Updated Corporate Presentation

13 September 2021

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

BY ELECTRONIC LODGEMENT

Updated Corporate Presentation

Please find attached for release to the market, Xanadu Mining Ltd's (Xanadu) updated corporate presentation.

-ENDS-

For further information, please contact:

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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 an emerging Tier 1 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 Board of Directors.

AUSTRALIA c/o Company Matters Pty Limited Level 12, 680 George Street Sydney NSW 2000 T: +612 8280 7497 MONGOLIA Suite 23, Building 9B Olympic St, Sukhbaatar District Ulaanbaatar, Mongolia T: +967 7012 0211 Xanadu Mines Ltd ACN 114 249 026

www.xanadumines.com

Discovering & growing globally significant copper deposits in Mongolia

> ASX: XAM | TSX: XAM 13 September 2021

Disclaimer

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Drilling Results and JORC: The information in this report relates to the exploration results previously reported in ASX Announcements which are available on the Xanadu website at https://www.xanadumines.com/site/investor-centre/asx-announcements. Xanadu is not aware of any new information or data that materially affects the information included in the ASX Announcements referenced in the attached slides, and all material assumptions and technical parameters underpinning the estimates continue to apply and have not materially changed.

Currency: All currencies in this presentation are in Australian dollars unless otherwise stated.

Competent Persons: Please refer to the Appendix of this presentation for Competent Person's Statement.

XANADU

Introduction & Agenda

ABOUT XANADU

WHY MONGOLIA?

WHY COPPER?

KHARMAGTAI A GROWTH STORY

RED MOUNTAIN A DISCOVERY PROJECT

WHY INVEST IN XANADU?

About Xanadu

Progressing two high-quality, gold-rich porphyry copper projects in the highly prospective South Gobi region of Mongolia: **Kharmagtai** and **Red Mountain**

DISCOVERY

GROWTH

Kharmagtai is already one of the largest undeveloped Cu-Au deposits globally, with 2018 JORC MRE of 0.6Bt, containing 1.9Mt Cu & 4.3Moz Au¹.

Red Mountain is an earlier stage exploration project targeting both porphyry copper and high grade vein style discoveries. Our **Aspirational Target** at Kharmagtai is to grow the total resource to >1.0Bt and to double the higher grade component to >100Mt.

Kharmagtai deposits remain open with grades increasing at depth. Ongoing drilling will test these targets. An **Updated Mineral Resource Estimate** for Kharmagtai incorporating all new drilling since 2018 is underway, expected Q4, CY21.

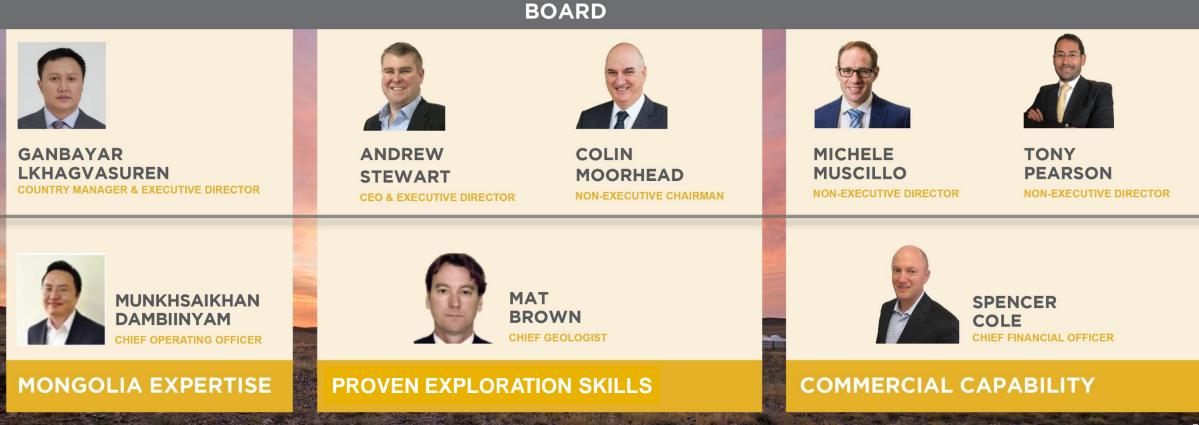
DEFINITION

Preliminary concept studies indicate Kharmagtai will be amenable to conventional bulk mining & sulphide flotation.

Highly experienced Directors & Management

XANADU MINES

Track record of discovering & developing multiple large scale porphyry copper deposits



World class advisory team

On the pathway to development, Xanadu has engaged industry leading experts

XANADU MINES

GEOLOGY EXPERTISE



Barry Dewett (Geophysics)

Former Chief Geophysicist of HPX and Ivanhoe Mines. Retired as Global Practice Leader in geophysics at BHP Billiton Minerals Exploration with 31 years experience.

GEO TEK

Geotek (Artificial Intelligence core scanning)

Specialist partner in high resolution, non-destructive analysis of geological cores, developing AI systems in partnership with Xanadu.

EXPLORATION KNOWLEDGE



Rob Spiers (Resource Geology) Independent geologist with over 30 years experience across multiple commodities and jurisdictions. Competent person under JORC and NI43-101.

Paul Dunham (Development Geologist)

Economic geologist with extensive porphyry copper-gold experience and 40 years in exploration, resource drill-outs, estimation and development studies.

MINING CAPABILITY



Geoff Dunston (Block Cave Design)

International leader in all phases of large scale underground mining, with over 30 years experience across Americas, Africa and Asia.



Gerald Whittle (Surface Mine Optimisation)

Thought Leader and CEO of Whittle Consulting - the leading global practitioners of Integrated Strategic Planning, a holistic approach to life of mine, processing and production planning.

MARKET ENGAGEMENT



Anna Kassianos

corporate development and strategy.

(Investor Relations and Corporate Advisory) Resource industry advisor with 20 years in funds management, equities research & investment,



Jonathon Lew (Major Studies)



Accomplished Study Manager with 40 years experience in studies, evaluation, and exploration, including 30 years at CRA/Rio Tinto.

METALLURGY EXPERTISE



Andrew Goulsbra (Metallurgy)

Metallurgist with 30 years experience at lvanhoe Australia and Newcrest Mining, with speciality skills in extractive metallurgy of gold, copper, molybdenum, rhenium and mineral sands.

Focused on ESG and social licence to operate

Our 1st Sustainability Report will be released 4Q'2021





SOCIAL & COMMUNITY

- Mongolian workforce includes Xanadu's Chief
 Operating Officer & Country Manager
- University sponsorships & internships for local students
- Equipment & supply donations to hospital & schools
- Free medical check-ups for local community
- COVID19 vaccinations provided for all in country employees

ENVIRONMENT

- Operations utilise non-potable water sources
- Potable water well monitoring and maintenance for community
- Camp upgrades improve energy use and sewerage handling
- Studies aim to reduce environmental footprint of a future operation:
 - Reduced energy intensity leveraging technology to reduce grinding and haulage (e.g. coarse particle separation, underground sorting)
 - Reduced direct emissions electrified underground fleet and haulage systems



Building an effective capital foundation

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A\$0.03 Share Price

as at 31/08/2021

A\$26.9M Enterprise Value Market Cap at A\$0.03/share A\$10.8M

A\$37.7M

Cash Balance

60% TOP 20 SHAREHOLDERS

INSTITUTIONAL SHAREHOLDERS

BOARD AND MANAGEMENT

6% (on a fully diluted basis, includes 25m shares & 52m performance options)

ACA 18% SSI 10% Others 21%

1,255.6M Share on issue

Why Mongolia & the South Gobi?

Two highly prospective districts in a pro-mining jurisdiction

- **Excellent infrastructure** leverage for low-capex intensity development
- Pro-mining jurisdiction in 2020, mining accounted for 23% of Mongolia's GDP & 70% of export revenues¹
- Significant mining region tops Investment Monitor's 2021 Mining Vulnerability Index¹, followed by Zambia & Australia
- Stable democratic system 30-yr history of democratic elections
- Favourable ESG position social license to operate enables shorter lead times to production

KHARMAGTAI Cu-Au DISTRICT

Earning up to 85% Emerging Global Scale mining district

Significant & growing MRE 0.6Bt containing 1.9Mt Cu & 4.3Moz Au at Kharmagtai ³

RED MOUNTAIN Cu-Au DISTRICT

Ownership 90%; JOGMEC earning up to 51% by spending US\$7.2m Exploration focused on a significant Cu-Au porphyry district

ps://investmentmonitor.ai/business-activities/extractive-industries/mongolia-and-australia-among-countries-that-will-suffer-the-most-in-a-mining-dov rquoise Hill Resources Ltd. Oyu Tolgoi 2020 Technical Report https://mrdata.usgs.gov/sir20105090z/show-sir20105090z.php?id=456 SX/TSX Announcement 31 October 2018 – Major Increase in Kharmagtai Open-Cut Resource to 1.9Mt Cu & 4.3Moz Au Mining Licenses granted over a 127km² landholding

Ulaanbaatar

MONGOLIA

OYU TOLGOI

TSAGAAN SURVARGA2

Projects operated by publicly listed exploration, development and operating companies in Mongolia.

Mongolia is a place where miners do business

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Emerging mining region

- +40,000 Mongolian mining employees, (including ~ 97% of Oyu Tolgoi's ~15,000 staff)
- 70% of the land is under-explored
- 27 projects operated by listed mining & exploration companies in country
- Low Population Density: 3M people in the world's 18th largest country

Competitive regulatory regime

- 25% corporate income tax
- Investment stability agreements negotiated for new mine developments
- Australia-Mongolia Foreign Investment Promotion & Protection Agreement (FIPA)

Stable, Well Educated Democracy

- 30-year history of democratic elections
- Well educated, young population with 98% literacy rate

Mongolia's Mining Economy¹

Foreign direct investment in Mongolia's extractive industries – which are based on extensive deposits of copper and other minerals has transformed Mongolia's landlocked economy from its traditional dependence on herding and agriculture.



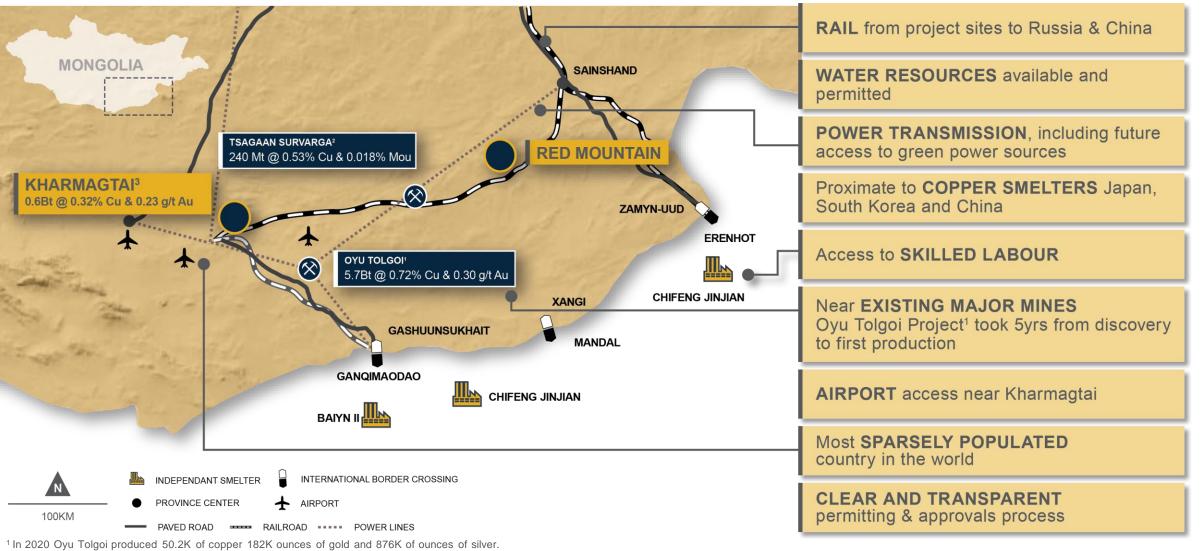
On the doorstep of the world's biggest consumer

>60% of Mongolia's	China accounts for ~53%	China consumption of
external trade comes	refined copper consumption	refined copper up 17%
from China	globally in 2020	yoy to 3.2Mt in Q1 2021

Strong infrastructure and favourable ESG environment

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Enables competitive capital intensity and short development time



² Turquoise Hill Resources Ltd. Oyu Tolgoi 2020 Technical Report https://mrdata.usgs.gov/sir20105090z/show-sir20105090z.php?id=456

³ ASX/TSX Announcement 31 October 2018 – Major Increase in Kharmagtai Open-Cut Resource to 1.9Mt Cu & 4.3Moz Au

Why Copper?

PRODUCTION DYNAMICS

- declining supply and fewer discoveries

ECONOMIC GROWTH

growing demand from industrialising and urbanising economies

• GREEN DEMAND MEGATRENDS

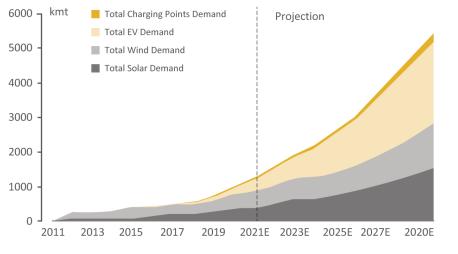
– a key enabler for global electrification



A global copper supply deficit is looming

Exponentially growing demand from green electrification & reserve depletion leading to looming copper shortage

Copper demand, per year, from green sectors



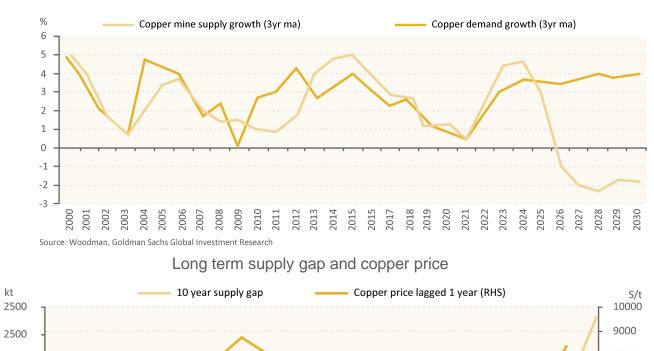
Source: Woodman, Goldman Sachs Global Investment Research

Reserve Changes per year (mm t)

	2006 - 2014	2014 - 2020	Change
New Mine Additions	5.5	5	-9%
Brownfield Reserve Additions	21	8	-62%
Production	-12	-13	8%
Net Reserve Additions	15	0	-100%

Source: Geohring & Rozencwajg - Natural Resource Commentary Q1 2021

Current prices are not high enough to incentivise further Greenfields exploration Deficits would generate a depletion of market inventories by early 2023/2024 & push prices higher



Copper mine supply growth vs copper demand growth

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Source: Woodman, Goldman Sachs Global Investment Research

Electrification & technology megatrends are driving increased copper demand

ELECTRIC VEHICLES (EV)

- Government regulation drives
 net-zero emissions
- EVs require 2.6x the copper used for internal combustion

POWER GENERATION

- Renewable energy growing 30-40% annually
- Requires up to 60% more copper than traditional power generation

CONSTRUCTION

- Cities moving to smart, green infrastructure
- Increased IT systems and energy efficient design
- Requires high copper intensity
 heating and cooling systems



Kharmagtai – a growth story

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Our flagship project, in a world class copper district

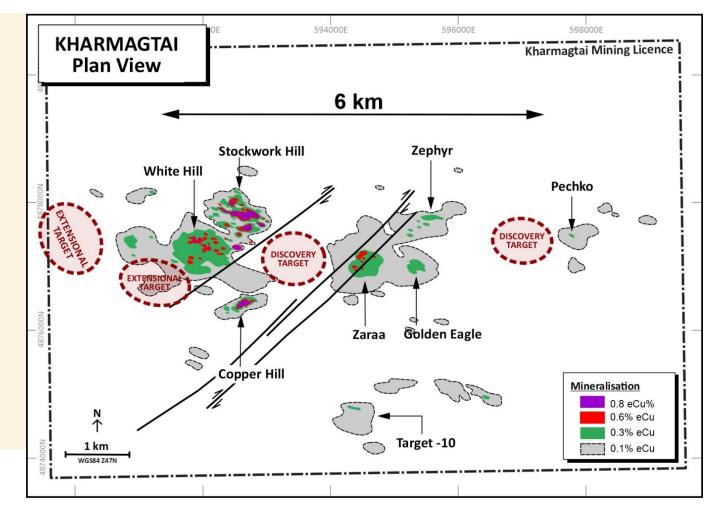
0.6Bt Resource, containing 1.9Mt Cu & 4.3Moz Au¹

Development project with initial Concept Study completed

Updated Resource to be released Q4'2021

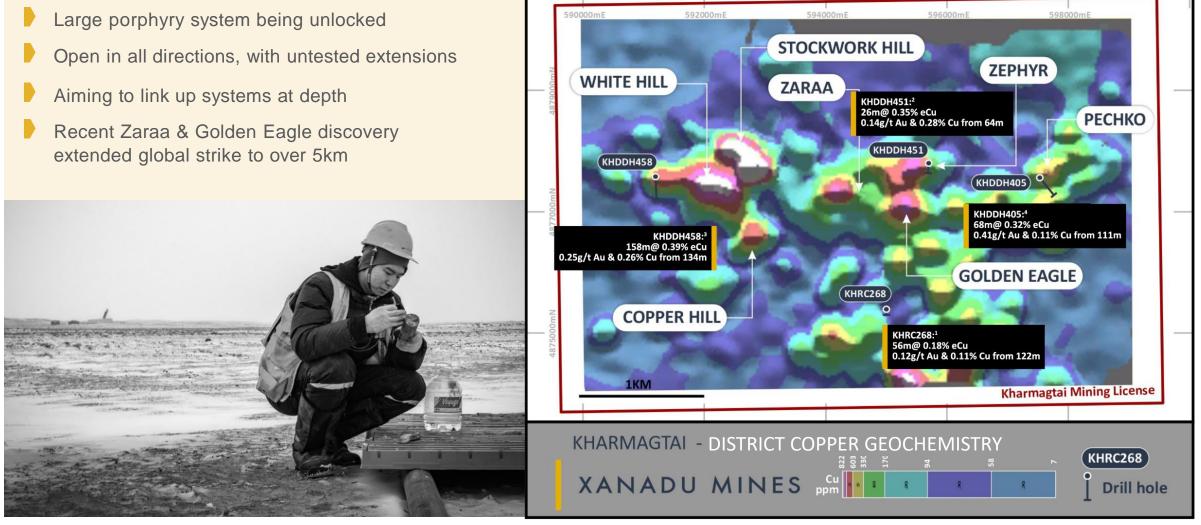
70km² granted mining licence with 30 yrs tenure & option to extend another 40 yrs

- +200km drilled
- Strike recently extended 5km for recent Zaraa & Golden Eagle discoveries
- Mineralisation outcrops at surface
- Limited drilling below 400m is untapped opportunity
- Linking system at depth is future growth potential



Exploration upside, grade increasing with depth

Extension drilling unlocks scale of the system



A truly significant porphyry district

New systems continue to be unlocked through discovery drilling

EXPLORATION SCORECARD

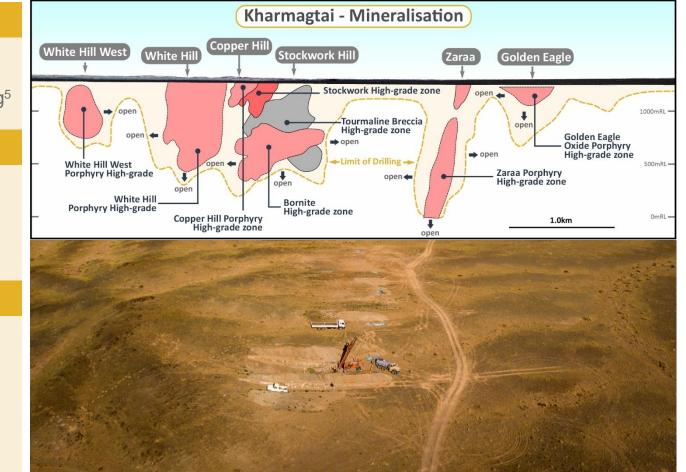
- 5 subsurface discoveries out of 10 prospects drilled
- <\$0.01/lb CuEq discovery cost vs ~\$0.07/lb industry avg⁵

COMPLEX DISTRICT

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

PORPHYRY DEPOSITS ARE MADE NOT FOUND

- Aiming for new systems & new high grade
- Link existing systems at depth
- Highly prospective for new discovery
- Several priority targets drilled in 2021



¹ ASX Announcement 31 March 2016 – Quarterly Activities Report

² ASX Announcement 31 March 2018 – Quarterly Activities Report

³ ASX Announcement 19 April 2018 – Kharmagtai – New Copper Porphyry Centre Discovered (Zaraa)

Studying a contemporary design & conventional approach

Led by our expert advisory panel

KHARMAGTAI POTENTIAL MINE DESIGN White Hill Copper Hill Stockwork Hill Zaraa Golden Eagle

Stockwork Hill

>2.0 0.8

Block Model (eCu%)

Block Cave Design

INFRASTRUCTURE

1000mRI

500mRI

OmRL

White Hill Lower

Block Cave Design

- Flat & stable topography reduces cost
- Existing regional power infrastructure in place

White Hill Upper Block Cave Design

- Industrial, non-potable water sources available
- Conventional tailings & mine waste management for desert climates

MARKETING

Nearby rail facilitates shipping to port

Open Pit

Design

Zaraa

Block Cave Design

1.0km

- Close to regional smelters in Japan, South Korea & China
- Large gold credits due to high Au-Cu ratio

MINING

1000mRL

500mRL

- · Conventional bulk mining
- Open pit and underground caving
- Staged to accelerate cash flow

PROCESSING

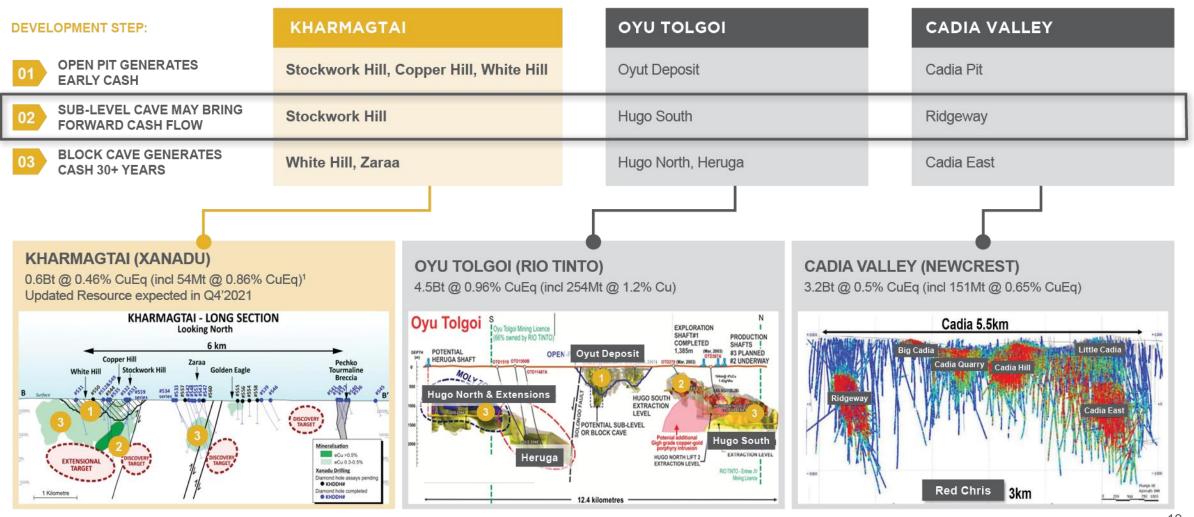
- Conventional crushing, milling & flotation
- Staged expansion to match grade profile
- Conceptual designs completed

METALLURGY

- · Significant metallurgical test work completed
- Strong Cu & Au recoveries
- Saleable Cu concentrate with no deleterious elements

Following a proven porphyry development path

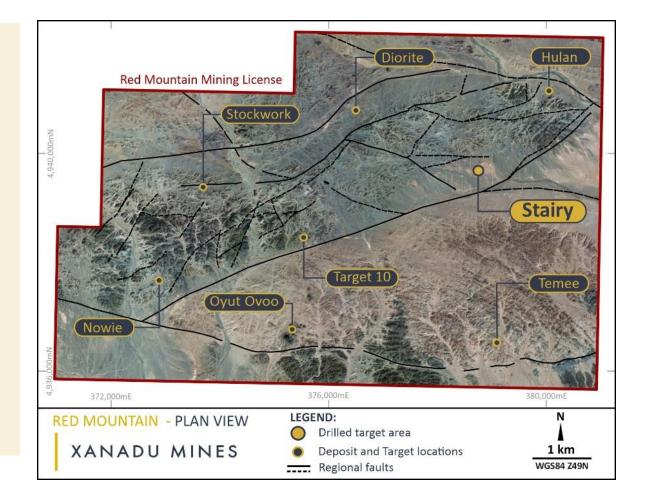
Possibly a similar approach as other global Tier 1 operations

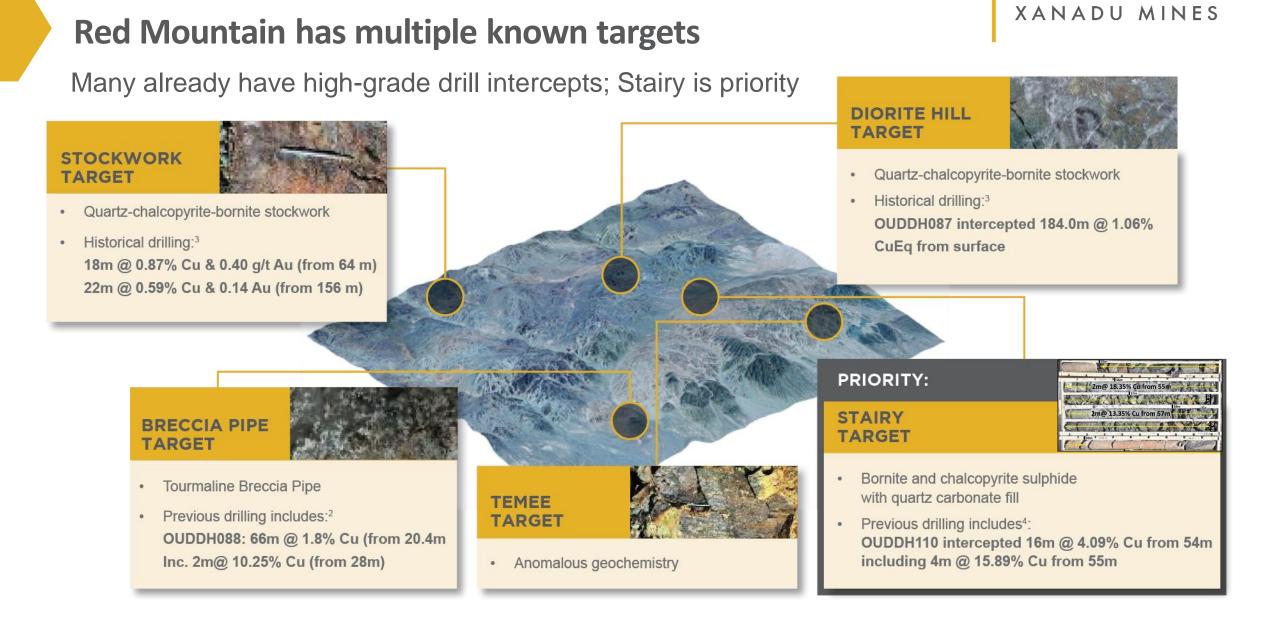


Red Mountain – a discovery project

Early stage & highly prospective, with JOGMEC¹ on board as our partner

- Advanced exploration project
 - Outcropping at surface
 - 4 mineralised Cu-Au systems
 - 2 epithermal Au-Ag systems
 - High-grade, shallow diamond drill intersections and trench assays
- Located 265km east of Kharmagtai
- Tenement size 57km²
- Already has a 30-year, extendable mining license
- JOGMEC spends US\$7.2m to earn 51% of the project



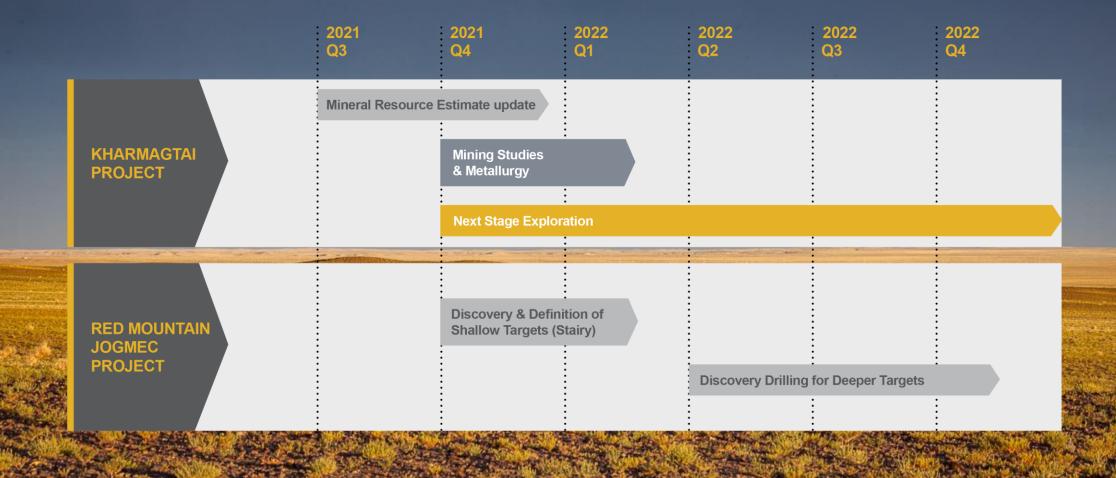


¹ ASX/TSX Announcement 28 Jun 2017 - Oyut Ulaan Exploration Update ² ASX/TSX Announcement 19 July 2017 - Oyut Ulaan Exploration Update ³ Oyut Ulaan project presentation dated June 2013

⁴ ASX/TSX Announcement dated 22 Mar 2021S - hallow Bornite-Rich Copper Mineralisation at Red Mountain

Focus is exploration & discovery at both projects

Aiming for a partner to progress Kharmagtai to next stage



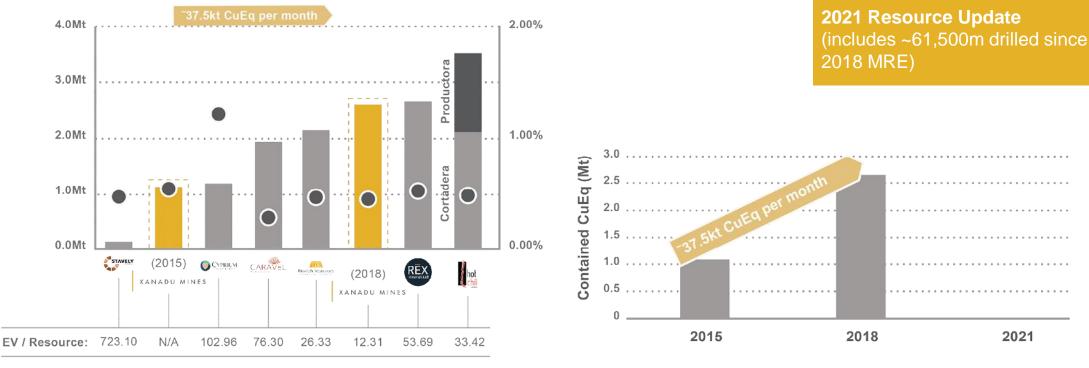
Why invest in Xanadu?

	MAJOR COPPER RESOURCE ¹	GROWTH POTENTIAL	LOW TECHNICAL RISK	FAVOURABLE JURISDICTION	E
The Right Projects	Kharmagtai Resource of 0.6Bt containing 1.9Mt Cu & 4.3Moz Au, including 54Mt at >0.8% CuEq. Update planned in Q4 2021.	Kharmagtai open & growing in both tonnes & grade. Red Mountain highly prospective with multiple targets.	Kharmagtai should be amenable to conventional bulk mining & ore processing yielding a clean Au rich Cu con.	Mongolia is a stable democracy; mining driven economy; low ESG risk, great people; established infrastructure	
	AMBITIOUS EXPLORATION	EXCELLENT LEADERSHIP	FUNDED TO EXECUTE STRATEGY	ESG FOCUS	
The Right Company	Targeting >1Bt incl. >100Mt high grade at Kharmagtai; new discoveries at Red Mountain. Low-cost	Highly credentialed Management & Board with a track record of discovery; world class Advisory	\$10.8m cash in bank; but open to partnership with a major to accelerate Kharmagtai project	Operations conducted to high ESG standards; Kharmagtai has potential to be long life, low cost & high tech modern Cu mine	

APPENDIX

Kharmagtai Resource continues to grow

Already one of the largest copper districts controlled by an ASX junior Resource update expected Q4 2021



* XAM updated Mineral Resource due late 2021; aiming to move towards a medium term objective of >1 billion tonnes @ >0.5% eCu, including >100 million tonnes @ >0.8% eCu

Source: S&P Global Market Intelligence, Company Disclosure CuEq Resource figures are calculated by CuEq = Cu +0.315Zn+0.244Pb+0.0059Au+0.000079Ag, which the underlying commodity prices are Cu=\$9,494/t, Zn=\$2,989/t, Pb=\$2,313/t, Au=\$1,733/oz, Aq=\$23.35/oz

Current Mineral Resource of 0.6Bt containing **2.6Mt CuEq**¹

¹ ASX/TSX Announcement 31 October 2018 – Major Increase in Kharmagtai Open-Cut Resource to 1.9Mt Cu & 4.3Moz Au

Higher grade core of 54Mt @ 0.86% CuEq¹

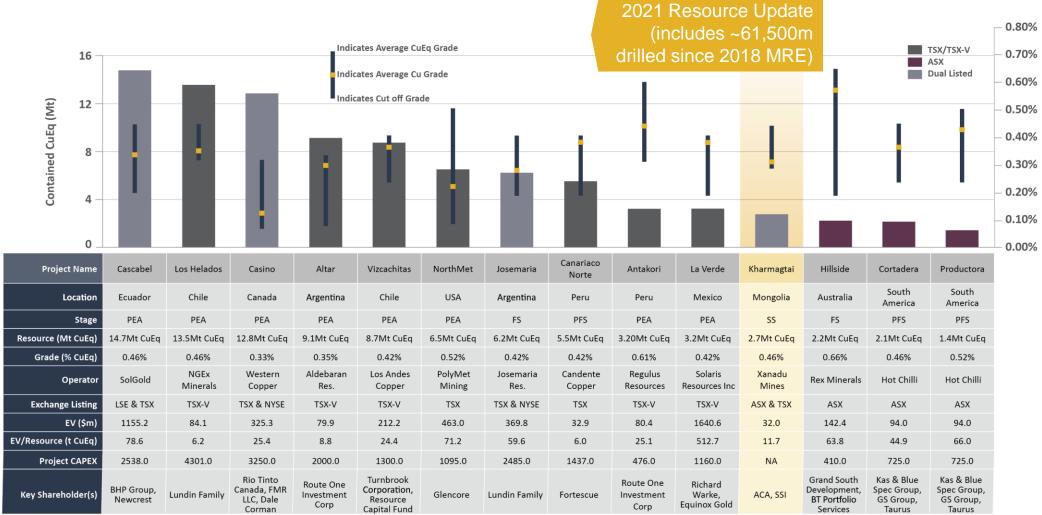
Resource has grown at ~37.5kt CuEq per month since XAM commenced exploration in 2016 Low discovery cost <\$0.01/lb CuEq

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Moving up the global ranks

Already ranks among the largest undeveloped Cu mineral resources in the world (not controlled by a major mining company)

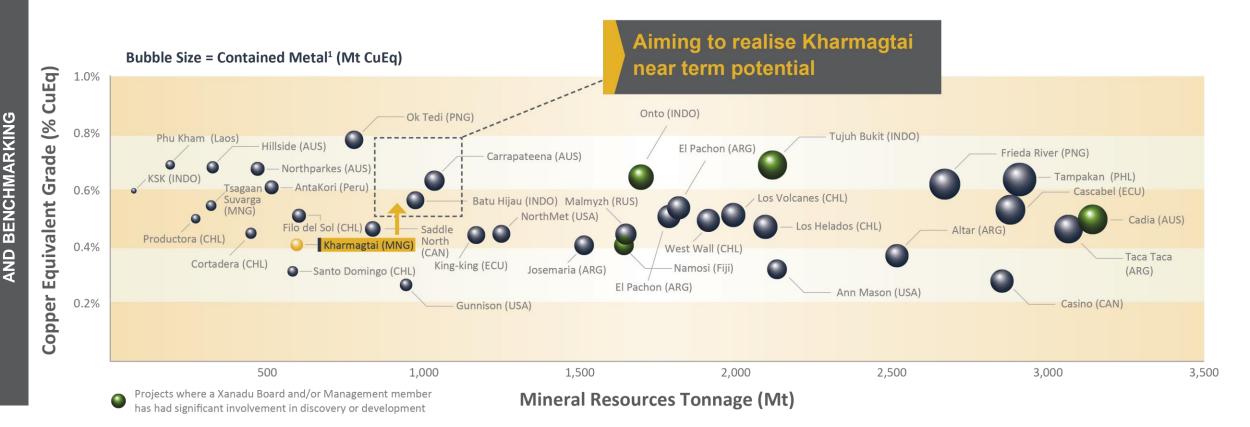


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Joining an elite club of global projects

Kharmagtai moving to a significant position among global peers



ESOURCE GROWTH

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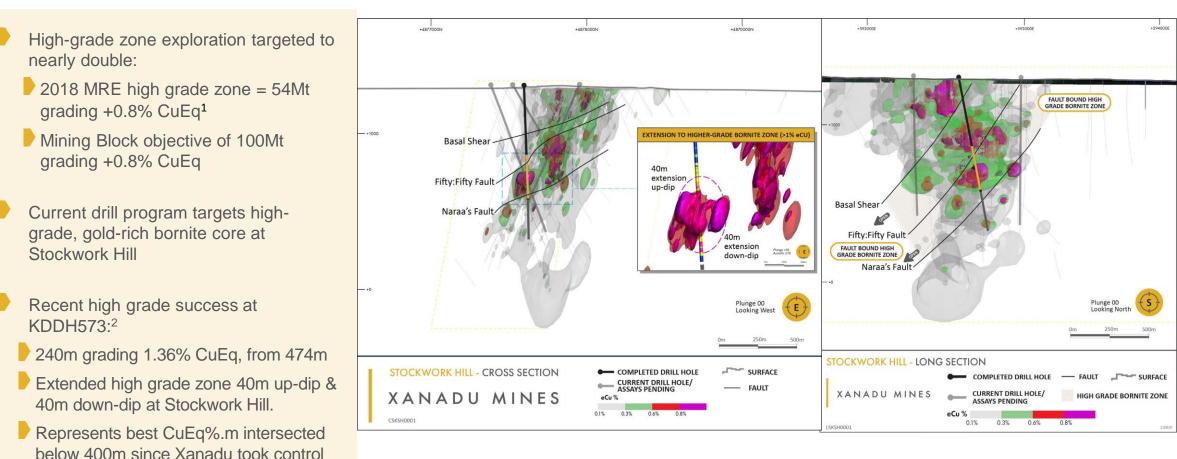
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APPENDIX

Targeting the high-grade core

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Gold-rich, bornite zones are key to accelerating cash generation



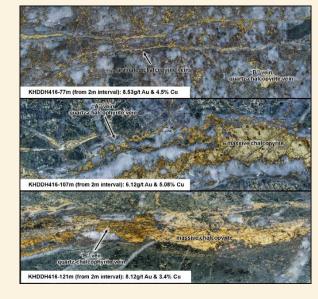
¹ ASX/TSX Announcement 31 October 2018 – Major Increase in Kharmagtai Open-Cut Resource to 1.9Mt Cu & 4.3Moz Au ² ASX/TSX Announcement 16 August 2021 – Vertical Extension of High-Grade Bornite Zone at Stockwork Hill

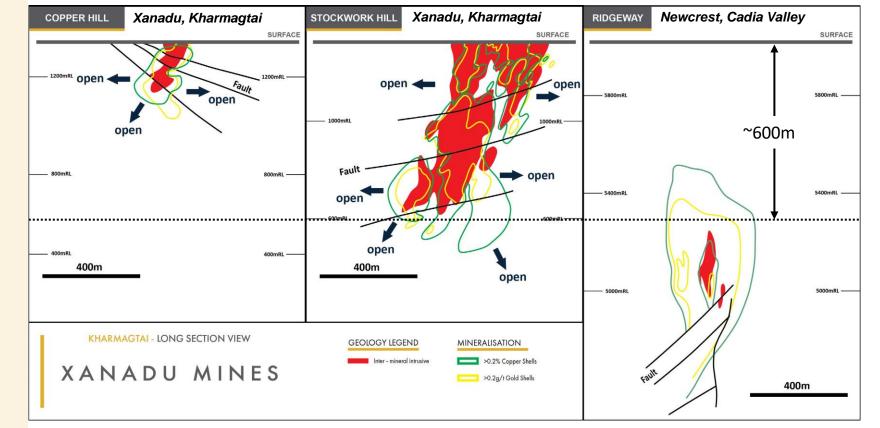
Significant potential to define more high-grade at depth

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Strong growth upside beneath current bornite zones

- Mineralised intrusive indicates still in shallow levels of system
- Bornite zones starting to be uncovered
- Open in all directions, with significant upside at depth

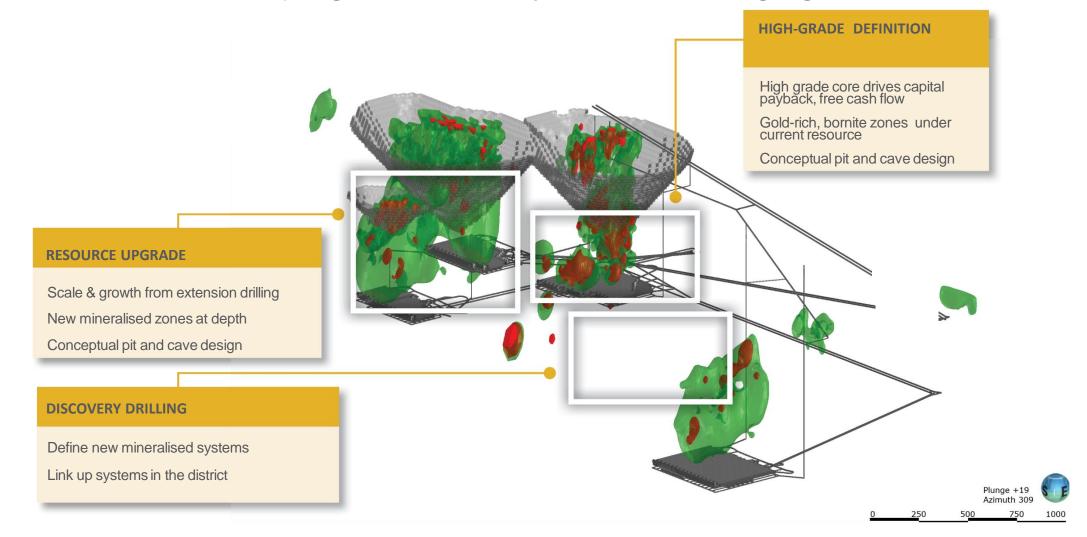




Drilling for growth & de-risking a future development

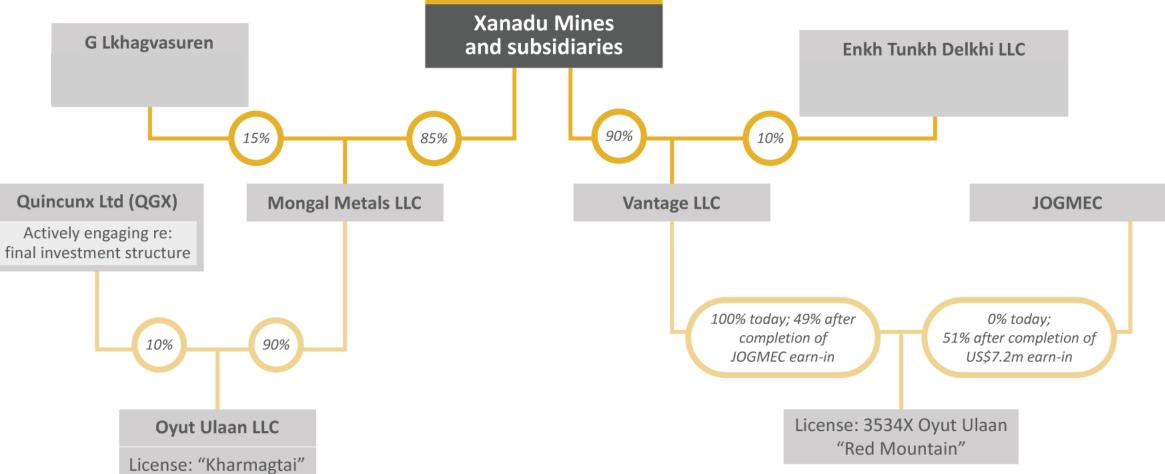
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23km diamond drill program underway, focused on high grade



Clear ownership structure

Working to further simplify



Clear permitting steps for development

STEP	PERMITS AND DOCUMENT FILING	GOVERNING AUTHORITIES	KHARMAGTAI	RED MOUNTAIN	GOVERNING LEGISLATION
1	Agreement to compensate state exploration expenditure (if any)	Minerals Authority	Complete and paid back	Not in place	Minerals Law 60.1 clause requires this agreement needs to be in place at least 60 days prior to a mining operations
2	Feasibility study update	Minerals Authority	next update due 2024	next update due 2024	Mineral law 48.6.1 clause - update required every 5 years
3	Comprehensive environmental impact assessment	Ministry of Environment, Minerals Authority	2024	2024	Minerals law 39.1.5, Environmental law Section 8 - update required every 5 years
4	Resource update with mining license granted	Minerals Authority	pre-mining	pre-mining	Minerals law 48.6.3 clause
5	Land usage agreement and land usage licenses	Local Governors /aimag, soum/	pre-mining	pre-mining	Following a decision by respective local governors
6	Water usage agreement and water usage license	Ministry of Environment and agencies	pre-mining	pre-mining	Minerals law 27.1.11, 35.3.7. Based on water usage feasibility
7	Cooperation agreement with local governors	Local Governors	pre-mining	pre-mining	Minerals law 42.1, Government resolution 179 from 2016. Assess prior performance as basis.
8	Mine and plant commissioning permit	Ministry of Mining & Heavy Industry	pre-mining	pre-mining	Minerals law 35.4
9	Engineering drawings of concentration plants and auxilliary plants, buildings and tailings	Ministry of Mining & Heavy Industry	pre-mining	pre-mining	Minerals law 39.1.4.3, Environmental law 21.3, Construction law 4.1.30.
10	Emergency operations plan	Special emergency authority	14 days before mining	14 days before mining	Emergency law 8.1 clause

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.

The information in this announcement that relates to Mineral Resources is based on information compiled by Dmitry Pertel who is responsible for the Mineral Resource estimate. Mr Pertel is a full-time employee of CSA Global and is a Member of the Australian 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 "Qualified Person" as defined in the CIM Guidelines and National Instrument 43-101. Mr Pertel consents to the inclusion in the report of the matters based on this information in the form and context in which it appears.

The information in this report that relates to the Scoping Study is based, and fairly reflects, information compiled by Gordon Zurowski, P.Eng is a registered Professional Engineer in Ontario, Canada. Mr Zurowski is employed by CSA Global, independent resource industry consultants. Mr Zurowski has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Zurowski consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

The information in this announcement that relates to metallurgical test work is based on a summary of results compiled by Andrew Holloway who is responsible for metallurgical and process engineering aspects of the project. Mr. Holloway, who is a principal of AGP Mining Consultants Inc. (Toronto, Canada) and is a Professional Engineer in Ontario, Canada, 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. Mr Holloway consents to the inclusion in the report of the matters based on this information in the form and context in which it appears.

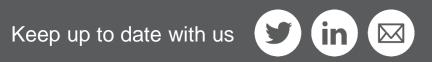
The information in this announcement that relates to exploration results is based on information compiled by Dr Andrew Stewart who is responsible for the exploration data, comments on exploration target sizes, QA/QC and geological interpretation and information. Dr Stewart, who is an employee of Xanadu 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. on that date (Prospectus).

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