

Kharmagtai copper-gold project

February 2014

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The information in this report relating to Exploration Results and Exploration Targets is based on information compiled or reviewed by Dr. Andrew Stewart, who is an employee of Xanadu Mines and is a Member of the Australasian Institute of Geoscientists. Dr. Andrew Stewart 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". Dr. Andrew Stewart consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

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Contact details

Kharmagtai highlights

► Advanced copper-gold project with excellent potential for new discoveries

Porphyry district	 High-grade, gold-rich porphyry copper mineralisation Significant prospects defined by extensive exploration
Exploration Target ¹	 250-400Mt @ 0.25-0.30% Cu & 0.25-0.30g/t Au 50-80Mt @ 0.40-0.50% Cu & 0.6-0.8g/t Au
New discoveries	Numerous drill-ready targetsLarge licence only partially explored
Strategic location	 South Gobi power and rail infrastructure Adjacent to key Chinese copper market
Value proposition	 Low cost, high impact exploration program Aspirations to be next Asian mid-tier copper operator

Kharmagtai is one of the most advanced, undeveloped copper projects in Mongolia

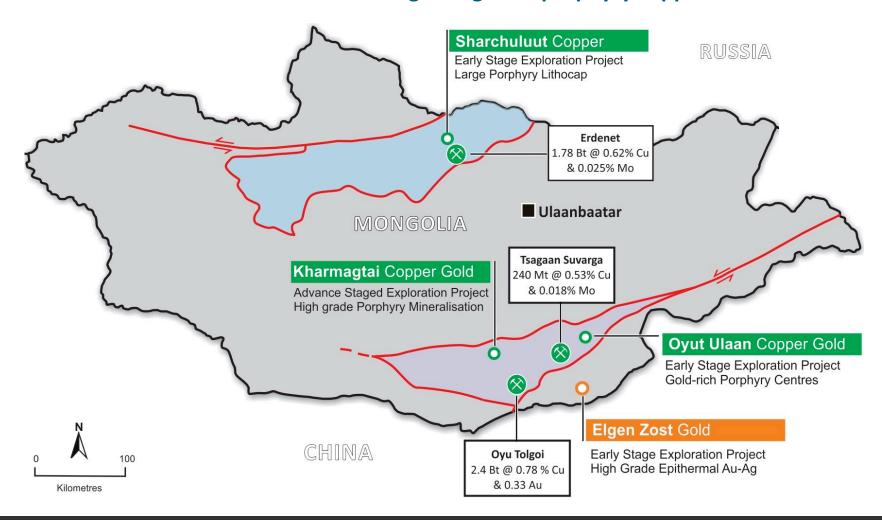
^{1.} Refer to slide 8 in relation to the Exploration Target under the JORC 2012 code.



Strategy

Project portfolio

➤ Xanadu is at the forefront of unlocking Mongolia's porphyry copper belts



Kharmagtai history

Extensive exploration undertaken over 2002 – 2011 period

- 171 diamond drill holes (63,893m) as set out in adjacent table
- 208 regional RC drill holes (27,747m)
- 119 trenches (65,636m) completed
- Geophysics includes:
 - > gradient array IP (289 km²)
 - ground magnetics (589 km²)
 - > ground gravity (39 km²)
 - aerial magnetics and aerial gravity
- Detailed geological mapping
- Rock-chip geochemistry (2,960 samples)
- Refer to JORC 2012 Table 1 in 3 Feb release

	Prospect	# Holes	Meters
2002	AT	18	6,235
	TS	17	6,234
	ZU	41	10,176
	Regional	7	2,430
2003	AT	18	5,127
2004	AT	22	8,519
	Regional	6	2,234
2005	AT	2	496
	TS	4	1,415
	ZU	2	844
2007	AT	4	1,538
	TS	1	496
	ZU	1	300
	Regional	9	2,804
2011	AT	7	5,891
	TS	2	1,781
	ZU	1	550
	Regional	9	6,824
Total		171	63,893

Exploration Target

► Global: 250-400Mt @ 0.25-0.30% Cu & 0.25-0.30g/t Au

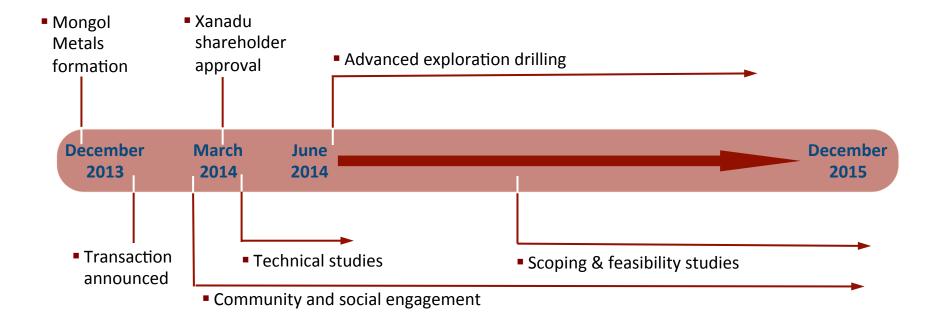
► High-grade: 50-80Mt @ 0.40-0.50% Cu & 0.6-0.8g/t Au

	Scale	Representative intersections
Altan Tolgoi	South: 550m long x 600m deep North: 250m long x 150m wide x 350m deep	KHDDH240 - 245m grading 0.75% Cu and 2.48 g/t Au (from 3m) KHDDH259 - 203m grading 0.45% Cu and 2.45 g/t Au (from 3m) KHDDH281 - 210m grading 0.63% Cu and 1.61 g/t Au (from 28m)
Zesen Uul	350m long and 100m wide body that plunges to the southeast	KHDDH006 - 182m grading 0.47% Cu 0.52 g/t Au (from 108m) KHDDH004 - 94m grading 0.65% Cu 2.06 g/t Au (from 98m) KHDDH021 - 88m grading 0.85% Cu 1.30 g/t Au (from 50m)
Tsagaan Sudal	At least 850m long, 550m wide and 500m deep	KHDDH301 - 527 m grading 0.32% Cu 0.34 g/t Au (from 22m) KHDDH324 - 528 m grading 0.36% Cu 0.22 g/t Au (from 148m)
Tourmaline	Below 200m depth, and are open to the east and at depth	KHDDH283 – 562m @ 0.36% Cu & 0.34g/t Au (from 194m) KHDDH263 – 354m @ 0.48% Cu & 0.50g/t Au (from 304m) KHDDH275 – 298m @ 0.45% Cu & 0.58g/t Au (from 358m)

The potential quantity and grade of the Exploration Target is conceptual in nature. There has been insufficient exploration to estimate a Mineral Resource under the JORC 2012 code and it is uncertain if further exploration will result in the estimation of a Mineral Resource.

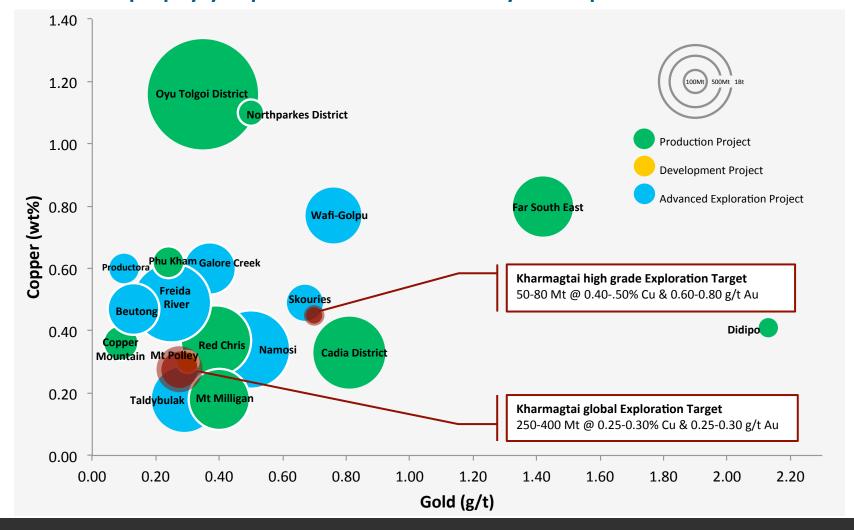
Exploration activities

- Xanadu has defined a plan to add value to the Kharmagtai project
 - Exploration activities underway to advance current understanding of mineralisation
 - Ready to implement drilling program to test the Exploration Target



Gold-rich porphyries

Gold-rich porphyry deposits can be economically developed at smaller scales



Mongolia profile

► Mongolia ranks highly against other minerals frontiers across broad criteria

Security	Stable environmentRobust democracy	
Regulatory	Supportive new investment lawExperienced regulators	Mongolia's investment risk is
Geography	 South Gobi power and rail infrastructure Favourable development environment 	oversold & it ranks highly
Economy	Open economyEstablished mining services sector	against other minerals frontiers
Markets	Strategic locationAdjacent to north Asia copper markets	Homilers



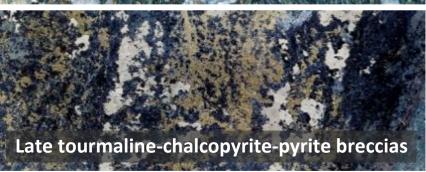
Geology

Gold-rich mineralisation

High-grade mineralisation characterised by high gold (ppm) to copper (wt%) ratios



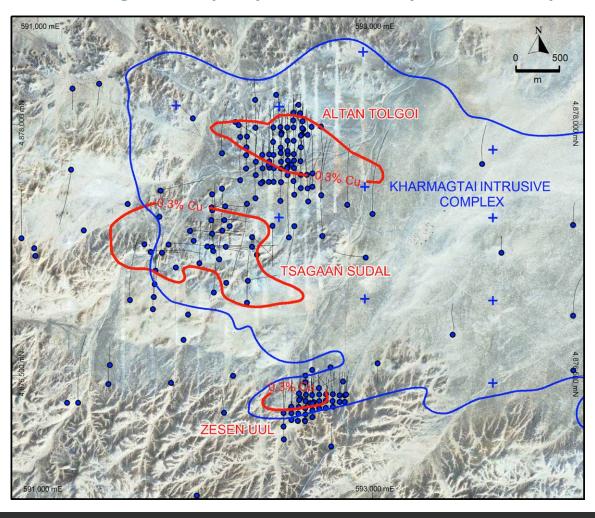




- Many of the classical elements of porphyryrelated hydrothermal alteration
 - Early albite-biotite alteration
 - Quartz-chalcopyrite stockwork associated epidote-magnetite albite alteration
 - Local high grade quartz-bornitechalcopyrite stockwork; with chloritemagnetite alteration and trace native gold
 - ➤ Late stage phyllic overprint associated with tourmaline breccias
- High-grade mineralisation characterised by high gold (ppm) to copper (wt%) ratios
- Mineralisation similar to the Lachlan Fold Belt porphyries (Cadia-Ridgeway)

Defined prospects

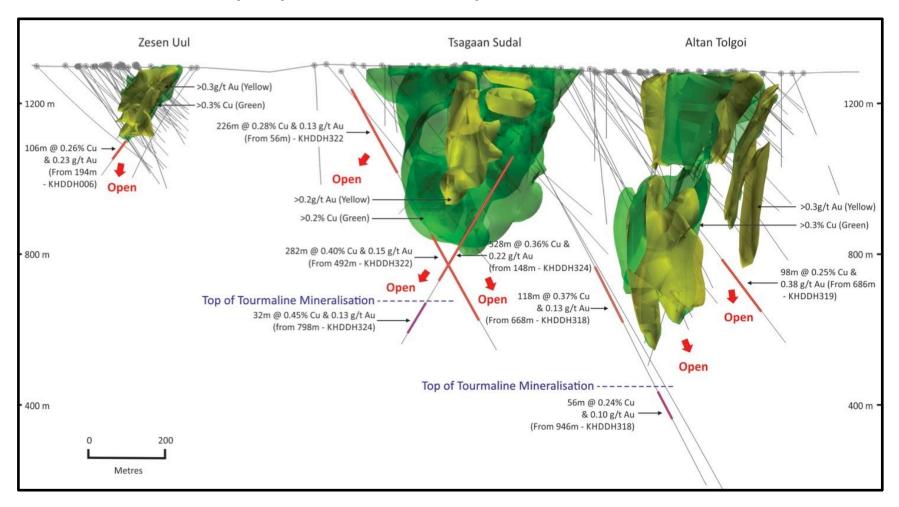
Three significant prospects defined by extensive exploration activity



- Gold-rich porphyry mineralisation as quartzchalcopyrite-pyrite stockwork zones
- Extensive exploration has identified significant porphyry mineralisation at:
 - > Altan Tolgoi
 - > Tsagaan Sudal
 - Zesen Uul
- Shallow mineralisation outcropping at surface
- Potential to be connected (amalgamate) at depth

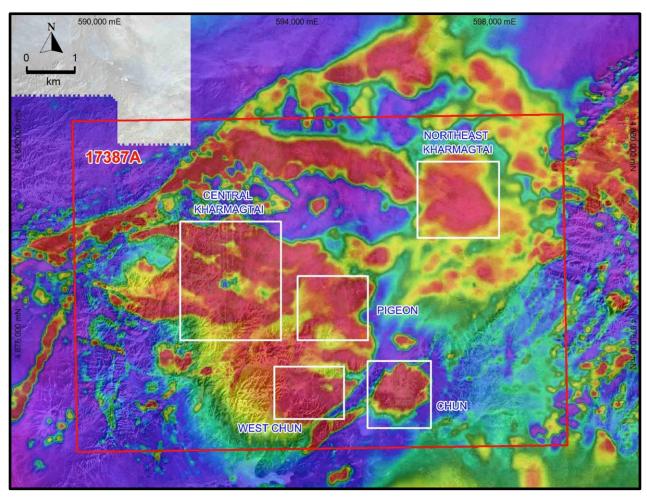
Exploration potential

► Shallow, clustered prospects that remain open in several directions



Discovery potential

Identified drill targets with excellent potential for new discoveries



- Strongly mineralised porphyry complex lies under unexplored shallow post-mineral sediments
- Mineralisation associated with magnetite alteration
- Numerous distinct circular magnetic anomalies
- The large licence area has only been partially explored
- Potential for further discoveries remains high



Transaction

Acquisition terms

► Mongol Metals JV company to acquire Kharmagtai for US\$14.0 million

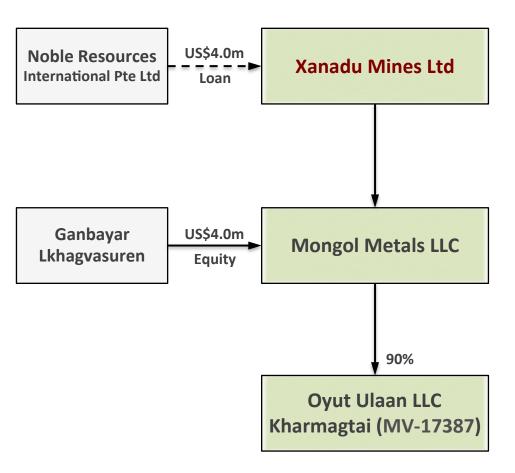
- JV company to acquire 90% interest in:
 - the Kharmagtai Mining License
 - associated data and materials
 - PP&E including the mine camp
- Xanadu will be granted an option to purchase the 3% net smelter royalty

- US\$14.0m total consideration including:
 - > a US\$500,000 deposit
 - ➤ US\$3,500,000 upon completion
 - ➤ US\$10.0m deferred for 18 months
- Xanadu shareholder approval is a condition precedent



Transaction structure

Unlocking value through partnership with Mongol Metals and Noble Group



- Transaction demonstrates the strength and value of Xanadu's strategic partnerships
- Xanadu project equity of around US\$0.9m for 18% by completion
- U\$8.0m new funds arranged:
 - US\$4.0m Mongol Metals equity
 - US\$4.0m Noble 3-year loan
- Xanadu appointed to Manage exploration and development
- Noble to be appointed marketing agent of copper concentrates



Xanadu profile

Corporate snapshot

- **Unlocking Mongolia's porphyry copper belts**
- Strategic position in emerging copper province
- First-principles exploration by experienced geoscientists
- Identified mineral targets with low exploration costs
- Experience running exploration programs in Mongolia
- Favorable development conditions close to infrastructure
- Commercially strong and senior-credentialed Board

Capita	Structure	(A\$)
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Share price ⁽¹⁾	7.0 c
Issued shares ⁽²⁾	205.3 m
Market capitalization	14.4 m
Cash ⁽³⁾	2.8 m
Enterprise Value	11.5 m
(1) as at 7 February 2014	

- (2) as at 21 January2014
- (3) as at 31 December 2013

Leadership

Chairman	Mark Wheatley
Managing Director	George Lloyd
Exec. Director	Ganbayar Lkhagvasuren
CFO	Mark Langan
Chief Geologist	Andrew Stewart

Strategic Investors

Sakari Energy (PTT)	12.4%
The Noble Group	9.3%

Non-executive directors

Broad technical, commercial and corporate experience in the natural resources sector

Mark Wheatley

Independent Chairman

- Independent non-executive board roles have included Chair of Gold One International Limited, Norton Goldfields Limited and Goliath Gold as well as directorships of St Barbara Mines Limited and Uranium One Inc. Currently a director of Uranium Resources Inc.
- CEO/Chair of Southern Cross Resources and CEO BMA Gold.
- Executive roles with BHP, BT, Goldfields, AurionGold.
- Chemical engineer and MBA.

Darryl Clark

Non-exec Director

- Vice President of Exploration for Cameco Corporation.
- Exploration geologist with over 20 years of experience in Australia, Central Asia and South East Asia.
- Corporate experience with both Vale and BHP Billiton, and in consulting roles including SRK.

Hannah Badenach

Non-exec Director

- VP of Asset Development & Operations at Noble Resources Limited.
- A lawyer with several years experience in Asia.
- Prior roles include MD of QGX Mongol LLC from 2006 until the company was sold in 2008.

Brian Thornton

Non-exec Director

- Co-founder of Xanadu and a director since 2005.
- 25 years experience as an adviser to the mining sector in Australia, Indonesia, Papua New Guinea and the Pacific Rim.

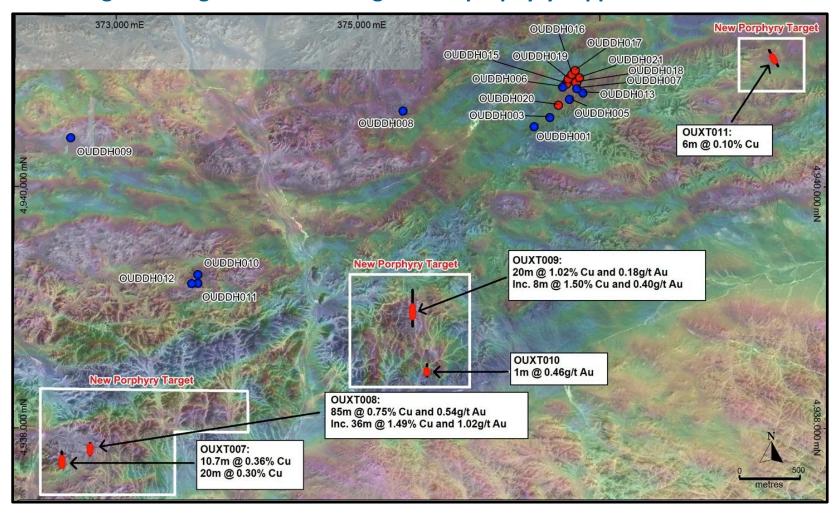
Management team

Deep corporate, porphyry exploration and emerging market experience

George Lloyd Managing Director	 Corporate and direct investment experience in the natural resources sectors. Mongolian experience including transactions in coal, copper and mining services. Prior roles include investments at a Singapore-based hedge fund, business development at Wesfarmers Limited and corporate finance with Grant Samuel.
Ganbayar L. <i>Executive Director</i>	 Co-founder of Xanadu and a director since August 2006. Extensive Mongolian business experience and perspective. Corporate development and managing the day-to-day operations.
Andrew Stewart Chief Geologist	 15+ years experience in minerals exploration throughout Asia and Eastern Europe. Expertise in porphyry copper and a Phd in Economic Geology. Prior roles include senior technical positions at Ivanhoe Mines and Vale
Mark Langan Chief Financial Officer	 Chartered Accountant with over 25 years experience in public practice and commerce. Substantial listed company and Asian operations experience. A member of the Institute of Chartered Accountants of Australia.
Janine Rolfe Company Secretary	 15+ years experience as a corporate lawyer and company secretary. Janine established Company Matters advising clients on governance and legal matters. Prior roles include Company Secretary at Qantas Airways Limited and a Solicitor at Mallesons Stephen Jaques (now King Wood Mallesons) in M&A and corporate advisory.

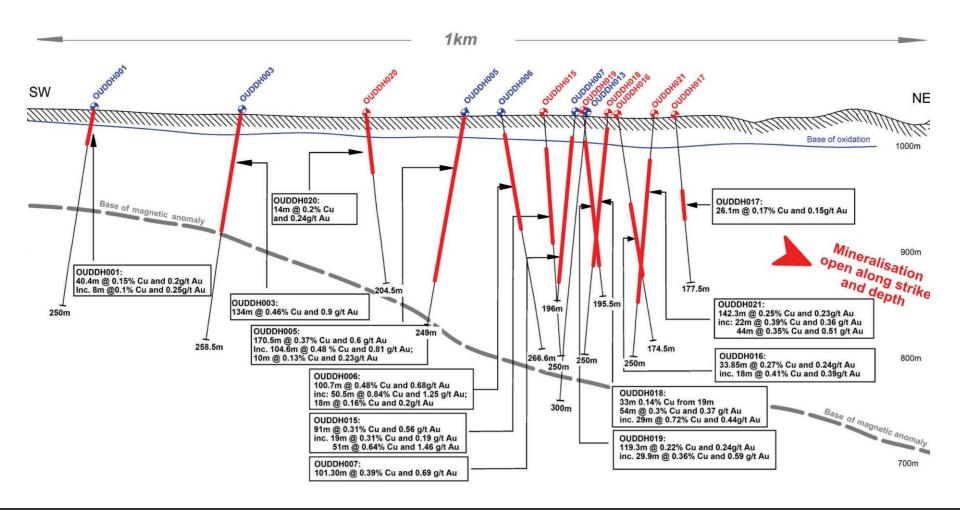
Oyut Ulaan

Trenching & drilling extend shallow gold-rich porphyry copper mineralisation



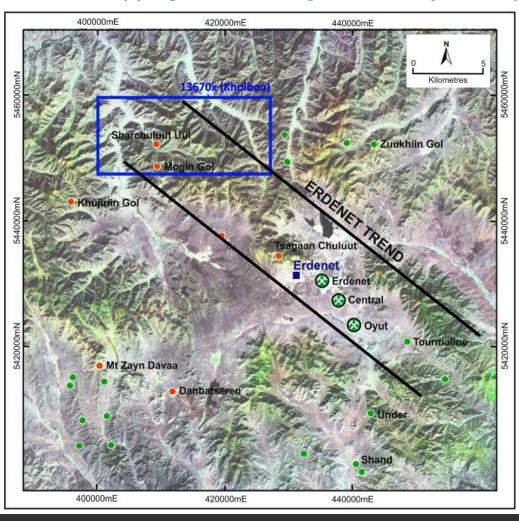
Diorite Hill long section

▶ Economically significant gold-rich porphyry copper intersections



Sharchuluut project

2013 mapping and surface geochemistry identify new drill targets



- Strategically located in the Erdenet trend, 40km north west of the Erdenet porphyry copper-moly deposit
- Erdenet is a giant porphyry coppermoly deposit of 1.8Bt @ 0.62% Cu and 0.025% Mo
- License is large and relatively underexplored
- High potential to discover a large satellite deposit within the Erdenet trend
- Project comprises over 7km² of porphyry related alteration and has associated untested geophysical targets



George A. Lloyd Managing Director

+852 6397 3308 (Hong Kong)

+976 9400 9211 (Mongolia)

george.lloyd@xanadumines.com

Mongolia

2nd Khoroo, AOS Street Military Town Bayanzurkh District Ulaanbaatar

Australia

Suite 1302, Level 13 167 Macquarie Street Sydney, NSW, 2000