

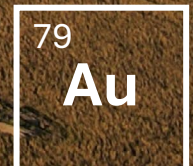


Compelling new discovery opportunities

PRESENTED BY

Chris Byrne – CEO and Managing Director

Resource Rising Stars, 1 Feb 2024



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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.

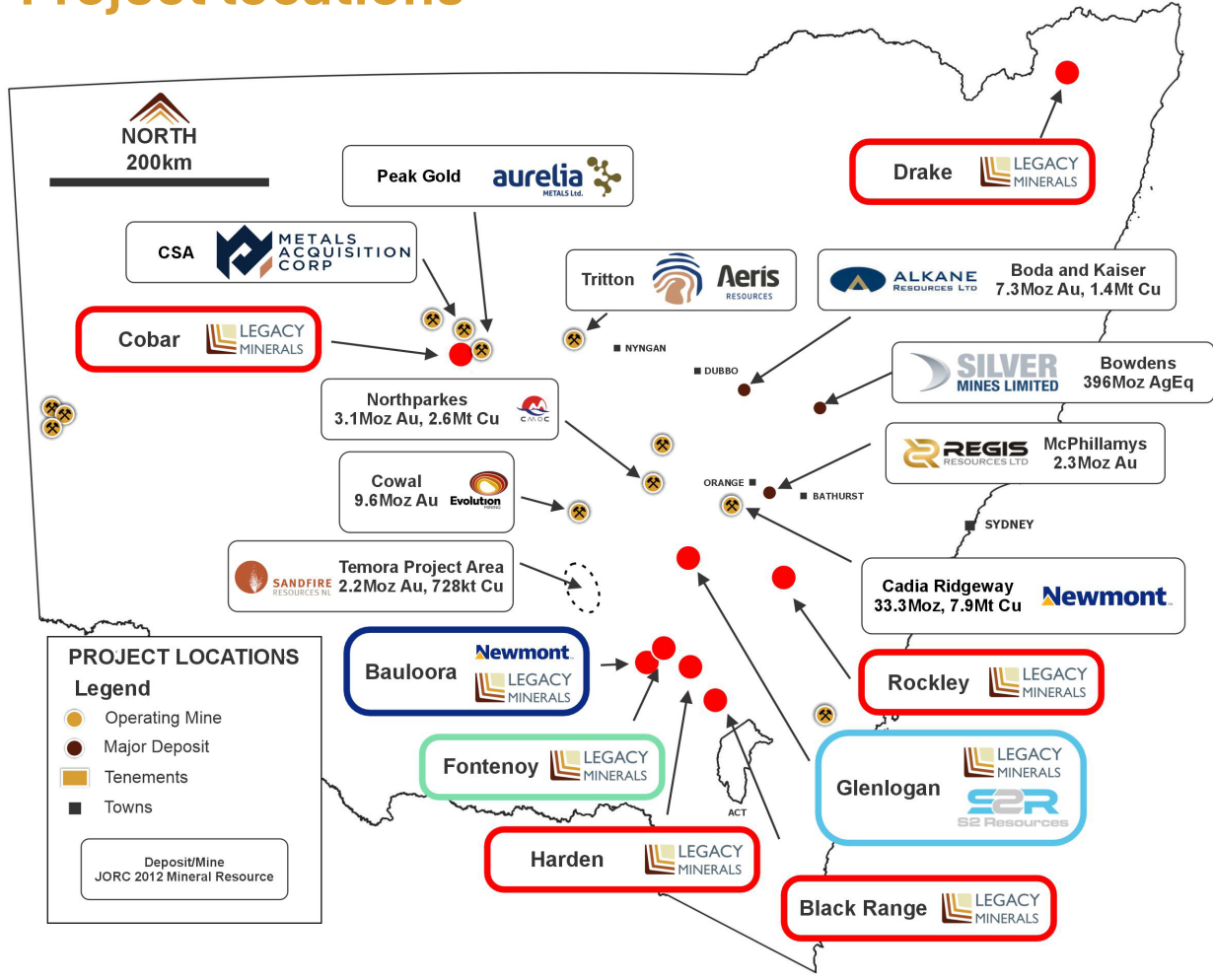
The information in this presentation that relates to Exploration Targets, Exploration Results, Mineral Resources or Ore Reserves is based on information compiled by Thomas Wall, a Competent Person who is a Member of the Australian Institute of Geoscientists. Mr Wall is the Technical Director is a full-time 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

Project locations



Key Projects

Black Range	Au-Ag	LGM 100%
Bauloora	Au-Ag	Newmont™
Drake	Au-Cu	LGM 100%
Glenlogan	Cu-Au	S2 Resources

Pipeline Projects

Fontenoy	Ni-Cu-PGE-Au	EARTH AI
Cobar, Rockley, Harden		LGM 100%

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

Share Price **\$0.13¹**



Market Cap **\$13M**

Shares Outstanding **98M**

Options **5.3M**

Cash **\$3.2M²**

Debt **Nil**

Top 20 **52%**

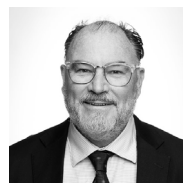
Joint Venture Funding **\$25.5M**



Board and Management



Dr David Carland
Non-Executive
Chairman



Matthew Wall
Non-Executive
Director



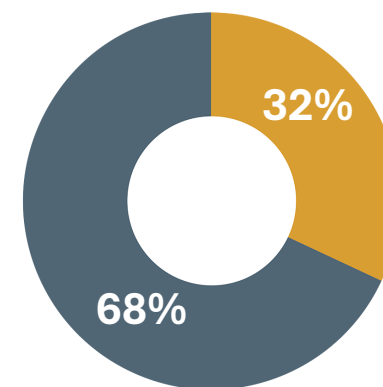
Douglas Menzies
Non-Executive
Director



Christopher Byrne
CEO and
Managing Director



Thomas Wall
Exploration Manager
and Executive Director



Issued Capital

- Other shareholders
- Board and Management



ASX: LGM

1: At 31 January 2024

2: Pro-forma cash at completion of capital raise

Why Legacy Minerals?

Targeting high value deposits

- Epithermals and porphyries are some of worlds' richest gold/copper deposits
 - Eg. Cerro Negro (Newmont 7.1Moz Au, 500koz pa⁴)

Quality Partnerships

- Newmont, S2 Resources and Earth AI

Shareholder growth through discovery

- Aggressive exploration underway across multiple projects

Small market capitalisation presents growth opportunity

Why New South Wales? – 110Moz Au, 19Mt Cu¹

Home to Australia's largest gold mine

- Located in a World class jurisdiction with Tier 1 Deposits
 - Cadia 33.3Moz Au², Cowal 9.6Moz Au³ and Bowdens (400Moz Ag eq.)⁴

Safe jurisdiction to invest

- Recent investing by major miners in NSW:
 - BHP, Rio Tinto, Newmont, AngloGold Ashanti, IGO



Newmont's Cadia-Ridgeway Mine (33.3Moz Au, 9.8Mt Cu¹)



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




Our strategy to deliver shareholder growth

Direct funding 

- 5 x 100% owned high-quality projects - no royalties
- Multiple projects being actively explored
- **Full discovery upside to shareholders upon exploration success**

Joint Ventures 

- **Newmont**
- **S2 Resources**
- Aggressive exploration targeting world class deposits
- Financed pathway to mining under earn in
- **Legacy Minerals retains 20% ownership of Project**

Strategic Alliance 

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



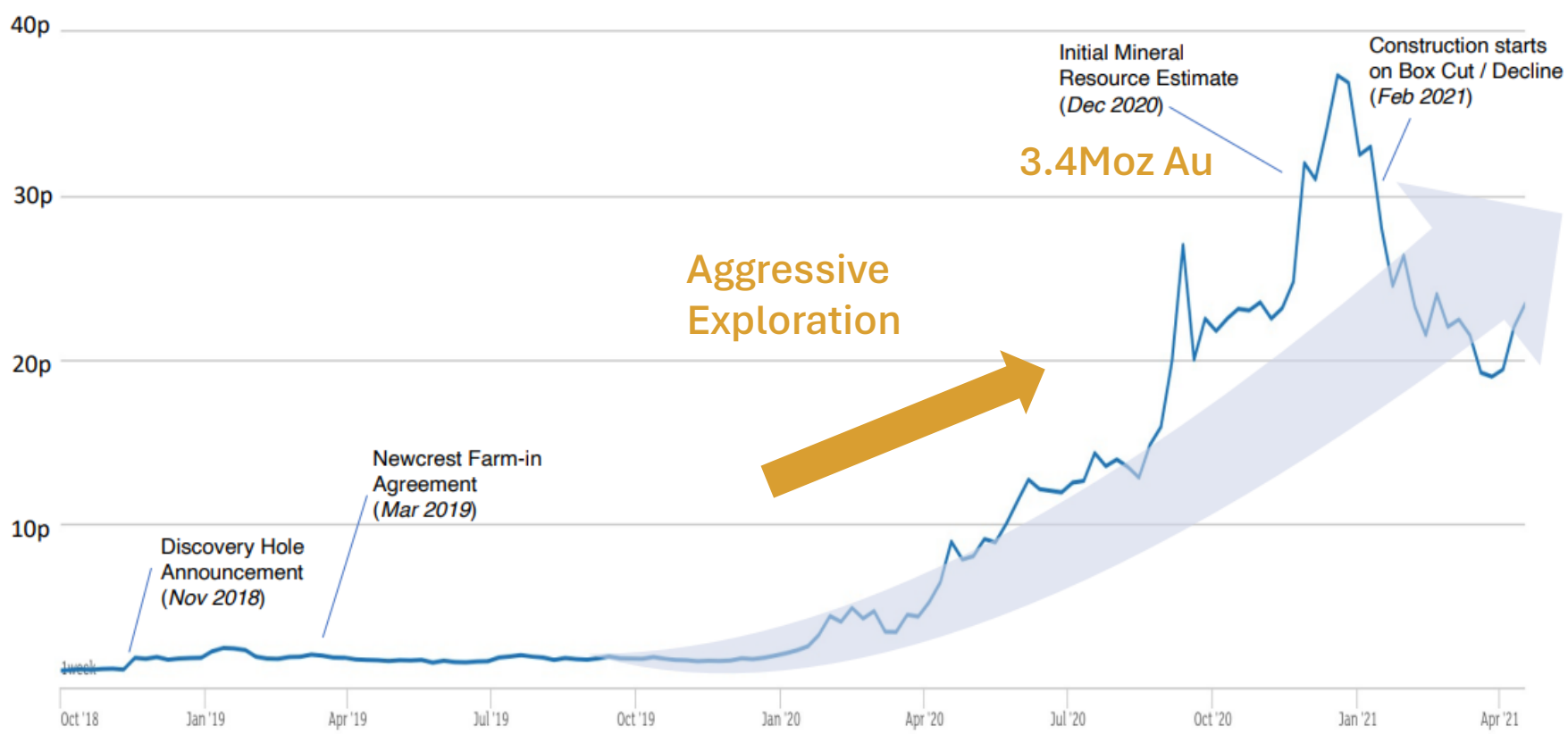
Hybrid Discovery Approach

- **Direct upside for shareholders through self-funded exploration**
- **Minimise dilution and financing risk with partner funding**
 - \$25 million in JV and strategic alliance funding
- **Multiple active projects increase the probability of discovery success**
 - Minimum of 4 major projects to be drilled in 2024

JV Partnership Delivering Value - Greatland Gold (LSE:GGP)

Newcrest JV at Havieron's delivered exceptional growth through discovery for Greatland Gold shareholders

Greatland Gold Share Price 3 Year Period (> x 10)



~AUD\$100 MC → ~AUD\$1.7B MC

Greatland – Newcrest JV¹

- \$60M for 70% over 7 years
- Greatland to fund its 30%
- As of 2023 ~\$300M in debt/debt facility

Legacy – Newmont and S2R JV²



JV's ensure sufficient funding to deliver potential discovery's



LGM option for 20% loan carried to production

Payments to come from production revenue



ASX: LGM

Note: references on this slide are in the Appendix – Endnotes on Slides 22 and 23

Glenlogan

A Tier-1 Cu-Au porphyry target



Targeting a Copper-Gold Giant

Partnership with S2 Resources

Tier-1 Cadia-style porphyry target

- Planning underway for testing the target in 2024

Rio Tinto did not drill test

- Rio Tinto last held in the ground in 1994 and did not drill test the target due to modelled target depth of 800m

Modern geophysical breakthrough

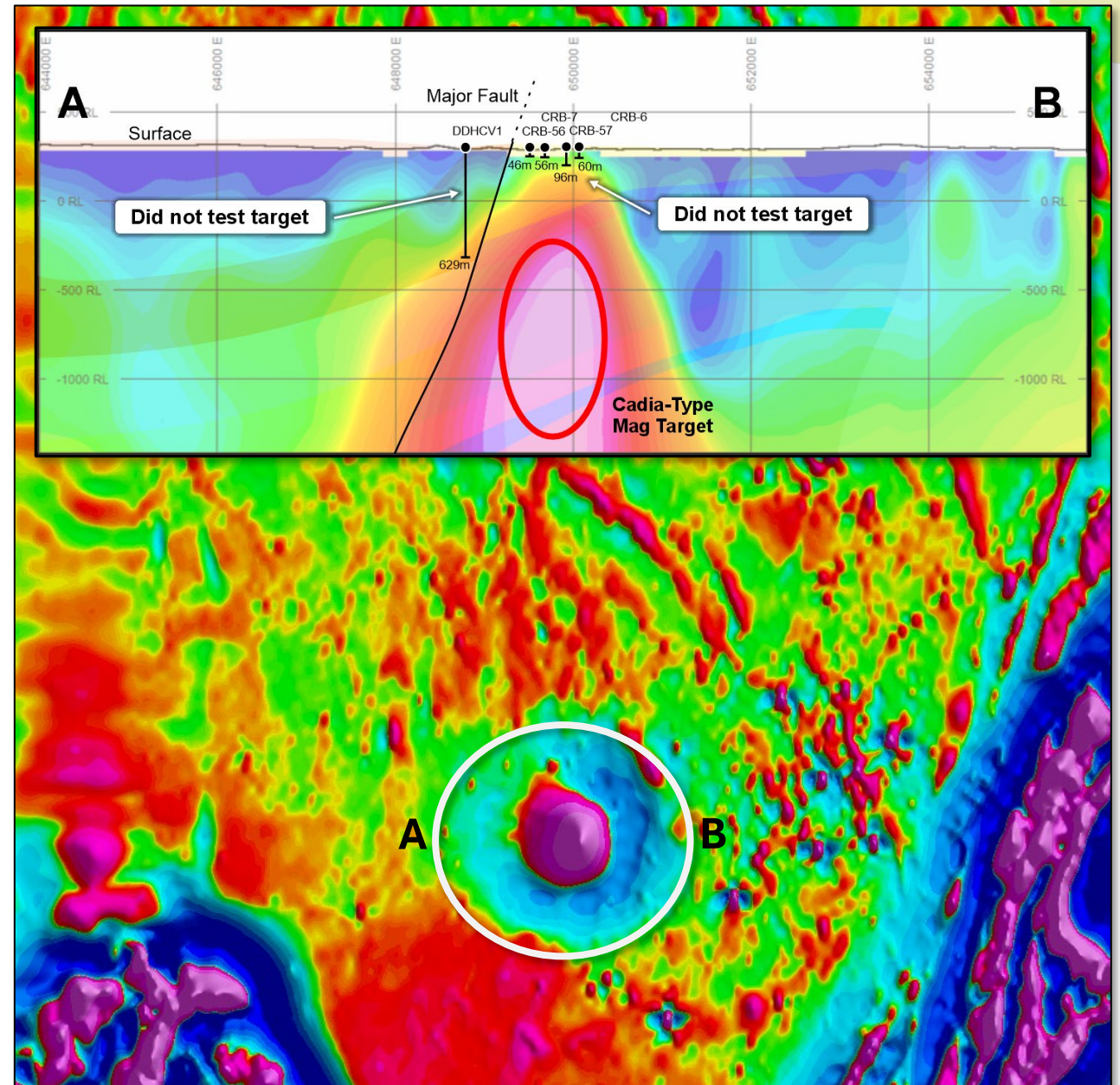
- Modern technology has shown the target is much shallower than previously thought (~500m), and well within economic mining depths.

Significant stake retained by LGM

- LGM may contribute or dilute from 30% ownership
- Option to have a 20% interest loan carried to production

Partnership with a quality exploration company

- S2 Resources led by Dr Mark Bennet with by Mark Creasy as major shareholder



Black Range

Targeting a major epithermal discovery



Black Range

100% ownership of a large underexplored epithermal system

District scale control – 905km² license

- **Newcrest** were the last to complete significant exploration over **30 years ago**¹
- Newcrest relinquished the ground in 1992 (Cadia discovery)¹

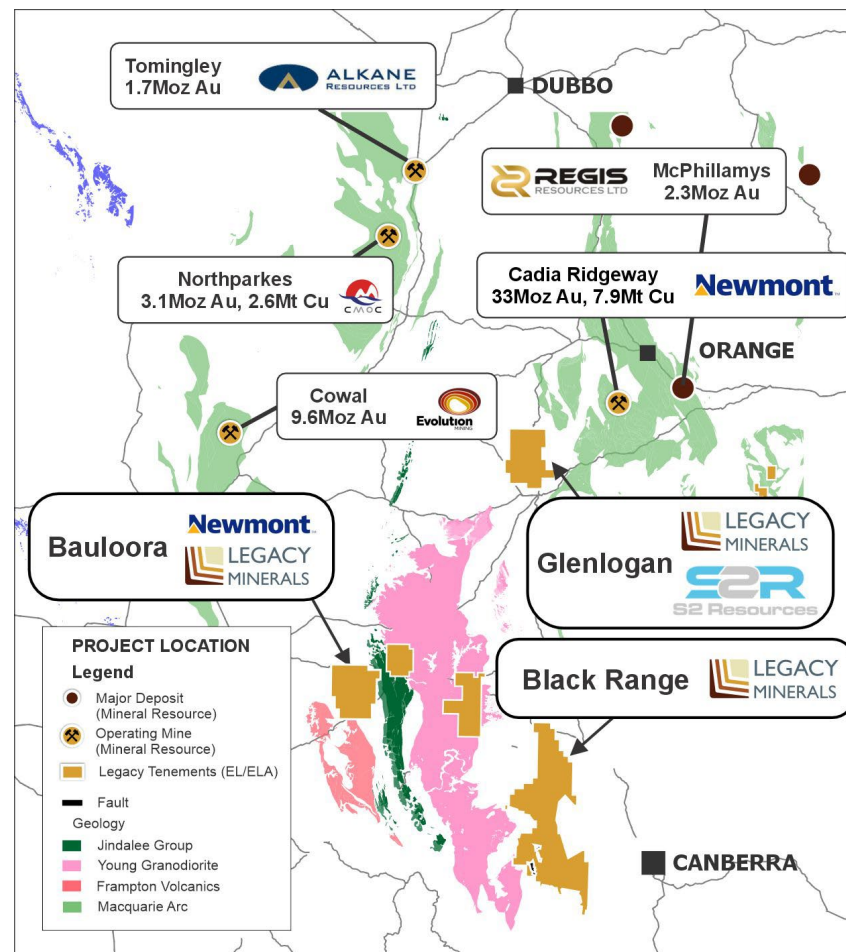
Why is it a compelling project?

- Preservation and **widespread Au anomalism (Sugarbag Hill)**
- 65km from Bauloora with clear parallels between the two systems
- Newcrest dated Black Range to be the same age mineralisation as Bauloora¹

Upcoming news flow

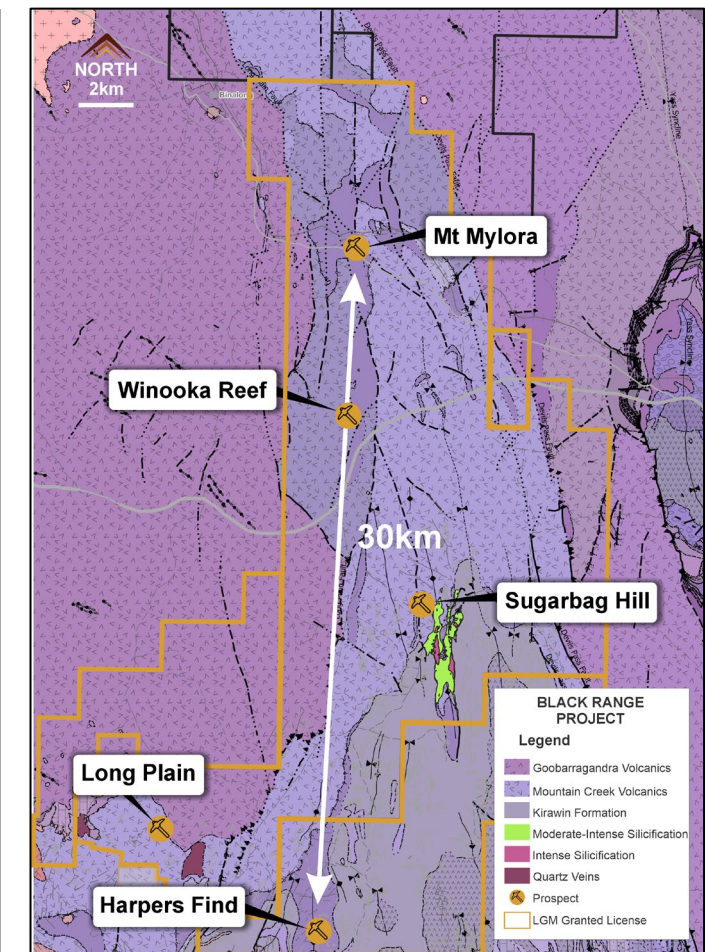
- Diamond drill preparations underway
- Systemic work with project amenable to low cost, high impact exploration

Black Range Project



Regional Setting of the Black Range project

Main Prospects



Black Range EL with solid geology showing major prospect

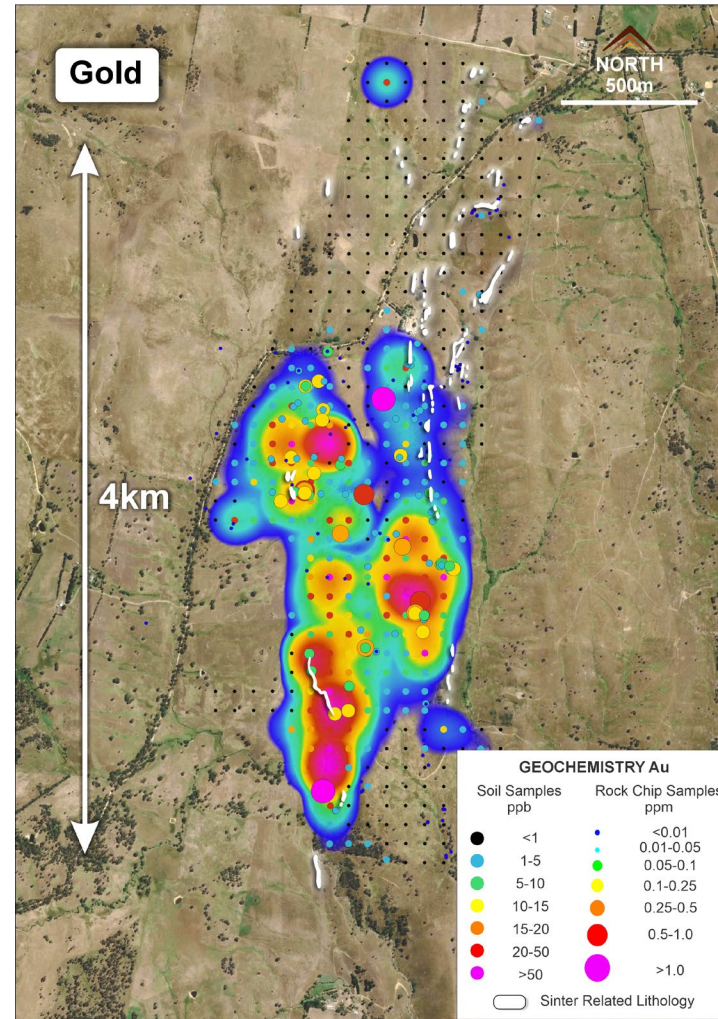
Significant Gold Soil Anomaly

Undrilled coincident pathfinder element targets

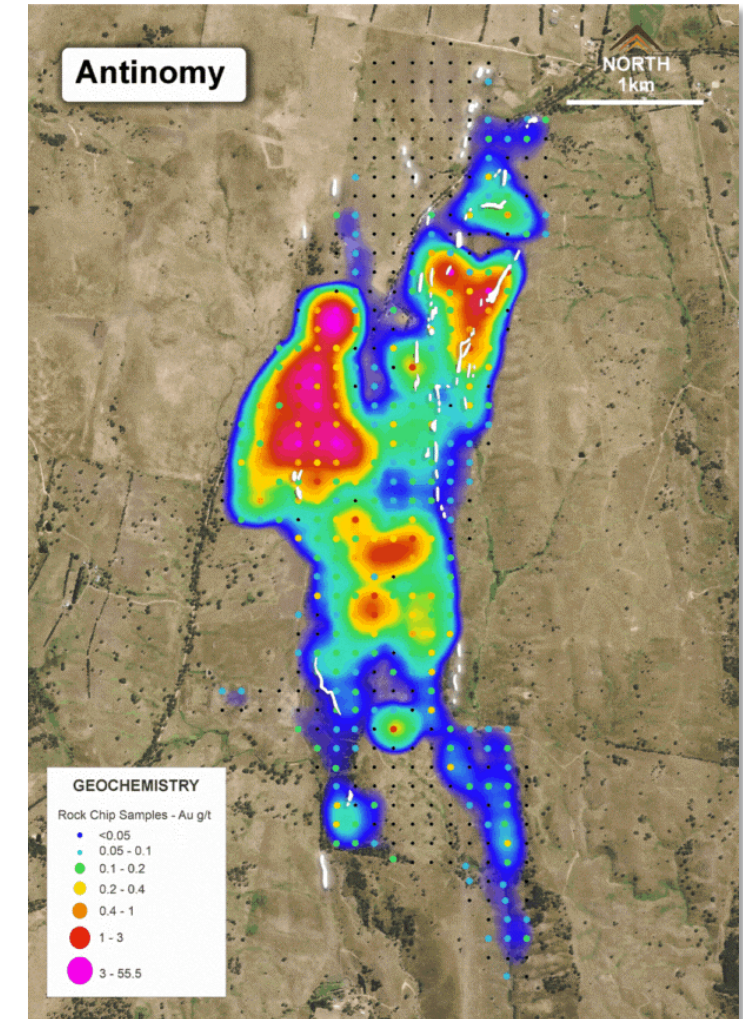
- The latest soil sampling results at Sugarbag Hill have mapped¹:
 - A **3.5km x 1.2km zone** of elevated low-sulphidation epithermal Au-Ag pathfinder elements
 - 2.2km long gold trend >20ppb Au (up to 296ppb Au).**
- First pass rock chip sampling has returned **up to 2.27g/t gold and 29.6g/t silver**¹.



Sinter sample Black Range (no significant assays)²



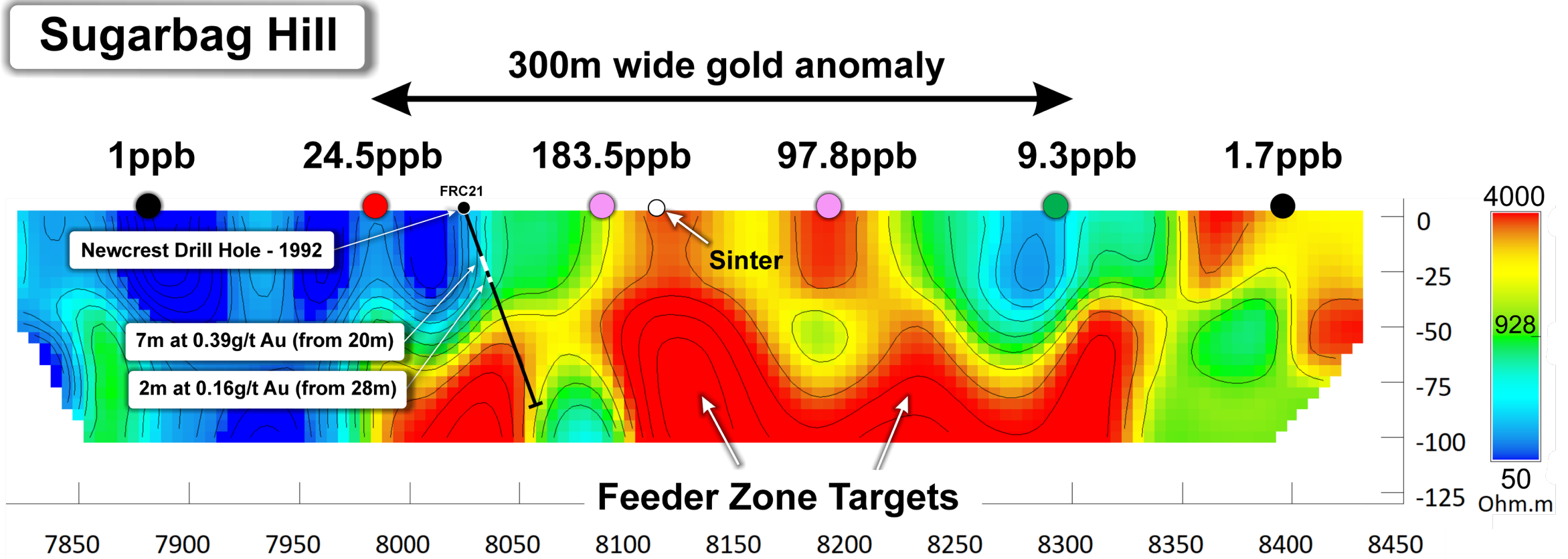
Sugar Bag Hill Gold in Soils¹



Sugar Bag Hill Soil Sampling¹

Undrilled IP Targets Beneath Sinter¹

Newcrest drilling did not test feeder zone targets (1992)



Sugarbag Hill IP and Gold in Soils¹



Bauloora

Large scale programs underway and fully funded



Bauloora

Targeting a Tier-1 Epithermal Deposit

Drill Assays Awaited

- Ongoing discovery exposure

Newmont Joint Venture (\$15M)¹

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

District scale control – 330km² license

- Alteration across 150km² zone²
- 27km² low sulphidation vein field

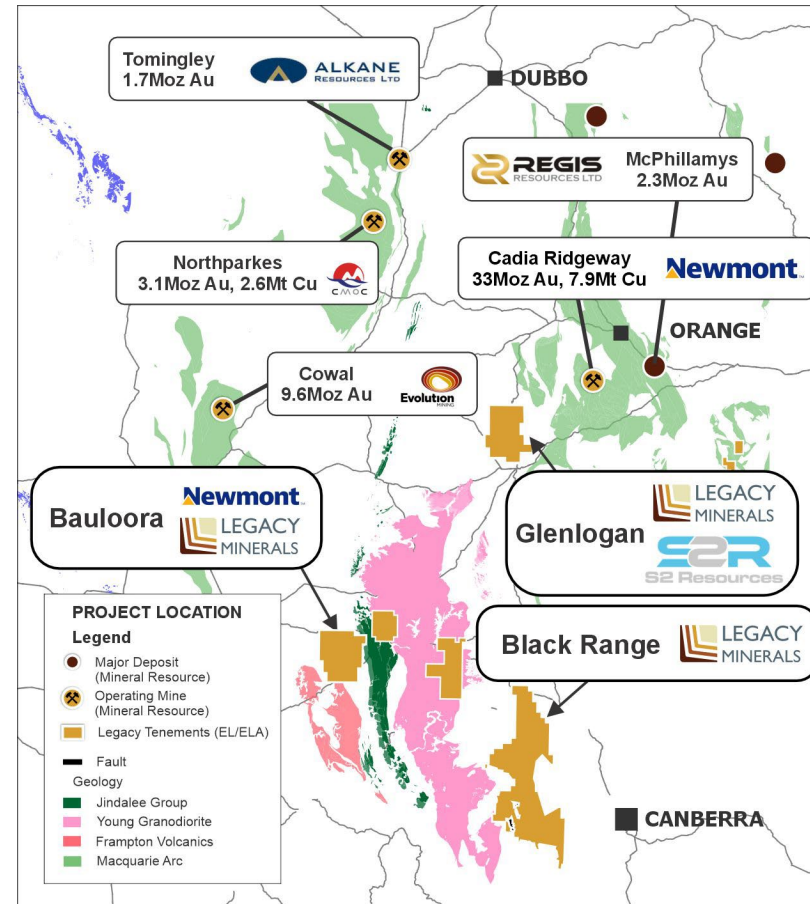
Untested potential

- Previously unrecognised opportunity

High-Grades and Extensive Veining

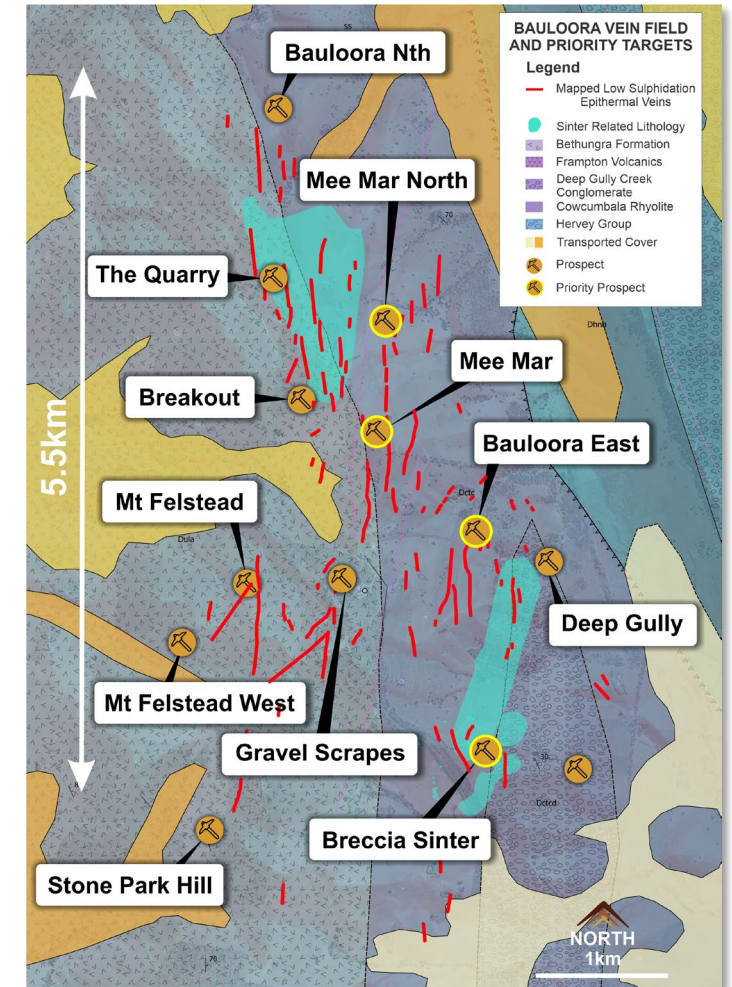
- High-grade gold, silver and base metals
- Veins up to 3m wide at surface for >2km

Bauloora Project



Map of central NSW showing Legacy Minerals tenements and geographical location of major mining and exploration projects in NSW (figures are expressed as mineral resources)²

27km² Primary Vein Field



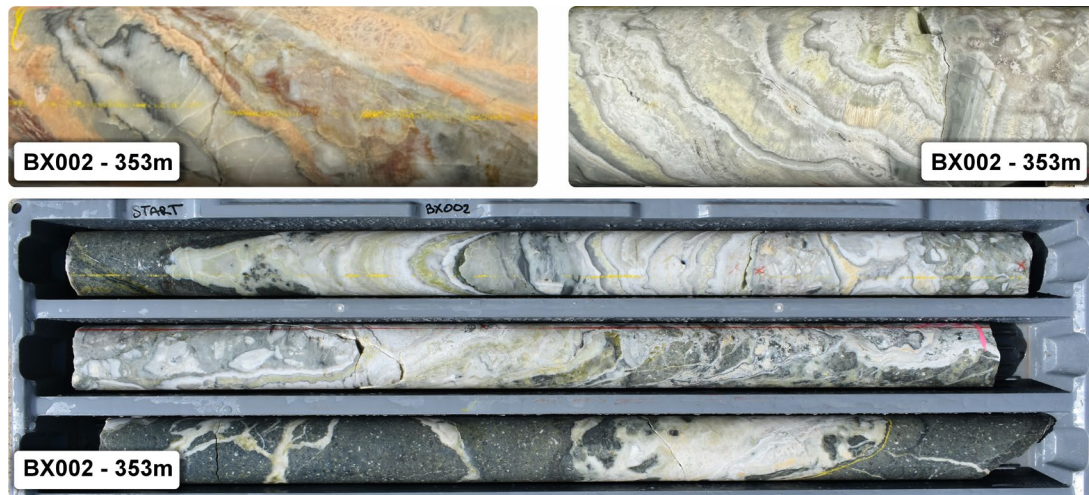
Current combined extent of low-sulphidation epithermal-style textured veins and sinter related lithology³



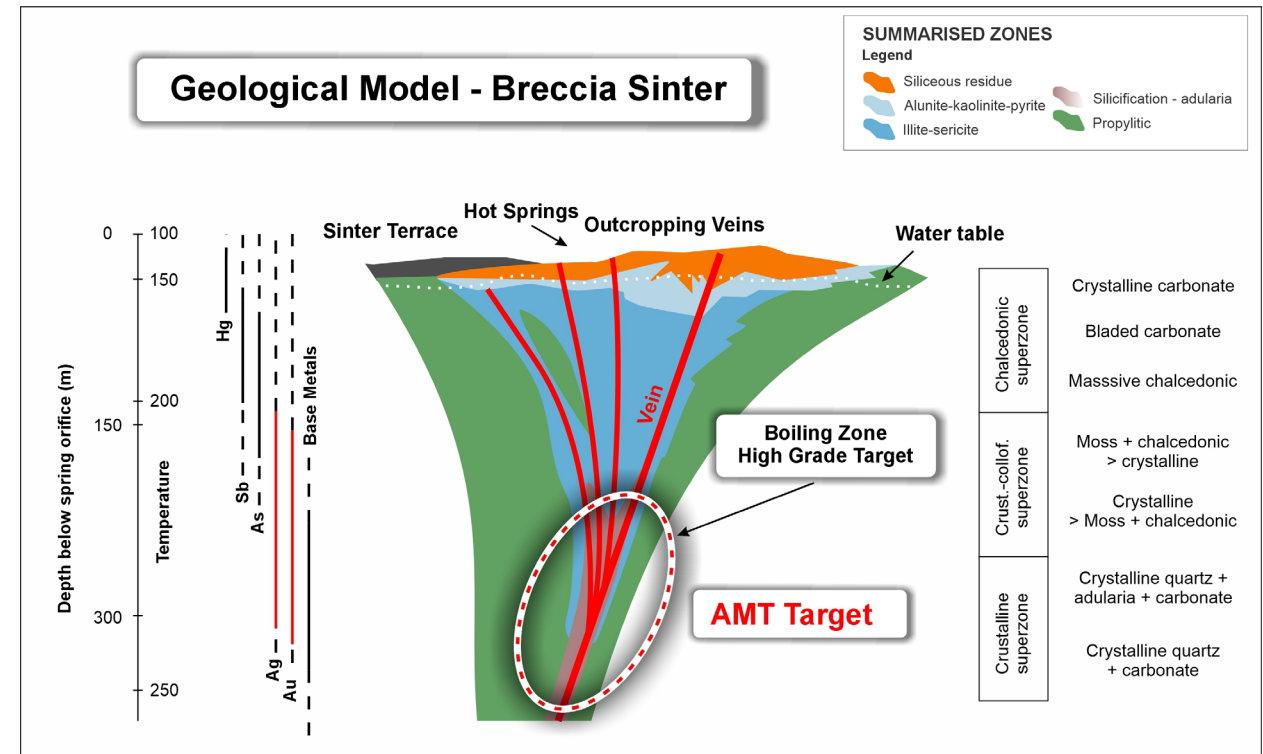
Breccia Sinter intercepting Boiling Zone (assays pending)

Initial Drilling Observations¹

- “Boiling zone” textures intercepted in first pass drilling
- **Provides confirmation of exploration model and system potential**



BX002 diamond drill core showing colloform-crustiform and cockade textures in banded chalcedony (white-grey)-quartz (white)-adularia (cream-orange)+/- hematite (brown-red) veins and localised breccia with rare fine pyrite-marcasite bands (dark-very dark grey-black). See Page 12 for further logging details.



Cautionary Note – Visual Estimates of Mineralisation: ‘Visual estimates of mineral abundance should never be considered a proxy or substitute for laboratory analyses where concentrations or grades are the factor of principal economic interest. Visual estimates also potentially provide no information regarding impurities or deleterious physical properties relevant to valuations.’



Foundational data set for 2024 Campaigns

Large scale, fully funded generative works¹

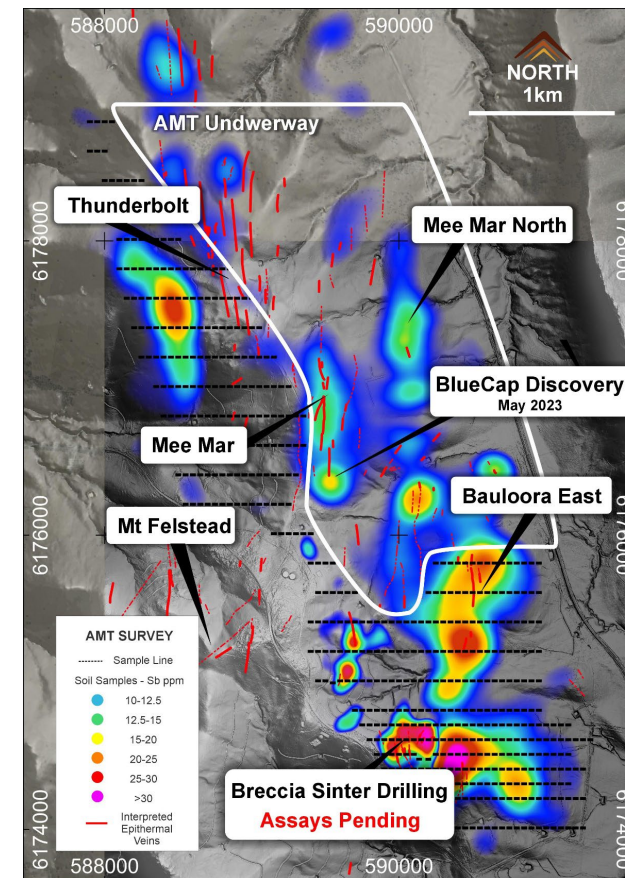
- Audio Frequency Magnetotelluric Survey (AMT)
- Ground Gravity Survey
- Geochemical Surveys
- Geological Mapping
- Airborne Aeromagnetic and Radiometric survey
- BLEG stream sediment sampling
- Additional Epithermal Pathfinder Element analysis underway



Ground crews conducting AMT survey, Jan 2024



Ground crews conducting gravity survey, Jan 2024



AMT survey area across vein field and Sb Soils²



Aims to deliver multiple Tier-1 drill ready targets



Secured funding with multiple share price catalysts



Drake

Extensive Underexplored Cu-Au mineral system



Drake Au-Cu-Ag

An untold copper opportunity

- Extensive copper oxide potential across several kilometers
- Drilling on adjoining mining licenses includes:
 - **18.65m at 5.8% Cu from 52m** and
 - **10.1m at 7.26% Cu from 88m¹**.

What's Legacy Minerals Strategy?

- A holistic district scale approach
- Utilise modern technology

'Legacy' project with new exploration vision and approach

- Historical focus on mining has left behind great targets

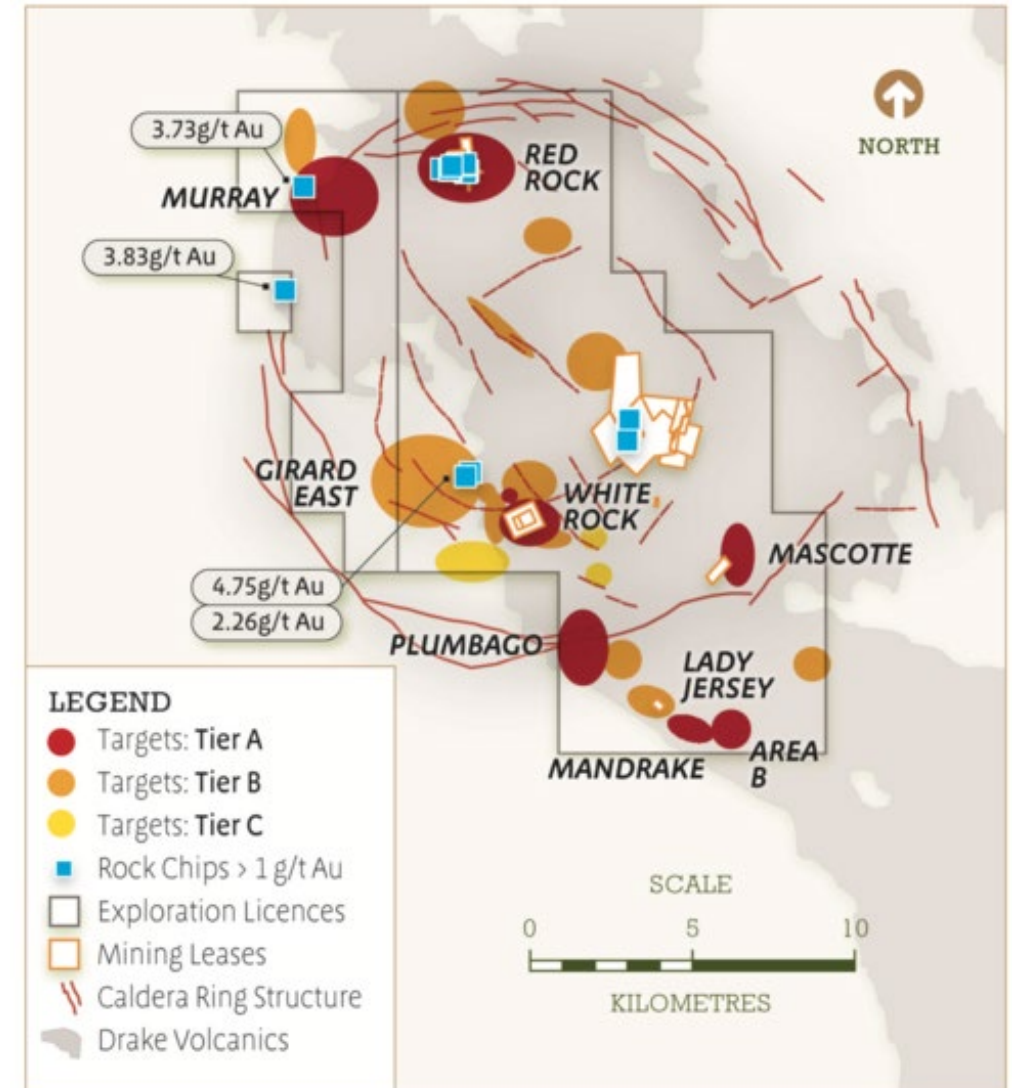
Transaction

\$200k unencumbered sale from White Rock Resources (WRM)²

- **Estimated \$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 mines²
- District scale tenement position

Significant project scale compared to global systems

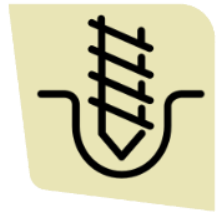
- Prospective for epithermal and porphyry deposits
- Similar features to world class deposits such as Porgera, PNG³



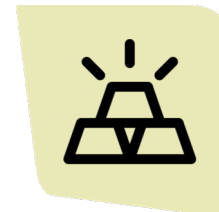
Drake Regional Exploration Targets (2015 WRM ELs)⁴

Note: references on this slide are in the Appendix – Endnotes on Slides 22 and 23





Ongoing drilling across multiple projects



Long term focus on gold and copper assets



Secured funding with multiple price catalysts



Partners delivering value

Christopher Byrne *CEO and Managing Director*
chris.byrne@legacyminerals.com.au +61 (0) 499 527 547

Appendices – Endnotes

Slide 3, Slide 11, Slide 15 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 4: Future of Minerals in NSW Report, March 2020. State of NSW, Dept of Planning, Industry and Environment

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 9 November 2023 Major Untested Porphyry Cu-Au Target Defined at New Project,

Slide 11: 1: ASX LGM 27 April 2023 Exploration underway at new low-sulphidation epithermal, NSW

Slide 12: 1 ASX LGM: 23 October 2023 Large 2.2km Long Gold Anomaly defined at Black Range, 2 ASX LGM: 11 October 2023 Widespread Silica Sinter Confirmed at Black Range

Slide 13: 1: ASX LGM: 1 NOV 2023 High Conviction Drill Targets Defined at Black Range

Slide 15: 1 ASX LGM: 5 April 2023 Newmont Farm-in at Bauloora Project, 3 ASX: LGM 5 December 2022: Bauloora soil results define multiple gold drill targets

Slide 16: 1 ASX LGM: 21 November 2023 Drilling Intersects Multiple Epithermal Veins at Bauloora

Slide 17: 1 ASX LGM: 1 February 2024 Significant Exploration Programs Underway at Bauloora

Slide 19: 1 ASX WRM: 24 October 2022 High Grade Copper Target Identified at Mt Carrington, 2 ASX LGM: 20 July 2023 Acquisition of District Scale Copper-Gold Epithermal Project, 3 World Gold, Pacific Rim Epithermal https://corbettgeology.com/wp-content/uploads/2016/07/corbett_pacific_rim_epithermal_au.pdf, 4 ASX WRM: 28 July 2015 Investor Presentation,

