



**ILTANI**  
RESOURCES



**FOCUSED ON THE DISCOVERY AND  
DEVELOPMENT OF CRITICAL RAW  
MATERIALS & METALS NECESSARY  
FOR A CLEAN ENERGY FUTURE**

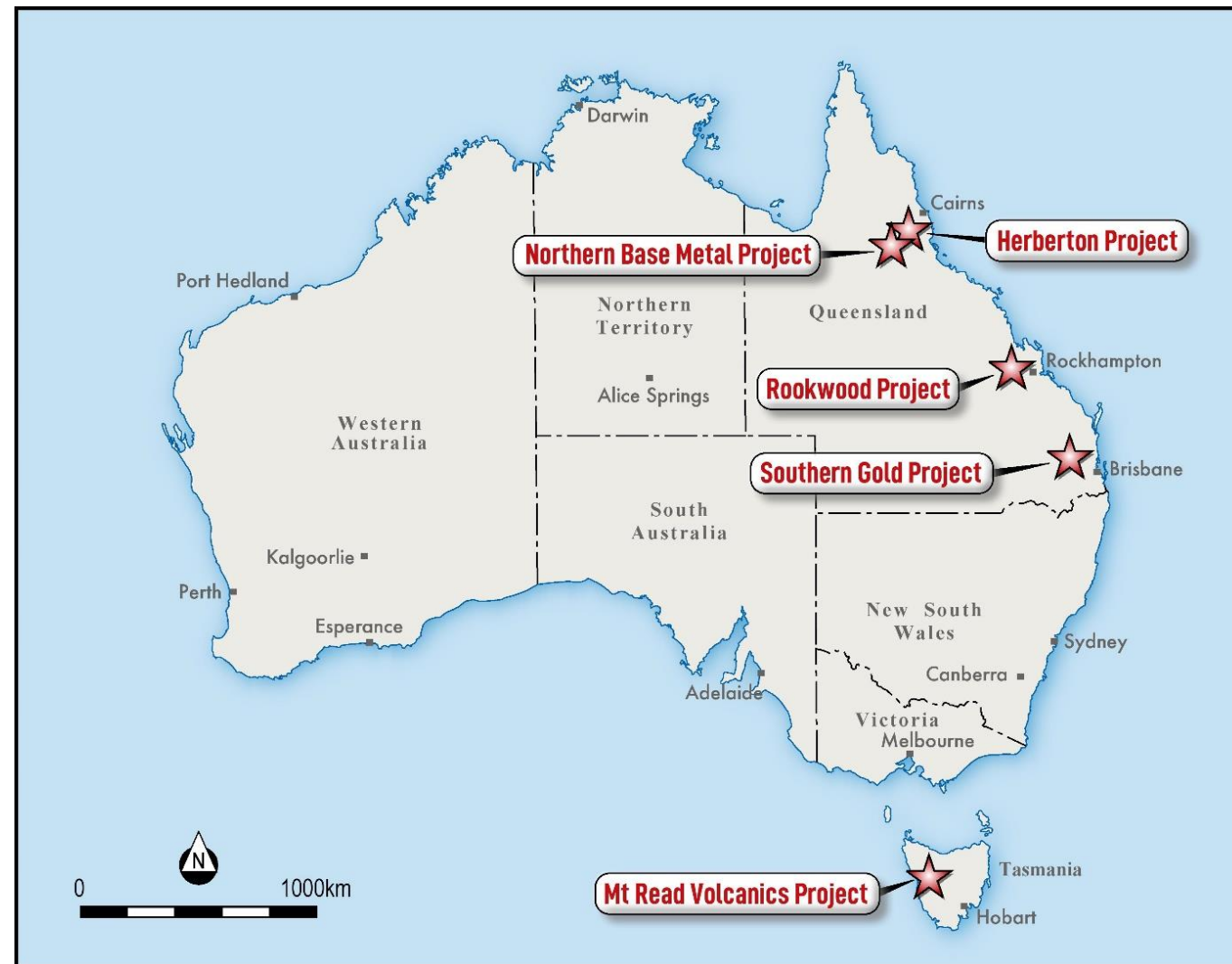
**BRISBANE MINING INVESTOR CONFERENCE MARCH 2024**

# Disclaimer - Cautionary Statements

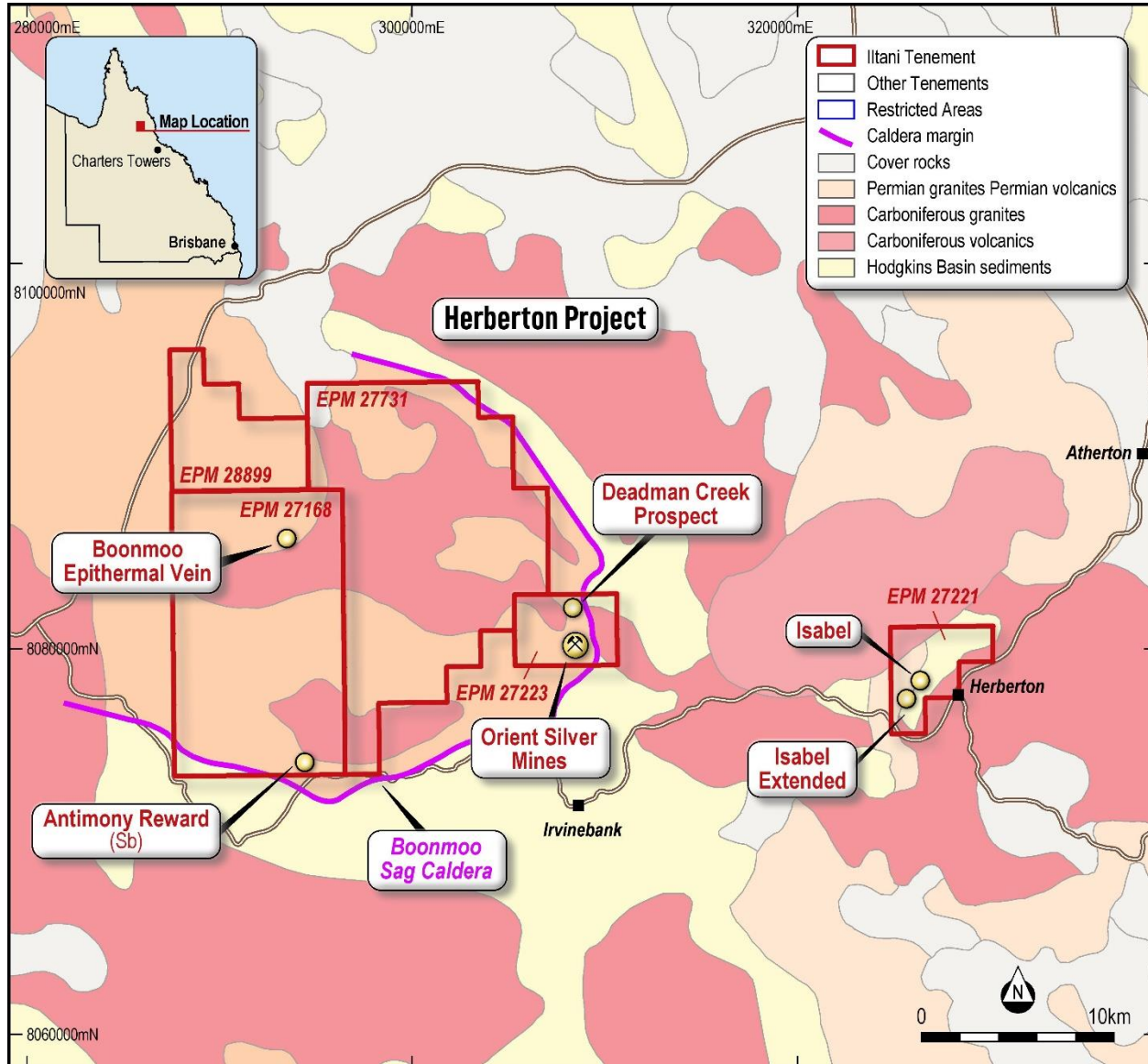
- This presentation has been prepared by Iltani Resources Limited (**Iltani** or the **Company**) for informational purposes only and contains summary background information about Iltani current as at 12 March 2024.
- The information contained in this presentation is in summary form and does not purport to be all inclusive or complete for informational purposes only and does not constitute an offer, invitation, solicitation or recommendation for the issue, sale or purchase of securities or other financial products in any jurisdiction. Without limiting any of the foregoing, this presentation does not constitute an offer to sell, or the solicitation of an offer to buy, any securities in the United States to, or for the account or benefit of, any U.S. Person (as defined in Regulation S under the U.S. Securities Act of 1933). This Presentation must not be distributed or released in the United States or to, or relied upon by, a U.S. Person or persons acting for the account or benefit of a U.S. Person. Iltani does not accept any liability to any person in relation to the distribution or possession of this presentation from or in any jurisdiction.
- The information contained in this presentation is not investment or financial product advice and is not intended to be used as the basis for making an investment decision. The presentation has been prepared without taking into account the investment objectives, financial situation or particular needs of any particular person. Before making an investment decision, you should consider, with or without the assistance of a professional adviser, whether an investment is appropriate in light of your particular investment needs, objectives and financial circumstances. No representation or warranty, express or implied, is made as to the fairness, accuracy, completeness or correctness of the information, opinions, conclusions or other representations contained in this presentation. To the maximum extent permitted by law, none of Iltani, their directors, employees agents and advisers, nor any other person accepts any liability, including, without limitation, any liability arising out of fault of negligence, for any loss arising from the use of the information contained in this presentation. In particular, no representation or warranty, express or implied is given as to the accuracy, completeness or correctness, likelihood of achievement or reasonableness or any forecasts, prospects or returns contained in this presentation nor is any obligation assumed to update such information. Such forecasts, prospects or returns are by their nature subject to significant uncertainties and contingencies.
- This presentation contains reference to certain intentions, expectations, future plans, strategy and prospects of Iltani. Those intentions, expectations, future plans, strategy and prospects may or may not be achieved. They are based on certain assumptions, which may not be met or on which views may differ and may be affected by known and unknown risks. The performance and operations of Iltani may be influenced by a number of factors, many of which are outside the control of Iltani. No representation or warranty, express or implied, is made by Iltani, or any of its directors, officers, employees, advisers or agents that any intentions, expectations or plans will be achieved either totally or partially or that any particular rate of return will be achieved. Given the risks and uncertainties that may cause Iltani's actual future results, performance or achievements to be materially different from those expected, planned or intended, Recipients should not place undue reliance on these intentions, expectations, future plans, strategy and prospects. Iltani does not warrant or represent that the actual results, performance or achievements will be as expected, planned or intended. Any such reference to intentions, expectations, future plans, strategy and prospects of Iltani speak only at 12 March 2024.

# Company Overview

<b>ASX: ILT</b>	
Share price	\$0.14
Shares on issue	41.8 million
Unlisted options	15.4 million
Market capitalisation	\$5.9 million
Cash (31 Dec 2023)	\$3.5 million
Enterprise value	\$2.4 million
<b>Shareholder Structure</b>	
Board & Management	9.3%
Top 20 (excl Board & Management)	45.4%
<b>Board &amp; Management</b>	
Non-Executive Chairman	Anthony Reilly
Managing Director	Donald Garner
Non-Executive Director & Co. Secretary	Justin Mouchacca
Technical Advisor	J. Bruce Gemmell



# Herberton Project North Queensland



- Herberton Project (330km<sup>2</sup>) - four permits plus one application
- Multiple high-grade drill targets, focus to date has been on the Orient System





- Orient is an extensive **precious metal-rich epithermal system** with a likely intrusion (**porphyry**) at depth
- **Strong similarities to the large Bolivian Ag-Zn-Pb-In-Sn systems**
- Hosts multiple **high-grade zinc-lead-silver-indium veins and stockworks** outcropping over at least a 4km<sup>2</sup> area
- **Zoned hydrothermal alteration (phyllic, argillic & propylitic) surrounding mineralisation**
- Mined from 1886 to 1924, with extensive (>200) historical workings – targeted high grade direct shipping silver-lead oxide ore
- Recently reported highest grade indium drill results in Australia

# Work completed at Orient since June 2023

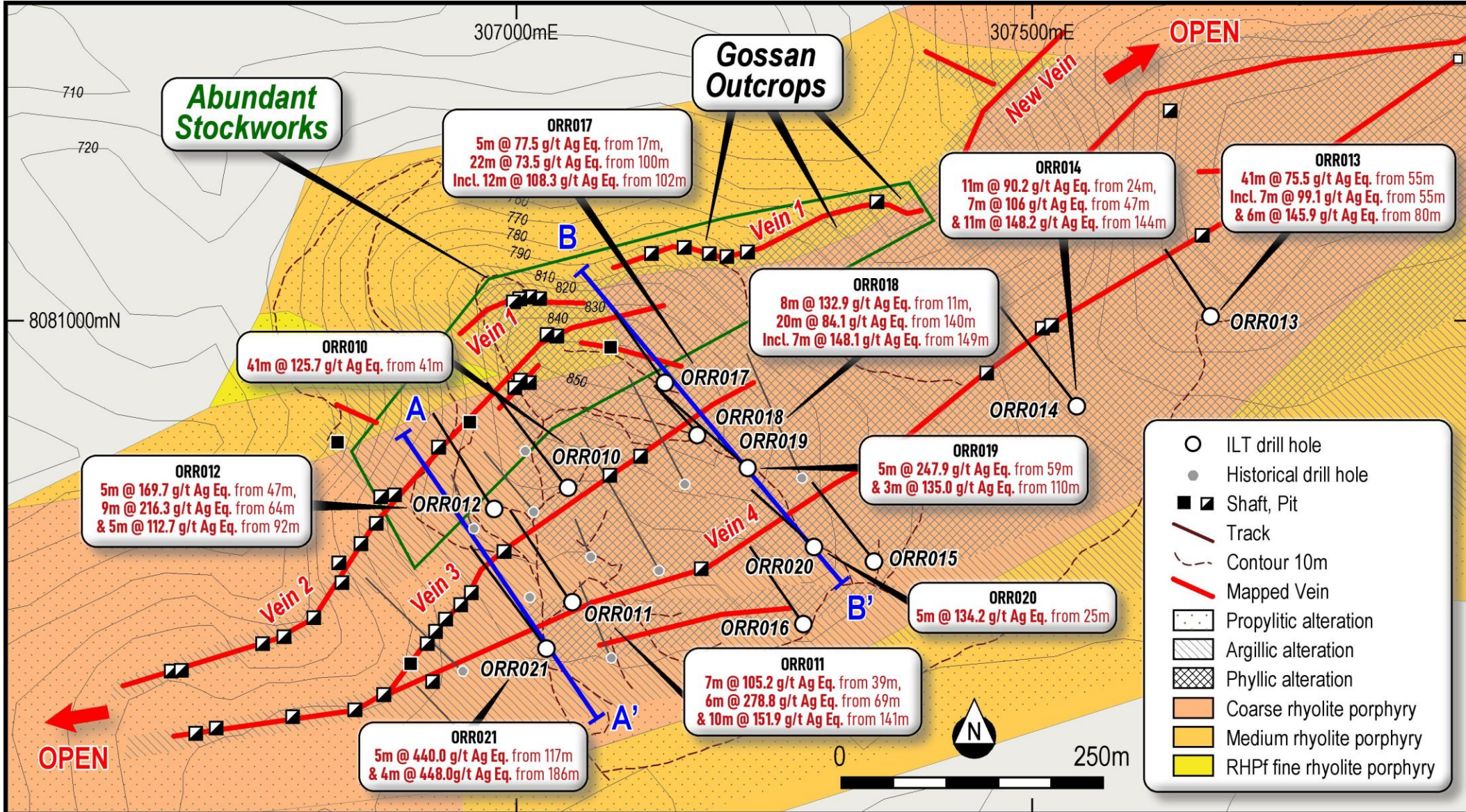
**SYSTEMATIC EXPLORATION**

<b>Mapping</b>	<b>Engaged consultant to map Orient System</b>
<b>Geophysical Interpretation</b>	<b>Re-interpreted historical IP, resistivity and drone mag</b>
<b>Drilling</b>	<b>Stage 1 RC drilling (14 holes for 2,034m drilled) Stage 2 RC drilling (8 holes for 1,276m drilled)*</b>
<b>3D Modelling</b>	<b>Engaged Mining One to build Orient System model</b>

- **What is the potential of the Orient System**
- **Where to drill**
- **Conceptual tonnes & grade**

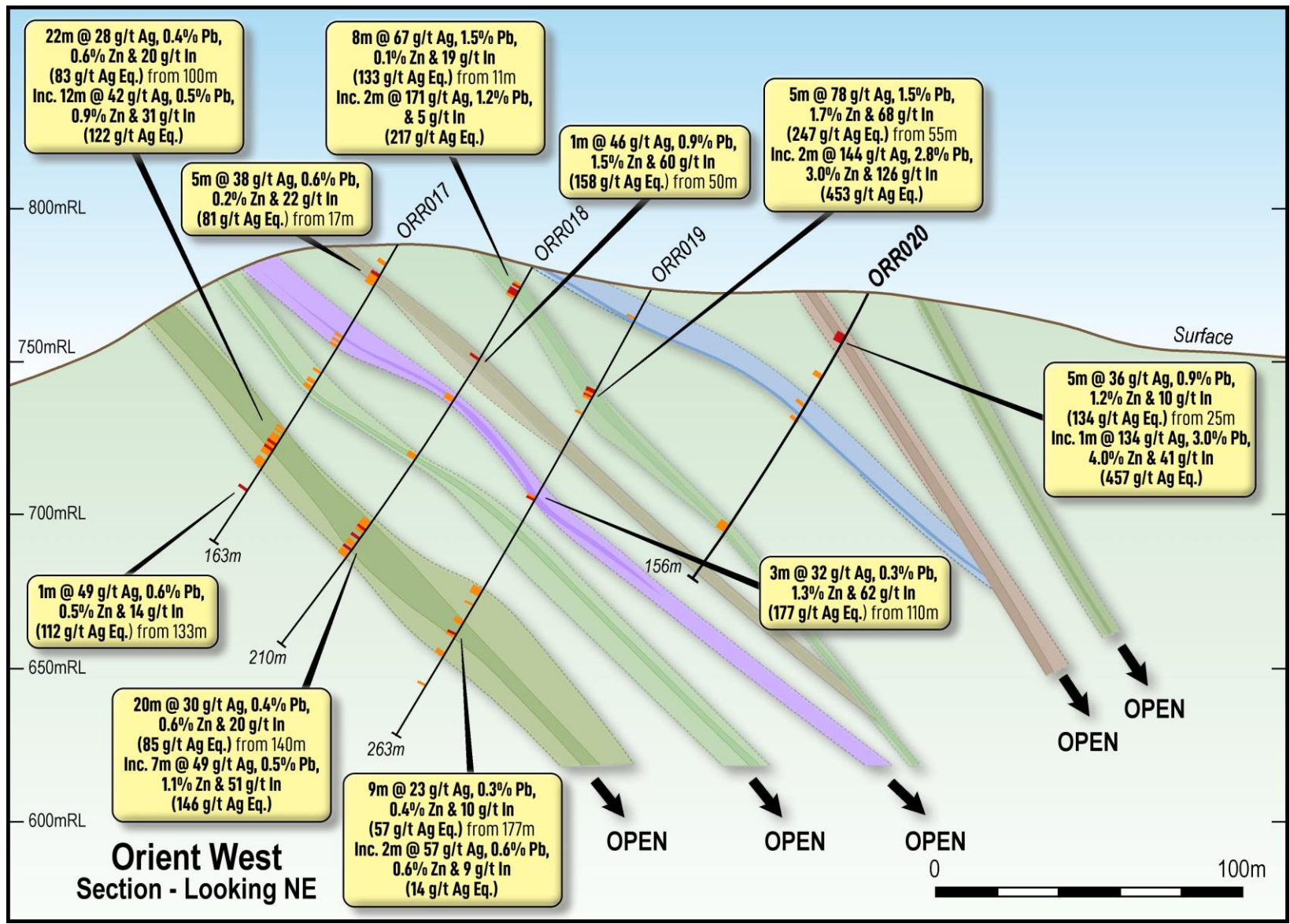
*\* Additional 10-15 RC holes planned to be drilled in April/May 2024 to complete Stage 2*

# Orient West – Excellent Results from Initial Drilling



# Orient West – bulk tonnage / open pit potential

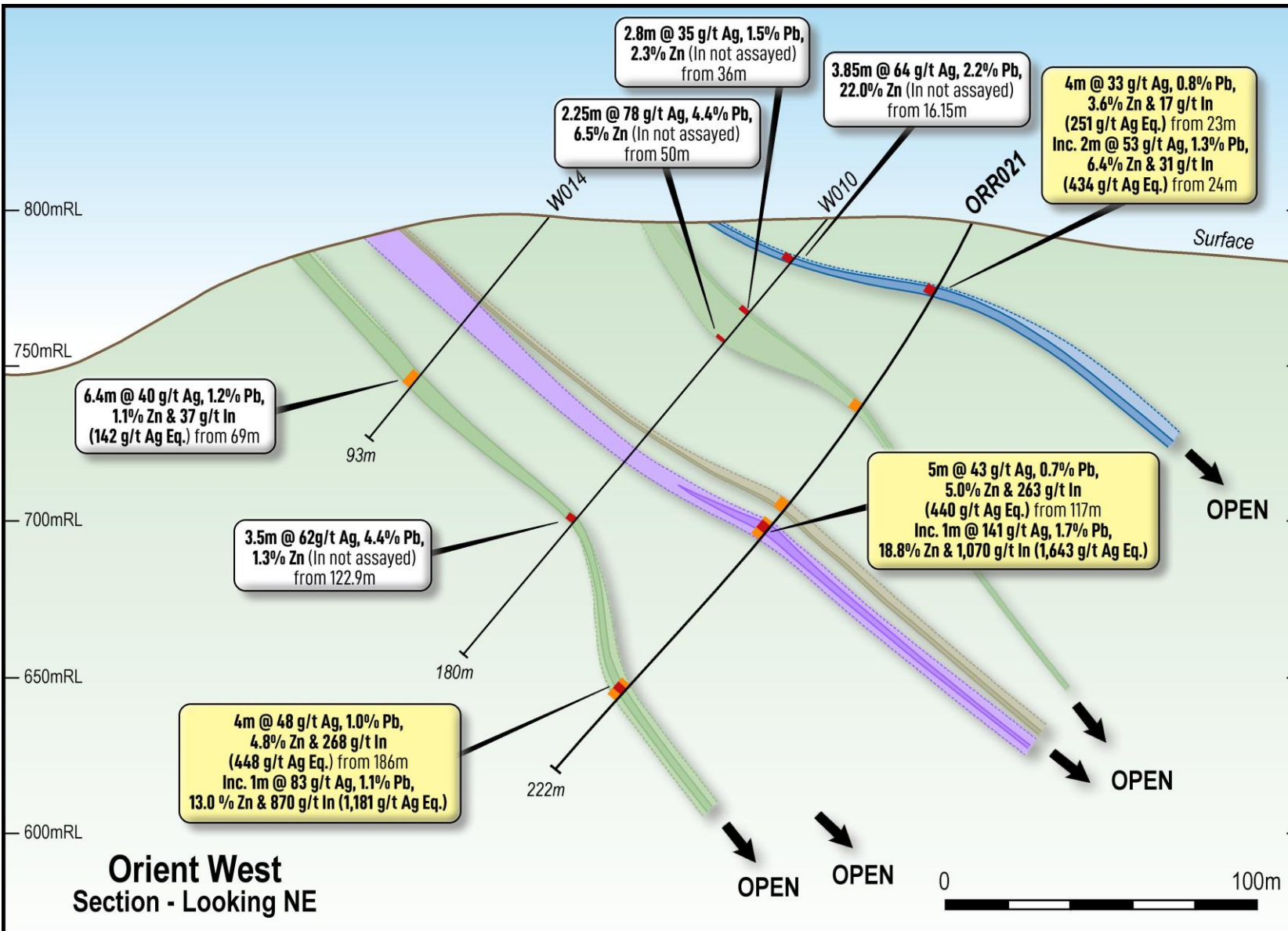
- Multiple stacked Ag-Pb-Zn-In vein systems
- Outcrop along ridge line
- Open in all directions (strike and dip)
- Stage 2 drilling planning to test strike extensions of vein systems



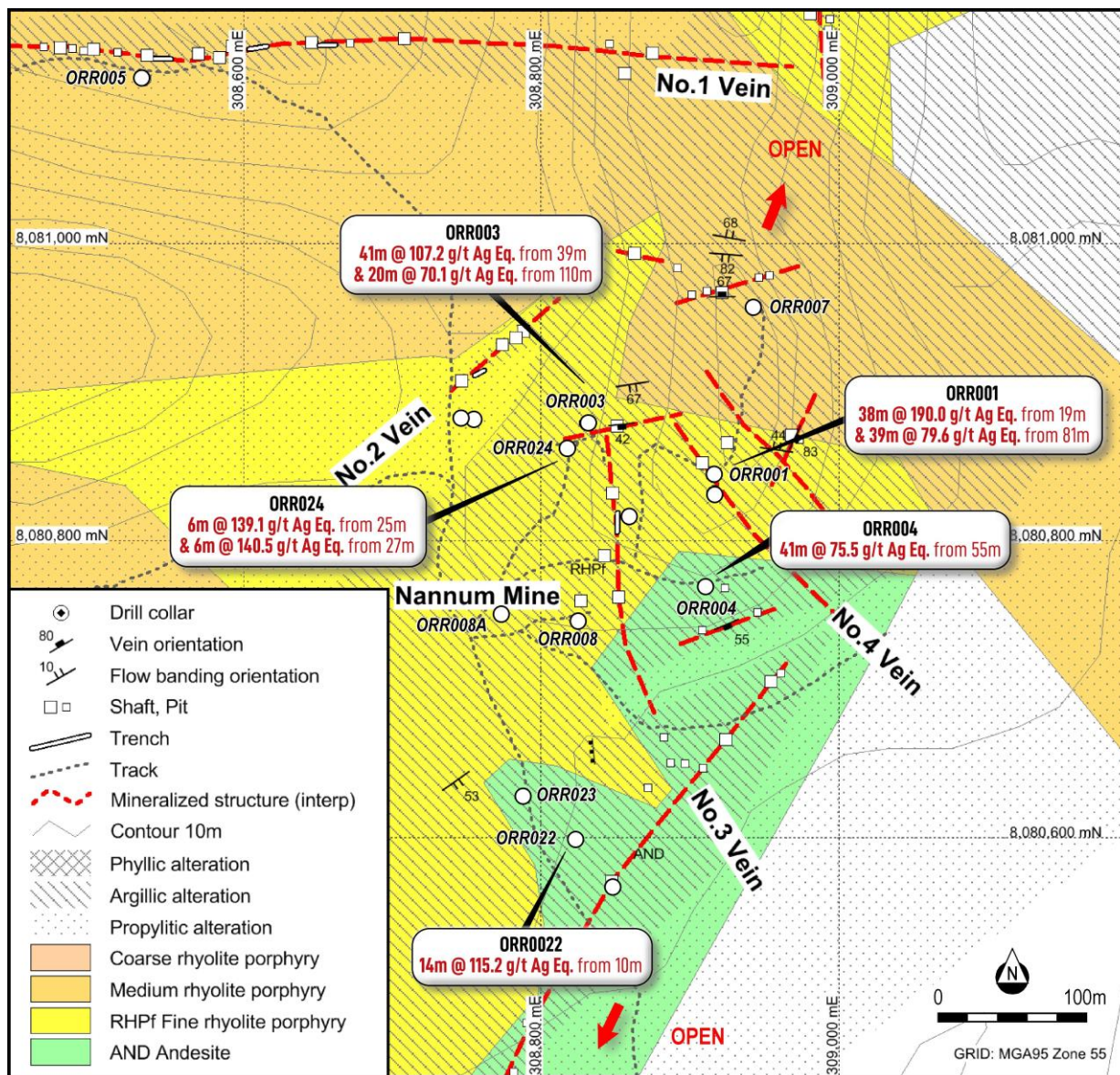


# Orient West – high grade UG potential

- Multiple high-grade Ag-Pb-Zn-In vein systems
- Highest ever indium drilling results announced on ASX
- 5m @ 43 g/t Ag, 0.7% Pb, 5.0% Zn & 263 g/t In (440 g/t Ag Eq.) from 117m inc.
  - 1m @ 141 g/t Ag, 1.7% Pb, 18.8% Zn & 1,070 g/t In (1,643 g/t Ag Eq.) from 117m
- 4m @ 48 g/t Ag, 1.0% Pb, 4.8% Zn & 268 g/t In (448 g/t Ag Eq.) from 186m inc.
  - 1m @ 83 g/t Ag, 1.1% Pb, 13.0% Zn & 870 g/t In (1,181 g/t Ag Eq.) from 187m
- Open in all directions (strike and dip)



# Orient East – bulk tonnage open pt & UG potential



- Multiple Ag-Pb-Zn-In vein systems
- Open in all directions (strike and dip)
- Stage 2 drilling planning to test strike extensions of vein systems

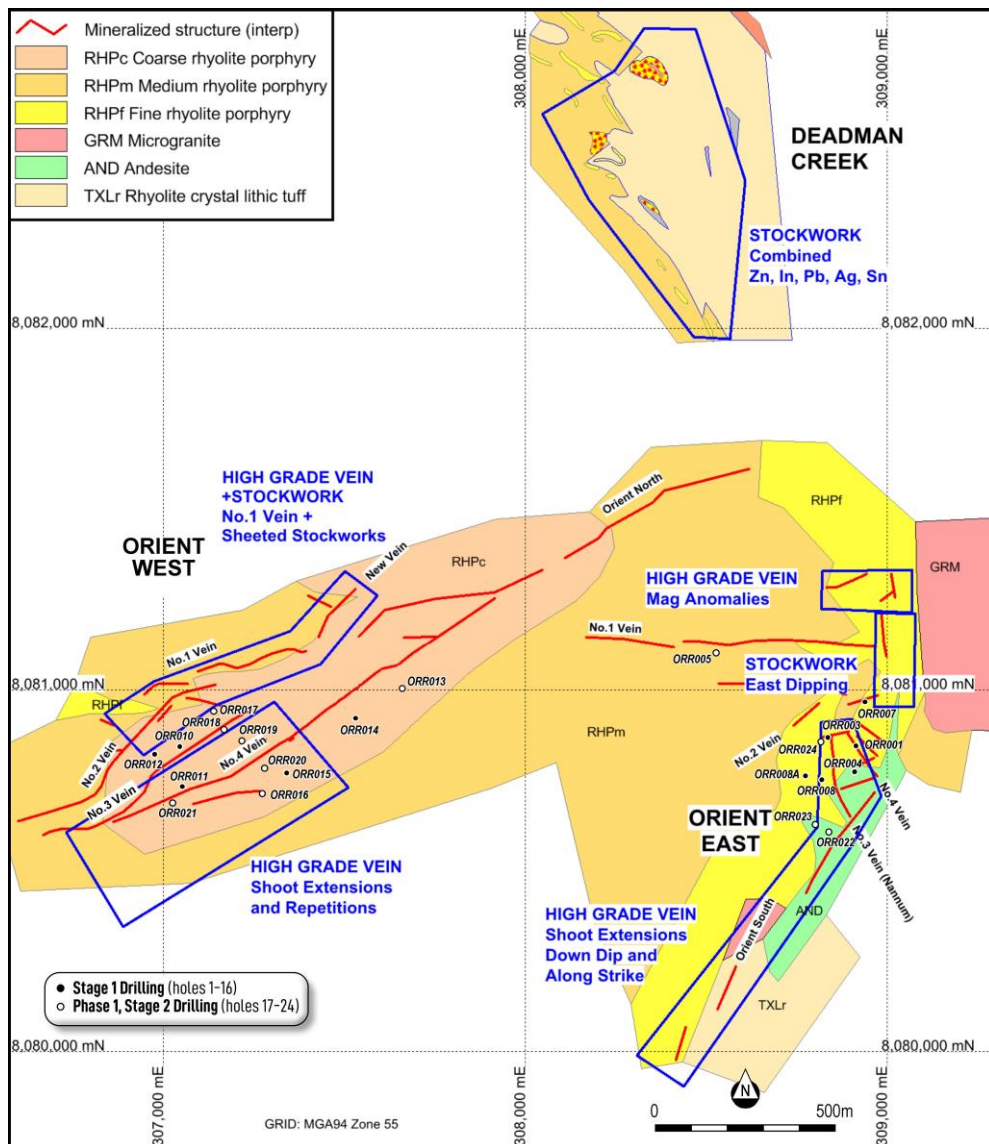
## Open Pit Bulk Tonnage Potential

- ORR001 (OE): 38m @ 190 g/t Ag Eq. from 19m
- ORR003 (OE): 41m @ 107 g/t Ag Eq. from 39m
- ORR022 (OE): 14m @ 115 g/t Ag Eq. from 10m

## High Grade UG Potential

- ORR001 (OE): 7m @ 454 g/t Ag Eq. from 27m
- ORR003 (OE): 5m @ 346 g/t Ag Eq. from 59m

# Orient System – just getting started



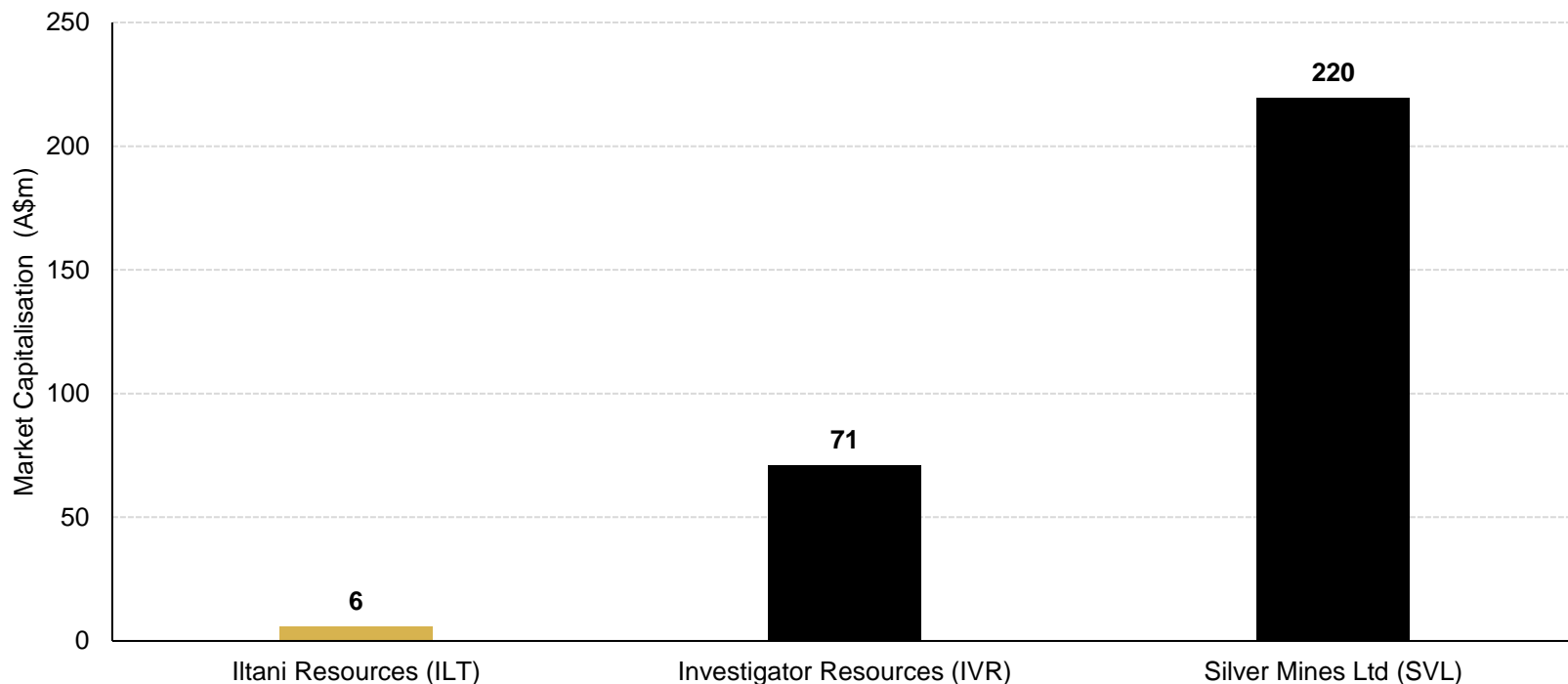
## Open Pit Bulk Tonnage Potential

- ORR001 (OE): 38m @ 190 g/t Ag Eq. from 19m
- ORR010 (OW): 41m @ 125 g/t Ag Eq. from 60m
- ORR003 (OE): 41m @ 107 g/t Ag Eq. from 39m
- ORR012 (OW): 9m @ 216 g/t Ag Eq. from 63m
- ORR014 (OW): 11m @ 148 g/t Ag Eq. from 144m
- ORR011 (OW): 10m @ 152 g/t Ag Eq. from 141m
- ORR022 (OE): 14m @ 115 g/t Ag Eq. from 10m

## High Grade UG Potential

- ORR001 (OE): 7m @ 454 g/t Ag Eq. from 27m
- ORR021 (OW): 5m @ 440 g/t Ag Eq. from 117m
- ORR021 (OW): 4m @ 448 g/t Ag Eq. from 186m
- ORR003 (OE): 5m @ 346 g/t Ag Eq. from 59m
- ORR012 (OW): 3m @ 526 g/t Ag Eq. from 67m
- ORR011 (OW): 3m @ 505 g/t Ag Eq. from 71m

## ASX Listed Silver Companies with Australian Assets – Pre and Post Discovery



Silver Mines (SVL): Bowdens Ag-Pb-Zn Project (NSW) – Share price as 11 March 2024

Mineral Resource: 200Mt @ 29 g/t Ag, 0.37% Zn & 0.26% Pb (62 g/t Ag Eq.) – SVL ASX announcement 31 March 2023

Ore Reserve: 30Mt @ 69 g/t Ag, 0.44% Zn, 0.32% Pb (101 g/t Ag Eq/) – SVL ASX announcement 30 May 2018

Investigator Resources (IVR): Paris Ag Project (SA) – Share price as 11 March 2024

Mineral Resource: 24.2Mt @ 73 g/t Ag & 0.41% Pb – IVR ASX announcement 5 July 2023

The comparable companies have been selected on the basis of having advanced Ag projects in Australia and are at various stages of development ranging from PFS (Investigator Resource) to BFS (Silver Mines)

# How will we get there?

- **Focus on Orient – target an initial JORC Resource in 2024**
- **Complete Phase 2 of Stage 2 drilling program (March/April/May)**
  - Extend known mineralisation
  - Target geophysical anomalies and stockwork targets
  - Deadman Creek stockwork target
- **Application for CEI 2024 funding with QLD Gov (April/June)**
  - 750m deep drillhole into Orient Deeps
  - Funding will be awarded in April 2024
- **Stage 2 Phase 2 inputs into Orient Exploration Target**
- **Stage 3 drilling – Resource drill out**
  - Design program with Mining One
  - Resource definition drilling (adequate spacing) to deliver JORC Resource



# Silver & Indium – A Unique ASX Exposure

- Historical metallurgical test work indicates that Orient can produce a lead-silver concentrate (48% Pb & 2,250g/t Ag) and a zinc-indium concentrate (47-48% Zn, 2,000 g/t In & 200 g/t Ag)
- Highlights Orient's potential to become one of Australia's largest producers of silver and indium – a unique ASX exposure

## Indium – Critical Raw Material

- Indium is defined as a critical raw material based on its strategic end uses and potentially constrained supply
- Indium tin oxide (ITO) continues to account for most global indium consumption. ITO thin film coatings are used for electrically conductive purposes (touch screens) in a variety of flat-panel displays
- Also used in night vision equipment, aerospace alloys, solders and solar cells
- Current indium price of ~U\$230-260/kg (99.99% indium)

## Silver – Increasing Demand Driver by Decarbonisation and Electrification

- Traditional store of wealth – 20% of global demand (coins and bars)
- Every solar panel contains ~ 1oz Ag, every EV contains ~2oz Ag
- 2023F global demand of 1.2 billion oz
- Solar panels and EVs to increase demand by >200 million oz Ag from 2025

# Quality Project Portfolio

Project		Target Mineralisation Style	Notable Results
<b>Herberton</b>	Isabel	High-grade massive sulphide pipe	<ul style="list-style-type: none"> <li>Low tonnage / high grade non JORC historical resource</li> <li>Zinc-indium-silver</li> </ul>
	Isabel Extended	Polymetallic massive sulphide system	<ul style="list-style-type: none"> <li>MIED3: 2.3m @ 2.0% Cu, 1.0% Pb, 13.2% Zn &amp; 409 g/t Ag from 91.1m down hole</li> <li>MIED1: 7.25m @ 3.1% Cu &amp; 173 g/t Ag from 182.1m down hole</li> </ul>
	Antimony Reward	High-grade Sb vein system	<ul style="list-style-type: none"> <li>ARRC006: 3.0m @ 3.49% Sb from 62.0m</li> <li>ARRC010: 12.0m @ 2.73% Sb from 29.0m</li> <li>ARRC012: 5.0m @ 3.21% Sb from 19.0m</li> </ul>
	Boonmoo	Epithermal Au system	<ul style="list-style-type: none"> <li>Discovery rock chip BM025: 7.85 g/t Au &amp; 2.17 g/t Ag</li> </ul>
<b>Northern Base Metal</b>	Mt Mist	Broken Hill Type sulphide deposit	<ul style="list-style-type: none"> <li>RC94MB10: 9m @ 1.2% Cu, 8.0% Pb, 12.6% Zn &amp; 101 g/t Ag from 33m down hole</li> <li>MM11-006: 22m @ 0.5% Cu, 3.1% Pb, 5.1% Zn &amp; 52 g/t Ag from 93m down hole</li> </ul>
	Frehurst	Copper sulphide vein system	<ul style="list-style-type: none"> <li>RC95FR9: 3m @ 5.8% Cu &amp; 136 g/t Ag from 31m down hole</li> </ul>
<b>Mount Read Volcanics</b>	MRV	Volcanic hosted massive sulphide (VHMS) deposits	<ul style="list-style-type: none"> <li>BOC3: 4.1m @ 11.1% Zn, 4.5% Pb &amp; 68 g/t Ag from 467m down hole</li> </ul>



**ILTANI**  
RESOURCES

**NATHAN RYAN**

**NWR COMMUNICATIONS**

+61 420 582 887

[nathan.ryan@nwrcommunications.com.au](mailto:nathan.ryan@nwrcommunications.com.au)

**DONALD GARNER**

**ILTANI RESOURCES**

+61 438 338 496

[dgarner@itaniresources.com.au](mailto:dgarner@itaniresources.com.au)



**ILTANIRESOURCE.COM.AU**



## Metallurgical Equivalent Calculation

The metal equivalent formula is:  $Ag Eq. = Ag + (Pb \times 35.5) + (Zn \times 50.2) + (In \times 0.47)$

Metal Equivalent Calculation - Recoveries and Commodity Prices

Metal	Price/Unit	Recovery
Silver	US\$20/oz	87%
Lead	US\$1.00/lb	90%
Zinc	US\$1.50/lb	85%
Indium	US\$350/kg	85%

It is Ittani's opinion that all the elements included in the metal equivalents calculation have a reasonable potential to be recovered and sold.

## Competent Persons Statement

### Exploration Results

The information in this report that relates to Exploration Results is based on information compiled by Mr Mike Barr who is a member of The Australasian Institute of Geologists (AIG), and is a consultant engaged by Ittani Resources Limited., and who has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activities being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting Exploration Results, Mineral Resources and Ore Reserves' (JORC Code).

Mr Barr consents to the inclusion in this report of the matters based on the information in the form and context in which it appears.

# Disclaimer

This presentation contains information extracted from ASX market announcements reported in accordance with the 2012 edition of the “Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves” (2012 JORC Code). Further details (including 2012 JORC Code reporting tables where applicable) of exploration results referred to in this ASX announcement can be found in the following announcements lodged on the ASX:

These announcements are available for viewing on the Company’s website [www.iltaniresources.com.au](http://www.iltaniresources.com.au). Iltani Resources confirms that it is not aware of any new information or data that materially affects the information included in any original ASX announcement.

Date	Announcement
13 October 2023	Iltani hits wide intersections of silver-lead-zinc-indium-antimony-tin mineralisation at Orient
24 October 2023	Iltani confirms significant new discovery of silver-lead-zinc-indium-antimony-tin system at Orient, QLD
13 November 2023	Test work confirms silver-indium production potential at Orient, QLD
19 February 2024	Drilling points to major silver-indium discovery at Orient, QLD
11 March 2024	Iltani achieves highest reported indium grades in drilling at Orient, QLD