ASX/TSX ANNOUNCEMENT

By electronic lodgement | Page 1 of 1

121 Mining & Energy Investment Singapore Presentation

4 October 2022

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

BY ELECTRONIC LODGEMENT

Xanadu's Presentation to 121 Mining & Energy Investment Singapore

Please find attached for release to the market, Xanadu Mines Ltd's Presentation to 121 Mining & Energy Investment Singapore being held on 6-7 October 2022.

-ENDS-

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About Xanadu Mines Ltd:

Xanadu is an ASX and TSX listed Exploration company operating in Mongolia. We give investors exposure to globally significant, large-scale copper-gold discoveries and low-cost inventory growth. Xanadu maintains a portfolio of exploration projects and remains one of the few junior explorers on the ASX or TSX who control a globally significant copper-gold deposit in our flagship Kharmagtai project. For information on Xanadu visit: www.xanadumines.com.

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



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', 'indicate', 'anticipated', '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 guarantee of future performance and accordingly investors are cautioned not to put undue reliance on 'forward-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.

Xanadu Mines Overview

Growth focused copper-gold exploration & development, operating in Mongolia

Discover

Kharmagtai (76.5%)4

Flagship project; development ready & mineralised complex **open** in all directions

Red Mountain (100%)

Early diamond drill results confirmed prospectivity. Trenching underway for shallow high-grade, with multiple targets prioritised for drilling soon.

New Project Generation

Actively pursuing new exploration projects in southern Mongolia

Define (Kharmagtai)

Mineral Resource Estimate¹
1.1Bt containing 3Mt copper & 8Moz
gold >100Mt @ 0.8% CuEq higher-grade
zone doubled (open)

Scoping Study²

- 30yr mine life producing 200kt Cu &
 500koz Au for first 5 yrs and 1.5Mt Cu &
 3.3Moz Au over life of mine (LOM)
- Lowest quartile AISC of **US\$1.02/lb Cu** for first 5yrs
- US\$3.4B Free Cashflow (post-tax) over LOM
- Base case (post-tax): US\$630M NPV and 4-yr payback

Develop (Kharmagtai)

Funded to Construction DecisionStrategic partnership with Zijin Mining deliverin

Pre-Feasibility Study (PFS)

- Commencing 1Q'2023
- Targeting opex & capex improvements, maximised production, schedule economically.

Copper/Gold Concentrate Production 4Q'2027 target



¹ ASX/TSX Announcement 8 December 2021 – Kharmagtai Resource Grows to 1.1Bt containing 3Mt Cu and 8Moz Au

² ASX/TSX Announcement 6 April 2022 – Scoping Study Kharmagtai Copper-Gold Project

³ ASX/TSX Announcement 19 April 2022 – Strategic Partnership with Zijin Mining

⁴ Will become 38.25% upon completion of 50-50 Joint Venture with Zijin Mining Group

Our Value Proposition

Early-stage exploration & development in a high-potential jurisdiction

Exploration Stage Investment

Large Scale Projects

Metals for Low Carbon Future

High Growth Potential

Well Funded

High-Potential Jurisdiction

Strong Leadership

Shareholder Value Focus

to the early-stage of mining value curve

large scale, long life, low cost copper projects

future low carbon copper producer

strong growth pipeline with significant exploration upside

flagship project funded through to decisiexposureon to mine

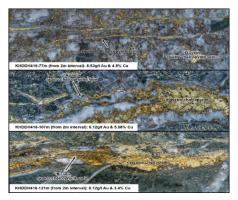
Mongolia is a mining focused jurisdiction with improving regulatory environment

high quality executive team with track record of significant resource growth

strong focus on delivering for shareholders







Capital Structure

Transformed by Strategic Partnership with Zijin Mining

1,412M

30/6/2022

Shares on issue @ 21/9/2022

Cash Balance reported as @

Current

XAM (ASX, TSX) Capital Structure

A\$0.032

Share Price as @ 21/9/2022

A\$45M

Market Cap @ A\$0.032/share

A\$41M

Enterprise Value

55% Top 20 Shareholders¹

INSTITUTIONAL

SHAREHOLDERS ACA 16% Zijin 10% Others 16%

BOARD &

MANAGEMENT (37m shares & 47m performance options)

6% on a fully diluted basis

After Zijin Deal²

XAM (ASX, TSX) Capital Structure

1,553M

Shares on issue after Phase 2 completed

A\$9.7M + US\$35M

Cash Balance reported as @ 30/6/2022 + Phase 2 Placement \$5.7M (4c/sh) + Phase 3 Project Joint Venture cash US\$35M



INSTITUTIONAL

SHAREHOLDERS Zijin 20% ACA 15% Others 15%

BOARD & 5% on a fully diluted basis

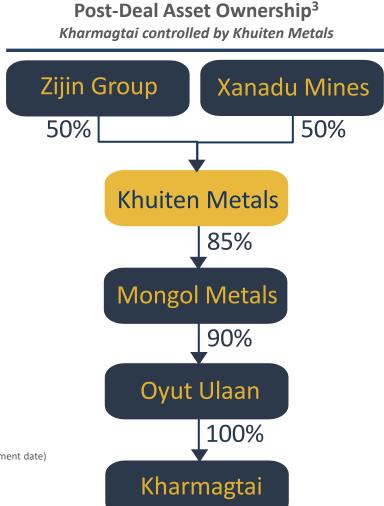
MANAGEMENT (37m shares & 47m performance options)



Strategic Partnership with Zijin Mining

Three phases of investment¹ totalling US\$43M² (A\$58M²)

- Implied 100% value of Kharmagtai is
 U\$\$92M (A\$124M⁶ or A\$29/t CuEq MRE)
- Funding Provided
 - Kharmagtai PFS (12-18 months)
 - Kharmagtai discovery exploration
 - Red Mountain discovery exploration
- Xanadu retains control as JV general manager of Kharmagtai
- Change in control in XAM requires a postdeal offer from Zijin, subject to XAM shareholder approval



- Phase 1 (completed) **A\$5.6M** cash @ 4cps for 9.9% stake in XAM, a **38% premium**
- Phase 2 A\$5.7M cash increases to 19.99% of XAM
- Phase 3 US\$35M cash invested in Khuiten
 Metals, 50-50 JV controlling Kharmagtai:
 - US\$20M for PFS and infill drilling
 - US\$15M for high impact exploration
- Subject to regulatory & shareholder approvals (FIRB approved in August 20224)
- Final documentation at an advanced stage
- Full funding targeted during December 2022
 Quarter⁵

¹ ASX/TSX Announcement 19 April 2022 – Strategic Partnership with Zijin Mining

² Currency conversion based on AUD:USD = 0.7387 as at 19 Apr 2022 close (transaction announcement date)

³ Effective ownership of Kharmagtai by each of Xanadu and Zijin is 38.25% (= 50% * 85% * 90%)

⁴ ASX/TSX announcement 22 August 2022 – FIRB approves Zijin investment in Xanadu

⁵ ASX/TSX announcement 24 August 2022 – Exploration Ramps up at Red Mountain

⁶ US\$35M / 38.25% effective ownership = US\$92M

Kharmagtai – Our Flagship Project

Tier 1 Scale copper-gold, near-surface Resource, positioned for development

Major Resource:

1.1Bt containing 3Mt Cu & 8Moz Au, including >100Mt higher-grade zone

- Resource open along strike & at depth
- Additional high-grade bornite intercepts have extended mineralisation since the 2021 Resource model ⁴

Attractive Project:

Scoping Study¹ delivers 30-yr mine life; US\$630M NPV; 4-yr payback & 20% IRR, producing **50ktpa copper & 110kozpa gold**

Well Funded:

Strategic partnership with Zijin Mining Group² delivers US\$43M (A\$58M³) cash



Kharmagtai Project Camp

¹ ASX/TSX Announcement 6 April 2022 – Scoping Study – Kharmagtai Copper-Gold Project; includes appropriate economic ranges

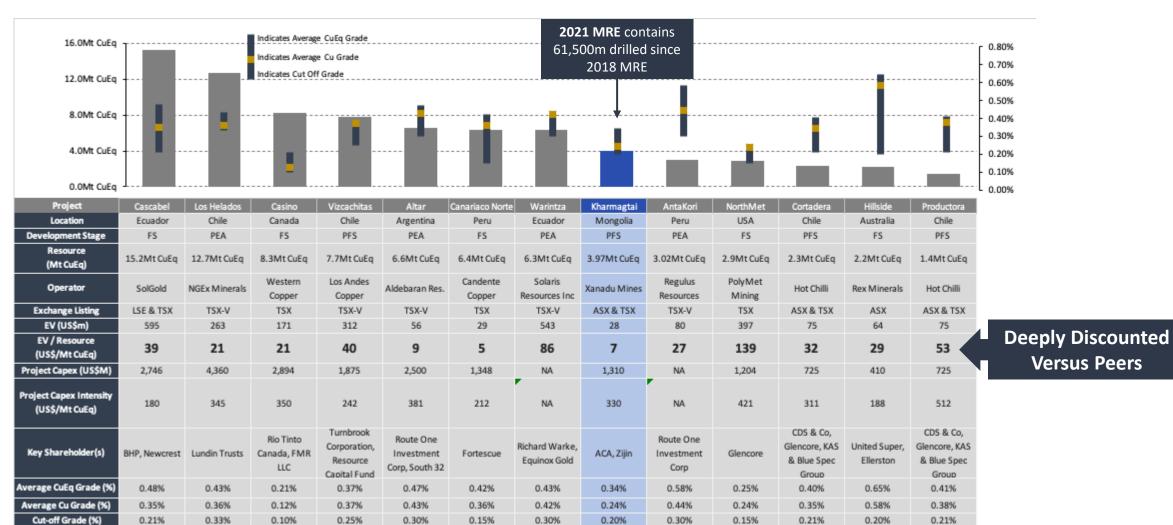
² ASX/TSX Announcement 19 April 2022 – Strategic Partnership with Zijin Mining

³ Conversion based on AUD:USD = 0.7387 as at 19 Apr 2022 close (transaction announcement date)

⁴ ASX/TSX Announcement 1 December 2021 – Further Extensions to High Grade Zones at Stockwork Hill

Best Ranked Copper Resource on ASX

Ascending global ranks - one of the largest undeveloped Resources controlled by a junior



Strong Economics and Achievable Pathway to Production

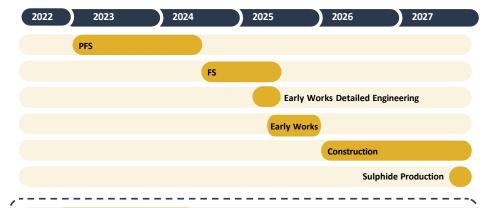
Gated to Pre-Feasibility (PFS) following robust Scoping Study¹

Development Strategy:

- a) Establish 15Mtpa starter mine
- **b)** Explore in parallel to define full extent of the system
- c) Expand to 30Mtpa after payback, funded by starter mine

Production Timeline

Baseline Studies



Prepare Mongolian FS

Mongolian EIS Preparation

Mongolian FS Approval

Mongolian EIS Approval

Mongolian Permitting

Mongolian Investment Agreement

Mongolian Strategic Project Review

First production
4Q'2027. Target uplift
opportunities in opex,
capex and production.

Clear permitting path mapped by experienced Mongolian team.

Project Economics

Summary Outcomes	Low	Base	High
Net Revenue (US\$M)	15,200	16,100	17,100
EBITDA (US\$M)	5,880	6,770	7,660
Net Cash Flow (US\$M)	2,590	3,420	4,240
NPV (8% discount)	405	630	850
IRR	16%	20%	25%
Capital Payback	7 years	4 years	4 years

Sensitivities	Low	Base	High
Cu price (US\$/lb) (+/-10%)	3.60	4.00	4.40
Au price (US\$/oz) (+/-5%)	1,615	1,700	1,785
Life of Mine Capex (US\$M) (+/-10%)	2,046	1,860	1,674

2023 Plan to Build Value for Shareholders

Commence Kharmagtai Pre-Feasibility Study and Reinvigorate Exploration

Kharmagtai Pre-Feasibility Study (PFS)

- Commence 1Q'2023
- Studies, permitting, and ~30,000 metres of infill drilling
- Complete over 12 18mths, with Maiden Ore Reserve &
 Decision to Mine in 2024
- 7 rigs parked up with drilling teams ready to commence
- Execute in partnership with Zijin Mining

Kharmagtai Exploration

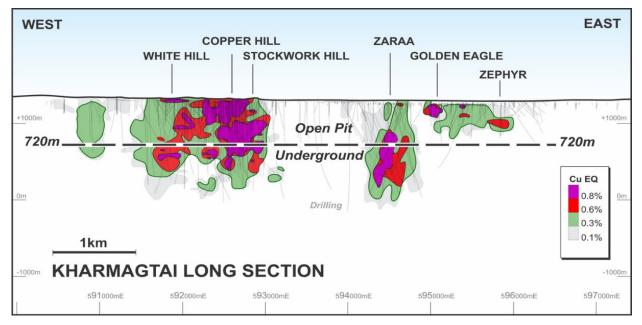
• Explore for **high-grade extension at depth** & new discovery

Red Mountain Exploration

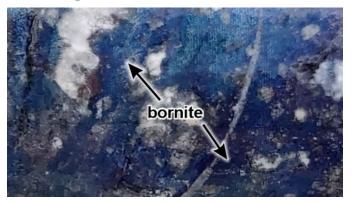
Explore for epithermal & skarn mineralisation

New Project Generation

Actively seek new exploration projects in Southern Mongolia



Kharmagtai 2021 Resource



PFS Targets Multiple Upside Opportunities

Leverage smart mining technologies & reignite exploration

Process Oxidised Material to Minimise Waste

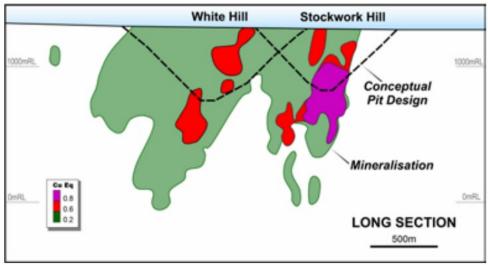
- Scoping Study mines & processes only main underlying sulphide Resource
- Up to 90Mt partially oxidised material in upper 30m
- Processing could lift economics; generate additional cash flow & offset pre-strip cost

Technology to Expand Footprint Sustainably

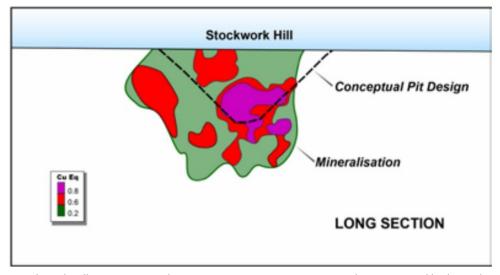
- Bulk ore sorting (BOS) & coarse particle flotation recovery (CPR) to optimise mill feed grade/recovery, minimise energy/water consumption & reduce milling cost
- Deepest pits currently defined to ~600m. In pit crush and convey to optimise & deepen pits to capture greater extent of higher-grade zones.
- Electrified mining equipment to reduce emissions & haulage cost

Exploration Upside focussed on Higher-Grade

- Resource open in all directions, representing only ~30% of 8km long Kharmagtai mineralised complex
- **Higher-grade** bornite mineralisation only recently drilled in lower portions of Stockwork Hill, representing **significant upside** to expand existing Resource
- Several near surface targets across tenement warrant follow-up drill testing
- >20 exploration targets across 66.5km² lease ranked & drill tested over next 12 months



Kharmagtai Resource within Open Pit in Long Section



Stockwork Hill Long Section showing current resource, proposed open pit and high-grade blocks below pit outline open along strike and at depth.

Kharmagtai Exploration: Not If, But When?

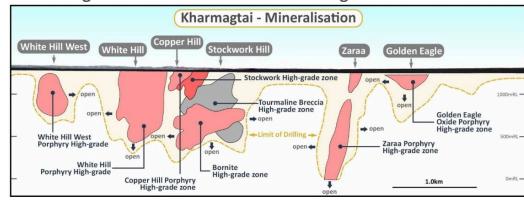
Higher-grade **depth limit untested** – potential for "Hugo North" material growth

Kharmagtai vs Hugo North

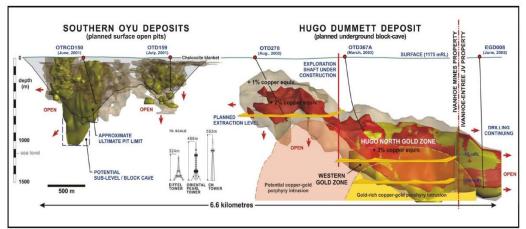
Factor	Hugo North (HN) ¹	Kharmagtai (KH)	KH vs HN Scorecard
Mineralisation	Quartz stockwork with bornite rich core, zoning out to chalcopyrite & pyrite	Stockwork Hill has bornite rich core , zoning out into chalcopyrite & pyrite	
Cu & Au Grades	Starts below 900m and increases to the north. Max horizontal thickness at 1,160m depth.	Starts at surface and increases with depth	
Au : Cu Ratio ²	 Up to 1:10 in south Up to 1:1 in north Best Au grades associated with bornite 	 Up to 2:1 at surface Up to 5:1 at depth Higher Au grades (avg 3:1) in bornite zone 	
Depth	Starts at 800 – 900m	Limited drilling below 800m	×

Higher-grade offset structure at depth remains possible; stacked porphyry discovery below Kharmagtai orebody likely

Kharmagtai Mineralisation – Limits of Drilling ~800m



Hugo North Mineralisation³ – Starting Depth ~800m



¹ https://www.researchgate.net/publication/276086472_The_Giant_Oyu_Tolgoi_Porphyry_Copper-Gold_Deposit_Discovery_History_and_Exploration_Implications_South_Gobi

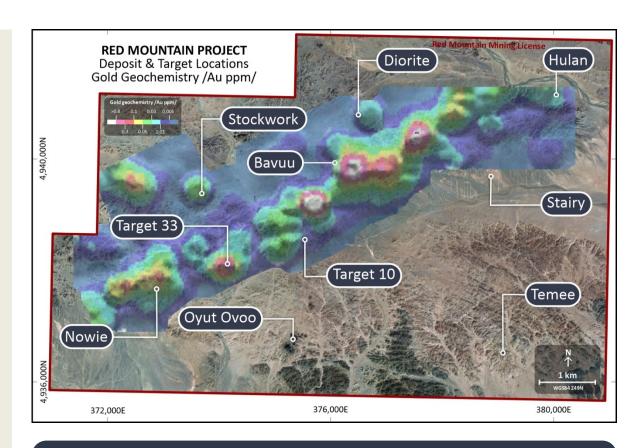
² shown as Au (g/t): Cu (%)

³ http://www.cmi-capital.com/Doc_Server/SEEGF_Docs/Kirwin/1-OT%20Discovery%20&%203SEG-Europe-10%20Sep%202006.pdf

Red Mountain Exploration: Shallow, Higher-Grade

New broad gold zones expand & open up potential for more

- New exploration program kicked off August 2022 to expand on prior trenching & drilling
- Good start broad zones of shallow gold intercepted at Target 33 (T33)¹:
 - OUTR109: 66m @ 0.37g/t Au from 26m,
 - o Including 18m @ 0.81g/t Au from 50m,
 - o Including **10m @ 1.23 g/t Au** from 58m
- Latest T33 trenching expanded 350m x 80m zone of highly anomalous gold, including >1g/t Au higher-grade core
- High priority targets for drilling have started to be defined post trenching, with drill testing to kick off soon
- Current exploration programs seeks to expand strike extent of shallow high-grade epithermal gold & copper-gold-silver skarn mineralisation
- In contrast to Kharmagtai, targeting smaller scale, higher-grade deposits enabling lower capex development



4x mineralised Cu-Au systems

2x epithermal Au-Ag systems

Investment Highlights

Funded Copper Gold Development + Future Discoveries

Quality Projects

MAJOR COPPER GOLD RESOURCE

Kharmagtai maiden Ore Reserve in 2023.

Kharmagtai MRE: 1.1Bt containing 3Mt Cu & 8Moz Au, incl. 100Mt @ >0.8% CuEq.¹

FAST TRACKING DEVELOPMENT

PFS fully-funded; targeting FID by mid 2024.

First production 2027-28 from processing sulphides; additional cashflow potential from partially oxidised material processing.

FUNDED & WELL POSITIONED

Zijin strategic investment²: A\$11M in XAM & US\$35M in Kharmagtai.

Strengthens funding, technical capability. Derisks concentrate marketing & logistics.

MONGOLIA SEEKS TO BOOST MINING

Stable, educated democracy.

Mining-driven economy; low ESG risk & established infra.

Pro business govt seeking mining foreign investment growth; mining law revisions expected in 2023.

Measured Approach

EXCELLENT LEADERSHIP

Management & Board track record of discovery, development and M&A.

Supported by World-class Advisory Team.

AMBITIOUS EXPLORATION

Funded for future high impact discoveries at both Kharmagtai (untested depth & lateral potential) & Red Mountain (up to 16% Cu).

GROWTH POTENTIAL

Kharmagtai open in all directions, with strong depth potential.

Highly prospective Red Mountain

New project generation.

ESG FOCUS

Operating to highest ESG standards, with strong community engagement.

Sustainability Report available on website³

¹ ASX/TSX Announcement 8 December 2021 – Kharmagtai Resource Grows to 1.1Bt containing 3Mt Cu and 8Moz Au

² ASX/TSX Announcement 19 April 2022 – Strategic Partnership with Zijin Mining

³ ASX/TSX Announcement 9 June 2022 – Sustainability Report 2021

Thank you

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APPENDIX

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

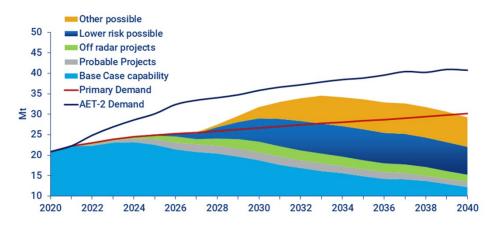
Well Timed to Impact 'Approaching' Copper Supply Cliff

Kharmagtai aiming to deliver copper in next 5 years

- Copper is over-utilised relative to consumption, driven by the growing decarbonisation of the economy
- Global reserve grades falling since 1990's; Halved to ~0.5% Cu¹
- New copper **discoveries insufficient** to replace production; discoveries in 2020s expected to be poorest since 1990²
- Increasing ESG requirements impacting project lead time & risks;
 currently >10yrs from Cu discovery to production³
- Copper supply deficits inevitable:
 - Wood Mac est. 6.5Mt deficit by 2027 for AET-2 Demand⁴
 - BMO est. 9Mt deficit by 2030; with 4Mt new supply growth (capex >\$75bn) as max. practical limit irrespective of Cu price^s
 - Equivalent to 8x new Escondida mines over next 8 yrs⁶

XAM's Kharmagtai positioned to add 1.5Mt Cu production between 2028 to 2057

Copper Supply vs Primary & Accelerated Energy Transition (AET-2) Demand⁴



Copper amongst most over-utilised relative to geological endowment⁷



¹ http://info.gorozen.com/2021-q1-market-commentary-problems-with-copper

² https://www.spglobal.com/marketintelligence/en/news-insights/research/copper-discoveries-declining-trend-continues\

³ https://www.angloamerican.com/~/media/Files/A/Anglo-American-Group/PLC/media/presentations/2022pres/bank-of-america-duncan-wanblad-presentation-2022.pdf

⁴ https://www.woodmac.com/news/opinion/will-a-lack-of-supply-growth-come-back-to-bite-the-copper-industry/

⁵ https://www.ft.com/content/975b92c0-8f70-48c2-8e50-f615db68228d

⁶ https://aheadoftheherd.com/8-escondidas-needed-over-the-next-eight-years/

⁷ https://cdn-ceo-ca.s3.amazonaws.com/1g9df18-Global-Metals-Mining-King-Copper-once-and-future-14-September-2020-Bernstein.pdf

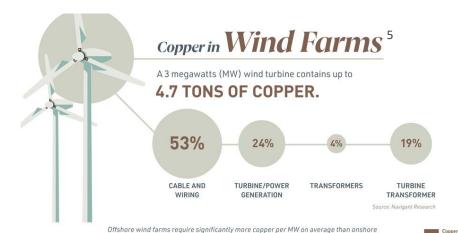
Renewable Power Needs More Copper

Renewables & electrification drive decarbonisation

- Wind & Solar between 3x and 7x more copper intensive than conventional electricity¹; Wind requires up to 8,000 kg copper per MW¹
- Wind & Solar carbon footprints over the asset's lifespan are
 1 to 4% of coal-fired power & 3 to 9% of natural gas,
 respectively²
- US requires **630GW wind & 450GW solar energy** investment to achieve 100% clean electricity by 2035³.
- US\$100bn electrical grid upgrades required to support US clean electricity targets, including construction of higher voltage DC transmission lines – all copper intensive⁴.







wind farms, with copper cabling accounting for up to 82% of copper usage

¹ https://www.iea.org/reports/the-role-of-critical-minerals-in-clean-energy-transitions/executive-summary

² https://www.cnbc.com/2022/04/13/green-energy-the-race-to-roll-out-super-sized-wind-turbines-is-on.html

³ https://www.spglobal.com/marketintelligence/en/news-insights/research/national-clean-energy-standard-could-require-1000-gw-of-new-wind-solar-by-2035

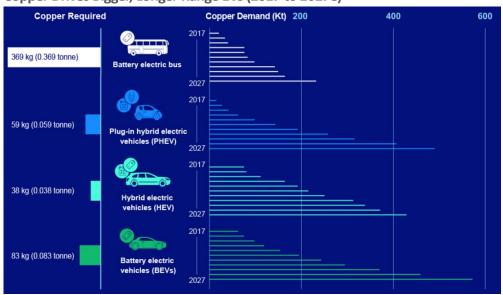
⁴ https://aheadoftheherd.com/the-us-has-a-metals-problem/; https://www.energy.gov/sites/default/files/2022-02/Electric%20Grid%20Supply%20Chain%20Report%20-%20Final.pdf

⁵ https://www.copper.org/environment/sustainable-energy/renewables/

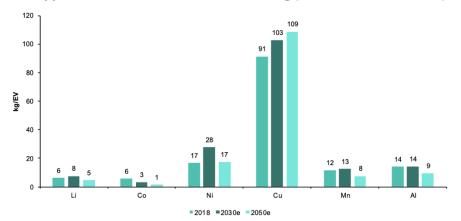
Copper Anchors the EV Ecosystem

EV production could be limited by copper availability

Copper Drives Bigger, Longer Range EVs (2017 to 2027e) 1



Copper Demand Per EV Continues Growing (2018 to 2030e to 2050e) ²



- Copper used in **more than just the battery**, also the motor, inverter/converter, cabling & internal charging requirements
- **EV infrastructure** associated with ultra fast charging of EVs, as well as grid investment all heavily reliant on copper
- Unlike other EV metals, copper metal use per EV rises, even after expected battery chemistry transition reduces metal requirements out to 2030 – 2050²
- If EV growth pursued aggressively, copper demand for EVs could exceed renewable power
- Tesla, GM, BMW & Toyota have direct mining/refining relationships for Li, Co & Ni, but not for Cu (yet)
- As supply pressure builds, automakers expected to pursue similar direct sourcing strategy for Cu

¹ https://www.visualcapitalist.com/visualizing-coppers-role-in-a-low-carbon-economy/

Mongolia Policy Reforms to Incentivise Mining

Seeking to boost investor confidence; potential to be a miner's destination of choice

Law reform coming soon ^{1, 2, 3}

- Newly appointed **pro business** ministers announced (during quick Cabinet reshuffle) for mining, economy & development, and secretariat chief
- Expected to shape a more investor friendly mining sector; **revisions to Mining Law expected in 2023**. *Law of Mongolia on Minerals (2006*) has been stable for some time now, with no amendments passed since 2019.
- Revisions to Investment Law also on the agenda, including establishment of Investor Protection Council
- Aimed at boosting investment, the economy & investor confidence

Aligned with 'New Revival Policy' framework 4,5

- Framework designed to create favourable business environment, improve foreign & domestic investment climate, as well as fiscal reform
- Policy implementation aims to:
 - 1. increase mineral export volumes
 - 2. improve capacity of border checkpoints, and
 - 3. accelerate infrastructure & energy construction projects.



XAM board & management catching up with the team, preparing for PFS kick off later this year

¹ https://thediplomat.com/2022/09/mongolia-unveils-new-pro-business-cabinet/

² https://montsame.mn/en/read/302312

³ https://uk.practicallaw.thomsonreuters.com/w-017-7372?transitionType=Default&contextData=%28sc.Default%29

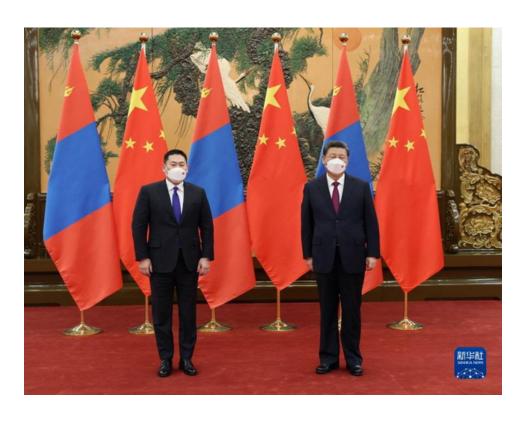
⁴ https://montsame.mn/en/read/285624

⁵ https://montsame.mn/en/read/303729

Mongolia-China Growing Strategic Partnership

Zijin transaction echoes strengthening relationship

- Recent heads of state engagement confirms alignment of Mongolia's New Revival Policy with China's Belt and Road **Initiative** and Five-Year Plan ¹
- Mongolia confirmed this bilateral relationship as the model for other global relationships
- Zijin strategic partnership with Xanadu demonstrates this growing inter-country engagement
- Xanadu transaction aligns with Zijin 2022 Strategy², targeting:
 - Large projects with best-in-class resources delivering sustainable growth
 - ✓ Responsible, green, high-tech mining
 - Good upside potential & strong synergies
 - ✓ Merger and acquisition to accelerate growth



¹ Ministry of Foreign Affairs of the People's Republic of China 6 February 2022 – Xi Jinping Meets with Mongolia Primer Minister Luvsannamsrai Oyun-Erdene; www.fmprc.gov.cn/mfa eng/zxxx 662805/202202/t20220207 10639712.html

² Source: Zijinmining.com

Favourable ESG Environment = Short Time to Production

Mongolia is a **proven** & **growing** mining-driven economy

- **Pro-mining jurisdiction** in 2021, mining accounted for 24% of Mongolia's GDP & **90% of export revenues**¹
- Significant mining region tops Investment Monitor's 2021 Mining Vulnerability Index², followed by Zambia & Australia
- **Stable democratic system** 30-yr history of democratic elections
- Social License to Operate enabling short lead times to mine production
- **Excellent established infrastructure** leveraging rail, power & water for low capex intensity development
- Ideal location flat ground, sparse population & proximal to customers minimises technical, ESG & concentrate marketing risks

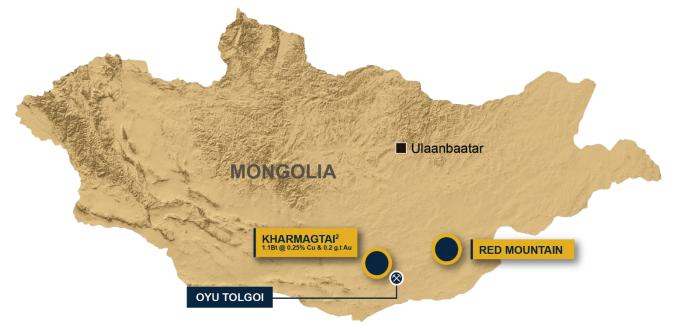
...On the doorstep of world's largest consumer

77% of Mongolia's external trade was with China between $2011 - 2021^3$

Copper (27%) & Coal (27%) accounted for majority of Mongolia's total exports to China over the same period³

China accounted for \sim 52% refined copper consumption globally in 2021^{4,5}

China's global consumption of refined copper up 4% yoy to 1.87Mt in 1H 2022^{4,5}



¹ https://montsame.mn/en/read/289037

² https://investmentmonitor.ai/business-activities/extractive-industries/mongolia-and-australia-among-countries-that-will-suffer-the-most-in-a-mining-downturn

³ The Current situation for Foreign Trade between Mongolia and China, Future Trend https://www.mongolbank.mn/documents/press_conference/20220621_06.pdf

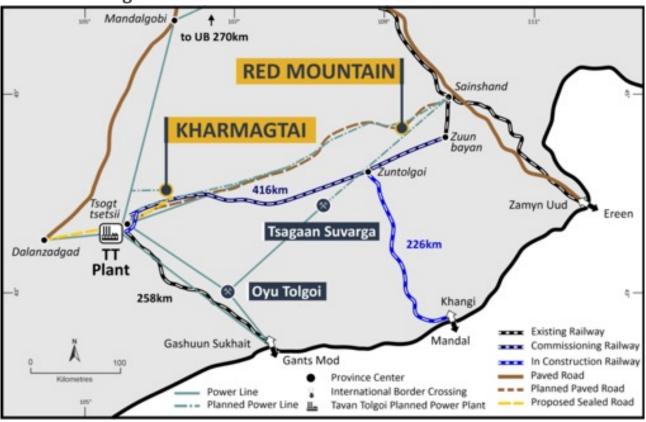
⁴ Global refined copper consumption distribution 2021, by region https://www.statista.com/statistics/693466/distribution-of-global-refined-copper-consumption-by-region/

⁵ China steps up copper imports despite renewed slowdown https://www.reuters.com/markets/commodities/china-steps-up-copper-imports-despite-renewed-slowdown-andy-home-2022-08-02/

New Mongolia Infrastructure Enhances Customer Links

Government investing for more globally competitive South Gobi mining products

South Gobi Regional Infrastructure



Rail & Road

- New rail line commissioning between Zuunbayan & Tsogttsetsii, linking to trans-Mongolia railway. New sealed road follows rail line.
- New rail lines south to China from Tavan Tolgoi (operational) reduces transport cost by 75%¹ & Zuntolgoi (in construction)
- 22km line connecting Gashuun Sukhait & Zuunbayan rail lines in construction, linking mining region to China & wider Mongolian network

Power

- New Tavan Tolgoi power plant construction awaiting tender process
- Additional power lines link region to Tavan Tolgoi



Train operating on South Gobi railway

Who is Zijin Mining Group?

A global copper & gold mining major

- Zijin brings **capability** and **balance sheet** to build a largescale copper-gold mine like Kharmagtai
- US\$51 billion market capitalization, listed on Hong Kong & Shanghai exchanges
- **Global Top 10 copper producer**, 2021 mining production 584kt copper, 1.68 Moz gold and 396kt zinc
- Vertically integrated: **mining, smelting & refining** assets
- Operating assets across 14 countries & 5 continents
- Experienced Joint Venture partner, examples include Kamoa-Kakula copper-mine (Ivanhoe) & Porgera gold-silver mine (Barrick)



Zijin strategy is to acquire, control & scale-up

Aligns to Kharmagtai 2-stage expansion

	Acquisitions	Targeting Scalak	ole Pro	duction					
2022	50% Xanadu's Kharmagtai (Mongolia) +19.99% Xanadi Mines	PFS 2023	•	37 ktpa Cu, 110kozpa Au 2027	•	50ktpa Cu, 110kozpa Au			
	100% Neo Lithium (Argentina)	Construction 2022	>	20ktpa Li 2023	>	40 to 60ktpa Li			
2020	100% Guyana Goldfields (Guyana)	Recommissioned 2020	>	140kozpa Au 2022	>	185kozpa Au			
	50.1% Julong Copper (Tibet)	Production Start 2021	>	120 to 130kt Cu 2022	>	160ktpa Cu	>	260ktpa Cu	
	100% Continental Gold (Colombia)	Production Start 2020	>	275koz Au 2020	>	320kozpa Au			
2018	63% RTB Bor (Serbia)	43ktpa 2017	>	52kt Cu 2020	•	120ktpa Cu 2024			
	100% Nevsun (Serbia, Eritrea)	Cukaru Peki Production Start 2021	>	91ktpa Cu 90kozpa Au 2022	>	135ktpa Cu, 215kozpa Au			
2015	100% Phoenix Gold (AUS) consolidating prior acquisitions: 100% Norton Gold (AUS) in 2013 & 100% Bullabulling Gold (AUS) in 2014	151koz Au 2012	>	204koz Au 2020	>	250kozpa Au			
	50% Barrick's Porgera Gold (PNG)	Awaiting Restart 2022	>					¹ 100% basis Source: zijinmining.cc	om
	49.5% Ivanhoe's Kamoa Copper (DRC) +9.9% Ivanhoe Mines	PFS 2016	>	200 ktpa Cu 2021	>	400ktpa Cu, 2023	>	600ktpa Cu 2024	26

Positioning as the Cadia Hill of Mongolia

Kharmagtai stacks up well on strip ratio, scale & copper grade

First 5yrs of production²:

		Kharmagtai (KH) Scoping Study	Cadia Hill (CH) Actuals
Material Mined	Mt	210	298
Ore Mined ¹	Mt	110	79
Ore Processed	Mt	70	79
Strip Ratio		0.9	2.8
Ore Processing rate	Mtpa	15	16
Avg Milled Grade:			
Copper	%	0.29	0.19
Gold	g/t	0.30	0.77
Avg Metal Recovery:			
Copper	%	90	81
Gold	%	78	74
Metal Produced:			
Avg Copper	ktpa	37	24
Avg Gold	kozpa	110	288
Copper	Mt	0.20	0.12
Gold	Moz	0.50	1.44



Cadia Hill



Kharmagtai

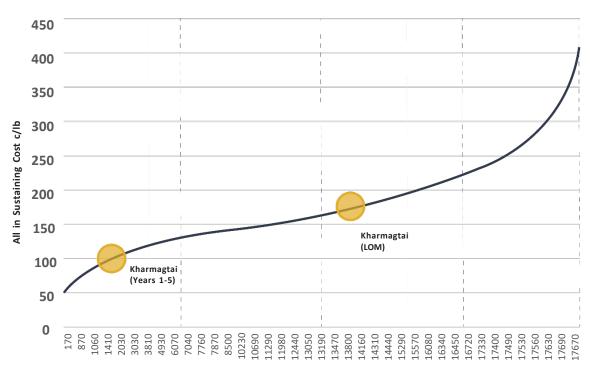
¹ Cadia Hill ore mined not reported, assumed ore mined = ore processed

² Sources: Kharmagtai Copper-Gold project Scoping Study; Cadia Valley Operations Technical Report, 2 Mar 2012

Starter Mine Expanded Post Capex Payback

Low AISC driven by low strip & gold by-product credits

Competitive Cost Curve Positioning



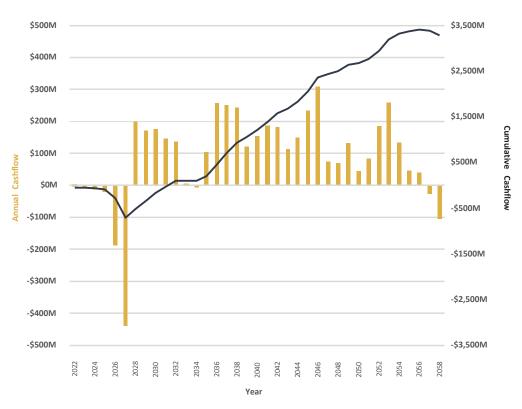
Cumulative Production kt Cu

Area	Measure	Unit	Stage 1 Initial	Stage 2 Expansion	LOM
Production	Period	Years	5	25	30
	Ore process rate.	Mtpa	15	30	15-30
	Feed from Indicated Resource	%	100%	50%	55%
	Ore processed	Mt	70	690	760
	Average copper grade	%	0.29	0.21	0.21
	Average gold grade	g/t	0.30	0.16	0.18
	Copper produced	Mt	0.2	1.3	1.5
	Gold produced	Moz	0.5	2.8	3.3
Capital	Project Capital	US\$M	690	620	1,310
	Sustaining Capital	US\$M	40	530	570
Operating Cost	All In Sustaining Costs	US\$/lb	1.02	1.99	1.87
Economic Assumptions	Copper Price	US\$/lb	4.00	4.00	4.00
7 ISSUMPTIONS	Gold Price	US\$/oz	1,700	1,700	1,700
Financials (after tax)	Net Present Value (NPV) @ 8%	US\$M			630
(arter tax)	Internal Rate of Return (IRR)	% (real)			20
	Capital Payback	Years	4	1	4
	Free Cash Flow (after tax)	US\$M (real)	155	3,260	3,420

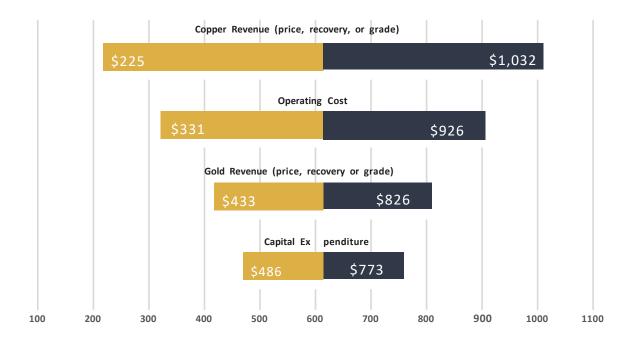
Robust Cash Flows

Positive cash flow across wide range of scenarios

Annual Cash Flow (US\$M)



- Kharmagtai starter mine cash flows funds expansion
- Strong earnings across +/- 20% sensitivity analysis range

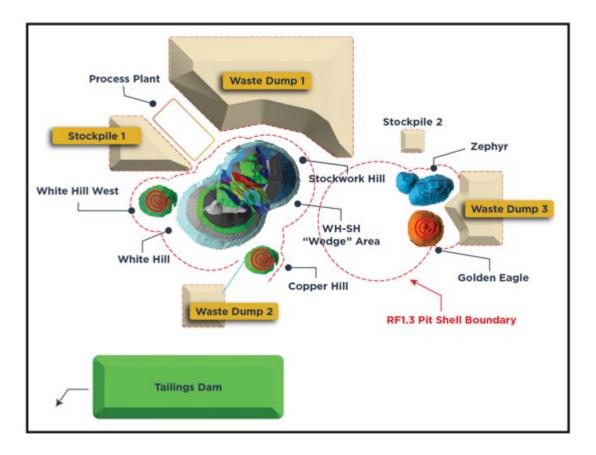


Simple Site Layout

Plans ahead for future growth

- Low complexity, minimising haul distance
- Tailings dam offsite to south using land features
- Stand off maintained for potential future pit expansion leveraging in pit crush and convey
- To be finalised in PFS

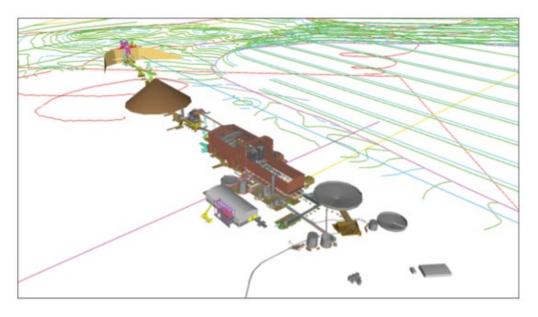
Project Layout



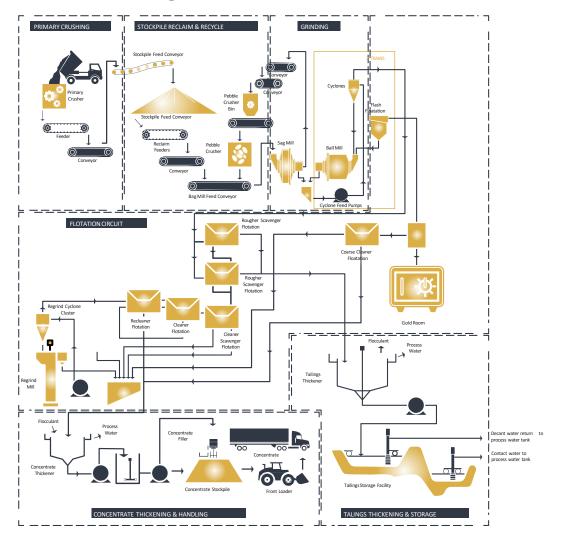
Sulphide Flotation Process Plant

Conventional, low risk process flow & plant design

Processing Plant Layout



Process Flow Diagram



Sustainable Minerals Processing Becoming the Norm

XANADU MINES

Bulk Ore Sorting (BOS) & Coarse Particle Recovery (CPR) Reduce Energy & Water Consumption







Technologies such as BOS and CPR rapidly becoming business as usual for large scale base & precious metal miners to sustainably achieve **low cost production** & generate **fewer wet tailings.**

Examples¹:

- First Quantum Kansanshi Cu world's largest 2800tph BOS operating since May 2022
- Newcrest Cadia Cu Au first full scale CPR operating since August 2018
- AngloAmerican multiple mines BOS & CPR helping to significantly reduce energy & water consumption, in line with their 2030 Sustainable Mining Plan targets
- Capstone Pinto Valley Cu Mo CPR pilot plant enabled up to 8% increase in Cu recovery, lower grinding costs, less water & energy consumption and better tailings stability

BOS & CPR minerals processing technologies will be evaluated for Kharmagtai Cu Au PFS



AngloAmerican Bulk Ore Sorter – BOS



Cadia Coarse Particle (Flotation) Recovery – CPR

Resource Benchmarked on Copper Equivalence

Global Project	Resource	Resource Mt		Au g/t		Cu %		Au Moz			Cu Mt			CuEq					
Global Project	Date	Meas	Ind	Inf	Total	Meas	Ind	Inf	Meas	Ind	inf	Meas	Ind	Inf	Meas	Ind	Inf	%	Mt
Altar	22/03/21	622	576	189	1,387	0.10	0.08	0.06	0.44%	0.42%	0.42%	2.0	1.5	0.4	2.7	2.4	0.8	0.47%	6.6
AntaKori	31/01/19	0	250	267	517	0.00	0.29	0.26	0.00%	0.48%	0.41%	0.0	2.3	2.2	0.0	1.2	1.1	0.58%	3.0
Canariaco Norte	28/02/22	424	671	411	1,505	0.07	0.05	0.04	0.48%	0.39%	0.32%	0.9	1.1	0.5	2.0	2.6	1.3	0.42%	6.4
Cascabel	20/04/22	1,192	1,470	544	3,206	0.39	0.14	0.24	0.48%	0.28%	0.24%	14.9	6.6	4.2	5.7	4.1	1.3	0.48%	15.2
Casino	29/04/22	188	2,303	1,413	3,903	0.40	0.17	0.14	0.24%	0.13%	0.10%	2.4	12.5	6.3	0.5	3.0	1.4	0.21%	8.3
Cortadera	31/03/22	0	471	108	579	0.00	0.12	0.08	0.00%	0.36%	0.28%	0.0	1.8	0.3	0.0	1.7	0.3	0.40%	2.3
Hillside	May 2015	72	151	114	337	0.16	0.13	0.10	0.55%	0.59%	0.60%	0.4	0.6	0.4	0.4	0.9	0.7	0.65%	2.2
Kharmagtai	8/12/21	0	487	664	1,151	0.00	0.20	0.20	0.00%	0.30%	0.20%	0.0	3.1	4.2	0.0	1.5	1.3	0.34%	4.0
Warintza	1/04/22	0	579	887	1,466	0.00	0.03	0.01	0.00%	0.47%	0.37%	0.0	0.6	0.3	0.0	2.7	3.3	0.42%	6.1
Los Helados	26/04/19	0	2,099	827	2,926	0.00	0.15	0.10	0.00%	0.38%	0.32%	0.0	10.1	2.6	0.0	8.0	2.6	0.43%	12.7
NorthMet	19/11/19	319	403	415	1,137	0.03	0.03	0.03	0.24%	0.23%	0.24%	0.3	0.4	0.4	0.8	0.9	1.0	0.25%	2.9
Productora	31/03/22	0	253	90	343	0.00	0.08	0.03	0.00%	0.41%	0.29%	0.0	0.6	0.1	0.0	1.0	0.3	0.41%	1.4
Vizcachitas	10/05/19	254	1,030	789	2,073	0.00	0.00	0.00	0.44%	0.39%	0.34%	0.0	0.0	0.0	1.1	4.0	2.7	0.37%	7.7

Mineral Resource used in benchmarking include Inferred, Indicated, and Measured classifications. Resource tonnes and grades are as reported by each company.1,2

- Copper equivalent grades were calculated by Xanadu Mines using the formula:
 - CuEq = Cu + Au * 0.60049 * 0.86667
- Where:
 - Cu = copper grade (%)
 - Au = gold grade (grams per tonne (g/t))
 - o 0.60049 = conversion factor (Au to Cu); and
 - 0.86667 = relative recovery of Au to Cu (86.67%)
- These equivalent formulas were based on the following parameters (prices in USD):
 - \circ Cu price = 3.4 \$/lb
 - \circ Au price = 1,400 \$/oz
 - Cu recovery = 90%
 - Au recovery = 78%; and
 - Relative recovery of Au to Cu = 78%/90% = 86.67%
- Metals prices, Au-Cu conversion factor, and Au-Cu relative recovery factors are as defined in the 2021 Xanadu Mineral Resource Upgrade3

¹ Source: S&P Market Intelligence and Company Disclosure

² It is Xanadu's opinion that all the elements included in the metal equivalents calculation above have a reasonable potential to be recovered and sold

³ASX/TSX Announcement 8 December 2021 – Kharmagtai Resource Grows to 1.1Bt containing 3Mt Cu and 8Moz Au; and ASX/TSX Announcement 28 February 2022 – Kharmagtai Technical Report

Kharmagtai Copper Resource at Tier 1 Scale

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

				G	rades			Containe	ed Metal							
Resource	Cutoff (% CuEq)	Classification	Tonnes (Mt)	CuEq (%)	Cu (%)	Au (g/t)	CuEq (Mlbs)	CuEq (kt)	Cu (kt)	Au (koz)						
20211	0.2(OC) 0.3(UG)	Indicated	455	0.4	0.3	0.2	4,078	1,850	1,250	3,700						
2021-		0.3(UG)	0.3(UG)	0.3(UG)	0.3(UG)	0.3(UG)	0.3(UG)	0.3(UG)	Inferred	664	0.3	0.2	0.2	5,140	2,330	1,680
	2018 ² 0.3(OC) 0.5(UG)	Indicated	131	0.5	0.4	0.4	1,570	710	480	1,500						
2018 ²		Inferred	477	0.4	0.3	0.2	4,350	1,970	1,500	2,930						

¹ ASX/TSX Announcement 18 December 2018 – Technical Report to support Kharmagtai Mineral Resource

0.6Bt	
1.1Bt	
2Mt Cu	
3Mt Cu	
4Moz Au	
8Moz Au	
56Mt higher-grade	
2011011161161161161	
100Mt higher-grade	
22% Indicated	
41% Indicated	
2018 Mineral Resource ¹	
2018 Wilneral Kesource	
2021 Mineral Resource ^{2,3}	

² ASX/TSX Announcement 28 February 2022 – Kharmagtai Technical Report

³ ASX/TSX Announcement 8 December 2021 – Kharmagtai Resource Grows to 1.1 Billion Tonnes

⁴ ASX/TSX Announcement 1 December 2021 – Further Extensions to High Grade Zones at Stockwork Hill

Kharmagtai Opportunity for New Discovery

New systems continue to be unlocked

EXPLORATION SCORECARD

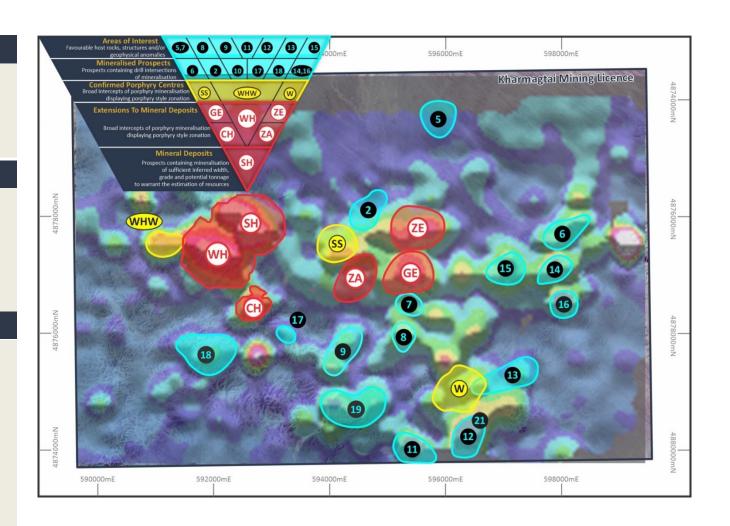
- 5 subsurface discoveries out of 10 prospects drilled
- <\$0.01/lb CuEq discovery cost vs ~\$0.07/lb industry avg¹

DISTRICT CONTINUES TO OPEN UP

- Multiple copper-gold porphyry intrusions
- Mineralised structures linked to faulting
- Increasing grade at depth

PORPHYRY DEPOSITS EVOLVE OVER TIME

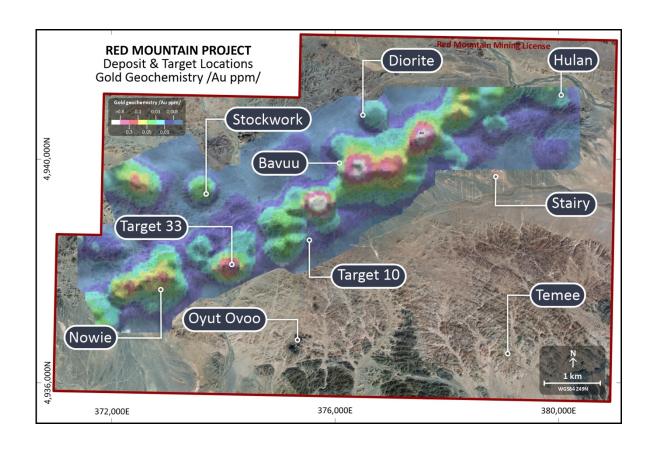
- Continued exploration for new high-grade systems
- Link existing systems at depth
- Highly prospective for new discovery
- Several priority targets drilled in 2021
- >20 targets to be drilled over next 12 months



Red Mountain Highly Prospective

Already delivering exciting results

- Advanced exploration multiple known targets:
 - Outcropping sulphides at surface,up to 184m width
 - o 4 mineralised Cu-Au systems
 - 2 epithermal Au-Ag systems
 - High-grade diamond drill assays,
 up to 16% Cu
- Located 265km east of Kharmagtai
- 30-year extendable mining license
- Consolidated to 100% ownership in 2021¹
- New exploration program kicked off August 2022



Board & Management – Proven & Experienced Team

Track record of discovering & developing successful porphyry copper-gold mines

Team collectively has over 70 years discovering and over 40 years developing porphyry copper and gold mines

BOARD



GANBAYAR LKHAGVASUREN COUNTRY MANAGER & EXECUTIVE DIRECTOR



COLIN **MOORHEAD EXECUTIVE CHAIRMAN &** MANAGING DIRECTOR



MICHELE MUSCILLO NON-EXECUTIVE DIRECTOR



TONY PEARSON NON-EXECUTIVE DIRECTOR



MUNKHSAIKHAN

DAMBIINYAM CHIEF OPERATING OFFICER

MONGOLIA EXPERTISE



ANDREW STEWART



MAT **BROWN**



SPENCER COLE CHIEF FINANCIAL OFFICER

DEEP EXPLORATION SKILLS

COMMERCIAL CAPABILITY