## XANADU MINES

#### ASX/TSX ANNOUNCEMENT

By electronic lodgement | Page 1 of 1

### **RIU Presentation**

9 May 2023

**ASX Markets Announcement Office Exchange Centre** 20 Bridge Street Sydney NSW 2000

#### **RIU Sydney Resources Round-up Presentation**

Please find attached for release to the market, Xanadu Mines Ltd's Presentation to the RIU Sydney Resources Round-up, being held 9 -11 May 2023.

-ENDS-

#### For further information, please contact:

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For information on Xanadu visit: www.xanadumines.com.

This Announcement was authorised for release by Xanadu's Executive Chairman and Managing Director.

## XANADU MINES



RIU Sydney Resources Round-Up Conference Presentation

9-11 May 2023



## **Disclaimer**

#### **Cautionary Statements**

The Study has been undertaken to assess viability of developing the Kharmagtai Copper-Gold Project by constructing an open cut mine and processing facility to produce copper concentrate for export. It is a preliminary technical and economic Study of the potential viability of the Kharmagtai Project. It is based on low level technical and economic assessments that are not sufficient to support the estimation of ore reserves. Further exploration and evaluation work and appropriate studies are required before Xanadu will be in a position to estimate any ore reserves or to provide any assurance of an economic development case. The Study is based on the material assumptions in this document. These include assumptions about the availability of funding. While Xanadu considers all of the material assumptions to be based on reasonable grounds, there is no certainty that they will prove to be correct or that the range of outcomes indicated by the Study will be achieved. To achieve the range of outcomes indicated in the Study, funding of in the order of US\$700 million will likely be required. Investors should note that there is no certainty that Xanadu will be able to raise that amount of funding when needed. It is also possible that such funding may only be available on terms that may be dilutive to or otherwise affect the value of Xanadu's existing shares. It is also possible that Xanadu could pursue other 'value realisation' strategies such as a sale, partial sale or joint venture of the project. If it does, this could materially reduce Xanadu proportionate ownership of the project. Given the uncertainties involved, investors should not make any investment decisions based solely on the results of the Study. There is a low level of geological confidence associated with inferred mineral resources and there is no certainty that further exploration work will result in the determination of indicated mineral resources or that the production target itself will be realised. The Study is based on the December 2021 Mineral Resource Estimate, is based on low-level technical and economic assessments, and is insufficient to support estimation of Ore Reserves or to provide assurance of an economic development case at this stage, or to provide certainty that the conclusions of the Study will be realised. The Study has been completed to a level of accuracy of +/-35% in line with industry standard accuracy for this stage of development. The Company has reasonable grounds for disclosing a Production Target, given that in the first seven years of production, 100% of the mill feed is scheduled from the Indicated Resource category, which exceeds the economic payback period for the project by 3 years. Approximately 55% of the Life of Mine Production Target is in the Indicated Mineral Resource category, and 45% is in the Inferred Mineral Resource category. There is a lower level of geological confidence associated with Inferred Mineral Resources, and while the Company considers all the material assumptions in this Study to be based on reasonable grounds, there is no certainty that they will prove to be correct or that the range of outcomes indicated will be achieved. The Mineral Resources underpinning the production target in the Study have been prepared by a Competent Person in accordance with the requirements of Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code 2012). The Competent Person's Statement is found in the Geology and Resources section of this Study. For full details of the Mineral Resource Estimate, please refer to Xanadu ASX/TSX Announcement dated 25 February 2022. Xanadu confirms that it is not aware of any new information or data that materially affects the information included in that release. All material assumptions and technical parameters underpinning the estimates in that Announcement continue to apply and have not materially changed. Note that unless otherwise stated, all currency in this Study is US dollars.

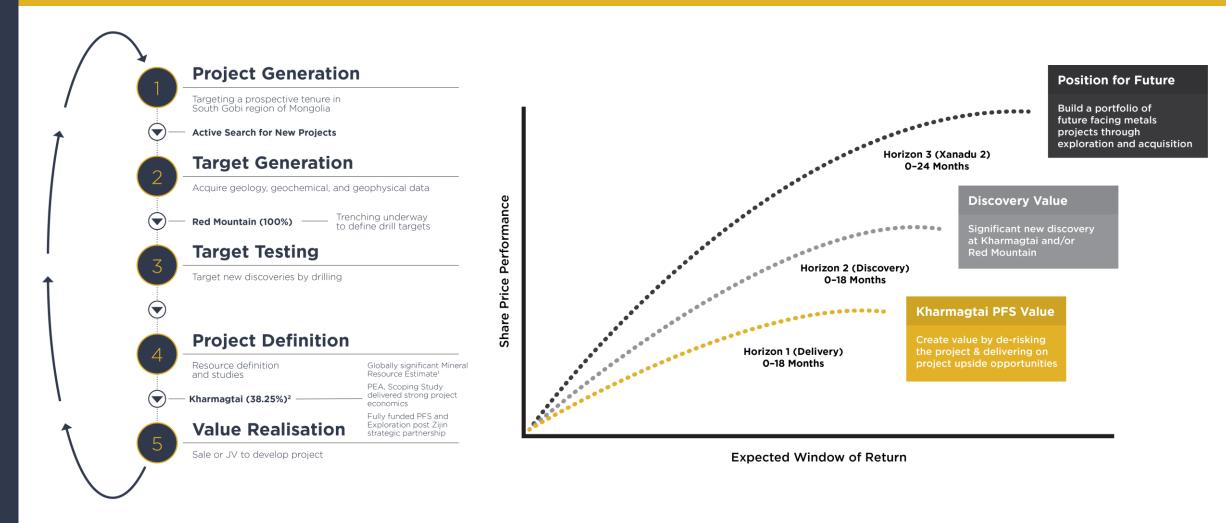
#### **Forward Looking Statements**

Certain statements contained in this Study, including information as to the future financial or operating performance of Xanadu and its projects may also include statements which are 'forward-looking statements' that may include. amongst other things, statements regarding targets, estimates and assumptions in respect of mineral reserves and mineral resources and anticipated grades and recovery rates, production and prices, recovery costs and results, capital expenditures and are or may be based on assumptions and estimates related to future technical, economic, market, political, social and other conditions. These 'forward-looking statements' are necessarily based upon a number of estimates and assumptions that, while considered reasonable by Xanadu, are inherently subject to significant technical, business, economic, competitive, political and social uncertainties and contingencies and involve known and unknown risks and uncertainties that could cause actual events or results to differ materially from estimated or anticipated events or results reflected in such forward-looking statements. Xanadu disclaims any intent or obligation to update publicly or release any revisions to any forward-looking statements, whether as a result of new information, future events, circumstances or results or otherwise after the date of this Study or to reflect the occurrence of unanticipated events, other than required by the Corporations Act 2001 (Cth) and the Listing Rules of the Australian Securities Exchange (ASX) and Toronto Stock Exchange (TSX). The words 'believe', 'expect', 'anticipate', 'indicate', 'contemplate', 'target', 'plan', 'intends', 'continue', 'budget', 'estimate', 'may', 'will', 'schedule' and similar expressions identify forward-looking statements. All 'forward-looking statements' made in this Study are qualified by the foregoing cautionary statements. Investors are cautioned that 'forward-looking statements' are not a quarantee of future performance and accordingly investors are cautioned not to put undue reliance on 'forward-looking statements' are not a quarantee of future performance and accordingly investors are cautioned that 'forward-looking statements' are not a quarantee of future performance and accordingly investors are cautioned that 'forward-looking statements' are not a quarantee of future performance and accordingly investors are cautioned that 'forward-looking statements' are not a quarantee of future performance and accordingly investors are cautioned that 'forward-looking statements' are not a quarantee of future performance and accordingly investors are cautioned that 'forward-looking statements' are not a quarantee of future performance and accordingly investors are cautioned that 'forward-looking statements' are not a quarantee of future performance and accordingly investors are cautioned that 'forward-looking statements' are not a quarantee of future performance and accordingly investors are cautioned that 'forward-looking statements' are not a quarantee of future performance and accordingly investors are not a quarantee of future performance and accordingly investors are not a quarantee of future performance and accordingly investors are not a quarantee of future performance and accordingly investors are not a quarantee of future performance and accordingly investors are not a quarantee of future performance and accordingly investors are not a quarantee of future performance and accordingly investors are not a quarantee of future performance and accordingly investors are not a quarantee of future performance and accordingly investors are not a quarantee of future performance and accordingly investors are not a quarantee of future performance and accordingly investors are not a quarantee of future performance and accordingly investors are not accordingly investors and accordingly investor looking statements' due to the inherent uncertainty therein. Xanadu has concluded that it has a reasonable basis for providing these forward-looking statements and the forecast financial information included in this Study. To achieve the range of Kharmagtai Copper-Gold Project outcomes indicated in the 2022 Study, funding of in the order of an approximately US\$700 million will likely be required by the Company. Based on current market conditions and the results of studies undertaken, there are reasonable grounds to believe the Project can be financed via a combination of equity and debt, as has been done for numerous comparable projects in Mongolia and other jurisdictions in Asia in recent years. Debt may be secured from several sources including Australian banks, international banks, the high yield bond market, resource credit funds, and in conjunction with product sales of offtake agreements. It is also possible the Company may pursue alternative funding options, including undertaking a corporate transaction, seeking a joint venture partner or partial asset sale. There is, however, no certainty that Xanadu will be able to source funding as and when required. Whilst no formal funding discussions have concluded, the Company has engaged with several potential financiers of the Kharmagtai Copper-Gold Project and these financial institutions and corporations have expressed an interest in being involved in funding of the Project. This ASX Study has been prepared in compliance with the current JORC Code (2012) and the ASX Listing Rules. All material assumptions, including sufficient progression of all JORC modifying factors, on which the production target and forecast financial information are based have been included in this ASX Study.

ASX:**XAM** | TSX:**XAM** 

## **Creating Value from Discovery Driven Growth in Mongolia**

### Copper/Gold Focus & Positioning for Battery Minerals Future



## **Strategic Overview**

## Creating Value Across 3 Horizons

# Horizon 1 - Kharmagtai Project De-Risking Ahead of Financial Investment Decision

- The Next Large-Scale Mongolian Copper Development
- First quartile copper industry costs for first 5 years at ~US\$1/lb copper¹
- Funded for PFS Completion including 30,000m infill & expansion drilling programme, with US\$35M cash in the bank
- Xanadu's Partner Zijin provides balance sheet, construction experience and operating capability

### **Horizon 2 - World Class Discovery**

- Aggressive 24,000m discovery exploration programme underway at Kharmagtai<sup>2</sup>
- Future exploration planned at highly Prospective Red Mountain Project

3 Assumes all performance options are 'in the money'

1 ASX/TSX Announcement 6 April 2022 - Scoping Study - Kharmagtai Copper-Gold Project

2 ASX/TSX Announcement 13 April 2023 - Kharmagtai Pre-Feasibility Drilling Commences

### **Horizon 3 - Organic Growth**

 Positioned to build a portfolio of future facing commodities (copper, nickel, and lithium) in Mongolia



## **Proven Board & Management Team**

### **Board**



Colin Moorhead Executive Chairman &

**Managing Director** 



Ganbayar Lkhagvasuren

Country Manager & Executive Director



Michele Muscillo

Non-executive Director



Tony Pearson

Non-executive Director



Shaoyang Shen

Non-executive Director (Nominated by Zijin)

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### Management



Munkhsaikhan Dambiinyam

Chief Operating Officer



Andrew Stewart

Vice President Exploration



Mat Brown

**Chief Geologist** 



Spencer Cole

Chief Development Officer Chief Financial Officer



Guodong Yu

Deputy General Manager, Kharmagtai Project (On secondment from Zijin) Our Board and management team are highly experienced with a track record of discovering & developing successful porphyry copper-gold mines.

- Mongolia Expertise
- Deep Exploration Skills
- Experienced Developers of Porphyry Deposits
- Significant Commercial and Deal Making Capability

## **Sustainability is Core to Our Business**

Supporting Mongolia to Develop Mining in South Gobi Region

# Sustainability is Our Everyday

Act in a Transparent and Ethical Manner Create Value and Develop, Maintain Strong Relationships with all Stakeholders

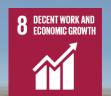
**Ensure Safe and Healthy Operations** 

Minimise Current and Future Environment Footprint

















## Mongolia is our Competitive Advantage

Proven & emerging mining jurisdiction with excellent infrastructure

**Scale of Deposits** – Multiple globally significant discoveries, still underexplored

**Location** – On China's doorstep, the key global copper consumer, with lots of land and a sparse population

**Infrastructure** – Next door to Rio's Oyu Tolgoi, with established grid power, roads, rail and water

**Mining Culture** – Mining represents 21% of GDP, 85% of exports, and there are >40,000 Mongolian mining professionals in the workforce

**Stable and Democratic** – With a 30 year history of democratic elections and 98% literacy rate

**Local Knowledge** - Deep knowledge of the geography and demonstrated ability to operate in Mongolia



## **Majors Investing in Mining's Last Frontier**

Mongolian Exposure Initiated or Increased by International Miners

BHP re-entered Mongolia in Jan 2023 via its Xplor Accelerator Program. Xplor investing to accelerate exploration discovery growth for Asian Battery Minerals, who owns 3 critical minerals projects in Mongolia<sup>1</sup>

Rio Tinto bought remainder of Oyu Tolgoi Copper Gold Project, via acquisition of remaining 49% interest in Turquoise Hill Resources for \$3.3 billion in **Dec 2022**<sup>2</sup>

**Zijin Mining made inaugural investment in Mongolia**, via its Strategic Partnership with Xanadu Mines in **Mar 2023**<sup>3</sup>



RioTinto



<sup>&</sup>lt;sup>1</sup> https://www.bhp.com/news/articles/2023/01/bhp-xplor-selects-seven-companies-to-help-accelerate-copper-and-nickel-exploration, https://asianbatteryminerals.com.au/projects/

<sup>&</sup>lt;sup>2</sup> https://www.riotinto.com/en/news/releases/2022/rio-tinto-acquisition-of-turquoise-hill-receives-shareholder-support

<sup>&</sup>lt;sup>3</sup> ASX/TSX Announcement 13 March 2023– Zijin & Xanadu Transaction Completed

## Strategic partnership with Zijin Mining Group

## Zijin Aiming to be World Top 3 Copper & Gold Producer

### **Quality Discoveries Brought to Production**

- Ownership in 3 of Top 10 newly discovered copper project over past 20 years, which are now successful operating mines:
  - #1 Kamoa-Kakula Cu (DRC)
  - #4 Timok Cu Au (Serbia)
  - #6 Julong Cu (Tibet)
- Majority of other discoveries yet to achieve producer status

## **Expanding Major Assts**

- Accelerating multi phased mine expansions at Kamoa-Kakula & Julong
- Developing large-scale underground at Timok Lower Zone

## **Continuing Growth Investment**

- Increase Mineral Resources investment in China & neighbouring countries
- Focus on developing & acquiring scalable mining projects to deliver significant future impact



## The Next Large-Scale Mongolian Copper Development



### **Large Resource**

1.1Bt containing 3Mt Cu & 8Moz Au incl. >100Mt higher-grade zone<sup>1</sup>

- Resource still open at depth & along strike
- · New high-grade bornite intercepts extended mineralisation post 2021 Resource model <sup>2</sup>



### **High Quality Project**

PEA / Scoping Study<sup>3</sup> delivers US\$630M NPV; 4-yr payback & 20% IRR

- 30-yr mine life; producing 50ktpa copper & 110kozpa gold
- First quartile AISC for first 5 years



### **Well Funded**

US\$35M completes PFS & enables continued Discovery **Exploration** 

· Strategic partnership with Zijin Mining Group<sup>4</sup>

1 ASX/TSX Announcement 8 December 2021 - Kharmagtai Resource Grows to 1.1 Billion Tonnes

2 ASX/TSX Announcement 1 December 2021 - Further Extensions to High Grade Zones at Stockwork Hill

3 ASX/TSX Announcement 6 April 2022 - Scoping Study - Kharmagtai Copper-Gold Project; includes appropriate economic ranges

4 ASX/TSX Announcement 13 March 2023 - Zijin & Xanadu Transaction Completed & Kharmagtai PFS underway

# Kharmagtai

# Our Flagship Project





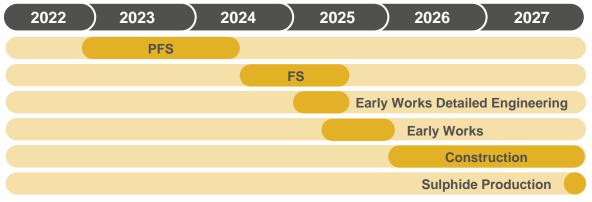
## Horizon 1 - Kharmagtai Copper-Gold Project

### De-Risk & Progress Project Towards Commercial Production

### **Kharmagtai Pre-Feasibility Study**

- Funded by Khuiten JV with Zijin<sup>1</sup>
- Uplift Value via metallurgy, processing and mining technology upside studies
- Select single go-forward design
- Deliver upgraded Mineral Resource and Maiden Ore Reserve
- Progress de-risking of regulatory and social license to operate
- Enable Decision to Mine in 2024

### On track to achieve production in Q4 CY2027



There is no further cash required until decision to construct at the end of 2024.

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Construction

Sulphide Production

Sulphide Production

JV cash funds both Xanadu's and Zijin's portion of each activity.

#### Q2-Q3 CY2023

Data Acquisition (Infill drilling & metallurgy)

#### Q4 CY2023

Trade-Off Studies & Resource Update (Upside study & major decisions)

#### Q1-Q2 CY2024

Convergent Study (Engineering & design)

#### Q3 CY2024

PFS Completion & Maiden Ore Reserve (Reporting to JORC & NI43-101 codes)

## **Undervalued & Funded Production Certainty**

## XAM vs ASX Copper Developer Peers

				Metal Conversion =		EV M	EV Metrics <sup>1,2</sup>					First Production				
		Project Stage	LOM Cu Production (Mt) <sup>1</sup>	LOM Cu Production/Cu	EV (A\$M) <sup>2</sup>	Cu Resource	LOM Cu Production	Strip Ratio	Route to Funded Commercial Production	2025		2026		2027		2028
				Resource		A\$/t	A\$/t			Q1 Q2 Q:	3 Q4 Q1	Q2 Q3	Q4 Q1	Q2 Q3	Q4 Q1	Q2 Q3 Q4
XANADU MINES	Kharmagtai Porphyry	PFS	1.5	50%	34	11	23	1.1	Option to be fully funded via direct loan <sup>4</sup> priced at 9.42% <sup>5</sup> with partner, Zijin. If selected by XAM, NO Equity Raising required.							
hot chili	Costa Fuego Porphyry <sup>3</sup>	PEA/ Scoping	2.0	60%	112	33	56	1.5	Debt + Equity.  Offtake agreement for 60% of concentrate produced over first 8yrs, with partner, Glencore (right subject to maintaining +7.5% HCH holding). <sup>6</sup>							
CARAVEL	Caravel Porphyry <sup>7</sup>	DFS	1.7	58%	102	36	61	1.3	Seeking Partner + Debt + Equity							
REX Aftervals LE	Hillside IOCG <sup>8</sup>	Financing	1.5	79%	135	71	91	6.9	50-60% Debt + Seeking Partner + Equity							
Ave	erage			58%	85	42	72	3.0								
XAM Trading Dis	scount vs Average					73%	69%									

<sup>1</sup> LOM production & EV metrics exclude impact of by products given endowment of peers is comparatively minimal. XAM has 8Moz Gold Resource, producing 3.3Moz gold in concentrate over LOM

<sup>2</sup> EV as at 3 May 2023 EV = Market Capitalisation - 100% Cash - Equity proportion of JV Cash

<sup>3</sup> Inline with recent Company Disclosure, production data represents Costa Fuego Porphyry PEA guidance, not 2016 Productora PFS

<sup>4</sup> XAM repays loan to Zijin at commencement of commercial production. Please refer to Debt Funded Production Pathway Offers Prudent Approach in Appendix.

<sup>5</sup> Interest variably priced at 6-month tenor SOFR + 5% pa. 6-month SOFR = 4.42% (as at 3 May 2023, https://www.newyorkfed.org/markets/reference-rates/sofr-averages-and-index).

<sup>6</sup> https://www.hotchili.net.au/wp-content/uploads/2022/03/HCH 21 Hot-Chili-and-Glencore-in-Copper-Offtake-Partnership 03032022.pdf

<sup>7</sup> Inline with recent Company Disclosure, production data sourced from both Caravel PFS Processing Update (latest update), and Caravel PFS (original)

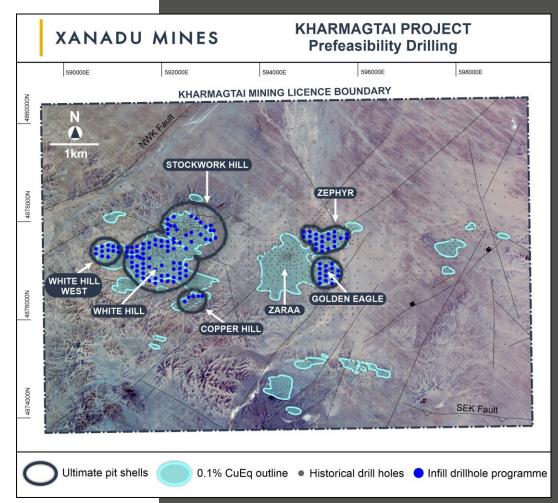
<sup>8</sup> Inline with Company Disclosure, production data sourced from Hillside DFS (production stage 1), and Hillside Ore Reserve (production stages 1 & 2)

<sup>9</sup> Benchmark Data included in Appendix, with data sourced from Company Disclosures

## Significant Resource Upside

## Kharmagtai infill and delineation drilling off to a flying start

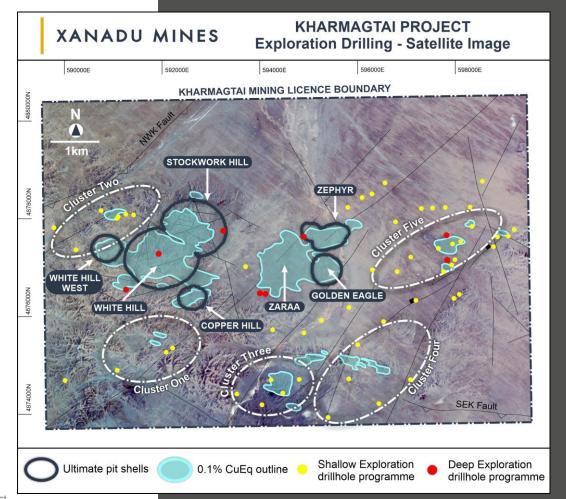
- Drilling designed to upgrade, improve and grow the large Kharmagtai open-pit resource, supporting delivery of our PFS and a Maiden Ore Reserve
- 30,000-metre infill & expansion diamond drill programme to support the Pre-Feasibility Study (PFS) is well-underway<sup>1</sup>
- Drilling targets shallow open pit Mineral Resource areas for upgrade to Indicated Resource classification and to extend strike length
- Upgraded Mineral Resource Estimate is due for completion in Q4 CY23
- Detailed PFS geometallurgical, geotechnical, open-pit mining and infrastructure studies have commenced



## **Drilling for New Discoveries at Kharmagtai**

## Aggressive growth & discovery drill programme underway

- Five unexplored porphyry cluster identified within the Kharmagtai district
- Existing geochemical, geological and geophysical data point to the resources at Kharmagtai (+1Bt) being the shallow surface expression of a much larger porphyry system<sup>1</sup>
- 24,000-metre discovery exploration programme is underway at the Kharmagtai copper-gold project<sup>2</sup>
- One diamond drill rigs targeting:<sup>3</sup>
  - Shallow high-grade open pitable resources
  - Large-scale high-grade potential beneath the existing resources

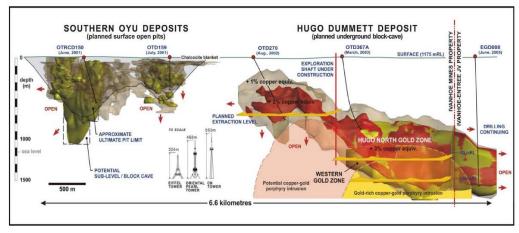


## **Exploration Upside Remains - Example**

## Higher-grade depth limit untested; targeting a "Hugo North" analogue

### Kharmagtai vs Hugo North

Factor	Hugo North (HN) <sup>1</sup>	Kharmagtai (KH)	KH vs HN Scorecard
Mineralisation	Stockwork with bornite rich core, zoning to chalcopyrite & pyrite	Stockwork Hill has bornite rich core, zoning to chalcopyrite & pyrite	$\checkmark$
Cu & Au Grades	Starts below 900m and increases to the north.	Starts at surface and increases with depth	
Au : Cu Ratio <sup>2</sup>	<ul> <li>Up to 1:10 in south</li> <li>Up to 1:1 in north</li> <li>Best Au grades associated with bornite</li> </ul>	<ul> <li>Up to 2:1 at surface</li> <li>Up to 5:1 at depth</li> <li>Higher Au grades (avg 3:1) in bornite zone</li> </ul>	
Depth	Starts at 800 – 900m	Limited drilling below 800m	X



Kharmagtai - Mineralisation Stockwork Hill White Hill West **Golden Eagle** Stockwork High-grade zone - open Tourmaline Breccia High-grade zone Golden Eagle Oxide Porphyry High-grade zone White Hill West Zaraa Porphyry Porphyry High-grade White Hill Porphyry High-grade High-grade zone Copper Hill Porphyry High-grade zone

Hugo North Mineralisation<sup>3</sup> – Starting Depth ~800m

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Kharmagtai Mineralisation – Limits of Drilling ~800m

¹ https://www.researchgate.net/publication/276086472\_The\_Giant\_Oyu\_Tolgoi\_Porphyry\_Copper-Gold\_Deposit\_Discovery\_History\_and\_Exploration\_Implications\_South\_Gobi

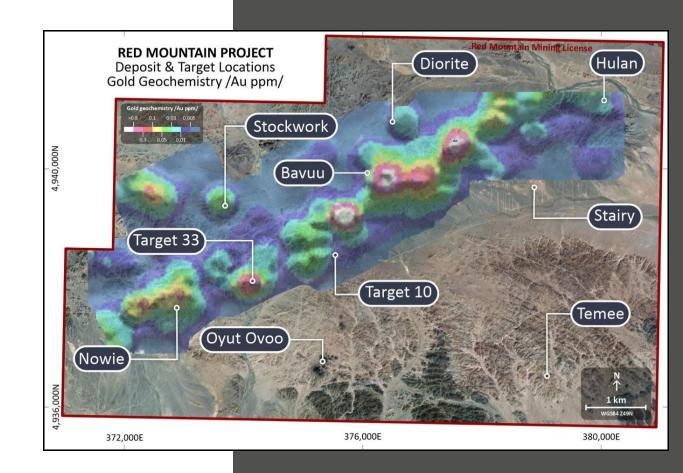
snown as Au (g/t): Cu (%)

<sup>3</sup> http://www.cmi-capital.com/Doc\_Server/SEEGF\_Docs/Kirwin/1-OT%20Discovery%20&%203SEG-Europe-10%20Sep%202006.pdf

## **Red Mountain Exploration**

## Large under explored Porphyry copper-gold district

- Granted Mining Licence
- Multiple co-genetic porphyry gold and copper centres, mineralised tourmaline breccia pipes, gold and copper base metal magnetite skarns and epithermal gold veins
- Shallow, high-grade gold & copper-gold mineralisation
  - 4 mineralised Cu-Au systems
  - 2 epithermal Au-Ag systems
- New target generation completed
- Exploration in 2023 targeting smaller scale, high-grade deposits enabling lower capex development



## Position & Explore for 'Future Facing' Elephant Deposits

## Leverage Competitive Advantage with Expanded Battery Materials Remit

- Incubate portfolio of high quality projects through exploration, development and acquisition
- Future facing commodities: copper, nickel & lithium
- South Gobi largely underexplored for battery minerals
- Using modern exploration techniques, we expect high potential for major discoveries
- Our broader exploration pursuit will enable us to leverage our South Gobi expertise, to discover and define the next major battery mineral deposits



## Xanadu Highlights



#### **World Class**

Globally significant scale, low strip open-pit project in proven and growing mining jurisdiction of Mongolia. 1.1Bt containing 3Mt Cu & 8Moz Au Resource, incl. >100Mt higher-grade zone<sup>1</sup>



### **De-risked Project + Significant Exploration Upside**

Strategic partnership with Zijin US\$35M completes PFS & enables continued discovery exploration<sup>2</sup>



### **ESG** is Our Everyday

Sustainability is core to our business. Strong social license to operate, ESG integrated into business practices and supportive shareholders



### **Growth + Exploration is Our DNA**

A formidable track record of discovery and deep Mongolian experience. Ongoing discovery exploration at Kharmagtai retains significant upside potential, and actively expanding portfolio with projects aimed at future facing battery minerals





# Contact

Keep up to date with us



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## **Colin Moorhead**

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**CFO and Chief Development Officer** 

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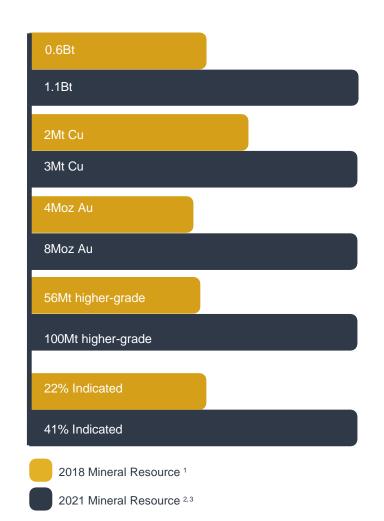
## Kharmagtai Copper Resource Globally Significant

### 2021 Resource added 61,500m to the 2018 resource model

- Larger: Scale increase 0.6Mt to 1.1Mt, plus doubled higher-grade zones (>0.8% CuEq)
- Better Defined: Indicated classification increase from 22% to 41%
- Higher Value: Doubled gold by-product from 4Moz to 8Moz
- Still Has Upside: Strong growth potential at depth and along strike

	Resource	0.45		<b>T</b>	(	Grades		Contained Metal				
Res		Cutoff (% CuEq)	Classification	Tonnes (Mt)	CuEq (%)	Cu (%)	Au (g/t)	CuEq (Mlbs)	CuEq (kt)	Cu (kt)	Au (koz)	
20	20211	0.2(OC)	Indicated	455	0.4	0.3	0.2	4,078	1,850	1,250	3,700	
20		0.3(UG)	Inferred	664	0.3	0.2	0.2	5,140	2,330	1,680	4,100	
20	00402	0.3(OC)	Indicated	131	0.5	0.4	0.4	1,570	710	480	1,500	
2018 <sup>2</sup>	0.5(UG)	Inferred	477	0.4	0.3	0.2	4,350	1,970	1,500	2,930		

<sup>&</sup>lt;sup>1</sup> ASX/TSX Announcement 18 December 2018 – Technical Report to support Kharmagtai Mineral Resource



<sup>&</sup>lt;sup>2</sup> ASX/TSX Announcement 28 February 2022 – Kharmagtai Technical Report

<sup>&</sup>lt;sup>3</sup> ASX/TSX Announcement 8 December 2021 – Kharmagtai Resource Grows to 1.1 Billion Tonnes

<sup>&</sup>lt;sup>4</sup> ASX/TSX Announcement 1 December 2021 – Further Extensions to High Grade Zones at Stockwork Hill

## **Competent Person's Statement**

The Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (the 'JORC Code 2012') sets out minimum standards, recommendations and guidelines for Public Reporting in Australasia of Exploration Results, Mineral Resources and Ore Reserves. The Information contained in this announcement has been presented in accordance with the JORC Code 2012.

Mineral Resources: The information in this announcement that relates to Mineral Resources is based on information compiled by Mr. Robert Spiers who is responsible for the Mineral Resource estimate. Mr Spiers is a full-time Principal Geologist employed by Spiers Geological Consultants (SGC) and is a Member of the Australian Institute of Geoscientists with sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity he is undertaking to qualify as the "Qualified Person" as defined in the CIM Guidelines and National Instrument 43-101. Mr Spiers consents to the inclusion in the report of the matters based on this information in the form and context in which it appears.

**Exploration Results:** The information in this announcement that relates to Exploration Results is based on information compiled by Dr Andrew Stewart who is responsible for the exploration data, comments on exploration target sizes, QA/QC and geological interpretation and information. Dr Stewart, who is an employee of Xanadu and is a Member of the Australasian Institute of Geoscientists, has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity he is undertaking to qualify as the "Competent Person" as defined in the 2012 Edition of the "Australasian Code for Reporting Exploration Results, Mineral Resources and Ore Reserves" and the National Instrument 43-101. Dr Stewart consents to the inclusion in the report of the matters based on this information in the form and context in which it appears.

## **Benchmark Data**

## **ASX Copper Developers**

Project			Resource			Cut-off Grade	Resource Date	
Project	Cu Mt	Au Moz	Ag Moz	Co kt	Mo kt	% Cu	Resource Date	
Kharmagtai Porphyry	3.01	8.00				0.23	Dec-21 <sup>1</sup>	
Costa Fuego Porphyry	3.36	2.92	12.52		80.80	0.21	Mar-22	
Caravel Porphyry	2.84				38.00	0.10	Nov-21	
Hillside IOCG	1.90	1.53				0.2	Dec-22	

		Ore Processing		Copper Production										
Project	Strip Ratio	Throughput	First 5 Years Steady State Annualised			LOM	LOM Production					Reported Level of Study	Report Date	
		Mtpa	ktpa	ktpa	ktpa	yrs	Cu Mt	Au Moz	Ag Moz	Co kt	Mo kt			
Kharmagtai Porphyry	1.1	25.0	40		50	30	1.50	3.30				Scoping / PEA	Apr-22 <sup>2</sup> , Jun-22	
Costa Fuego Porphyry	1.5	20.0			100	20	2.00	1.00				Mar Qtr 2023 / VRIC Corporate Presentation	Apr-23, Jan-23	
Caravel Porphyry	1.3	30.0	71	65	66	25	1.66				22.50	PFS Processing Update / PFS	Apr-23, Jul-22	
Hillside IOCG	6.9	8.0		42	45	33	1.49	1.27				DFS / Ore Reserve	Dec-22, Jul-21	

Mineral Resource used in benchmarking includes Inferred, Indicated and Measured classifications. Contained metal Resource and cut-off grades are inline with Company Disclosure.

Project characteristics including development stage, first production date, life of mine (LOM), strip ratio, ore processing throughput and metals production over various time horizons (LOM, first 5 years, steady state and annualised), as reported by each company.

<sup>1</sup> ASX/TSX Announcement 8 December 2021 –Kharmagtai Resource Grows to 1.1 Billion Tonnes

<sup>2</sup> ASX/TSX Announcement 6 April 2022 - Scoping Study - Kharmagtai Copper-Gold Project

## **Attractive "Go Forward" Options Fortify JV**

### Unlocking a Funded Production Pathway

- Xanadu now has **right to exercise a Put Option** (up to 6 months post PFS completion), paving funded pathway to Kharmagtai production, and/or asset sale. Available Options for Xanadu after PFS
  - A. Sole Fund: 50% share financed through a combination of equity & debt
  - B. Partial Asset Sale & Loan Carry: Sell 25% share for US\$25M, remaining 25% loan carried with Zijin (see slide 25)
  - C. Full Asset Sale: Sell 50% share to Zijin for US\$50M
- With these Options, Xanadu is in a strong position to unlock greatest value
  - Providing strategic protection for Xanadu shareholders
  - Options are resilient to market conditions

ASX:XAM | TSX:XAM

## **Debt Funded Pathway to Production**

Option B: Sell 25% share in Kharmagtai for US\$25M to Zijin

## Loan Carried for remaining 25% share of project construction:

- Project financed via direct loan with Zijin
- Interest priced variably at 6-Month Tenor Secured Overnight Financing Rate (SOFR) + 5% pa.
   Under current SOFR<sup>1</sup>, project finance interest priced at 9.43%<sup>2</sup>
- Once commercial production achieved for Xanadu's 25% interest in Kharmagtai production & cashflow, the loan is immediately repaid from 90% of XAM share of operating dividends

## Scenario Delivers **Mutually Beneficial** Shareholder Outcome:

- ✓ NO further equity raisings to achieve Kharmagtai production
- ✓ Attractively priced project debt in the face of unpredictable market conditions & expectation for higher interest rate environment
- ✓ Special majority JV approval for critical business matters