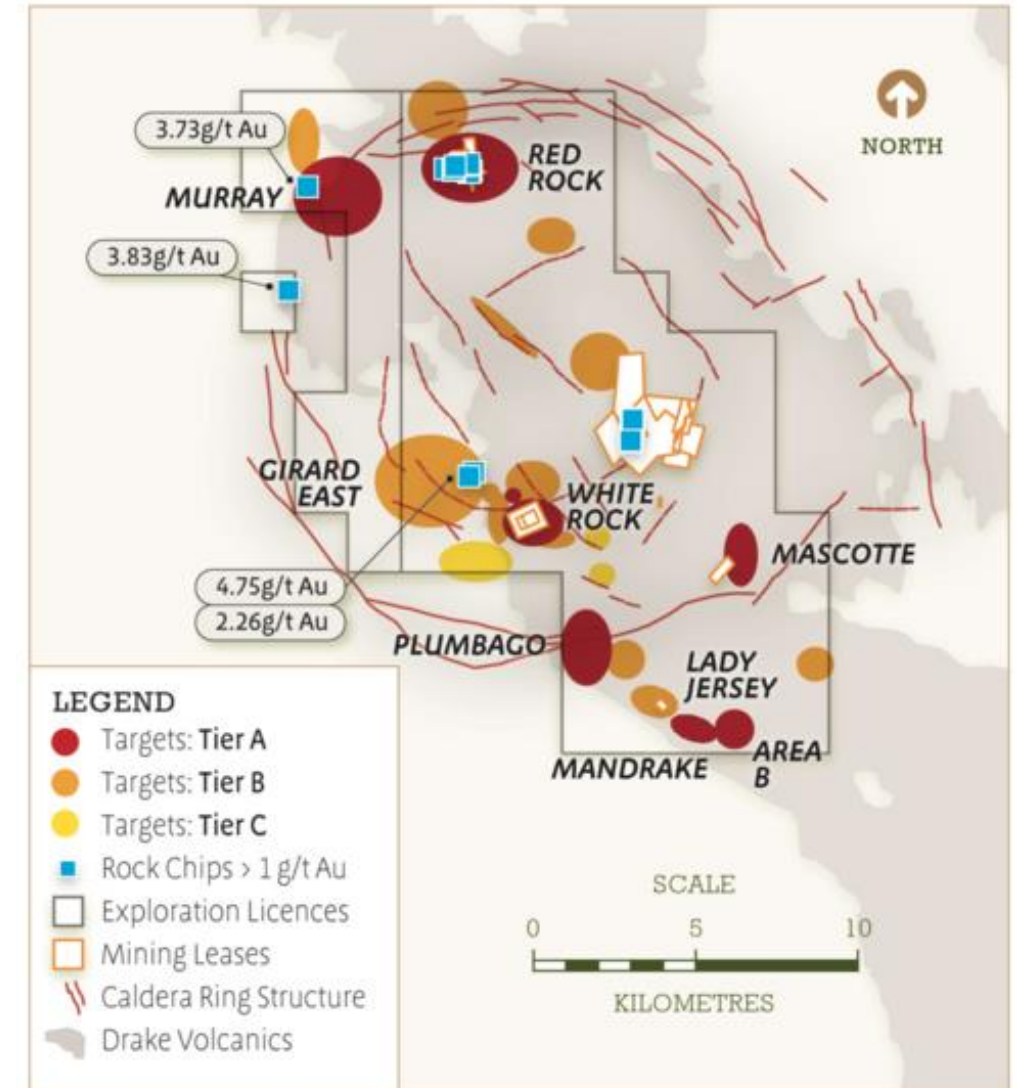
- ‘Legacy’ project with new exploration vision and approach

Significant project scale compared to global systems

- Prospective for LSE-ISE and PCD deposits
- Similar features in other magmatic arcs such as the Porgera

Copper upside

- **Extensive copper oxide potential across several kilometers**
- Drilling on the neighbouring mining license (WRM:ASX) includes:
 - **18.65m at 5.8% Cu from 52m** and
 - **10.1m at 7.26% Cu from 88m².**



Drake Regional Exploration Targets (2015 WRM ELs)³

At the head of the pack with artificial intelligence exploration

Earth AI Exploration Alliance



Artificial Intelligence Drilling Underway

Targeting Ni-Cu-PGE

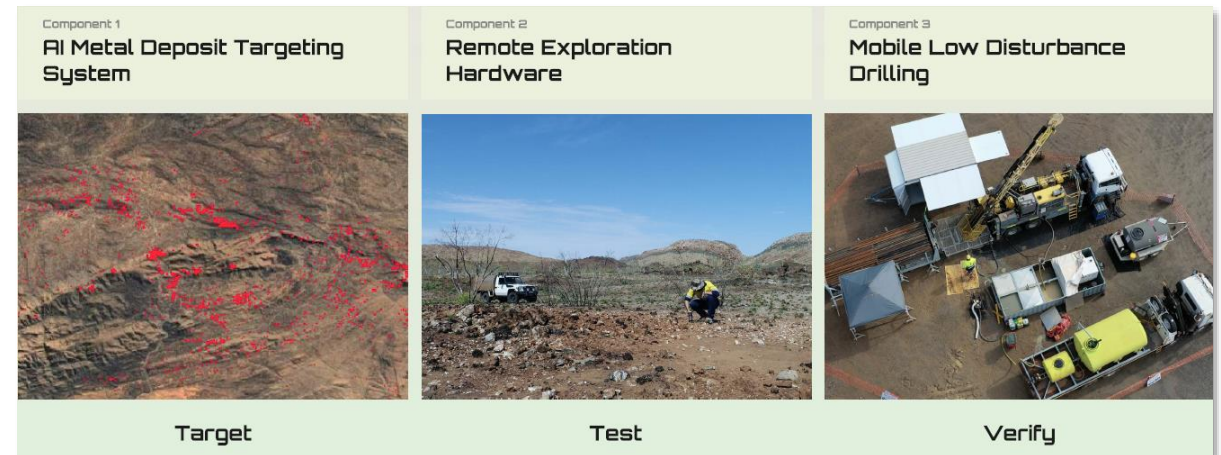
Widespread Cu-Au and Ni-Cu-PGE anomalism with limited drilling testing¹



Earth AI

Strategic Alliance putting LGM at the exploration forefront²

- Exposure for LGM shareholders to the proprietary artificial intelligence owned by Earth AI (EAI)
- Vertically integrated with drill rig ownership
- EAI will spend up to \$4.5M over 2 years
- Success based earn-in unlike a 'classic JV'
 - Need to get an economic intercept
- LGM retain 100% ownership of project



Why Legacy Minerals?



Immediate discovery exposure



Tier 1 Jurisdiction
Tier 1 Targets



Exciting new projects



Vision to realise growth

CONTACT

ASX:LGM

Chris Byrne

CEO and Managing Director

chris.byrne@legacyminerals.com.au

+61 (0) 499 527 547



ASX: LGM

Appendices – Endnotes



Slide 3, Slide 9, Slide 16 1 Alkane Resources Kaiser Resource Estimate of ~4.7M Gold Equivalent 27 February 2023; 2 Silver Mines, Ord Minnett East coast Mining Conference, March 2023; 3 Alkane Resource and Reserve Statement FY22, 9 September 2022; 4 Newcrest Mining Annual Mineral Resources and Ore Reserves Statement 17 February 2022; 5 Sandfire Resources NL 2019 Annual Report ; 6 Regis Resources Annual Mineral Resource and Ore Reserve Statement 8 June 2022; 7 CMOC Northparkes Mining and Technical Information; 8 Evolution Mining 2022 Annual Report

Project & Company	Mineral Resource	Measured Resource	Indicated Resource	Inferred Resource
Bowdens, NSW (Silver Mines Ltd)	396Moz AuEq	236 AgEq	88 AgEq	73 AgEq
Boda-Kaiser, NSW (Alkane Resources Ltd)	7.26Moz Au, 1.38Mt Cu	-	-	7.26Moz Au, 1.38Mt Cu
Tomingley, NSW (Alkane Resources Ltd)	1.75Moz Au	0.13M Au	1.019Moz Au	0.59Moz
McPhillamys, NSW (Regis Resources Ltd)	2.29Moz Au		2.28Moz Au	0.001Moz Au
Cadia-Ridegway, NSW (Newcrest Mining Ltd)	33.31Moz Au, 7.9Mt Cu	0.31Moz Au, 0.041Mt Cu	33Moz Au, 7.3Mt Cu	0.75Moz, 1.1Mt Cu
Cowal, NSW (Evolution Mining Limited)	9.618Moz Au	0.367Moz Au	7.33Moz Au	1.92Moz Au
Temora, NSW (Sandfire Resources Ltd)	2.2Moz 728kt Cu	-	0.381Moz Au, 83kt Cu	1.8Moz Au, 645kt Cu
Nth Parkes, NSW (CMOC Mining Pty Ltd)	3.09Moz Au, 2.63Mt Cu	1.64Moz Au, 1.2Mt Cu	1.1Moz Au, 1.1Mt Cu	0.35Moz Au, 0.33Mt Cu

Mineral Equivalents:

Bowdens: Calculations have been rounded to the nearest 100,000 t, 0.1 g/t silver and 0.01% zinc and lead grades respectively. The Ore Reserve is reported by economic cut-off grade with appropriate consideration of modifying factors including costs, geotechnical considerations, mining and process recoveries and metal pricing. Bowdens' silver equivalent: $\text{Ag Eq (g/t)} = \text{Ag (g/t)} + 33.48 * \text{Pb (\%)} + 49.61 * \text{Zn (\%)} + 80 * \text{Au (g/t)}$ calculated from prices of US\$20/oz silver, US\$1.50/lb zinc, US\$1.00/lb lead, US\$1600/oz gold and metallurgical recoveries of 85% silver, 82% zinc, 83% lead and 85% gold estimated from test work commissioned by Silver Mines Limited (Silver Mines, Ord Minnett East coast Mining Conference, March 2023)



Appendices – Endnotes (continued)

Slide 7 1: Greatland Gold, greatlandgold.com/wp-content/uploads/2023/08/2023.08.07-Greatland-Diggers-Dealers-Presentation.pdf, greatlandgold.com/wp-content/uploads/2022/09/22092022-GGP-Corporate-Update-Sep-2022-vfinal.pdf 2: ASX LGM: 5 April 2023 Newmont Farm-in at Bauloora Project

Slide 9 1: ASX: 27 April 2023 Exploration underway at new low-sulphidation epithermal, NSW

Slide 10 1: ASX: 15 February 2023 Significant new discovery at the Bauloora Epithermal Project; 2: LGM ASX: 21 NOV2022 New High-Grade Gold Assays Returned Across Bauloora

Slide 11 1: ASX: Widespread Silica Sinter Confirmed at Black Range

Slide 12 1: ASX: Large 2.2km Long Gold Anomaly defined at Black Range

Slide 13 1: ASX: Large 2.2km Long Gold Anomaly defined at Black Range

Slide 14 1: ASX: High Conviction Drill Targets Defined at Black Range

Slide 16 1: ASX: 19 October 2022 Exploration Ramp up at Bauloora Epithermal Gold Project

Slide 17 1: ASX: 29 August 2023 Large 500m x 500m Bulls-Eye anomaly defined at Bauloora

Slide 20 1: ASX: 20 July 2023 Acquisition of District Scale Copper-Gold Epithermal Project 2: ASX: WRM 24 October 2022 High Grade Copper Target Identified at Mt Carrington, 3: ASX WRM 28 July 2015 Investor Presentation

Slide 22 1: ASX: 22 June 2023 Nickel-Copper Sulphide and PGEs found at Fontenoy 2: ASX LGM 3 May 2022 Strategic Exploration Alliance with AI Explorer