



# Critical Minerals Exploration in Australia

Olympio Metals Limited (ASX:OLY)  
Investor Presentation  
May 2023

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# Critical Minerals & Gold Exploration in Australia

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Olympio Metals Limited (ASX:OLY) is an Australian exploration company focused on discovery and delivering shareholder value.

Olympio Metals is exploring for carbonatite hosted rare earths in South Australia, lithium near Kalgoorlie in Western Australia and gold in the eastern Kimberley region of Western Australia.

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# Australian Project Portfolio



## Eurelia Project

### South Australia

- 214km<sup>2</sup> in the Adelaide Geosyncline of South Australia
- Niobium and rare earth element (REE) carbonatite exploration



## Mulwarrie Project

### Western Australia

- 295km<sup>2</sup> in the Goldfields region of Western Australia
- Lithium exploration with gold potential
- **Liontown** (ASX:LTR) farming-in via staged exploration



## Halls Creek Project

### Western Australia

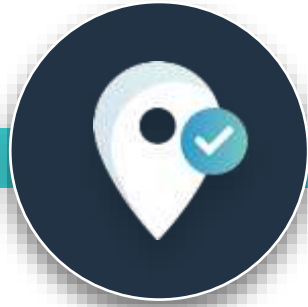
- 330km<sup>2</sup> in the highly prospective East Kimberley region of Western Australia
- Gold exploration

# Investment Highlights



## Experienced Board and technical team

- Project evaluation know-how
- Proven operational skills
- Held roles across a wide range of commodities
- Financing expertise



## Highly prospective critical mineral & gold projects

- Lithium
- Niobium
- Rare Earths
- Gold
- Others



## Multi-element potential

- In areas of previously defined mineralisation
- Defined carbonatite in projects
- Potentially mineralised with REEs, niobium and host of other metals



## Underexplored, ripe for discovery

- Past exploration activities did not focus on in-demand critical metals
- Now using modern exploration techniques



# Corporate Overview



OLY

ASX Code

\$3.2m

As at 31 March 2023

Cash on Hand

54.4M

Shares

\$9.3M

Share price \$0.17  
(as at 5 May 2023)

Market Cap

14M

\$0.25-\$3.20 strike

Share Options

\$6.1M

Enterprise Value

\$0.23

52-week high

\$0.10

52-week low

85,982

Average Volume



Share price performance | \$0.17 at 5 May 2023

# Experienced Leadership Team



**Simon Andrew**  
**Non-Executive Chairman**

Simon has over 20 years' experience in financial markets in Asia and Australia.

Previously held senior management positions at various global investment banks.

These roles included leading the equity sales desk for BNP Paribas and heading the Refining and Petrochemicals sector research team at Deutsche Bank in Asia as well as spending five years as a research analyst at Hartleys covering the oil and gas and industrial sectors.



**Sean Delaney**  
**Managing Director**

Sean is a mining industry veteran with more than 30 years of board and executive level experience with substantial operational and financial expertise.

He has held a variety of leadership positions in both operations and finance including Director and Chief Financial Officer in mining and exploration companies involved in gold, coal, copper and uranium projects.

Sean has a broad range of experience in mining operations, mergers and acquisitions, corporate finance, hedging, and information system management implementation.



**Aidan Platel**  
**Non-Executive Director**

Aidan is a geologist with 25 years' experience in the minerals industry, in both mining and exploration roles across a wide range of commodities. Mr. Platel is MD of Charger Metals NL and was previously MD of Auroch Minerals Ltd, prior to which he worked as an independent strategic consultant focusing on project evaluation.

Mr Platel also spent 12 years in South America in mining and exploration and has a proven track record of exploration success having discovered and developed several major deposits including the world-class Santa Rita Nickel deposit in Brazil (>1Mt contained Ni metal).

# Eurelia Project

South Australia



Located within the Adelaide Geosyncline in South Australia



## Eurelia Rare Earths - Niobium Project

- Unexplored for rare earths: 214km<sup>2</sup> tenement area, previously explored for diamonds and copper
- Attractive farm in agreement: Olympio earning a 90% interest by spending \$1M on exploration over three years
- Prospective for REE and niobium: Large project prospective for carbonatite-hosted rare earth element (REE) and Niobium mineralisation
- Prime geological location: Located near intersection of G2 and G8 structural corridors, a major control on mineralisation in South Australia
- Likely expansion of tenement area: Olympio has also pegged an 81km<sup>2</sup> exploration lease application directly south of Eurelia, named the Walloway Project

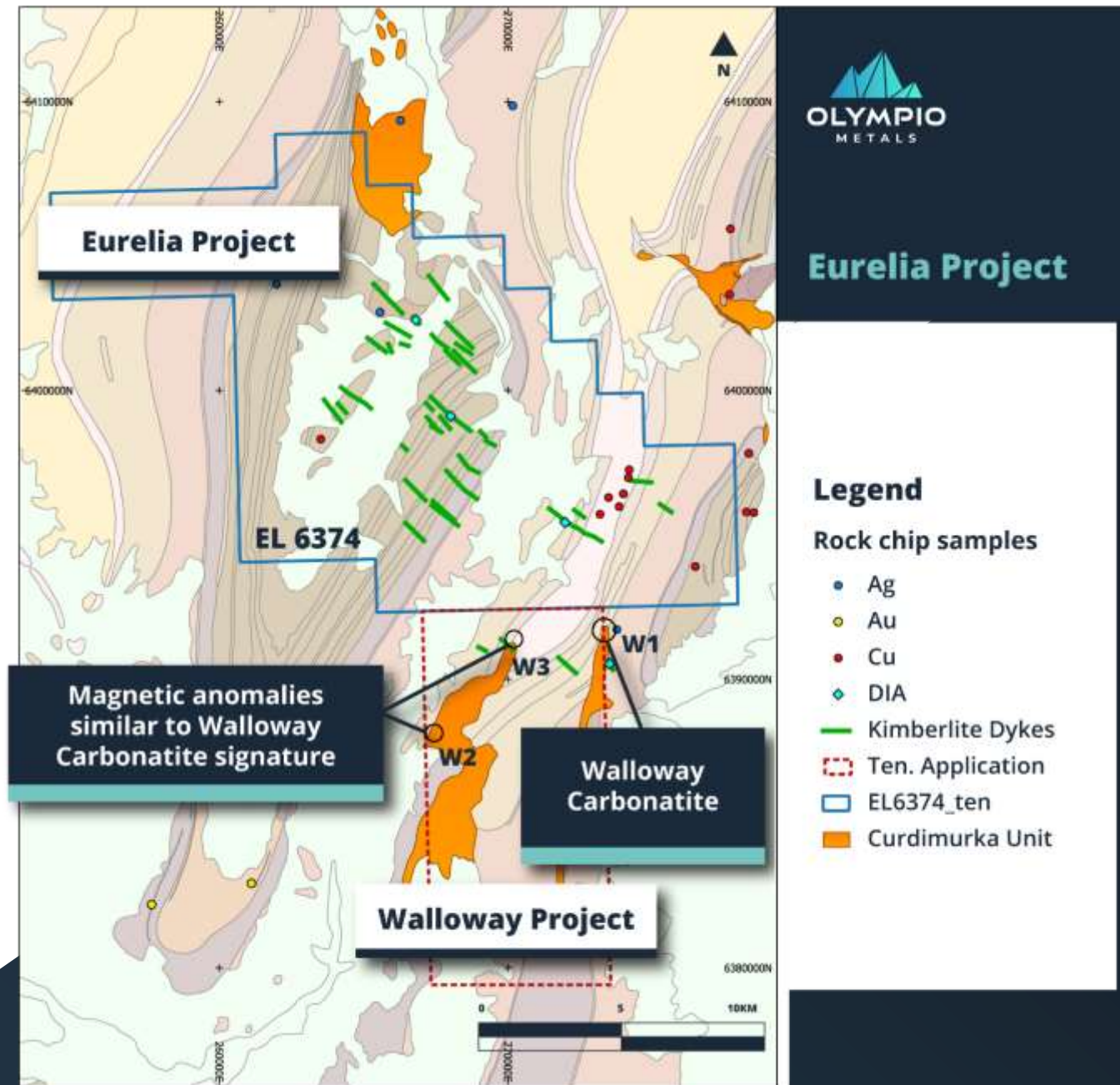


# Eurelia & Walloway Rare Earths

Eurelia and Walloway Projects are highly prospective for niobium and REEs

These commodities are essential for the global energy transition

- The Eurelia and Walloway Project are located within the Adelaide Geosyncline in South Australia and encompass a large area prospective for carbonatite-hosted REE mineralisation
- Aeromagnetic data highlights numerous magnetic signatures similar to the Walloway Carbonatite signature which have never been drill tested
- The Project area has been explored for diamonds over many years but very little work on the REE potential

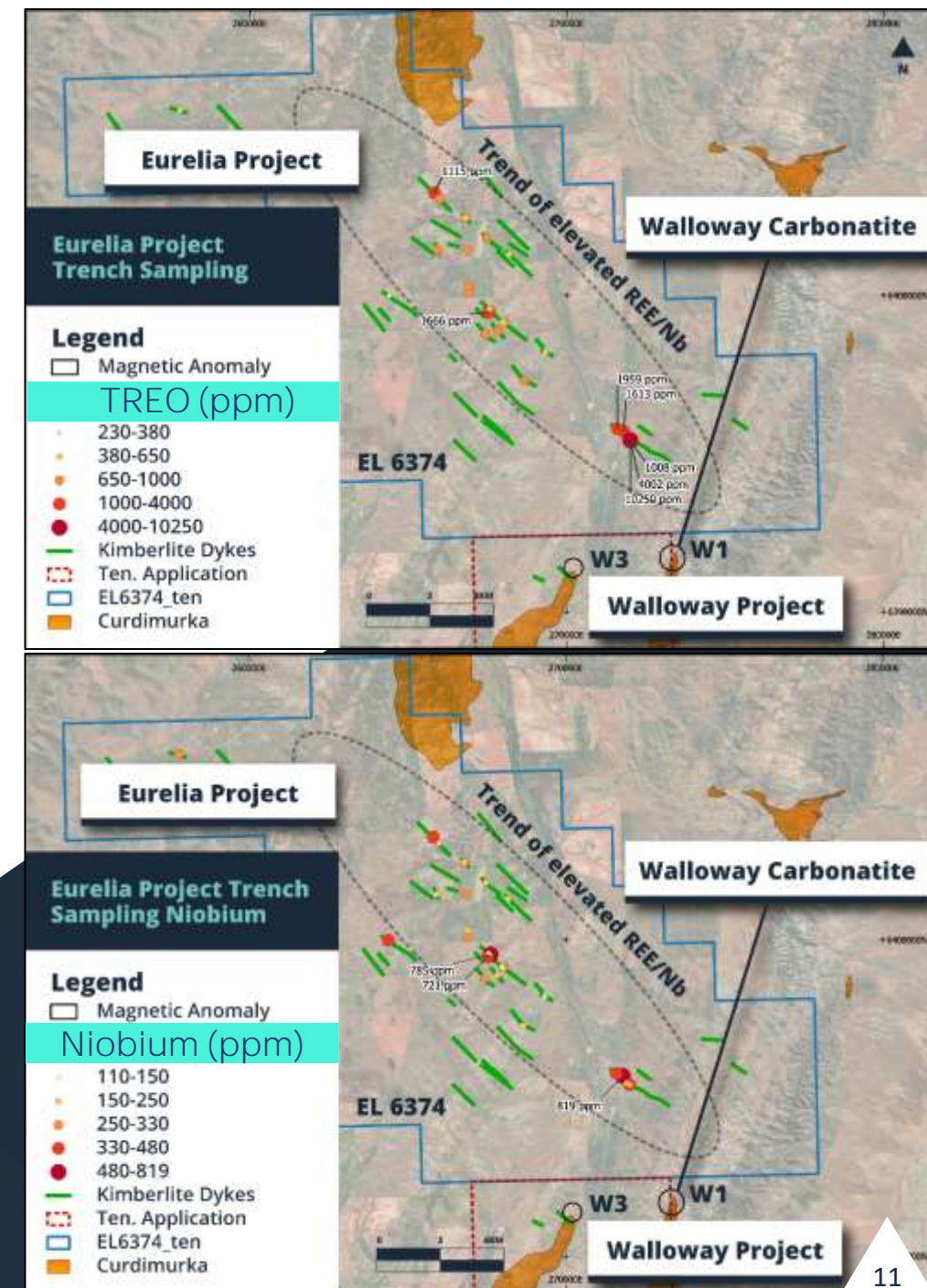




# Eurelia - Critical Minerals Exposure

Eurelia is highly prospective for niobium and REEs  
- trench assay results

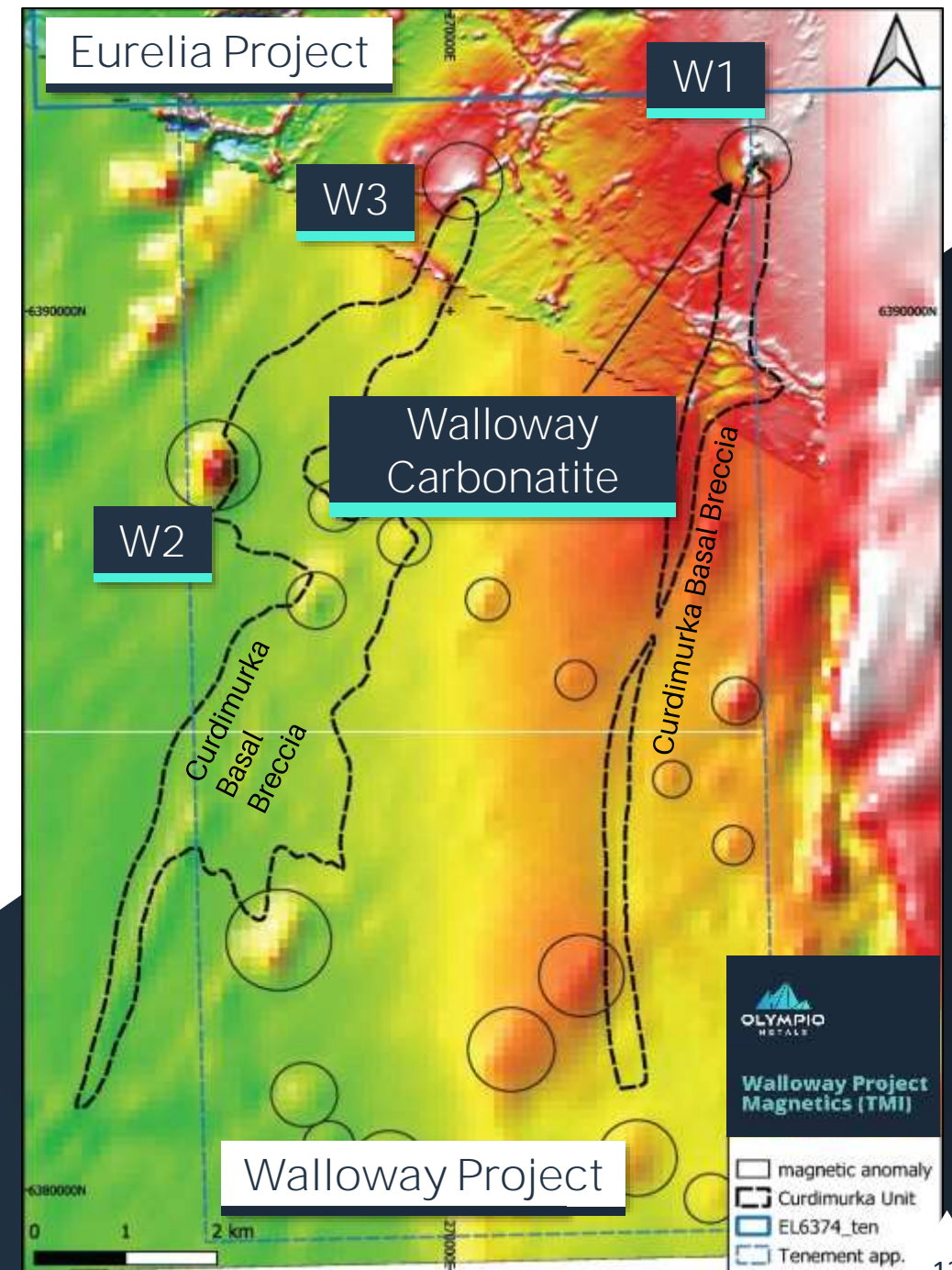
- New assaying of historical trenches has returned up to 1.02% TREO and 819ppm Nb
- Previous limited rock chip sampling has delineated a >10km trend of coincident elevated niobium and REEs, with up to 772ppm Nb and up to 4,754ppm TREO<sup>1</sup>
- The only drillhole located within this 10km trend that was assayed for REEs confirmed the potential for economic REE mineralisation in the trend, returning:
  - ORR-K7-AC01: 9m @ 1,647ppm TREO<sup>1</sup> from 7m



# Walloway

Olympio has pegged an exploration lease application directly to the south of Eurelia, named Walloway

- Walloway covers a portion of a defined carbonatite, which is also highly prospective for niobium and/or REE mineralisation
- Aeromagnetic data highlights two further significant magnetic signatures similar to the Walloway carbonatite signature which have never been drill tested
- The significant niobium and REE trend of the Eurelia Project extends south onto Walloway





# Carbonatite-hosted Mineralisation a Main Source of REE/Niobium Ores

Carbonatites are a type of igneous rock defined by their composition being rich in carbonate minerals

- Carbonatites may be mineralised with REEs, niobium, phosphorus, tantalum, uranium, thorium, copper, iron, titanium, vanadium, barium, fluorine and zirconium
- Carbonatite-hosted mineralisation is one of the main sources of economic REE and niobium ores globally, with Lynas Rare Earths' (ASX:LYC) large Mt Weld mine in Western Australia, WA1 Resources' (ASX:WA1) West Arunta Project in WA and MP Materials' large Mountain Pass mine in California all hosted in carbonatites
- The Walloway carbonatite similar to Mt Weld is hosted within a kimberlite field



Lynas Rare Earths' (ASX:LYC) Mt Weld Rare Earth Mine in Western Australia



# Mulwarrie Project

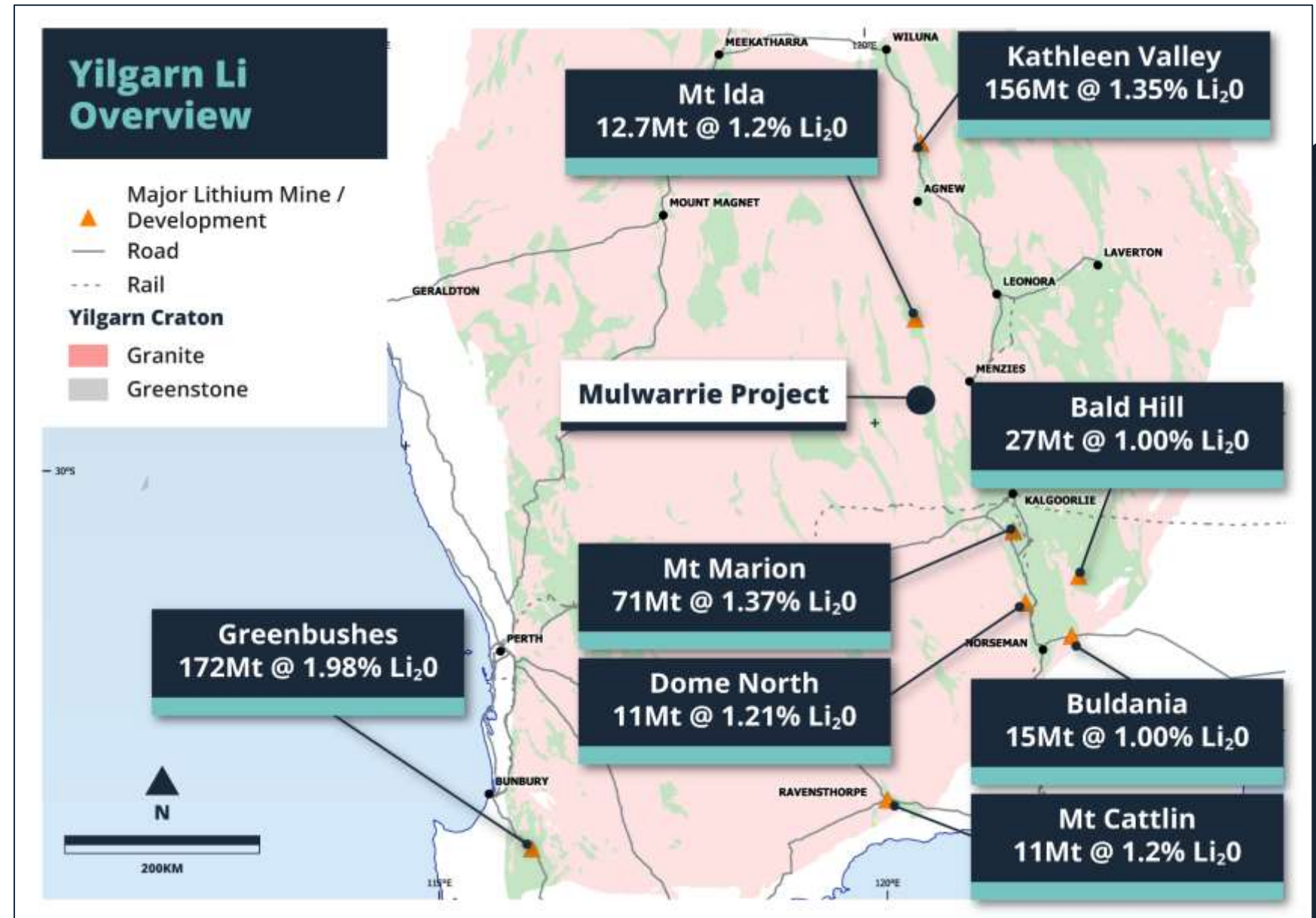
Western Australia



Close to key infrastructure - 120km North West of Kalgoorlie

# Mulwarrie Lithium

- Six prospect areas covering 295km<sup>2</sup>
- Similar regional geology to Red Dirt Limited's Mt Ida Lithium Project (12.7Mt @ 1.2% Li<sub>2</sub>O)
- Significant lithium potential with identified pegmatites throughout the project
- No systematic lithium exploration completed in the area



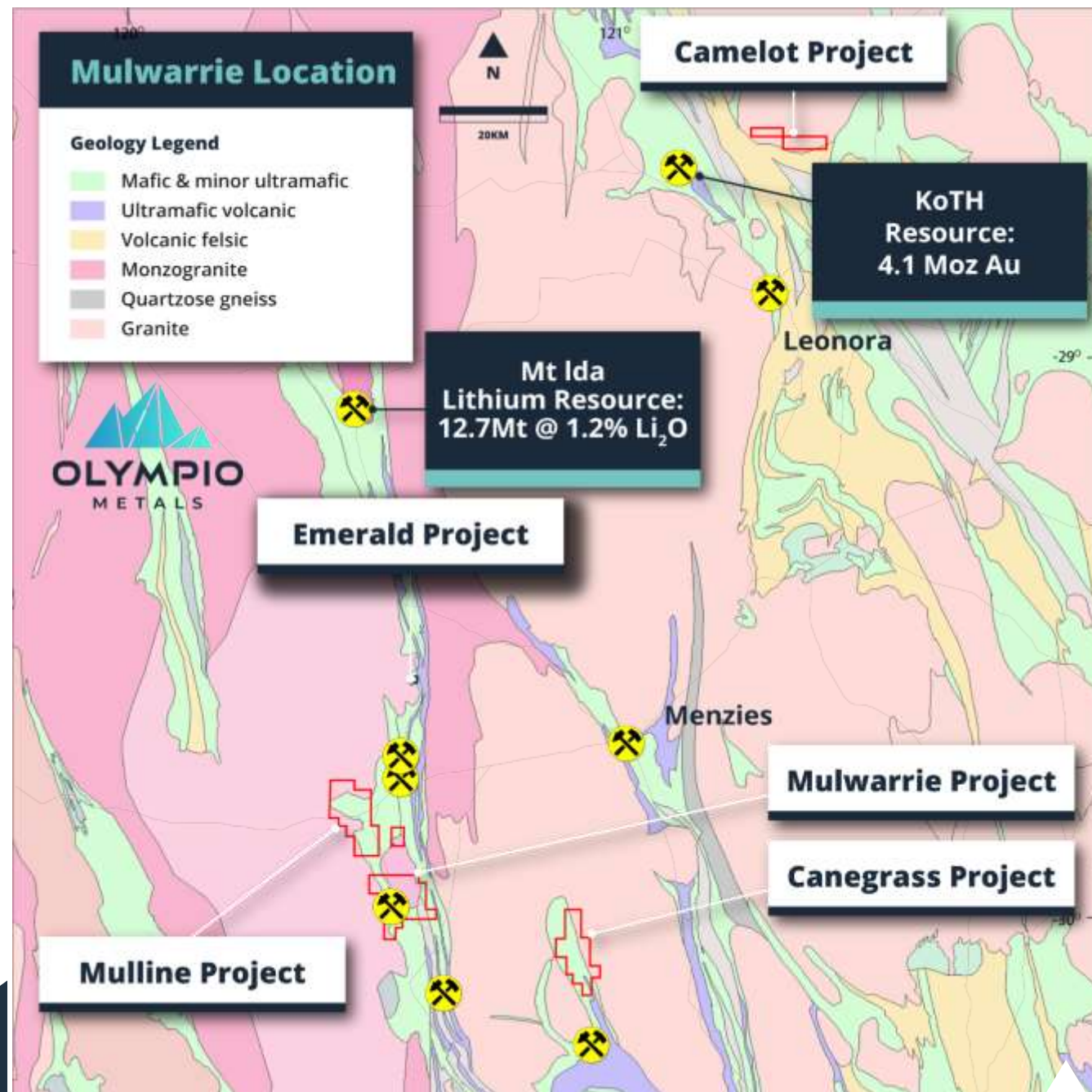


## Liontown Lithium Farm-in

Liontown Resources (ASX:LTR) is farming into the Mulline & Mulwarrie Prospects<sup>1</sup>.

- Liontown to complete 1,100 geochemical samples over greenstone areas to proceeding to Stage 1
- Liontown to spend \$400,000 on Stage 1 exploration to earn 51% within 1 year. Olympio can elect to form a JV holding 49% at the end of Stage 1, retaining exposure to any discovery
- If Olympio elects not to form a JV, Liontown can move to 90% by spending a further \$1,000,000 within 3 years
- Continues REE and gold exploration at Camelot prospect area

1. ASX Announcement 3 April 2023 – Olympio signed farm-in agreement with Liontown





# Halls Creek Project

Western Australia



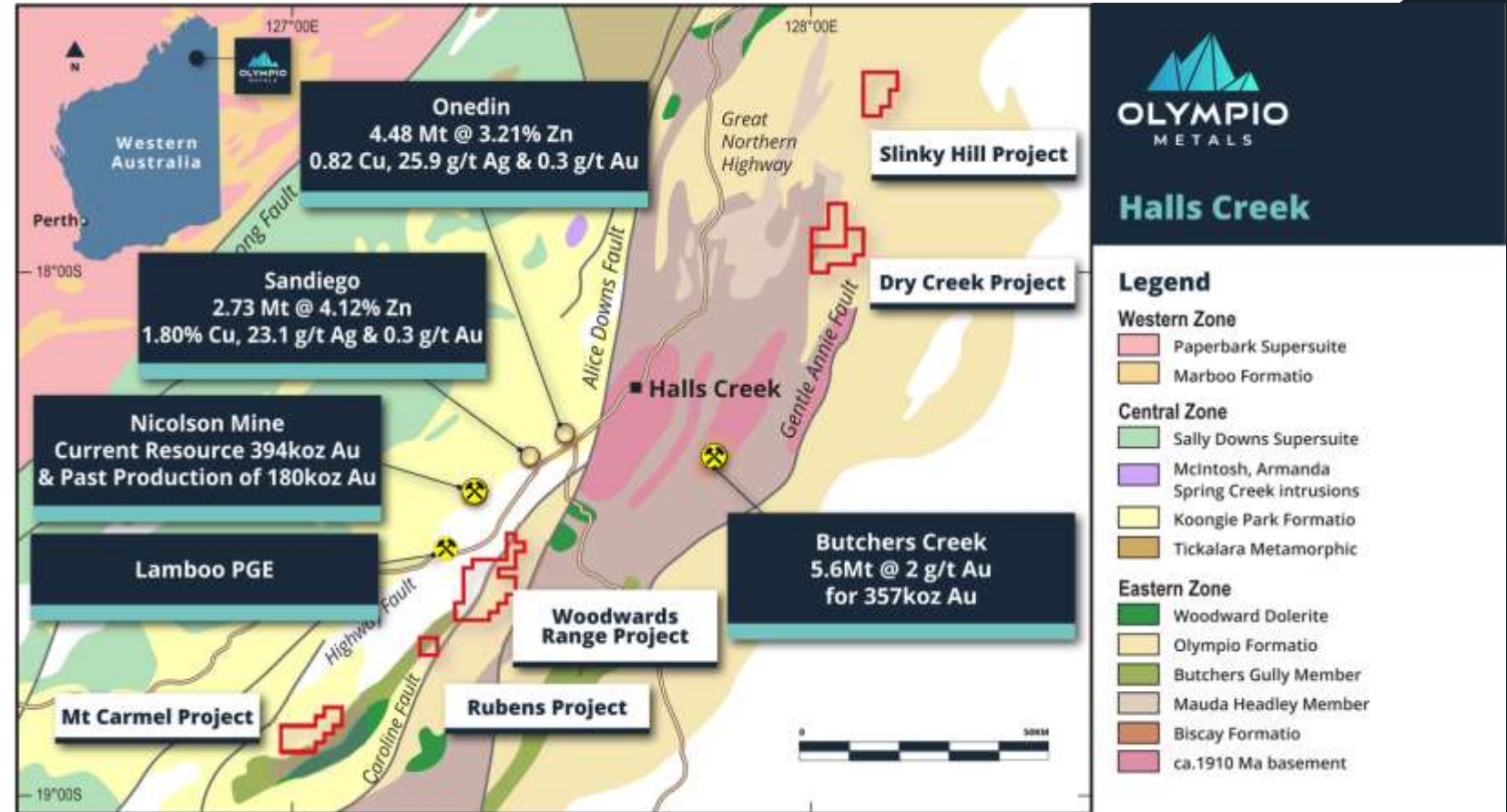
Highly prospective gold project; adjacent to recent PGE discovery



# Halls Creek Overview

Largely unexplored by modern techniques with minimal drill testing in an under-explored province.

- Limited shallow drilling completed on the project over its history with only 12 RC holes recorded
- 330km<sup>2</sup> tenement package pegged by vendors along historic gold workings
- Multiple targets generated from rock chip and soil sampling on six project locations along 100km of strike close to the town of Halls Creek
- Adjacent to Pantoro Ltd's recent Lamboo PGE discovery



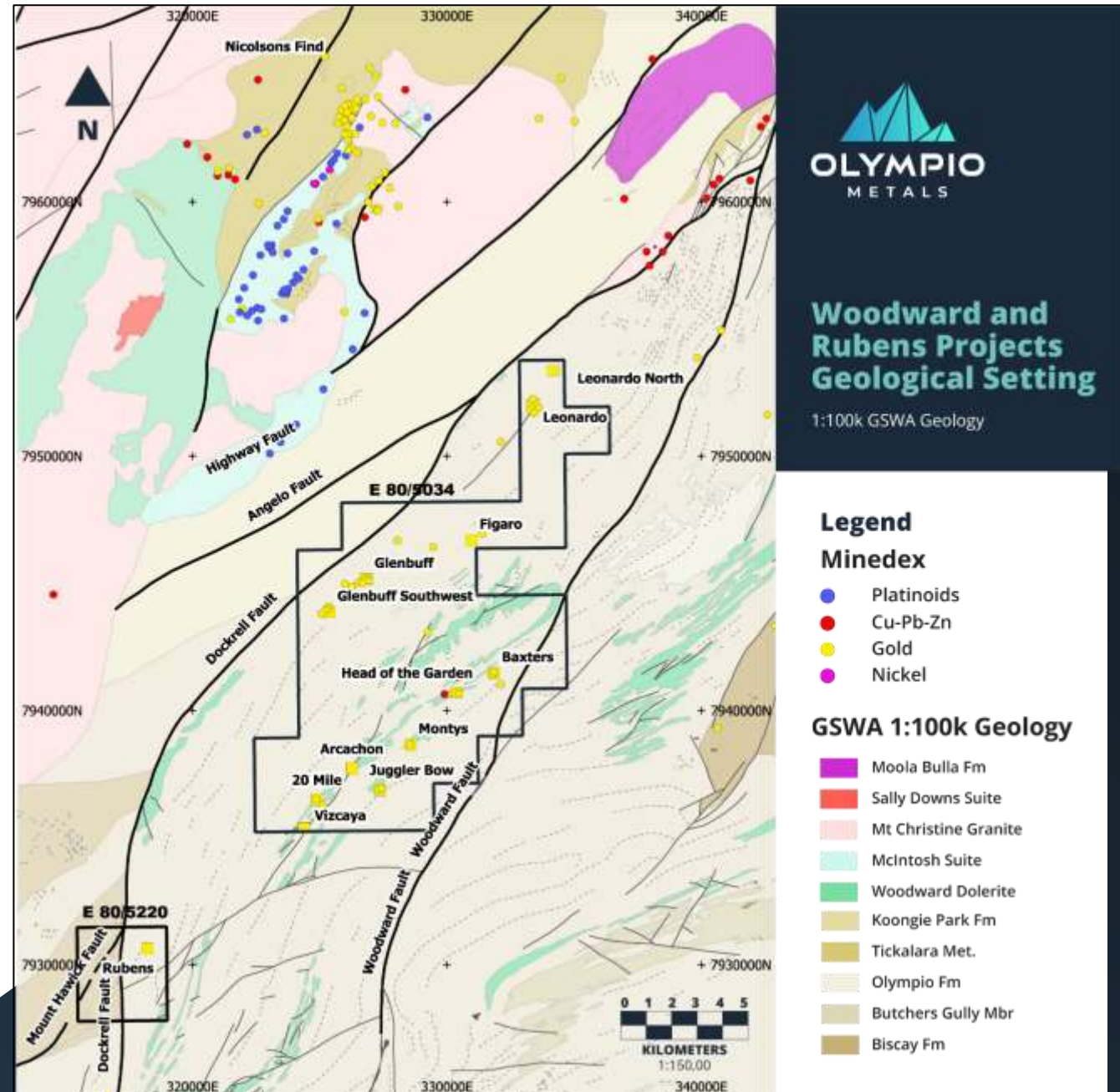


# Halls Creek

## Woodward Range & Rubens Prospects

High priority targets for further exploration

- At Woodward Range, existing drill intercepts include 8m @ 2.61g/t Au from 2m, 3m @ 5.7g/t Au from 0m
- These intercepts sit to the northeast of a 4km high grade soil anomaly in the Glenbuff target
- The Figaro target is a 3km strike length As anomaly >50ppm
- Rubens' drilling planned to follow up on previous results including 4m @ 2.35g/t Au and 4m @ 1.35g/t Au

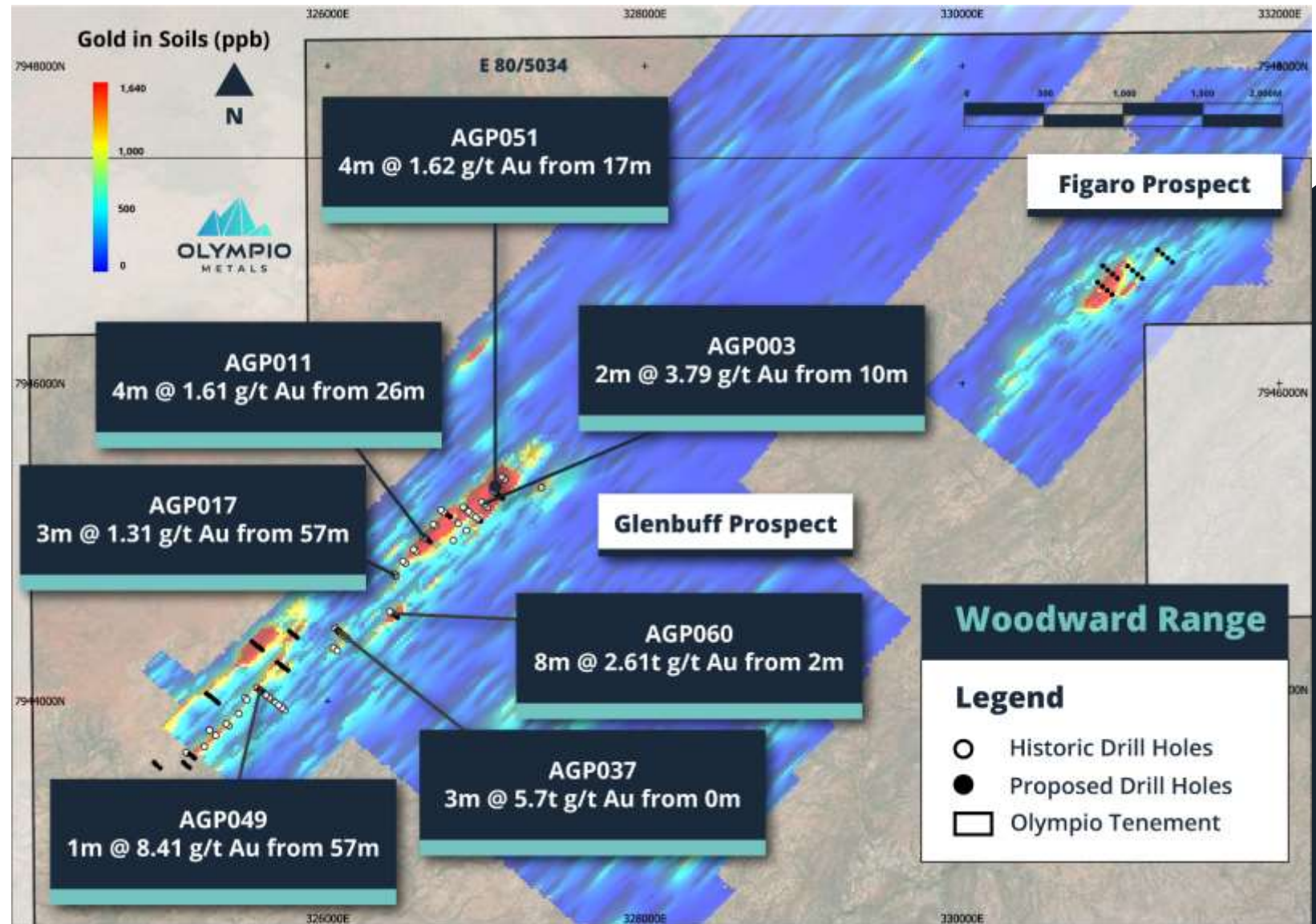


# Halls Creek

## Woodward Range

### High priority soils targets

- All approvals in place and drilling planned to commence in Q2 this year
- Infill and extensional holes targeting areas with previous results and soil anomalies
- At Glenbuff, mineralisation has been defined over 2km strike length







Critical metal projects now in exploration ramp up

# H1 2023 Planned Exploration

## Eurelia / Walloway

- Historical re-sampling results released March
- Maiden aircore drilling program to be undertaken in May 2023
- Walloway ELA expected to be granted Q2

## Mulwarrie Group

- Targeting significant lithium, gold and REE potential of the area
- Soil sampling Camelot prospect, targeting areas of elevated REEs identified with rock chip sampling
- Lithium developer, Liontown, targeting large scale lithium deposits

## Halls Creek

- Drilling priority gold targets at Woodward Range and Rubens in Q2 once wet season ends



# Olympio Metals Limited (ASX:OLY) Investment Opportunity



Critical  
Minerals  
Exposure

Targeting lithium, rare earths and niobium in areas with previously defined mineralisation



Upcoming  
Newsflow

Drilling planned for Eurelia and Halls Creek in H1, with supporting newsflow (rock chips, soils) throughout the period



Tight  
Capital  
Structure

54.4m shares on issue, with 23% held by two institutional funds



Strong  
Technical  
Team

Experienced management team to manage exploration programs across Eurelia, Halls Creek and Mulwarrie in 2023







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Level 2, 25 Richardson Street  
West Perth, WA 6005

[sdelaney@olympiometals.com.au](mailto:sdelaney@olympiometals.com.au)



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