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# Asian Battery Metals Plc (ASX:AZ9)

PRESENTATION FOR 121 MINING & ENERGY  
INVESTMENT SINGAPORE

September 23-24, 2024





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Information contained in this presentation relating to financial forecasts, production targets, infrastructure, project execution, cost estimating, metallurgical test work, exploration results, Mineral Resource estimates and studies are taken from the RPM Global Independent Geological Report included in the Company's Prospectus dated and announced on ASX on 30 April 2023; the 6 August 2024 ASX announcement "Regional Exploration Identifies New Copper & Nickel Targets" (with Updated JORC 2012 Table announced on 7 August 2024); the 18 September 2024 ASX Announcement "Massive Sulphide Mineralisation Confirmed at Yambat Project," and 23 September 2024 ASX announcement "Drilling Confirms Copper Mineralisation at Copper Ridge", all available to view on the ASX announcements platform and on <https://www.asianbatterymetals.com>.

Save for the updated information in the announcements set out above and the results of pending assay from Phase 1 of the now completed drilling program, the Company confirms that at this time it is not aware of any further new information or data that materially affects the information included in the ASX announcements and that all material assumptions and technical parameters underpinning the estimates continue to apply and have not materially changed. The Company confirms that at this time the form and context in which the Competent Person's findings as presented have not been materially modified.

Photos of core samples are included in this presentation on slides 6 and 7. Visual estimates of mineral abundance should never be considered a proxy or substitute for laboratory analysis where concentrates or grades are factors of economic interest. Visual estimates also provide no information regarding impurities or deleterious physical properties relevant to valuations.

This presentation is authorised for release by the Managing Director

## INVESTMENT HIGHLIGHTS

1. **LOCATED NEXT TO THE LARGEST EV BATTERY MARKET**
2. **MULTIPLE PROJECTS (100%) IN UNDER-EXPLORED JURISDICTION**
3. **EXPERIENCED AND DIVERSE BOARD**
4. **COMPETITIVE LEGAL POLICY AND FISCAL REGIME FOR BATTERY MINERALS**
5. **OPERATION TEAM EXPERIENCED IN COUNTRY EXPLORATION AND SUSTAINABILITY**



### YAMBAT PROJECT – OVAL MAGMATIC Cu-Ni and COPPER RIDGE Cu-Au

- **Discovery of a new Cu-Ni sulphide system in Mongolia**
- **Intersected 8.8 m massive sulphide in 2024 drilling**
- Multiple targets for Cu-Ni-PGE exploration district potential
- **Identification of Copper Ridge (Zest Ukhaa) – Cu-Au prospect**



### KHUKH TAG GRAPHITE

- **Advanced graphite project with a resource of 12.2Mt @ 12.3% TGC (see Slide 14)**
- + (94-97)% TGC on initial beneficiation tests in fine grind and conventional processing
- Pathway to potential investment decision within 24 months
- Close to infrastructure - 80 km to rail, 35 km to a power grid



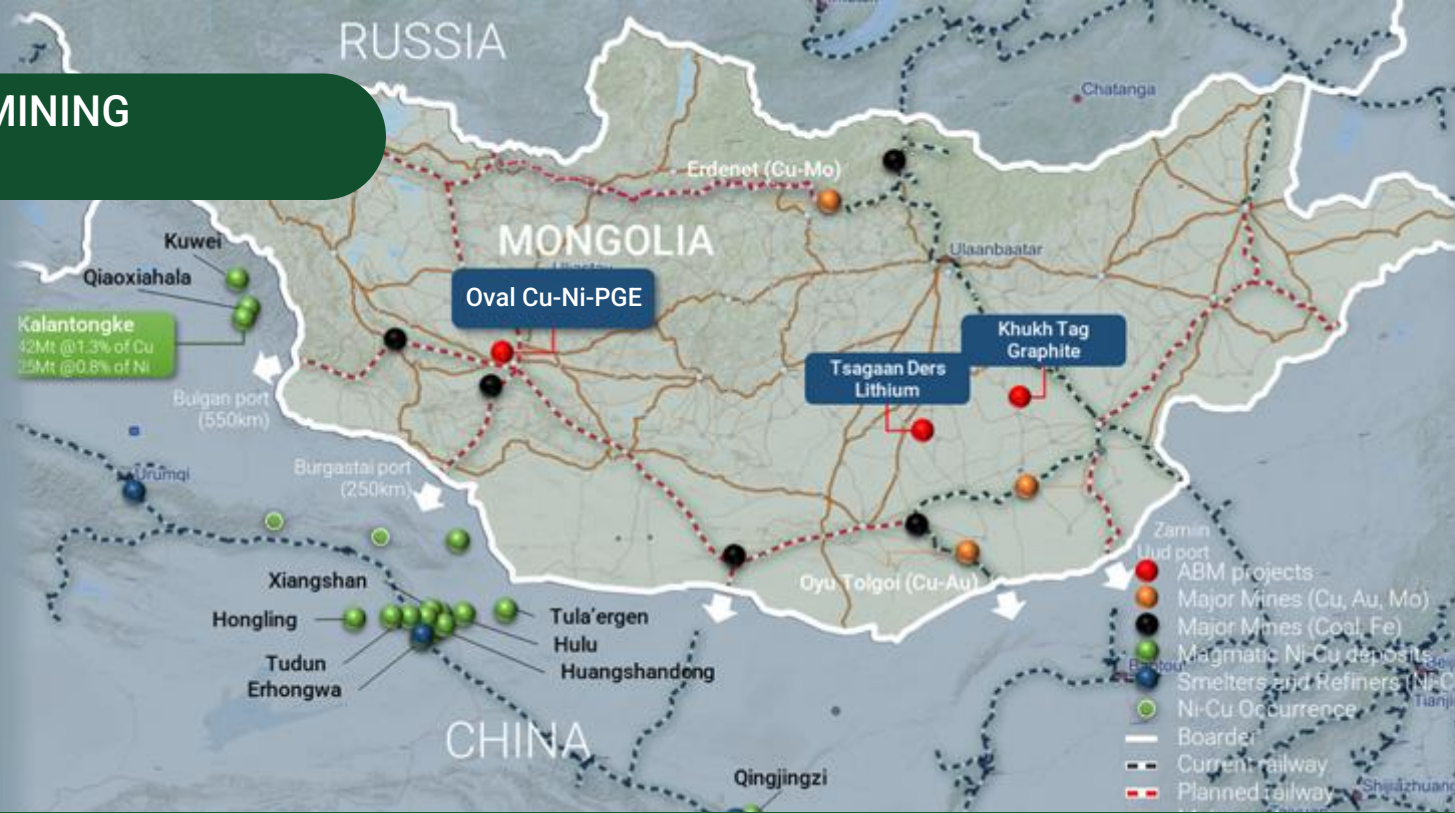
### TSAGAAN DERS LITHIUM (Li-Rb-Sn)

- Exploration target ready for drilling
- Ongoing generation work in the region

# MONGOLIA – MATURE MINING JURISDICTION

## INFRASTRUCTURE AND POLICY

- Paved road - 10200 km (2060km in 2008)
- Rail connection - 2950km (1360km in 2008)
- Border crossing – 19 ports



## MAIN EXPORTS IN 2023

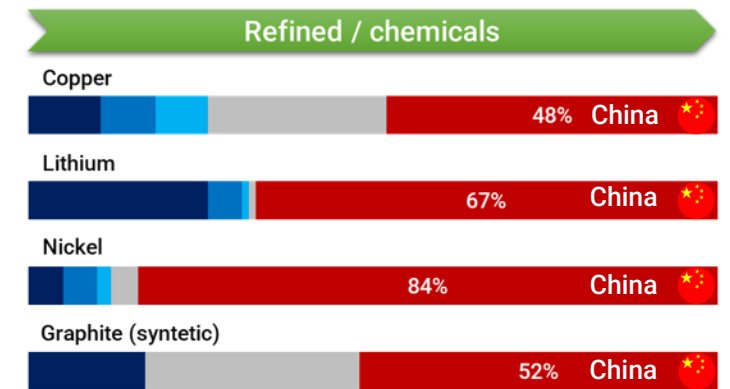
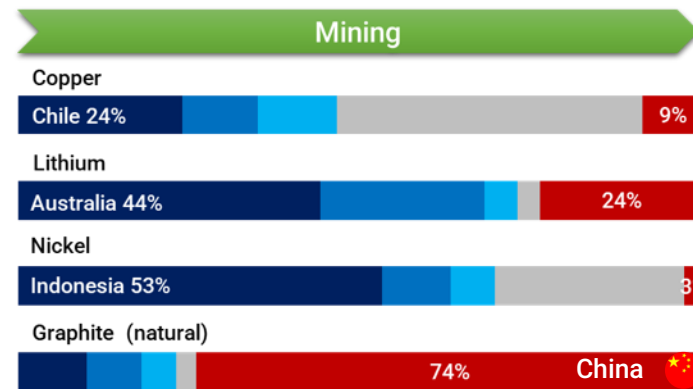
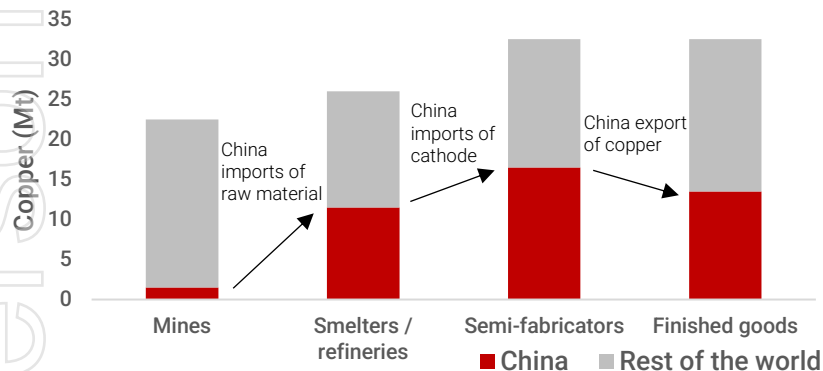
- 1.5Mt copper concentrate
- 5.7Mt of iron ore
- 69.6Mt of coal

## COMPETITIVE LEGAL AND FISCAL POLICY IN THE REGION

## UNDER-EXPLORED FOR CRITICAL MINERALS

## Trailblazing for critical mineral exploration in Mongolia

## LEADING GLOBAL PRODUCERS AND REFINERS OF BATTERY MINERALS



Source: Wood Mackenzie

# EXPERIENCED AND DIVERSIFIED LEADERSHIP

Proven success in listing Mongolian assets on ASX

## Board of Directors



GAN-OCHIR (MANAGING DIRECTOR) has over 20 years of experience in the mining industry. Held board roles with Aspire Mining Ltd and Oyu Tolgoi LLC. He obtained mining education from Haileybury School of Mines, Canada, and Mongolian University of Sci & Tech, MSc in Finance (NYU-HKUST), and is a Member of AusIMM.



DAVID PAULL (NON-EXECUTIVE CHAIRMAN) has over 30 years of experience in mining, including the last 10 years in Mongolia with ASX-listed Aspire Mining Ltd as Managing Director and Chairman. David holds a Bachelor of Commerce from the University of Western Australia and an MBA from Cornell.



NEIL YOUNG (NON-EXECUTIVE DIRECTOR) is the Chief Executive Officer of Elixir Energy Ltd and has more than 20 years of experience in the energy sector. Mr Young has an M.A. (Hons) joint degree in Economics/Politics from the University of Edinburgh.

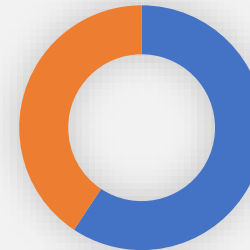


KIRSTEN LIVERMORE (NON-EXECUTIVE DIRECTOR) has over 25 years of experience in policy, regulation, and issue management relating to mining. She served 15 years in the Australian parliament. Kirsten led the Australia Mongolia Extractives Program and has a law degree from the University of Queensland and an MSc in Development Management from the London School of Economics.

## Corporate Structure

Shares (CDIs)(ASX: AZ9)	588.0m
Options	409.6m
Performance Rights	18.0m
<b>Share Price</b> (Sep 20)	<b>\$0.032</b>
<b>Market Capitalisation</b> (Sep 20)	<b>\$18.8m</b>
<b>Cash</b> (Jun 30)	<b>A\$6.8m</b>
<b>Enterprise Value</b> (Jun 30)	<b>A\$12.0m</b>

## Shareholding Structure (post-Capital Raise)



The Top 20 Shareholders of AZ9 hold 59.3% of shares on issue.

## Major Shareholders

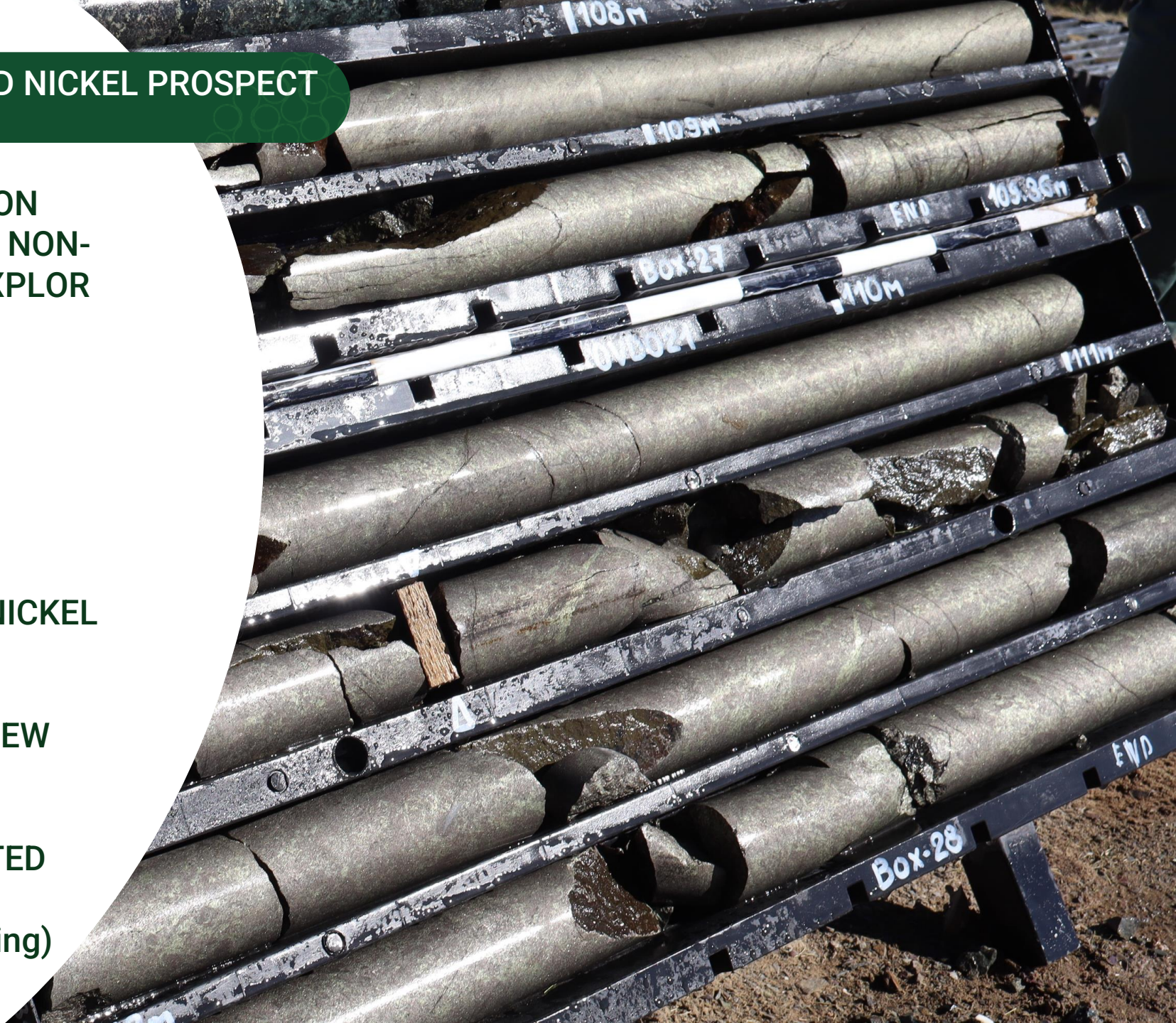
Top 20 shareholders	59.3%
Top 100 shareholders	83.2%
Restricted securities	48.6%



# YAMBAT PROJECT - OVAL COPPER AND NICKEL PROSPECT

Discovery in the making

- AS AN INNOVATIVE EXPLORATION CONCEPT - RECEIVED 500K USD NON-DILUTIVE FUNDING FROM BHP XPLOR IN 2023
- MULTIPLE TARGETS FOR SYSTEMATIC EXPLORATION IN 106 Sq.Km AREA
- NEW DISCOVERY OF INTRUSION RELATED MAGMATIC COPPER-NICKEL SULFIDE SYSTEM IN 2023
- TANTALISING PROSPECT FOR NEW METAL EXPLORATION BELT
- DRILL HOLE OVD021 INTERSECTED MASSIVE SULPHIDE ORE IN SEPTEMBER 2024 (Assays pending)





# YAMBAT PROJECT- OVAL COPPER AND NICKEL PROSPECT

2023 discovery of magmatic Cu-Ni mineralisation

## HIGHLIGHTS OF 2023 DRILLING PROGRAM

- Mineralisation open to depth and to southeast along strike
- Amphibole-olivine gabbro similar to other deposits in the region - CAOB
- Disseminated, dense disseminated, globular or blebby sulphide and massive sulphide encountered
- 2024 Phase 1 drilling program complete with a number of assays pending (see photos opposite for hole OVD021)
- Follow-up Phase 2 exploration drilling is planned in Q4 2024

### OVD001

31.7m @ 1.40% Cu, 0.48% Ni, 0.29 g/t E3 from 2.5m and 11.4m @ 0.32% Cu, 0.3% Ni, 0.2 g/t E3 from 57m (partially oxidised, disseminated)

### OVD004

33m @ 1.85% Cu, 0.44% Ni, 0.64 g/t E3 from 1m (partially oxidised, disseminated)

### OVD008

10.8m @ 0.52% Cu, 0.42% Ni, 0.1g/t E3 from 80m

### OVD009

73.0m @0.59% Cu, 0.42% Ni, 0.2g/t E3 from 127m



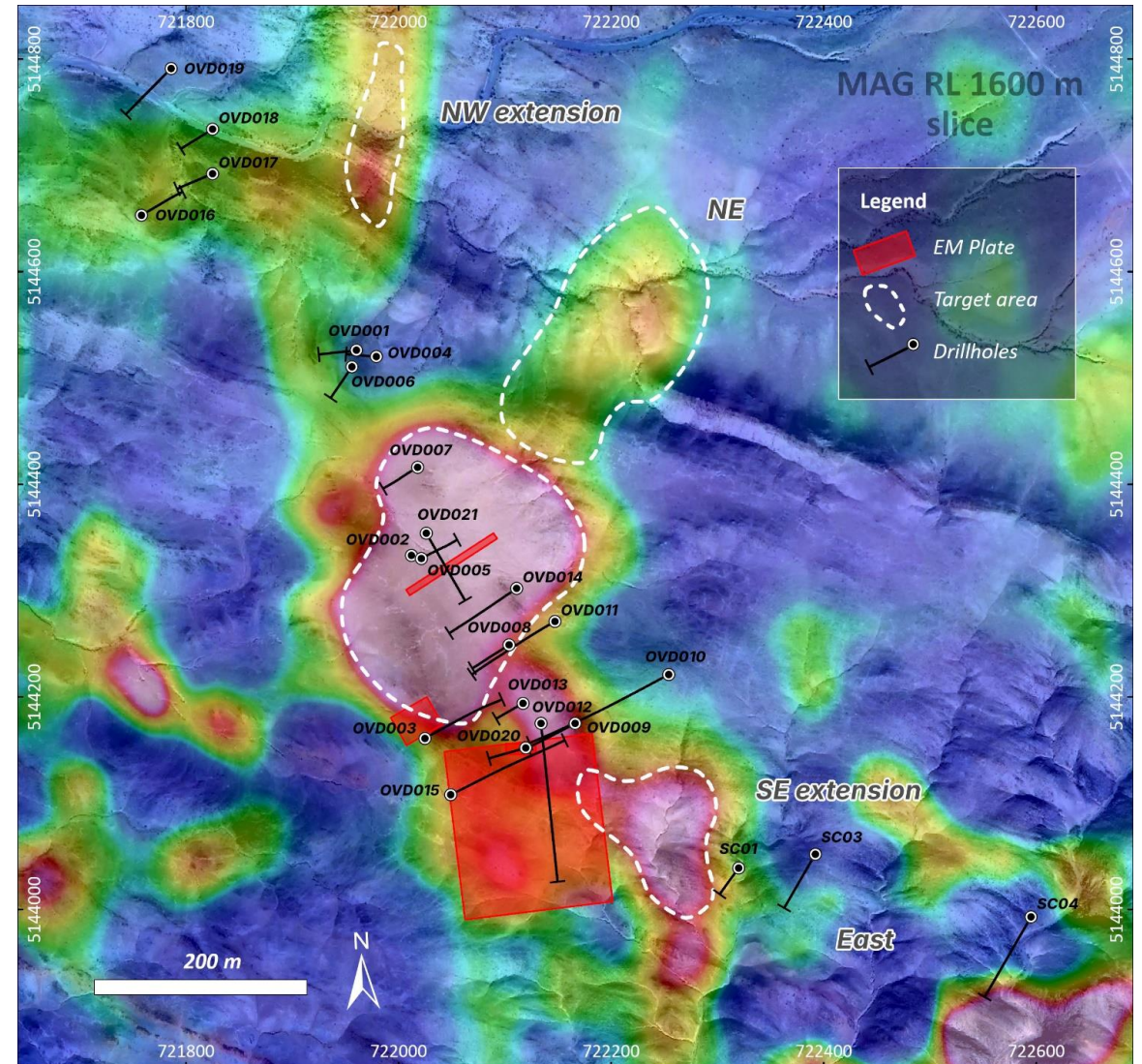
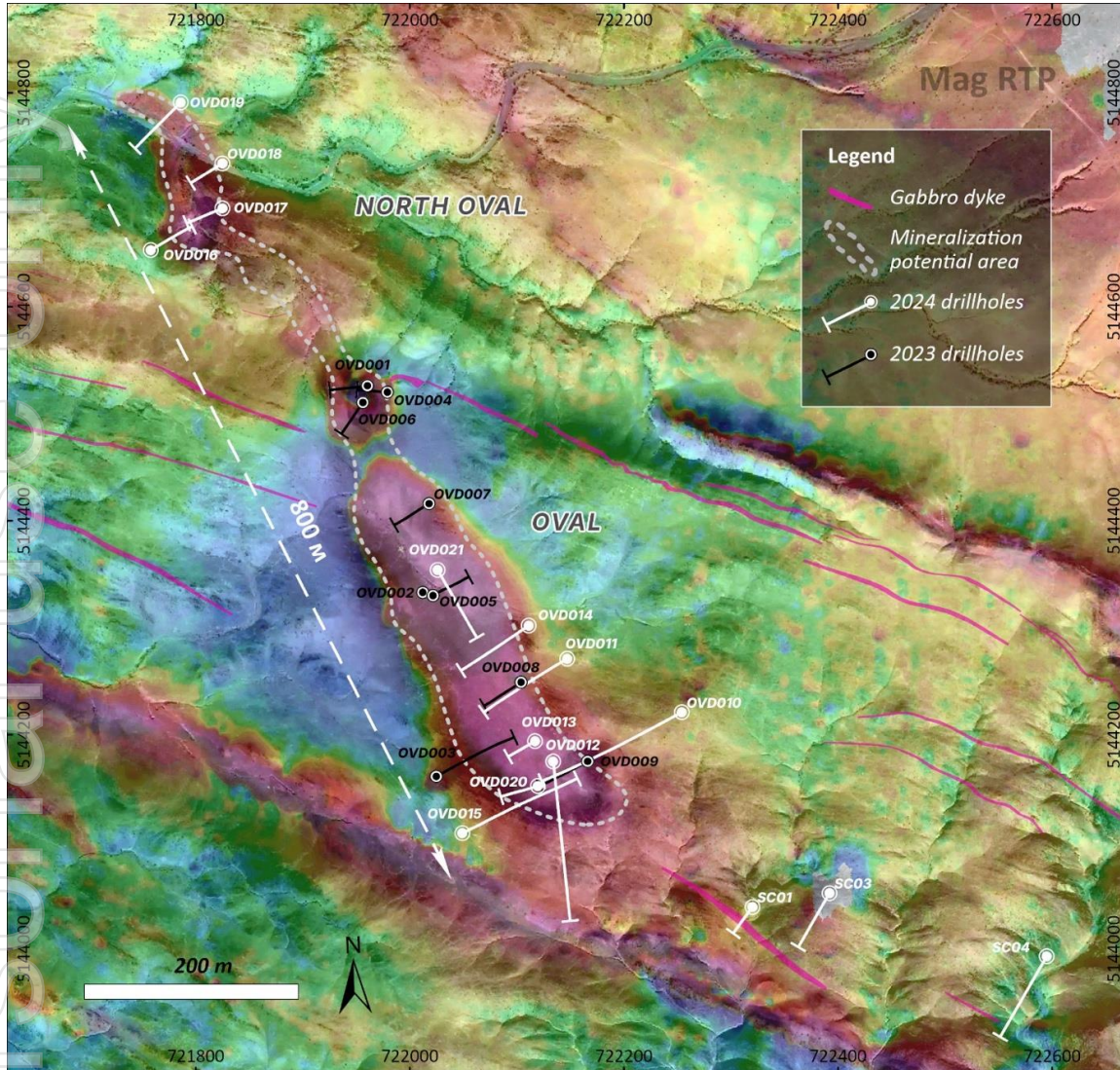
**OVD021 – encountered a massive sulphide interval of 8.8 meters from 107.2 m within a broader net textured and disseminated sulphide zone. (Assays pending)**



# YAMBAT PROJECT- OVAL COPPER AND NICKEL PROSPECT

Geophysical signature suggesting extension to depth

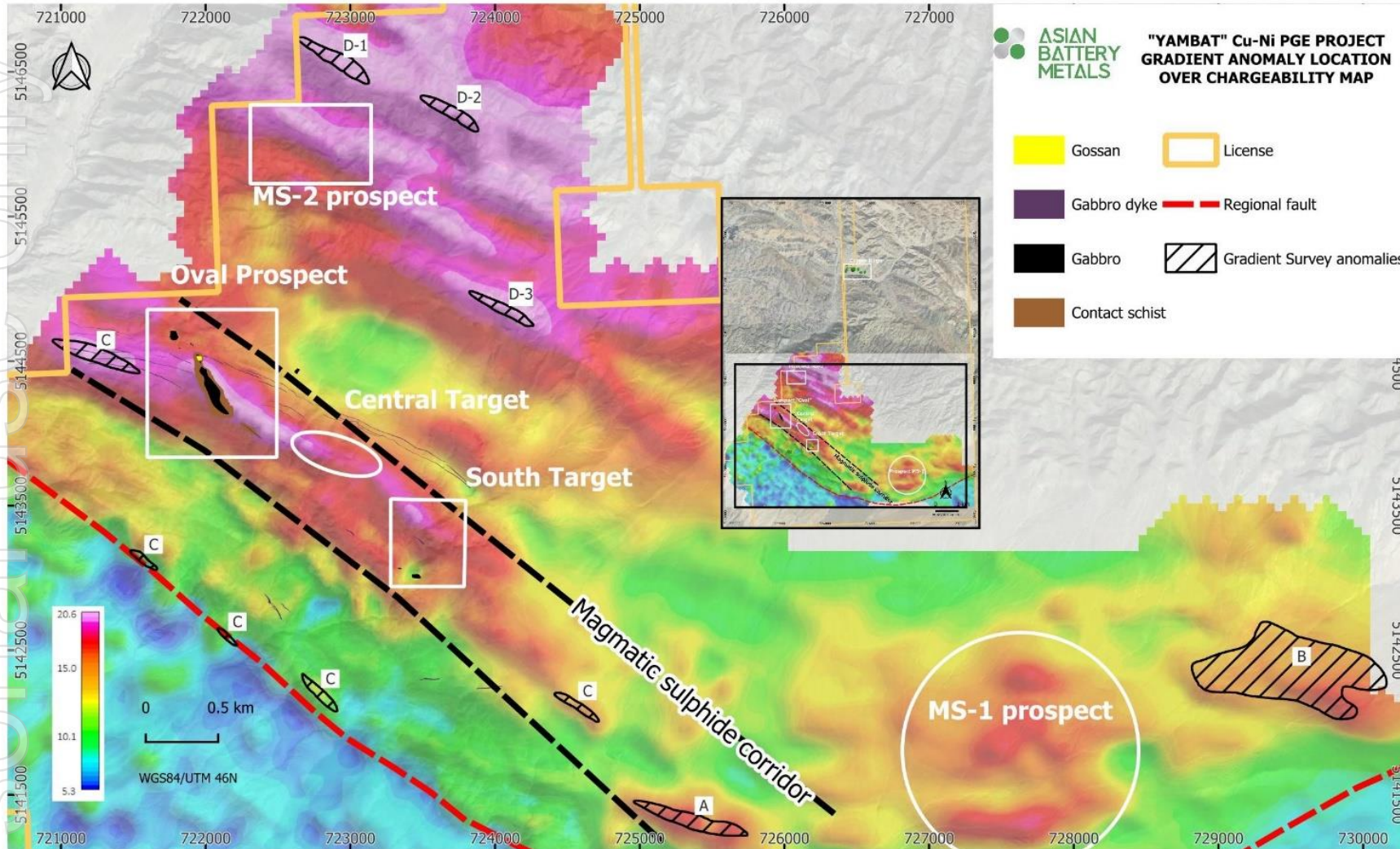
- Oval prospect 800 m drill tested (on left, magnetics at surface)
- Potential deeper anomalies (NW, SE) and DHEM plate on TMI at 230-240 meters below surface (on right)





# YAMBAT PROJECT- OVAL COPPER AND NICKEL PROSPECT

Regional potential



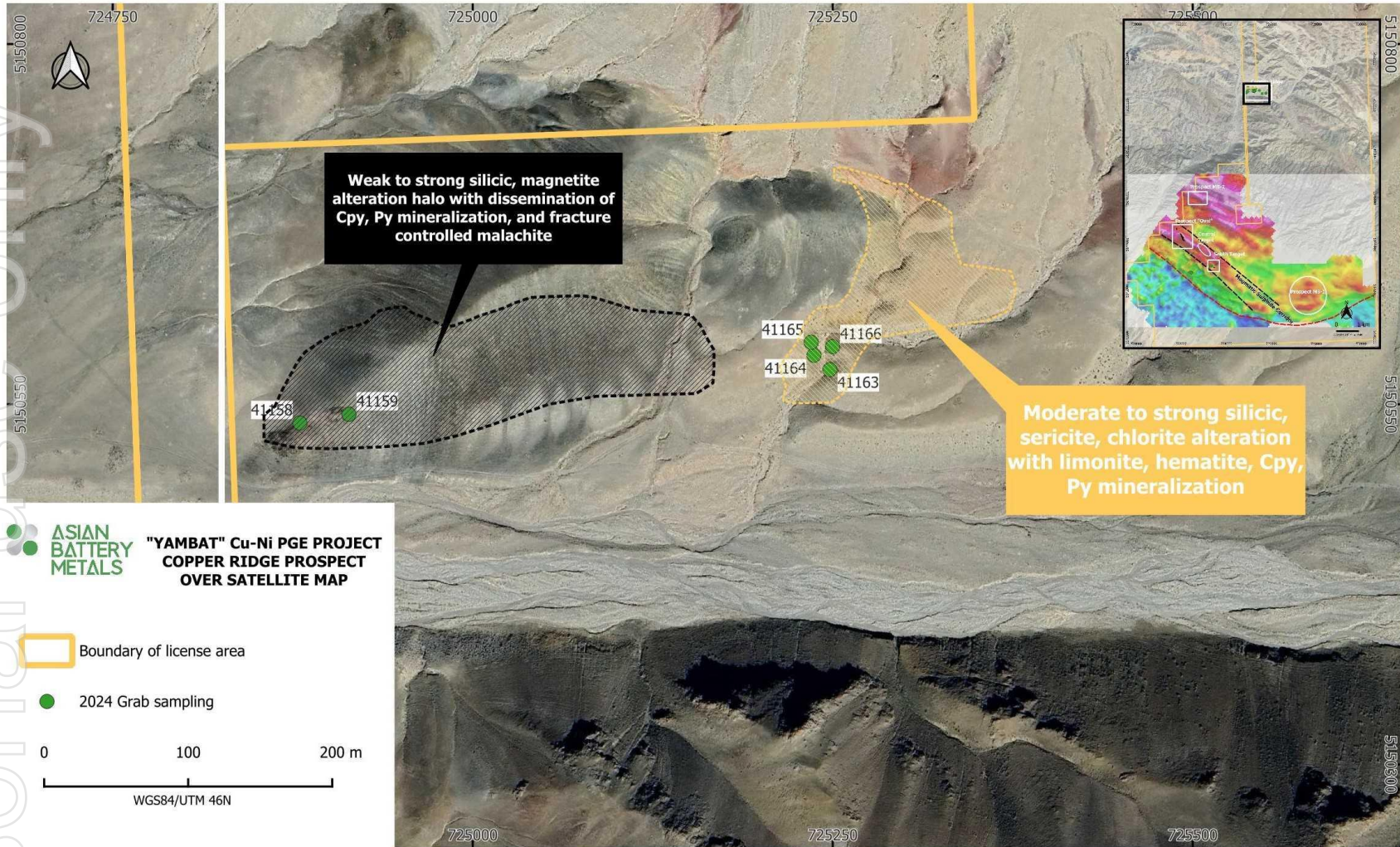
## Multiple regional targets for future exploration

- Pole-Dipole IP anomalies
  - Central Target
  - South Target
- AMT/CSAMT survey anomalies
  - Vertical 1
  - Vertical 2
- Gradient IP anomaly B
- Ground magnetic anomaly
  - MS1
  - MS2 (geochemistry)
- Gravity survey anomaly A and C
- Geochemical anomalies



# YAMBAT PROJECT- COPPER RIDGE COPPER PROSPECT

2024 Discovery of Cu-Au mineralisation

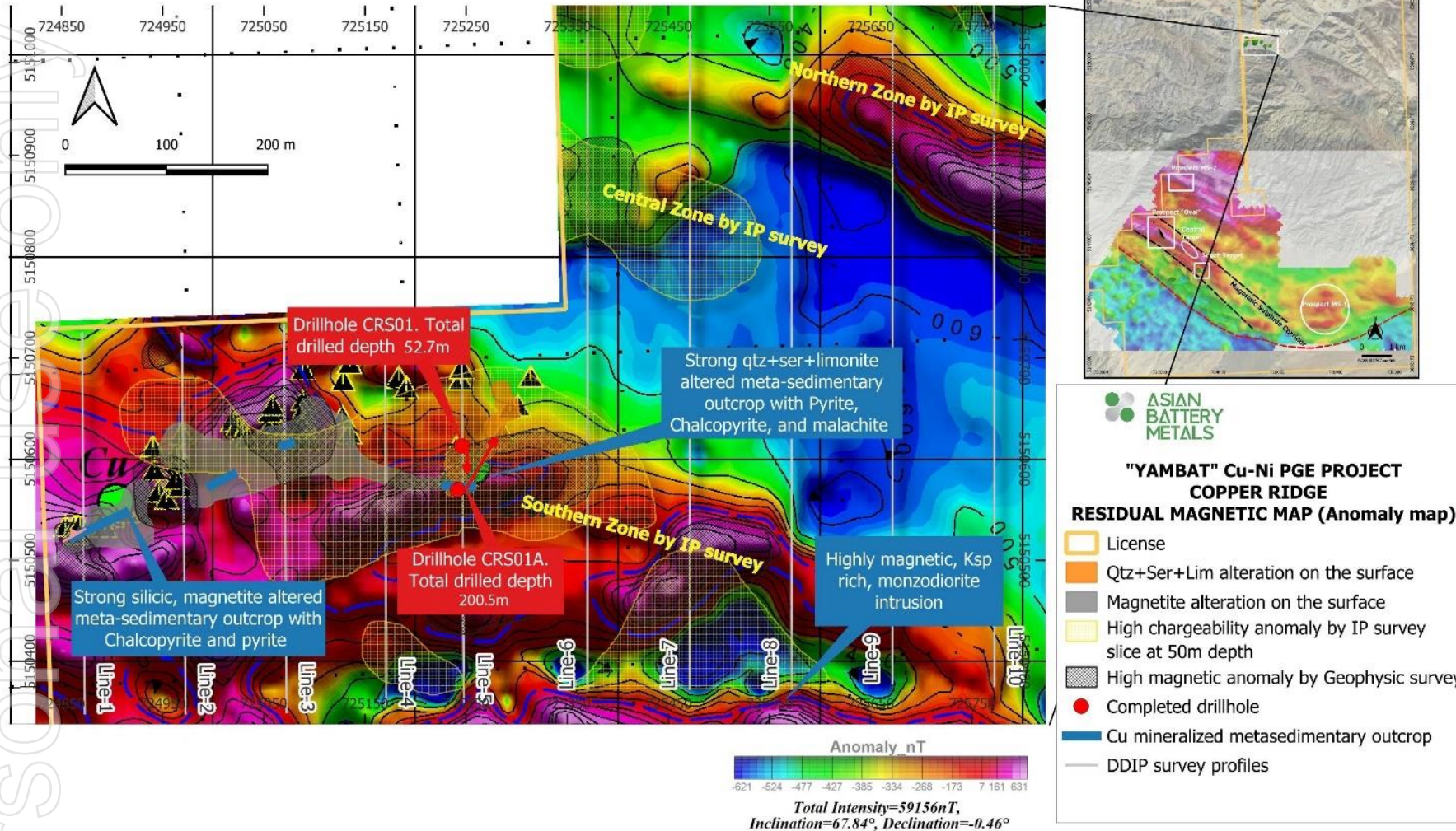


- Mineralised andesitic volcanic rocks, strongly silicified and magnetitic metasedimentary rock – **Fe (>10%) Cu (up to 0.4%) Au (up to 0.18 g/t)**
- Visible surface expression of **40-50 m** width, **500-700 m** in length.
- Weak to strong silicification and magnetite alteration
- Moderate to strong silicification, sericitisation and chloritization
- Mineral assemblage including Cpy - Mag - Py, and Malachite - Iron Oxide Copper Gold (IOCG) deposit type is considered likely.



# YAMBAT PROJECT- COPPER RIDGE COPPER PROSPECT

Prominent geophysical signatures

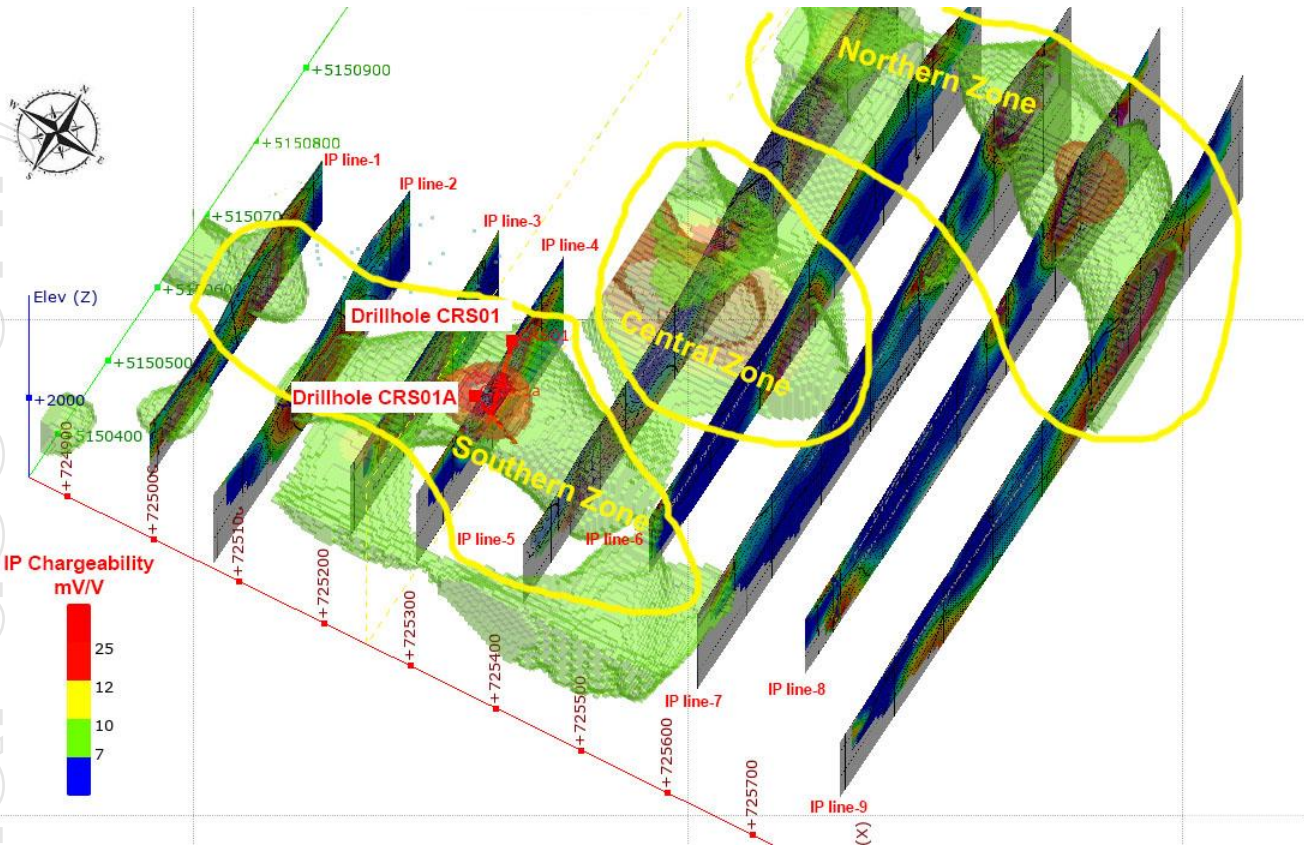


- Correlation of
  - High chargeability
  - High magnetic and metal factor anomalies
  - Surface mineralisation and geological features
- Detailed studies of DDIP and magnetics survey revealed multiple prominent anomalies
- Comprehensive geological and geophysical survey planned on Copper Ridge Cu-Au targets in 2024

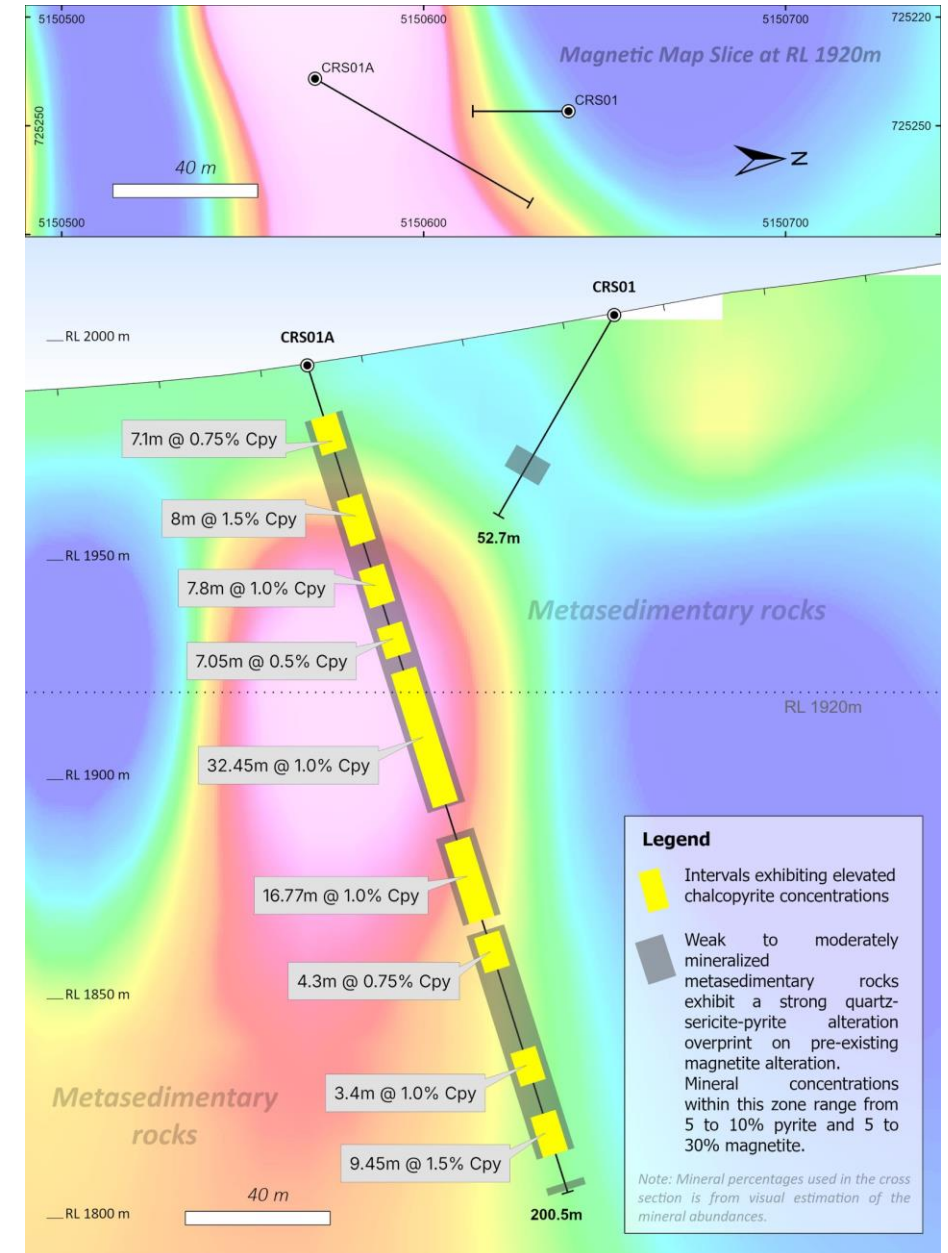


# YAMBAT PROJECT- COPPER RIDGE COPPER PROSPECT

Large mineralised system?!



Confirmed encouraging copper mineralisation intersects at Copper Ridge prospect to depth by scout drillhole CRS01A, within continuous anomalous copper for a downhole length of 200.4 m (Assays pending)





# KHUKH TAG GRAPHITE PROJECT

Advanced exploration on pathway to project studies

- CLOSE TO DEVELOPED INFRASTRUCTURE
- COMPETITIVE COST (TRANSPORTATION)
- LOW CAPEX MINE DEVELOPMENT OPTIONALITY
- RESOURCES OF 12.2MT @12.3% TGC (SEE SLIDE 14) AND ADDITIONAL EXPLORATION TARGET
- METALLURGICAL TEST AND OPTIMISED FLOWSHEET DEVELOPMENT IN 2024, BATTERY ANODE STUDY IN 2025
- PROGRESSING INTO REQUIRED STUDIES (GEIA, Hydrogeology)

**3300 m**

Completed diamond drilling

**682 pcs**

Graphite samples tested

**94-97% TGC**

Multiple regrinding and cleaning stages

**6.8sqkm**

Mapping and geophysical studies

**ESG**

Robust ESG program

**84.3-94.9**

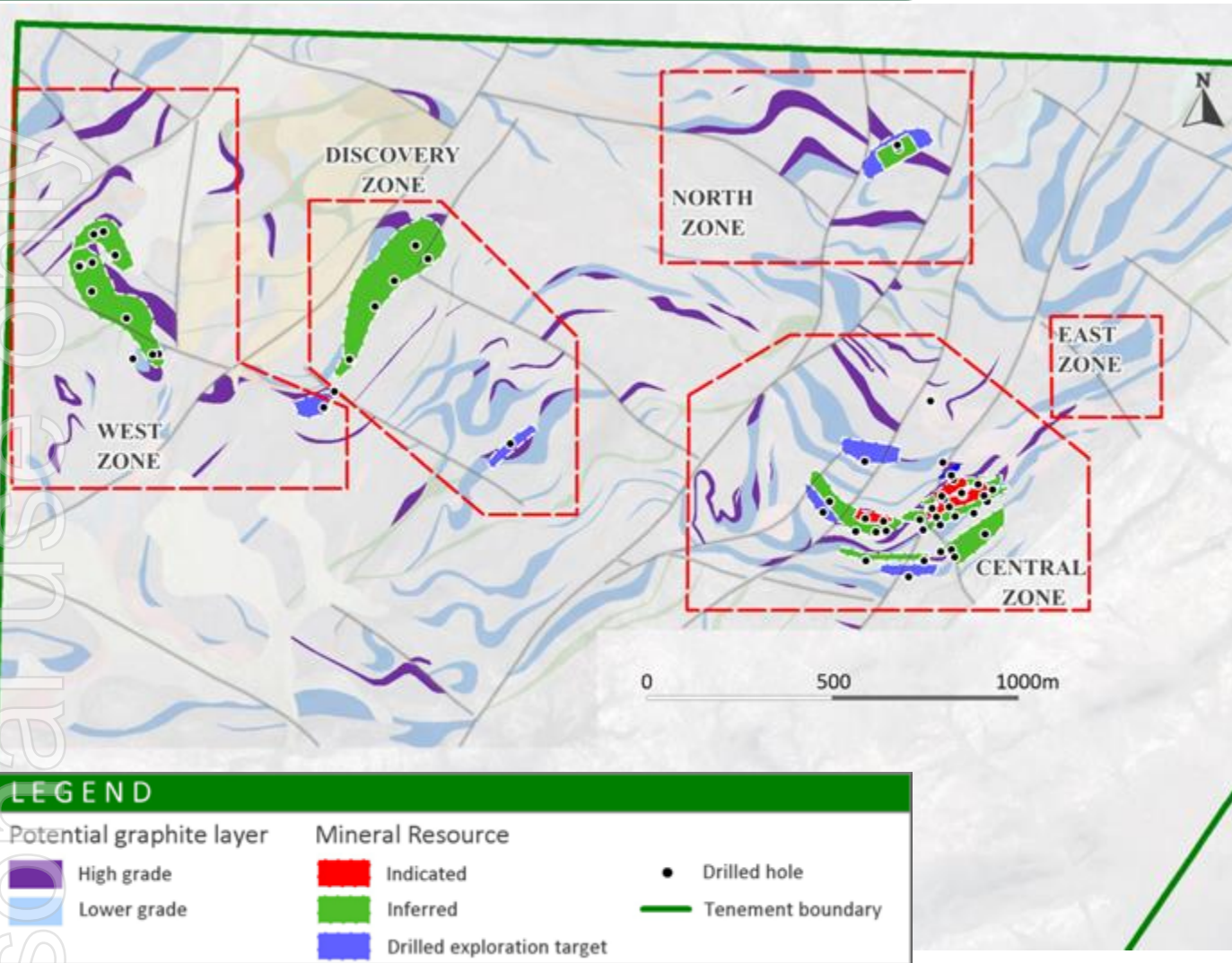
Indicative recovery





# KHUKH TAG GRAPHITE PROJECT

Potential of Resource Increase



## MINERAL RESOURCE ESTIMATION (in accordance with JORC 2012)

Items	Tonnes (Mt)	TGC (%)	Graphite (Kt)
Indicated (central)	1.4	13.9	197.7
Inferred	10.8	12.1	1301.1
<b>Total mineral resource</b>	<b>12.2</b>	<b>12.3</b>	<b>1498.8</b>
<b>Un-classified mineralisation exploration target<sup>(1)</sup></b>	<b>3.5-4.0</b>	<b>6-12</b>	<b>210-480</b>
<b>Exploration target</b>	<b>13.6-84.3</b>	<b>5.2-9.1</b>	<b>710-7600</b>

(1) Unclassified mineralisation zones were based on single drill hole intersections

## FLAKE SIZE DISTRIBUTION IN ORE

Classification	Sieve Size (µm)	% in Interval
Jumbo	>300	11.4
Large	180-300	19.3
Medium	150-180	15.7
Small	75-150	29.4
Fine	<75	24.2

## LAST DRILLHOLE RESULT (Drilled in 2022)

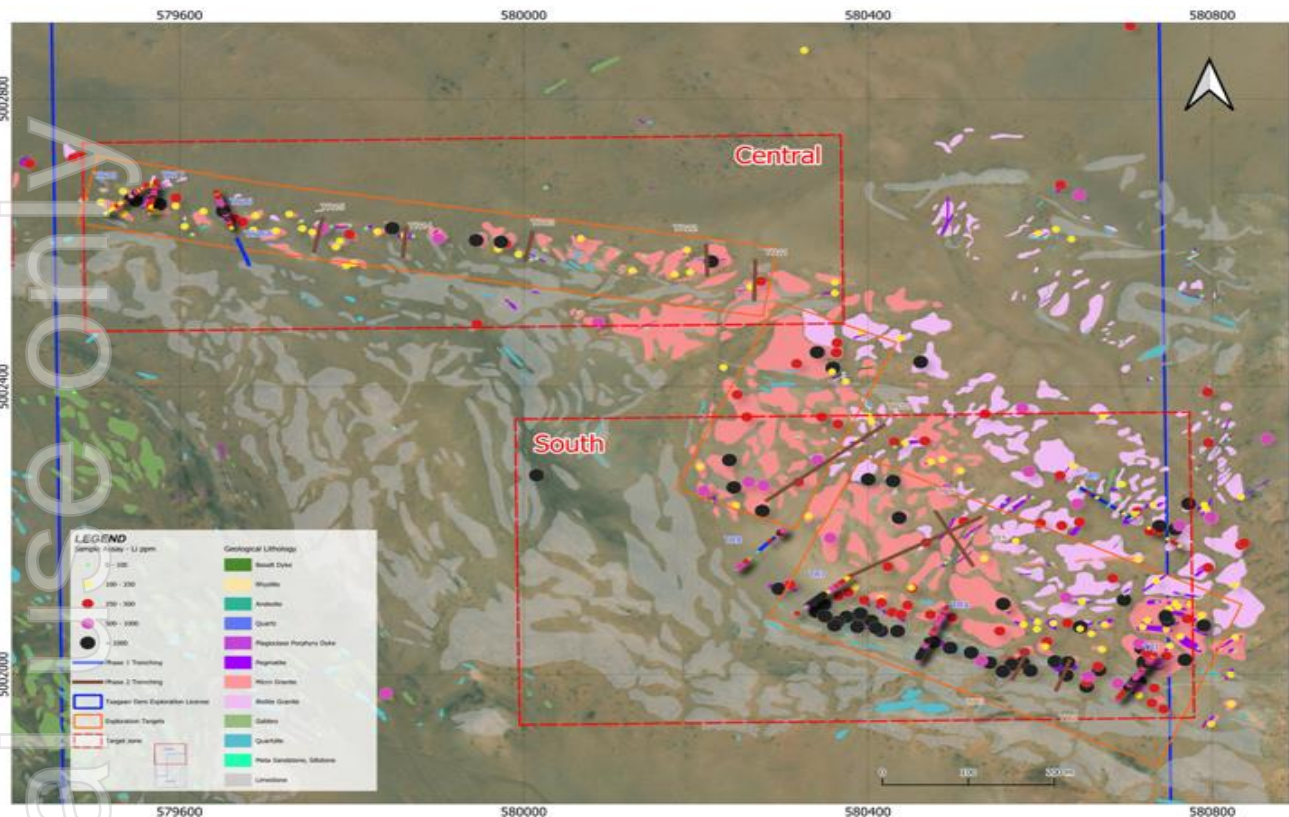
Discovered new orebody at North Zone, open along strike and down dip.

- 64.6m @17.9% in KHD55 (from 2.2m to 66.8m)



# TSAGAAN DERS LITHIUM PROJECT

Greenfield project with potential of discovery



**1194.5 m**

Trenching completed

**435 pcs**

Channel samples collected

**430 pcs**

Rock samples collected

**Mapping Targeting Drone survey**

**up to 1.47% Li<sub>2</sub>O**

Channel sampling assays  
Two targets

**up to 3.0% Li<sub>2</sub>O**

South and central zone  
Exploration target

- PEGMATOID DYKES WITH INDICATION OF LI-RB-BE-SN-CS MINERAL SYSTEM
- GRADE COMPARABLE TO OTHER LEPIDOLITE PROJECTS GLOBALLY
- LOCATED IN IDERMEG UPLIFT - MONGOLIA'S KNOWN LITHIUM PROSPECTIVE REGION
- TRENCHING RESULTS CONFIRMED DRILL TARGETS OVER 500 METERS IN TWO ZONES

## EXPLORATION TARGETS

750 m long x 50 m wide (Central zone) and 500 m long x 50 m wide (South zone) targets in the east and grades into two-mica granite.

Exploration target (grade of 0.2% to 1.0% Li<sub>2</sub>O)

Target	20m depth		50m depth		100m depth	
	Min	Max	Min	Max	Min	Max
Central zone	0.6Mt	1.4Mt	1.5Mt	3.4Mt	-	-
South zone	0.7Mt	1.4Mt	1.8Mt	3.5Mt	3.6Mt	7.1Mt
<b>Total</b>	<b>1.3Mt</b>	<b>2.8Mt</b>	<b>3.3Mt</b>	<b>6.9Mt</b>	<b>5.1Mt</b>	<b>10.5Mt</b>

*"The potential quantity and grade is conceptual in nature, there has been insufficient exploration to estimate a Mineral Resource and it is uncertain if further exploration will result in the estimation of a Mineral Resource."*



# INVESTMENT PROPOSITION

Trailblazing for critical mineral exploration in Mongolia

- ✓ **STRATEGIC LOCATION NEXT TO**
  - Largest EV and battery material producer
- ✓ **SIGNIFICANT EXPLORATION UPSIDE**
  - Under-explored area
  - Early-explorer advantage
  - Multiple projects (100%)
  - Regional database + Modern Technology
- ✓ **PROVEN JURISDICTION**
  - Established mining industry
  - Competitive royalty for battery minerals
- ✓ **EXPERIENCED PEOPLE**
  - Board of directors
  - Operation team + technical experts
- ✓ **COMMITMENT TO SUSTAINABILITY**
  - Risk management
  - Long-term view on community development
  - Better solution for the environment

"BLUE SKY" UPSIDE

## OVAL MAGMATIC SULFIDE (Cu-Ni) COPPER RIDGE IOCG (Cu-Au)

- Phase 2 exploration drilling on Oval Cu-Ni – Q4 2024
- Regional Exploration (geophysics, mapping, scout drilling) Oval Cu-Ni + Copper Ridge – Q3-Q4 2024
- Pending drill results from laboratory assays Q3 2024

IMM. IMPACT

## TSAGAAN DERS LITHIUM (Li-Rb-Sn)

- Geophysics and geology work – Q3 2024
- Potential trenching and drilling

CORE VALUE

## KHUKH TAG GRAPHITE

- Exploration at newly discovered North Zone – Q4 2024
- Battery anode suitability test – Q1 2025
- Development of mineral processing flowsheet – Q4 2024
- Potential update to growing resource of 12.2Mt @ 12.3% TGC

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