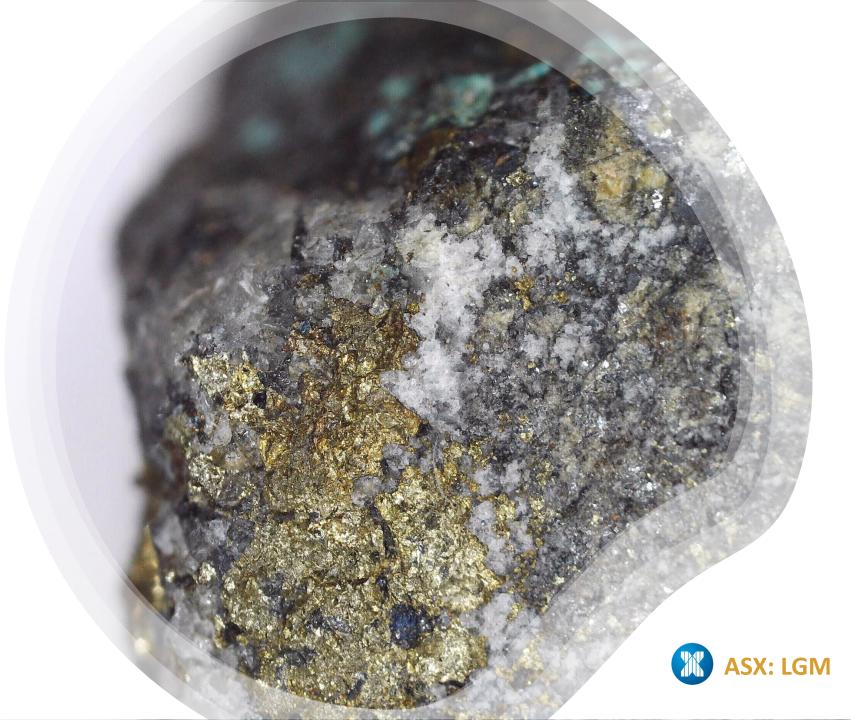


Gold and Copper Exploration targeting World-class Assets

Lachlan Fold Belt, NSW



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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.



## Depth of Projects in a World Class Jurisdiction

**Newmont** 

EARTH AL





Rockley Cu-Au Porphyry

Cobar Au-Cu Cobar Type

Harden Au Orogenic

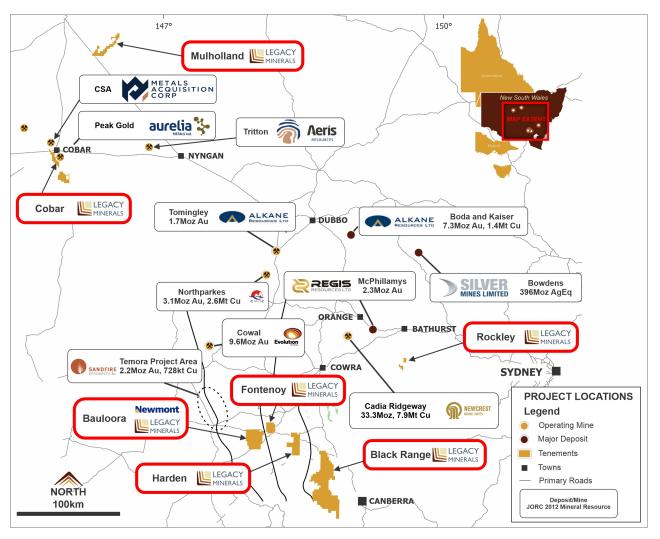
Bauloora Au-Ag Epithermal

Fontenoy Cu-Au Porphyry

Mulholland Ni-Sn-REE Skarn

Skarn [ ] | ]

2,450km<sup>2</sup> of exploration tenements



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).



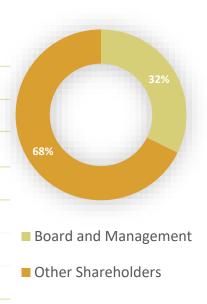
## **Company overview**



#### Capital Structure<sup>1</sup>

#### \$0.15 **ASX Share Price** Shares on Issues 83M Options on Issue (30c, 22.5c) 4.9M, 0.4M **Market Capitalisation** \$13M Joint Venture/Alliance Funding \$19.5M Cash (at Mar-31) \$1.4M Debt Nil Top 20 56%

#### **Issued Capital**



96

**Dr David Carland**Non-Executive
Chairman



**Douglas Menzies** Non-Executive Director



Matthew Wall Non-Executive Director

#### **Directors**

Investment banker with over 40 experience. Has held senior positions at UBS, Bankers Trust, CRA (now Rio Tinto). David was recently the Non-Executive Chair of Rex Minerals (RXM).

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 the VP of Inflection Resources.

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 the Chairman of Allegiance Coal (AHQ)

#### Management

An 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

Exploration 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.





Christopher Byrne
CEO & Managing
Director

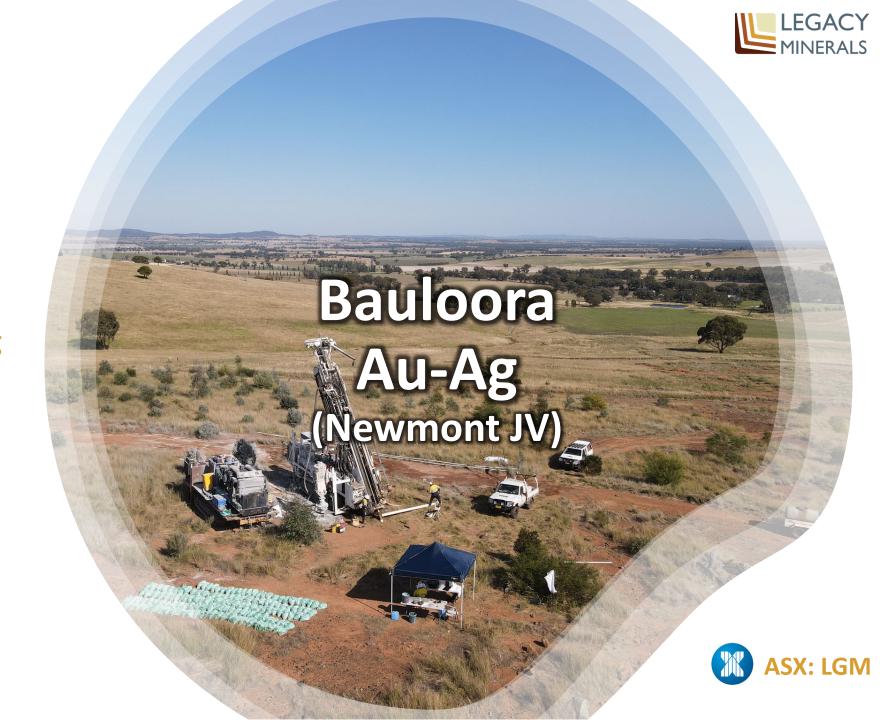


Thomas Wall
Exploration Manager
& Executive Director

1 As of 9 May 2023

4

Emerging large scale Au/Ag low sulphidation vein field



## Bauloora - Value creation through discovery



#### **Newmont Joint Venture**

- Discovery focused joint venture
- \$15m for 75% over 8 years
- LGM carried through to production (Newmont finance option) with 20%

#### District scale control – 330km<sup>2</sup> license

- Alteration across 150km<sup>2</sup> zone
- 27km² low sulphidation vein field

#### **Untested potential**

- Previously unrecognised opportunity
- 1 drill hole every 75ha, average depth 88m

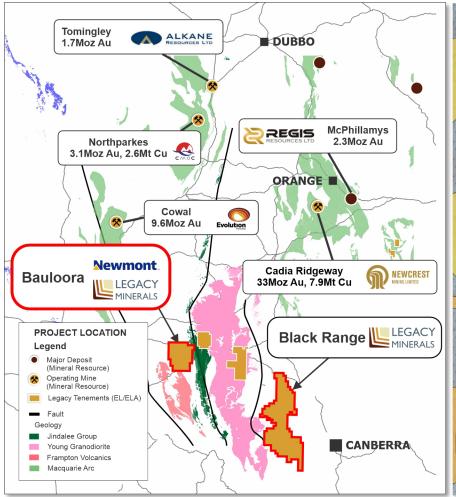
#### **High-Grades and Extensive Veining**

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

#### **Preserved Epithermal System**

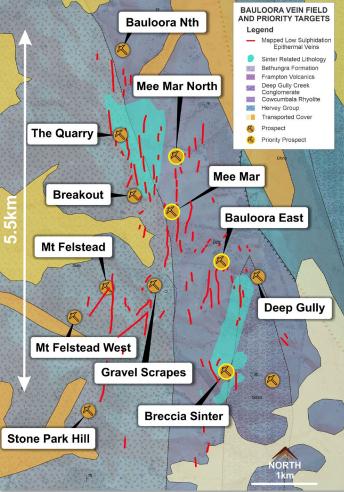
- Widespread recognition of sinter
- Strongly elevated in Hg, Sb, and As

#### **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).

#### **Primary Vein Field**



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



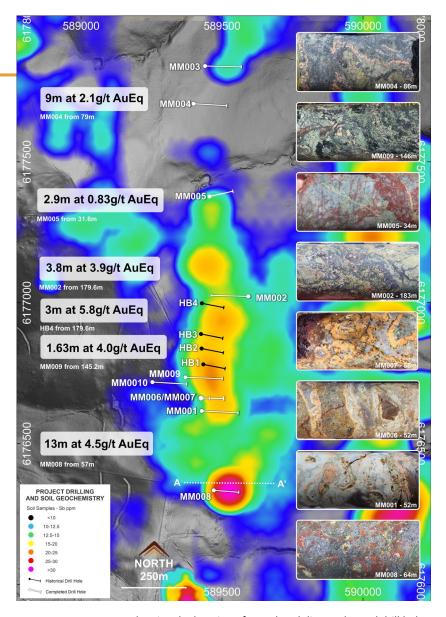
## Maiden Diamond Drilling – Mee Mar

### Assays confirm high grades and new discovery shoot

- Wide spaced proof of concept drilling tested 1.5km of strike
- Bluecap new epithermal shoot discovery (MM008) parallel to Mee Mar vein trend
  - 13m at 4.53g/t AuEq incl. 6m at 8.00g/t AuEq from 57m
- Impressive <u>shallow</u> continuity of mineralisation across entire strike length tested
- Preserved boiling zones high-grade mineralisation is likely to extend to depth



Hole MM008 and MM001 showing low sulphidation epithermal textured veins and breccia



Mee Mar Prospect showing the location of completed diamond-cored drill holes, over Sb soil sample results and Au rock chip results<sup>2</sup>



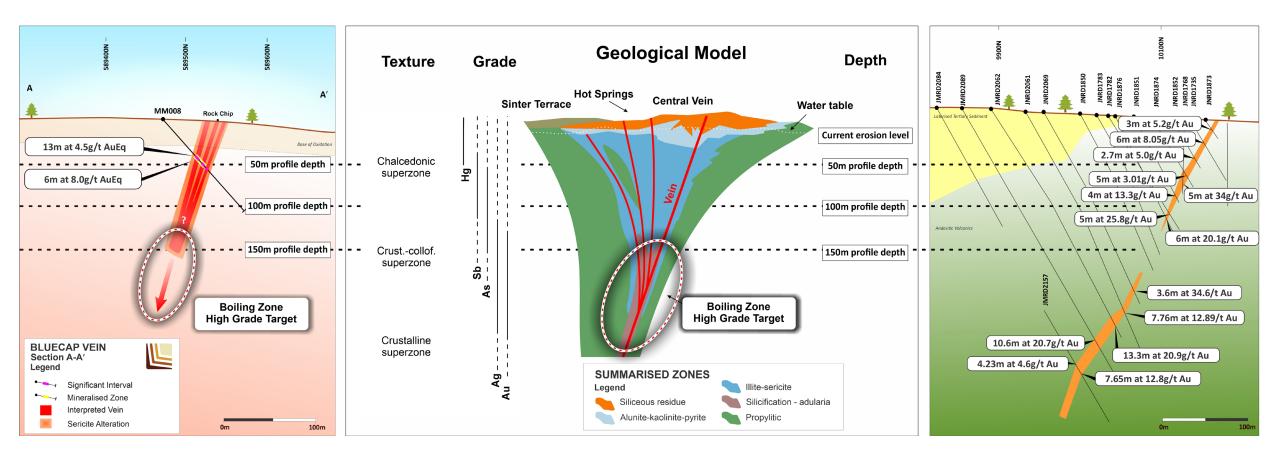
## **Epithermal Systems – Develop with Depth**



**Bluecap Shoot** 

**Epithermal System Model** 

Vera

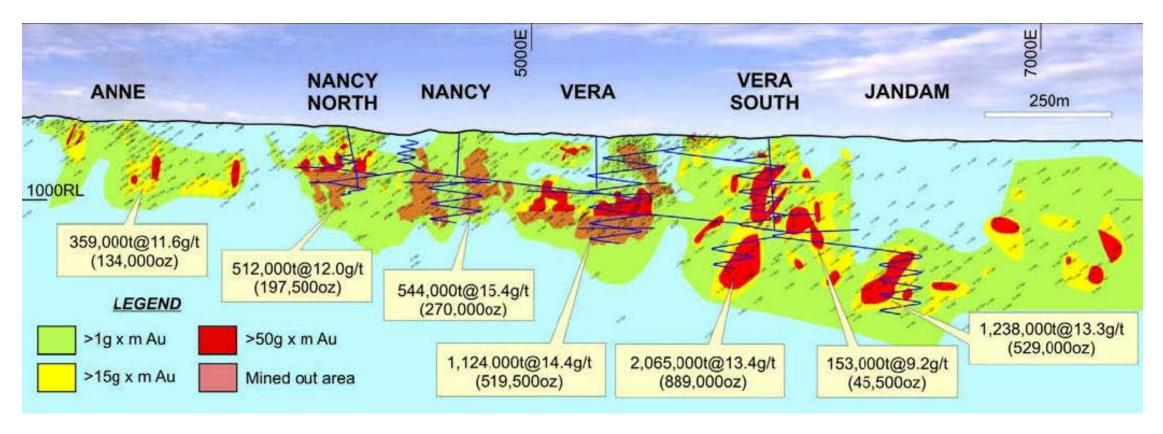


Vera: 1,124,000t at 14.4g/t (519,500oz) with mineralisation in thin (generally 0.5–3 m wide) quartz veins up to 16m wide. Strike length of >500m<sup>1,2</sup>



## **Vera-Nancy Structure**





Long Section of the Vera-Nancy structure. Mined and remaining resources as at November 2002<sup>1</sup>.



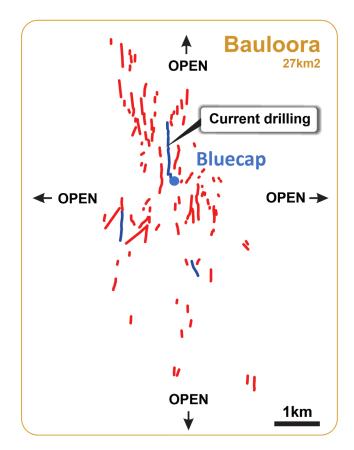
## **Globally Significant Project Scale**



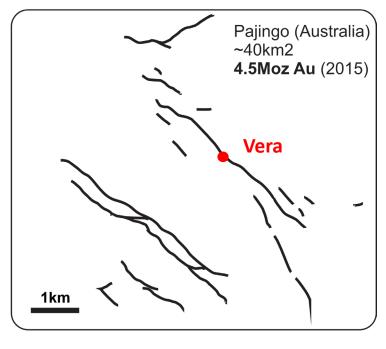
- The Bauloora vein field is of similar scale to typical multi-million oz vein fields found globally<sup>1</sup>
- The Company is actively stepping out and mapping the system which is <u>open in all directions</u>

• Technical comparisons due to similarities of textures, vein field size, and geochemistry made to major projects including Pajingo, Cracow

and Cerro Negro



#### **Vein Fields**





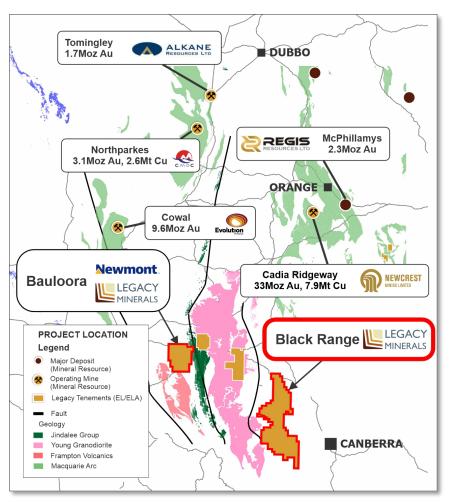
District control of another underexplored low sulphidation epithermal



## Black Range – Another large, underexplored epithermal system...



#### **Regional Setting**



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

#### District scale control – 905km<sup>2</sup> license

- Large 4.5 x 1.5km silica-sericitesulphide alteration zone
   (Sugarbag Hill Prospect)
- 30km of strike between known epithermal occurrences

#### **Untested potential**

- 30 years since last drilling at Sugarbag Hill prospect - Newcrest Mining Limited 1992
- Extremely limited drilling across the tenement package

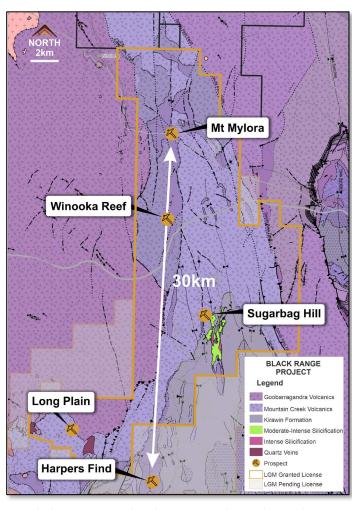
#### Same age mineralisation as Bauloora

Newcrest dating of Sugarbag Hill in 1992

#### Work program underway

 Systematic work program to commence including geochemistry and geophysics

#### **Black Range Project**



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



## Why does the opportunity still exist?



#### No drilling = no discovery

#### **Bauloora and Black Range**

- Bauloora
  - across the 27km<sup>2</sup> vein field zone 1 drill hole per 72 ha<sup>1</sup>
- Black Range
  - Virtually no exploration across the majority of 905km<sup>2(1)</sup>
- Systematic work not done

#### No modern geochemistry or geophysics

- Limited historic electrical geophysical surveys
- Geochemistry mostly limited to minimal elements
  - Lack of pathfinder elements analysed

#### **Limited mapping and textural analysis**

• Textures are key to unlocking the system.

#### Held by major companies distracted by other successes

#### Bauloora **Black Range** Piece-meal exploration with Cadia Hill Discovered, 1992 misidentification of key epithermal Newcrest cease exploration textures North Limited (Rio Tinto) No on ground exploration at 1995 Cowal Discovered - focus shifted Sugarbag Hill since (over 30 years) Newmont and LGM LGM peg tenement and 2023

**Joint Venture** 



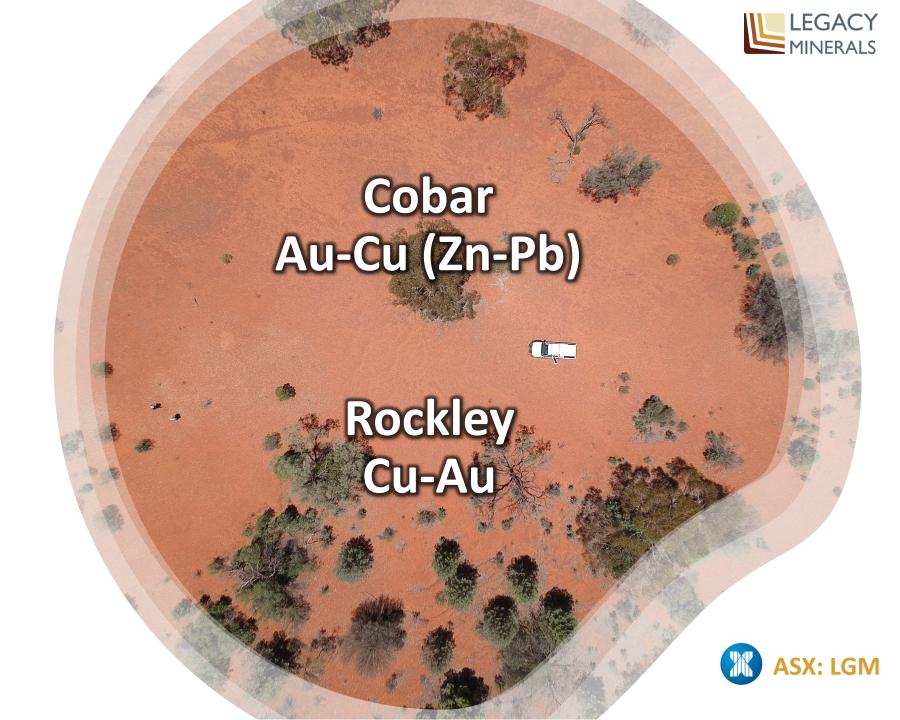
consolidate with ELA



#### Why are we excited?

- Geology and terrain is amenable to low cost high value exploration methods
- Bauloora was a breakthrough the recognition of sinter related lithology makes it one of the world's oldest preserved epithermal systems
- Black Range, dated to have similar age mineralisation as Bauloora, and has a large low temperature silicified upper zone or 'cap' that may represent the top of a preserved epithermal system.

Depth of quality Au-Cu projects in the world class Lachlan Fold Belt

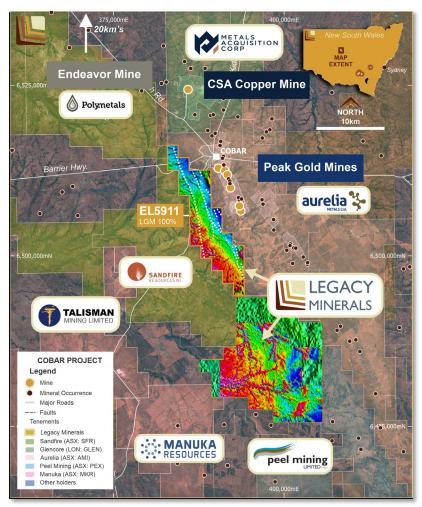


## Cobar: Au-Cu (Zn-Pb)

## Rockley: Au - Cu

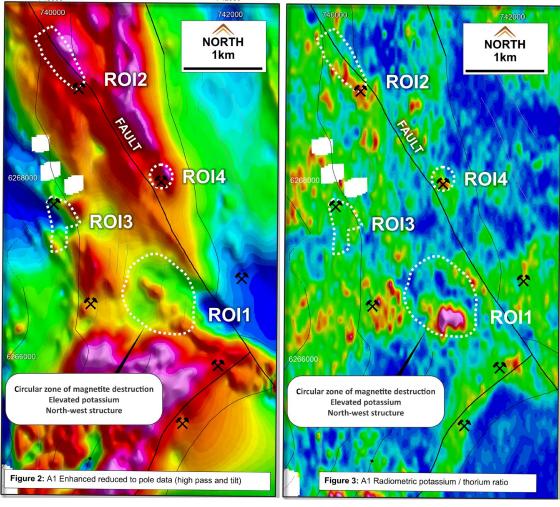


#### In the heart of the Cobar Basin with an undrilled search space



Cobar tenement boundary (EL5911) overlain with regional magnetics RTP and surrounding company licences

#### Widespread copper anomalism and untested porphyry targets





Rockley tenement (EL8926) showing RTP magnetics and K/Th radiometric images overlain with historical workings and identified regions of interest (ROI).<sup>4</sup>

Discovery exposure with leading artificial intelligence exploration company



# Realising value through strategic partners



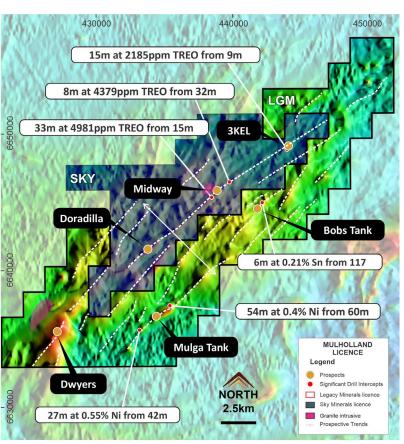
#### Fontenoy – Cu, Au, PGE

8km of copper and gold mineralisation with limited drill testing

#### WRC-21 24m @ 0.17g/t Au, 0.24% Cu 79m @ 0.27% Cu from 1.5m from surface (incl. 19.8m @ 0.21g/t Au, 0.33% Cu) incl. 5m @ 0.40g/t Au, 0.47% Cu) 4m @ 0.30g/t Au , 0.43% Cu Fontenoy North 22m @ 0.67g/t Au 0.34% Cu from 20m 26m @ 0.44g/t Au. 0.11% Cu Nubba FONTENOY PROJECT PROJECT GEOLOGY Wallendbeen Legend Drill Collar Legacy Tenement Mineral Occurrence 14m @ 0.72g/t Au Nickel 0.37% Cu from 108m Manganese Geology --- Interpreted faults --- Faults axis - Thrust Alluvium Brawlin Formation Jindalee Group Moonbilleen Gabbro Ungrouped Palaeozoic serpentinite Wambidgee Serpentinite NORTH Warranoy Diorite Yandilla Volcanics Young Granodiorite

#### Mulholland - Ni, Sn, REE

Known skarns and untested anomalies with several significant drill ready nickel and tin prospects



#### **Earth Al**

Strategic Alliance putting LGM at the exploration forefront<sup>1</sup>

- Exposure for LGM shareholders to the priority AI owned by Earth AI (EAI)
- EAI have locally based drilling operations
- EAI will spend pp to \$4.5M over 2 years
- Unlike a 'classic JV' purely success based
- LGM retain 100% ownership



Accelerated exposure to potential discoveries



## **Planned Exploration Program (Current Funding)**





Q2

Q2

Cobar

**AEM Modelling** 

**Black Range** Reconnaissance Field Work Q2 - Q4

Black Range Mapping and Geochem

Q3 - Q4

Black Range Cobar

**Drill Campaign** 

**Upcoming Announcements** 

	ASX Progress Results (Till June)	Anticipated Date
	Mee Mar Assays	Early May
	Black Range Exploration	Mid-End May
	Cobar AEM Modelling	Mid-End May
	Fontenoy Scout Geochem	May - June
	Bauloora Exploration Program	Mid May

2023 2024





Q2 Mee Mar **Drill Assays** 

Q2

Q2 - Q3

Geochem

Cobar

Bauloora Geophysics

Q2

Q2 - Q3

Q3

Rockley

Geochem

Bauloora Geochem Q3

Bauloora -Aerial mag/rad



Q3-Q4

Sinter Prospect **Drill Campaign** 

- Follow up drill campaigns
- Follow up generative work

Fontenoy Scout Geochem Q3

Fontenoy **AEM** 



Q3 Fontenoy **Drill Campaign** 

**Partnership funding** up to \$19.5M over 8 years

## **Why Legacy Minerals**



**Emerging discovery at Bauloora** with Newmont JV



Black Range - another district scale epithermal gold system



Tier 1 Jurisdiction
Tier 1 Partner
Tier 1 Targets



## **Appendices – Endnotes**



Slide 3, Slide 12: 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	Inferred
Project & Company			Resource	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: Ag Eq (g/t) = Ag (g/t) + 33.48\*Pb (%) + 49.61\*Zn (%) +80\*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 6: 1: ASX: LGM 19 October 2022 Exploration Ramp up at Bauloora Epithermal Gold Project; 2:LGM ASX 1 November 2022 Geophysics Expands Potential Size of Bauloora Gold System

Slide 7: 1: LGM ASX: 15 February 2023 Significant new discovery at the Bauloora Epithermal Project; 2: LGM ASX: 21NOV2022 New High-Grade Gold Assays Returned Across Bauloora

**Slide 8:** 1: Evans, R. C., and B. H. Jones. "The Discovery and evaluation of the Vera Nancy deposit, North Queensland." *Proceedings*. 1997. 2: Pietrass, Bianca (2005) *The geological and grade continuity of the Pajingo epithermal gold* Masters (Research) thesis, James Cook University

**Slide 9:** 1: Evans, R. C., and B. H. Jones. "The Discovery and evaluation of the Vera Nancy deposit, North Queensland." *Proceedings*. 1997. 2: Pietrass, Bianca (2005) *The geological and grade continuity of the Pajingo epithermal gold* Masters (Research) thesis, James Cook University

Slide 10: ASX: LGM 19 October 2022 Exploration Ramp up at Bauloora Epithermal Gold Project

Slide 13: 1: MinView, www.minview.geoscience.nsw.gov.au

Slide 17: 1: Company's Prospectus dated 28 July 2021 lodged 9 September 2021 (ASX: LGM)

Slide 15: 1: ASX: LGM 4 April 2022: Extensive Copper and Gold in Rock Chips and Rockley; 2: Company's Prospectus dated 28 July 2021 lodged 9 September 2021 (ASX: LGM), ASX: LGM 27 July 2022 Geophysics Defines Porphyry Copper-Gold Targets at Rockley; 5: Company's Prospectus dated 28 July 2021 lodged 9 September 2021 (ASX: LGM)

Slide 17: 1: ASX: LGM 3 May 2022: Strategic Exploration Alliance with AI Explorer

