

TSX:ERD MSE:ERDN OTC:ERDCF



DEVELOPING THE HIGH-GRADE KHUNDII GOLD DISTRICT

Unlocking treasures - sharing benefits

Precious Metals Summit Beaver Creek
September 2022

FORWARD LOOKING STATEMENTS



This presentation contains certain forward-looking information and statements which may not be based on fact, including without limitation, statements regarding the Company's expectations in respect of its future financial position, business strategy, future exploration and production, mineral resource potential, exploration drilling, permitting, access to capital, events or developments that the Company expects to take place in the future. All statements, other than statements of historical facts, are forward-looking information and statements. The words "believe", "expect", "anticipate", "contemplate", "target", "plan", "intends", "continue", "budget", "estimate", "may", "will" and similar expressions identify forward-looking information and statements. In addition to the forward-looking information and statements noted above, this presentation includes those that relate to: the expected results of exploration activities; the estimation of mineral resources; the ability to identify new mineral resources and convert mineral resources into mineral reserves; ability to raise additional capital and complete future financings; capital expenditures and costs, including forecasted costs; the ability of the Company to comply with environmental, safety and other regulatory requirements; future prices of precious metals; the ability of the Company to obtain all necessary approvals and permits in connection with the development of the Bayan Khundii Gold Project.

Such forward-looking information and statements are based upon a number of estimates and assumptions that, while considered reasonable by the Company as of the date of such information and statements, are inherently subject to significant business, economic and competitive uncertainties and contingencies. These estimates and assumptions relate to, among other things, the continuance of the Company and its subsidiaries as a going concern, general economic and market conditions, gold prices, the accuracy of mineral resources and mineral reserve statements, and the other estimates and assumptions contained in the Bankable Feasibility Study.

Readers are cautioned that forward-looking information and statements are not guarantees of future performance. There can be no assurance that such information and statements will prove to be accurate and actual results and future events could differ materially from those presented in such information and statements. Forward-looking information and statements is subject to a variety of risks and uncertainties which could cause actual events or results to differ from those reflected in the forward-looking information and statements. Such risks include, but are not limited to, the volatility of the price of gold, uncertainty of mineral resources, exploration potential, mineral grades and mineral recovery estimates, delays in exploration and development plans, insufficient capital to complete development and exploration plans, risks inherent with mineral acquisitions, delays in obtaining government approvals or permits, financing of additional capital requirements, commercial viability of mineral deposits, cost of exploration and development programs, risks associated with competition in the mining industry, risks associated with the ability to retain key executives and personnel, the impact of COVID-19, title disputes and other claims, changes in governmental and environmental regulation that results in increased costs, cost of environmental expenditures and potential environmental liabilities, accidents and labour disputes. Should one or more of these risks and uncertainties materialize, or should underlying assumptions prove incorrect, actual results may vary materially from those described in forward-looking information and statements. Please see the Company's Annual Information Form dated March 8, 2022 available on the Company's website at www.erdene.com or on the Company's SEDAR profile at www.sedar.com, for details of other risks facing the Company. The Company disclaims any intention or obligation to update or revise any forward-looking information and statements whether as a result of new information, future events or otherwise, except to the extent required by applicable laws.

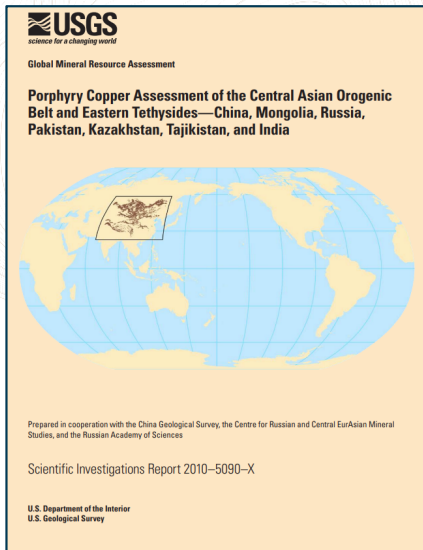
The Company has included certain non-IFRS financial measures in this presentation, such as Earnings before Interest, Taxes, Depreciation and Amortization ("EBITDA"), Initial Capital Costs, Total Cash Cost, All-In Sustaining Cost, and Effective Cash Tax Rate which are not measures recognized under IFRS and do not have a standardized meaning prescribed by IFRS. As a result, these measures may not be comparable to similar measures reported by other corporations. Each of these measures used are intended to provide additional information to the user and should not be considered in isolation or as a substitute for measures prepared in accordance with IFRS.

Peter Dalton, P.Geo. (Nova Scotia), Senior Geologist for Erdene and a "Qualified Person" under National Instrument 43-101, has reviewed and approved the scientific and technical information in this presentation. All currencies are reported in Canadian dollars unless otherwise specified.

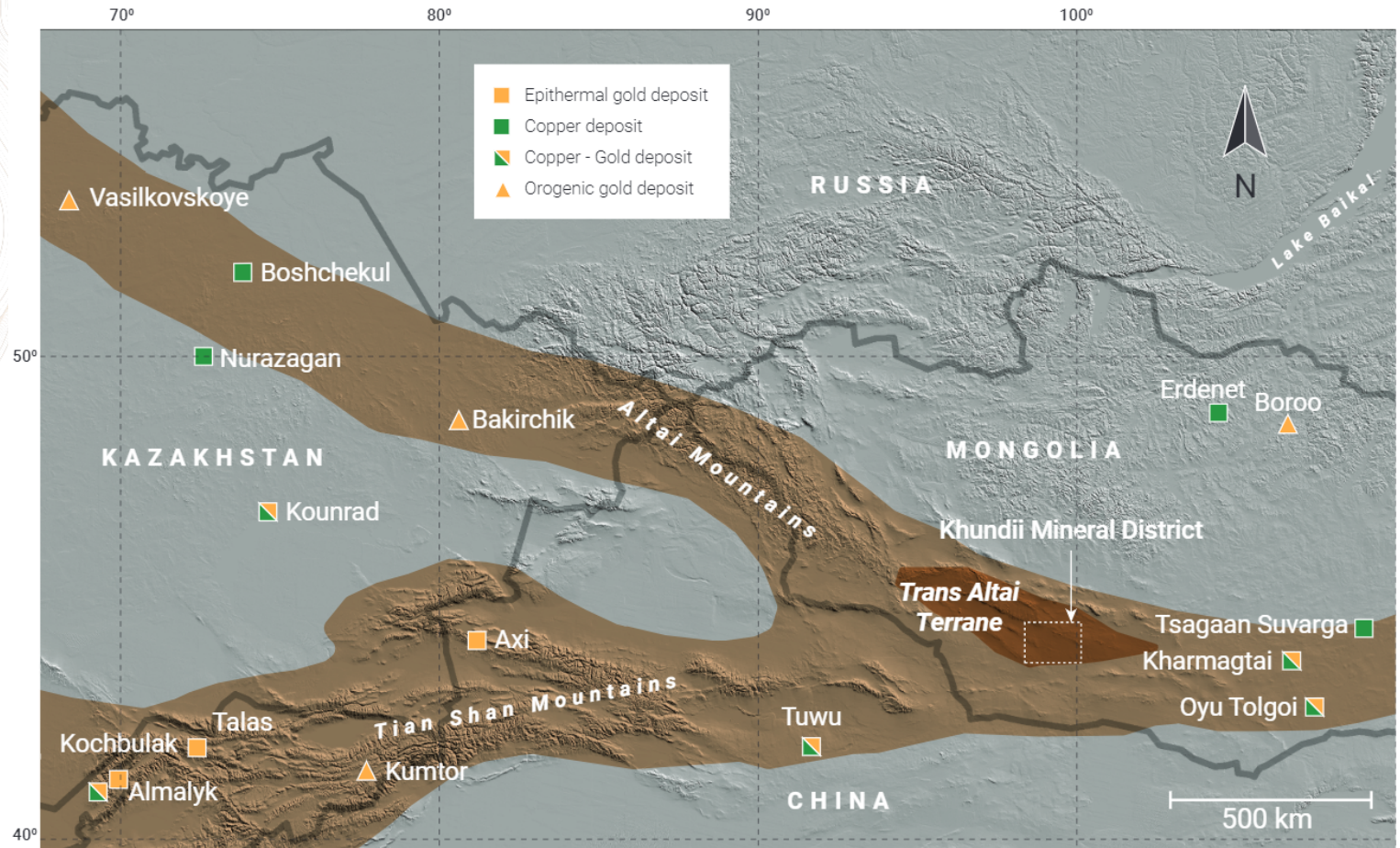
FOCUSED ON A WORLD CLASS GOLD AND COPPER BELT

The Unexplored Trans Altai Terrane in Southwestern Mongolia

MAJOR GOLD-COPPER DEPOSITS OF THE EASTERN CENTRAL ASIAN OROGENIC BELT

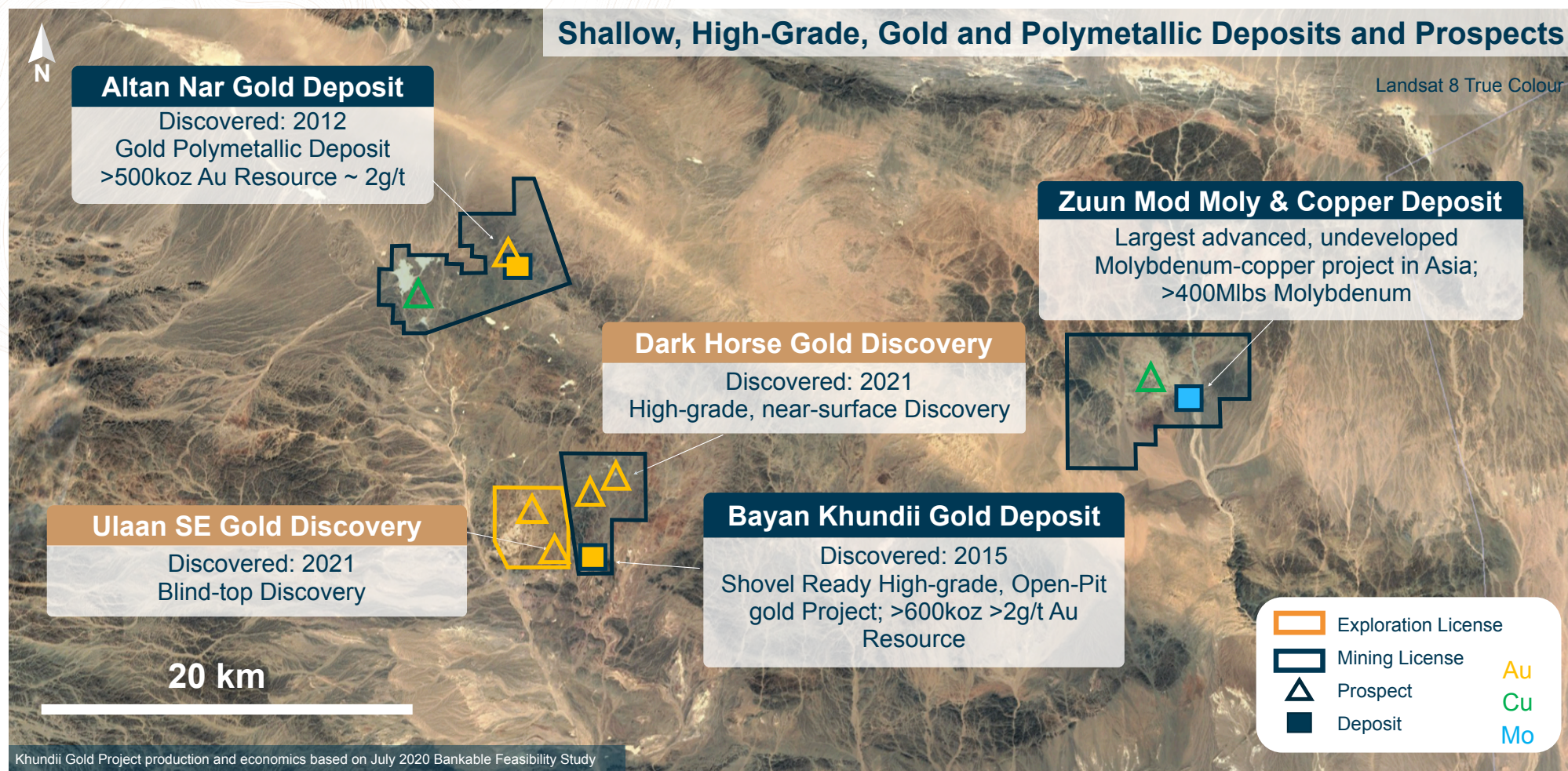


USGS Study Identifies Trans Altai as Highest Potential for Porphyry/Epithermal Copper-Gold Discovery in CAO



THE KHANDII MINERALS DISTRICT – MULTI-MILLION OUNCE POTENTIAL

Four Gold Discoveries, Molybdenum Copper Deposit and Multiple High-Priority Targets



ZUUN MOD – ADVANCED MOLY-COPPER DEPOSIT

One of Asia's Largest Molybdenum-Copper Deposits



OWNERSHIP

- 100% owned by Erdene
- 30+ year Mining License granted

LOCATION

- 40 km from Bayan Khundii Gold Project
- 180 km from China, the world's largest steel producing market

MOLYBDENUM PRICING

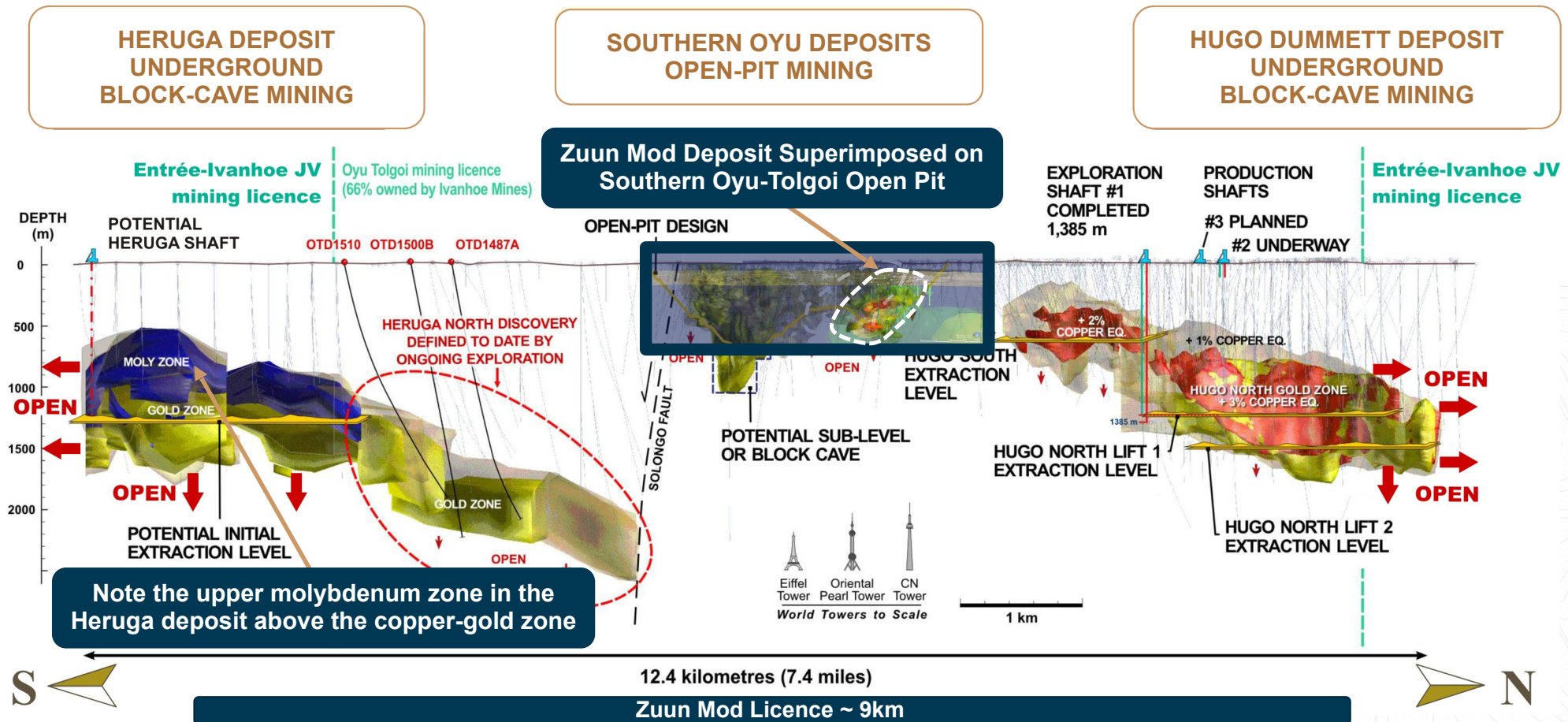
- Recent increase in molybdenum price due to strong demand related to stimulus, oil & gas sector and muted supply growth
- Prices have risen from \$7/lb to \$20/lb over the past year

Sandbox Royalties holds a 1.5% net smelter return royalty on the Zuun Mod License, subject to a buy-down provision.
NI 43-101 Technical Report, Zuun Mod Porphyry Molybdenum-Copper Project, Minarco-MineConsult, June 2011

NI 43-101 Resources

	Cut-Off	Tonnes	Grade		Contained Metal	
	%	Mt	% Mo	% Cu	M lb Mo	M lb Cu
M&I	0.04	218	0.057	0.069	274	331
Inf	0.04	138	0.052	0.065	158	198





ALTAN NAR – NEAR SURFACE, HIGH-GRADE, 5.6KM MINERALIZED SYSTEM

Strong Potential for Resource Expansion Along Strike and at Depth

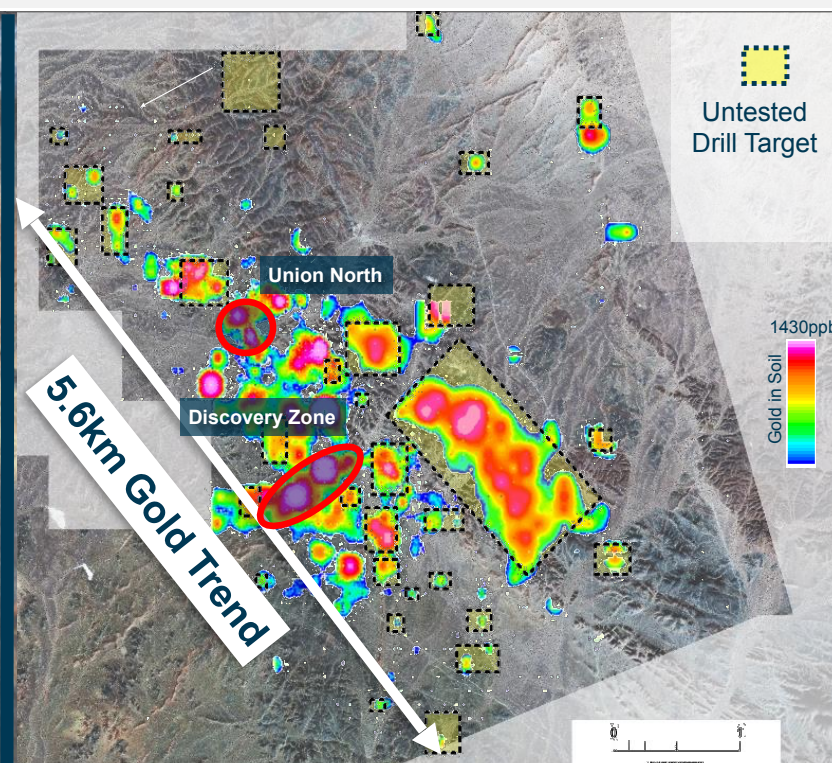
Carbonate Base Metal- Intermediate Sulphidation deposit similar to some of the world's largest:

- Porgera (>25 Moz Au)
- Kelian (5.7 Moz Au)
- Amatok (10 Moz Au)
- Montana Tunnels (36 Moz Ag)
- Fruta del Norte (6.7 Moz Au)
- Rosia Montanna (17 Moz Au)

2019 Resource	Category	Au Oz (1.9g/t)	Ag Oz (~10g/t)	Pb lbs (~0.6%)	Zn lbs (~0.6%)
Altan Nar	Indicated	318,000	2,350,000	63,800,000	69,520,000
0.7g/t AuEq cut-off	Inferred	186,000	866,000	49,060,000	52,140,000

Altan Nar: 16km north of the Bayan Khundii Deposit on all season road

>20 Intermediate Sulphidation Gold-polymetallic targets



ALTAN NAR – DISCOVERY ZONE DEPOSIT – OPEN IN ALL DIRECTIONS

Limited Exploration Along Strike with Average Drill Depth of Only 150m Vertical

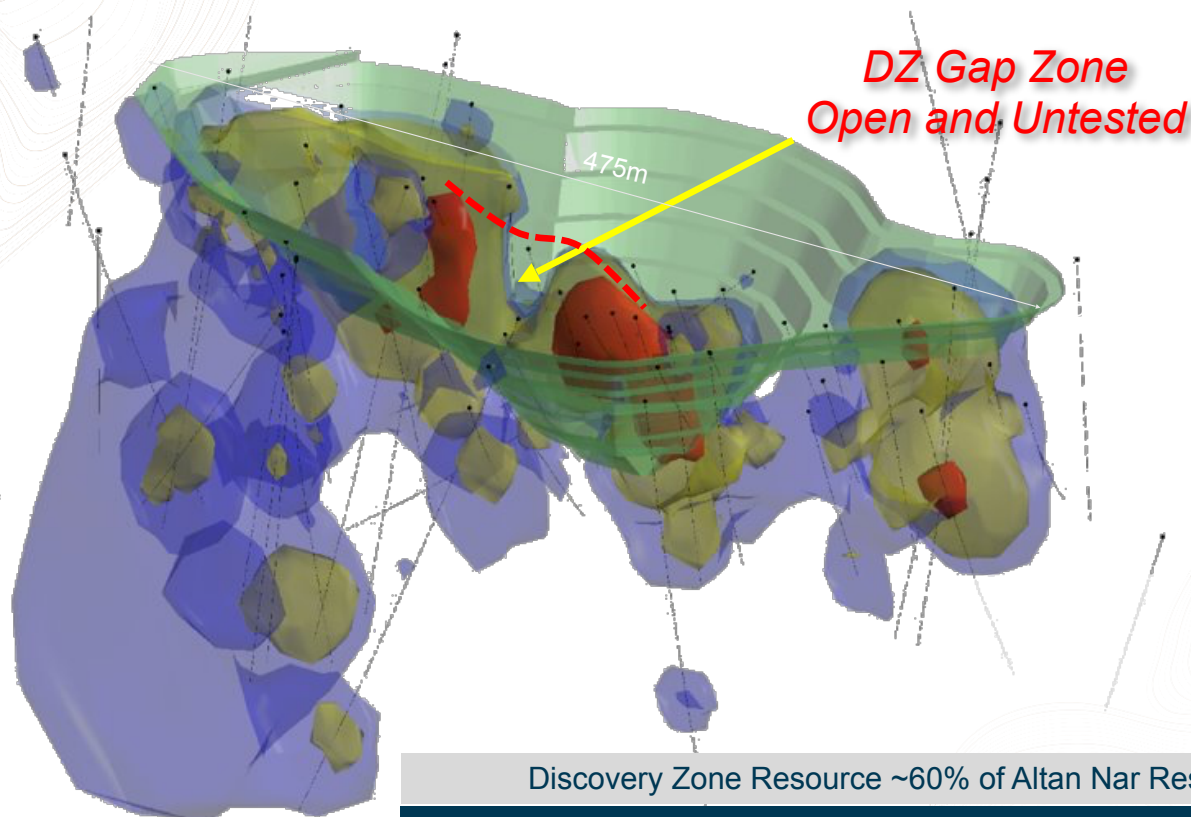
Looking Southeast-Oblique

Q1 2020 Exploration
returned some of the best
results to date

- Central Zone Gap
Expansion Drilling
Returned **7m of 46 g/t
Gold** within 23m of
17 g/t Gold,
beginning at 70m
depth

Gold Grade Shell

- **≥ 5 g/t**
- **1 to 5 g/t**
- **0.5 to 1 g/t**

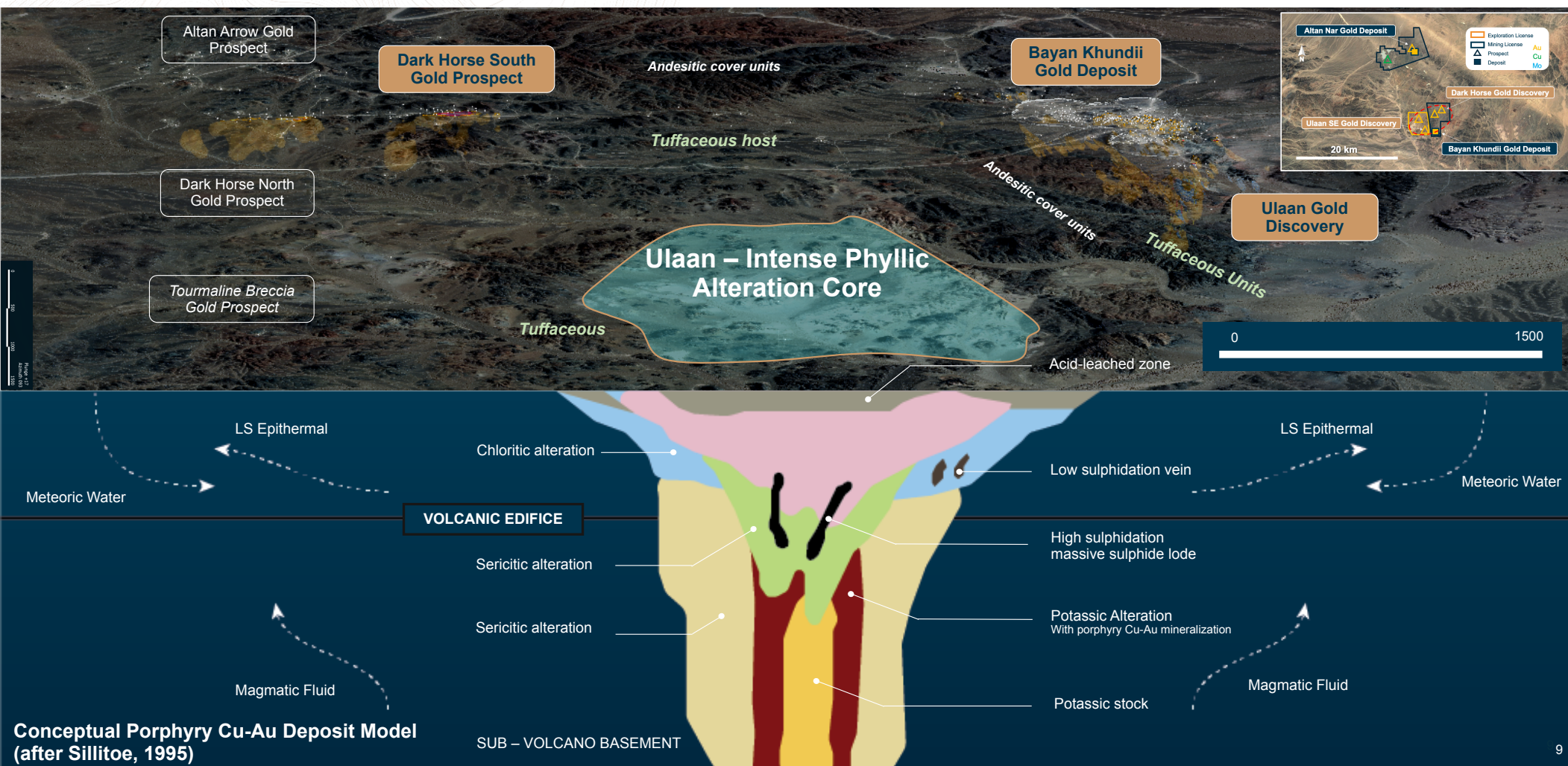


Discovery Zone Resource ~60% of Altan Nar Resource

	Quantity Tonnes	Au (g/t)	Ag (g/t)	Zn+Pb (%)	Au (oz)	Ag (oz)	Zn+Pb (t)
Indicated	4,061,365	1.9	15.5	1.0	246,135	2,023,664	39,587
Inferred	1,394,438	1.6	9.3	1.1	70,611	414,698	15,576

BAYAN KHUNDII, ULAAN AND DARK HORSE DEPOSITS & PROSPECTS

Interpreted as a Single, Large Epithermal System Overprinting a Porphyry





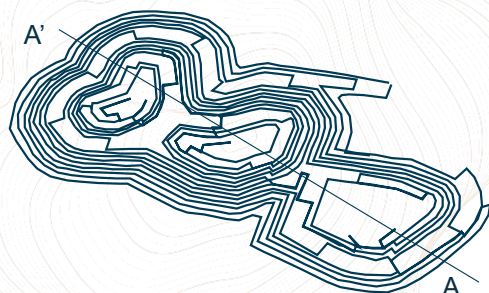
BAYAN KHUNDII OPEN-PIT AREA – Main Mineralized Zones Looking South

BAYAN KHUNDII – HIGH-GRADE, OPEN-PIT RESERVES

Mineralization extends from surface to 144 metres in open-pit

Bayan Khundii Proposed Pit – Plan View

Bayan Khundii Deposit Reserve and Resource Estimates

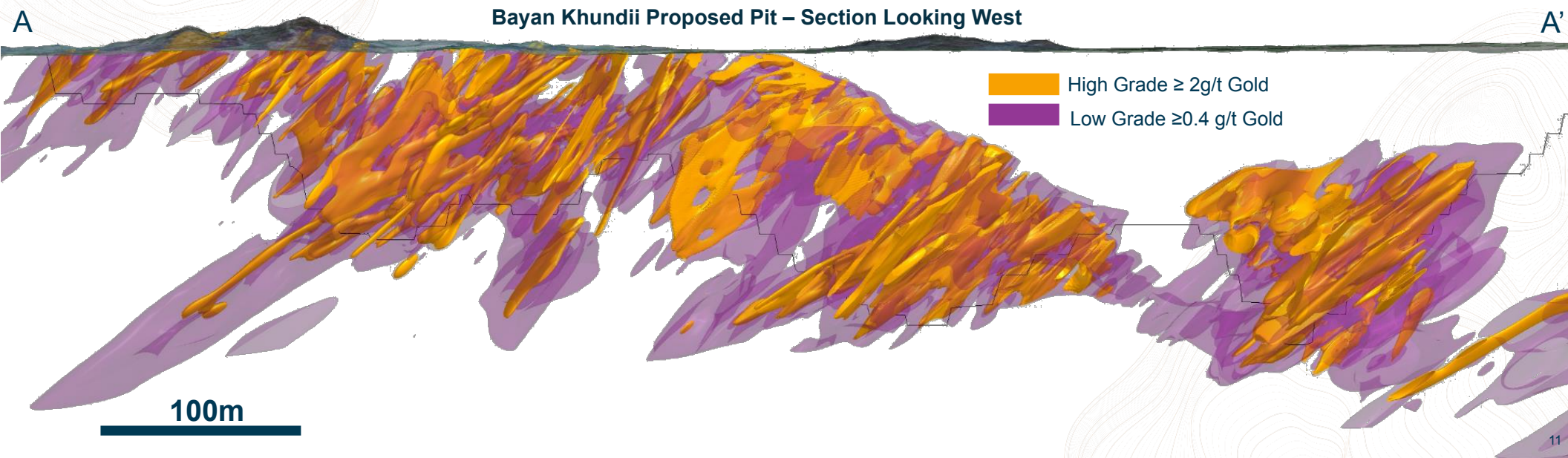


Reserve Category	Total (Mt)	Grade Au g/t	Contained Gold Koz
Proven	1.2	4.2	166
Probable	2.2	3.5	244
Total P&P	3.4	3.7	409

Cut-off Grade	Resource Classification	Quantity (Mt)	Grade Au g/t	Gold Koz
0.40	Measured	3.0	2.39	233
	Indicated	5.3	2.08	352
	Measured & Indicated	8.3	2.19	585
	Inferred	0.5	2.18	36

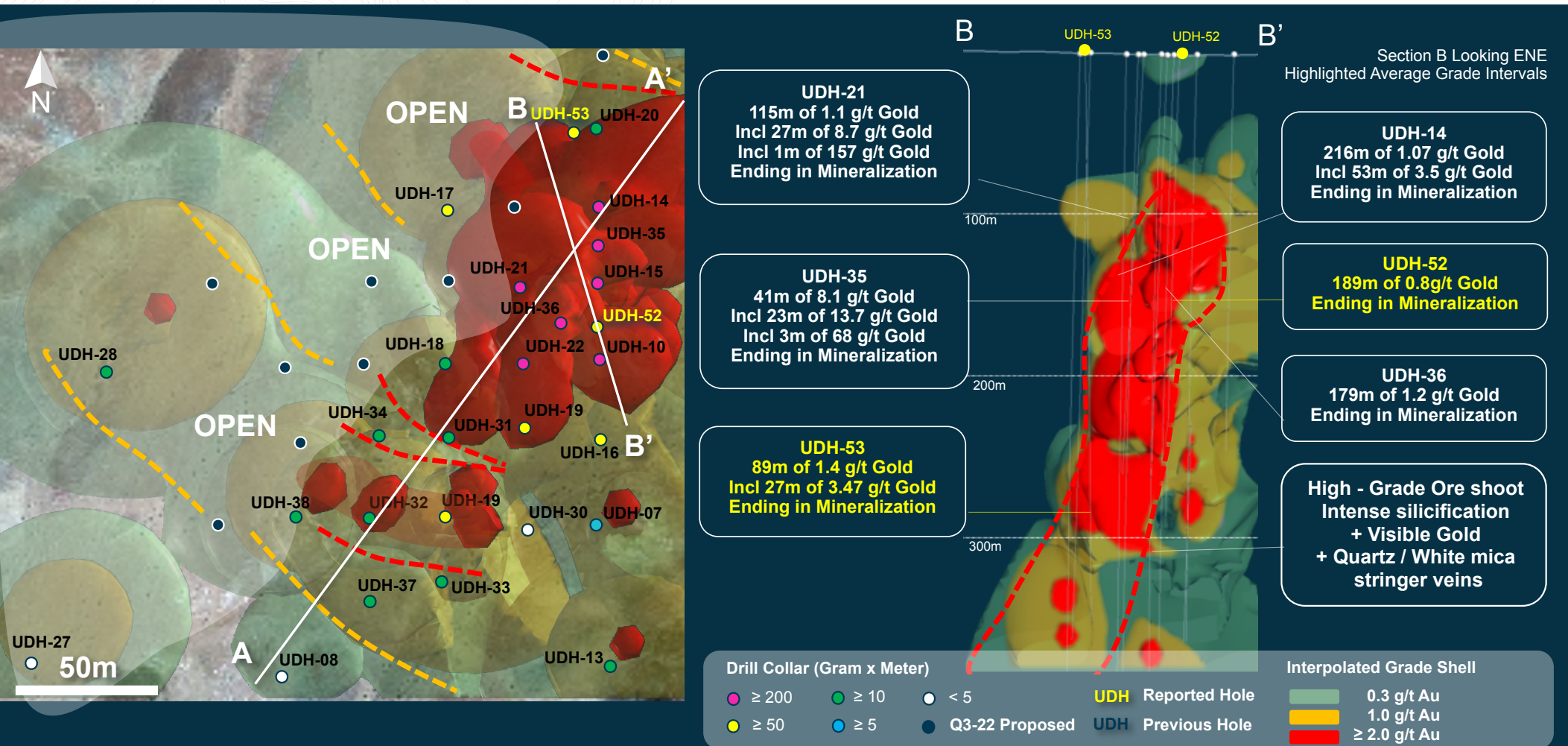
*Refer to Bayan Khundii Gold Project Feasibility Study NI 43-101 Technical Report, July 20, 2020, and Erdene's Q2 2021 press release, August 16, 2021

Bayan Khundii Proposed Pit – Section Looking West



ULAAN SE: Q2 2022 DRILLING DEFINES HIGH-GRADE STRUCTURE

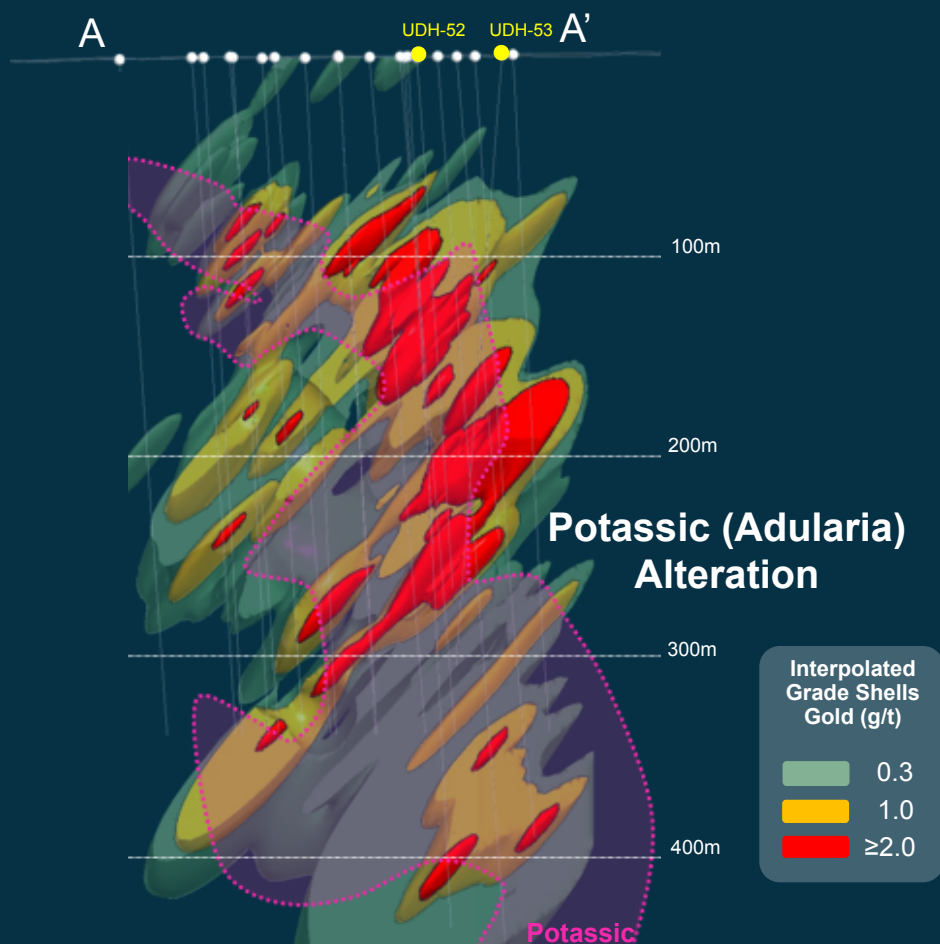
UDH-35: 41m of 8.1 g/t Gold; Incl 23m of 13.7 g/t Gold; Incl 3m of 68 g/t Gold



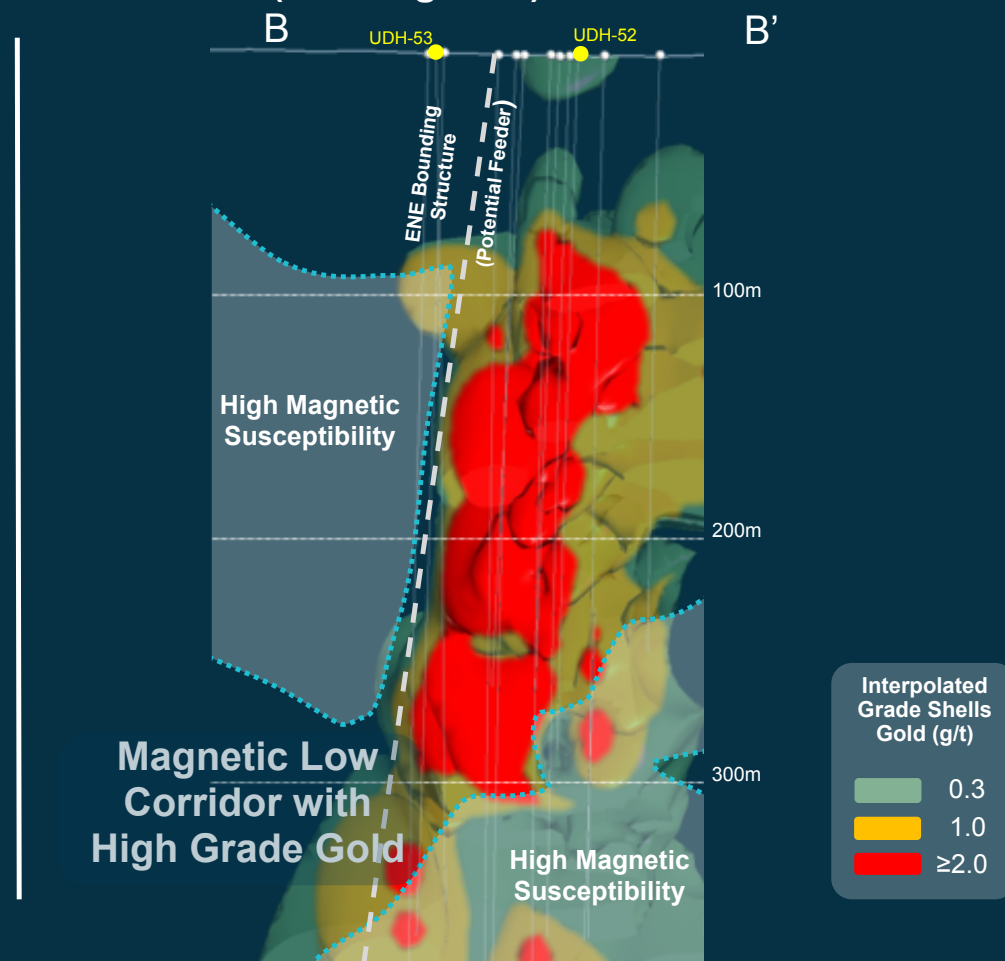
ULAAN SE GOLD DISCOVERY: Q2 2022 DRILLING

Adularia and Hydrothermal Magnetic Destruction Defining Continuation of Feeder Potential at Depth

SECTION A (Looking NW)

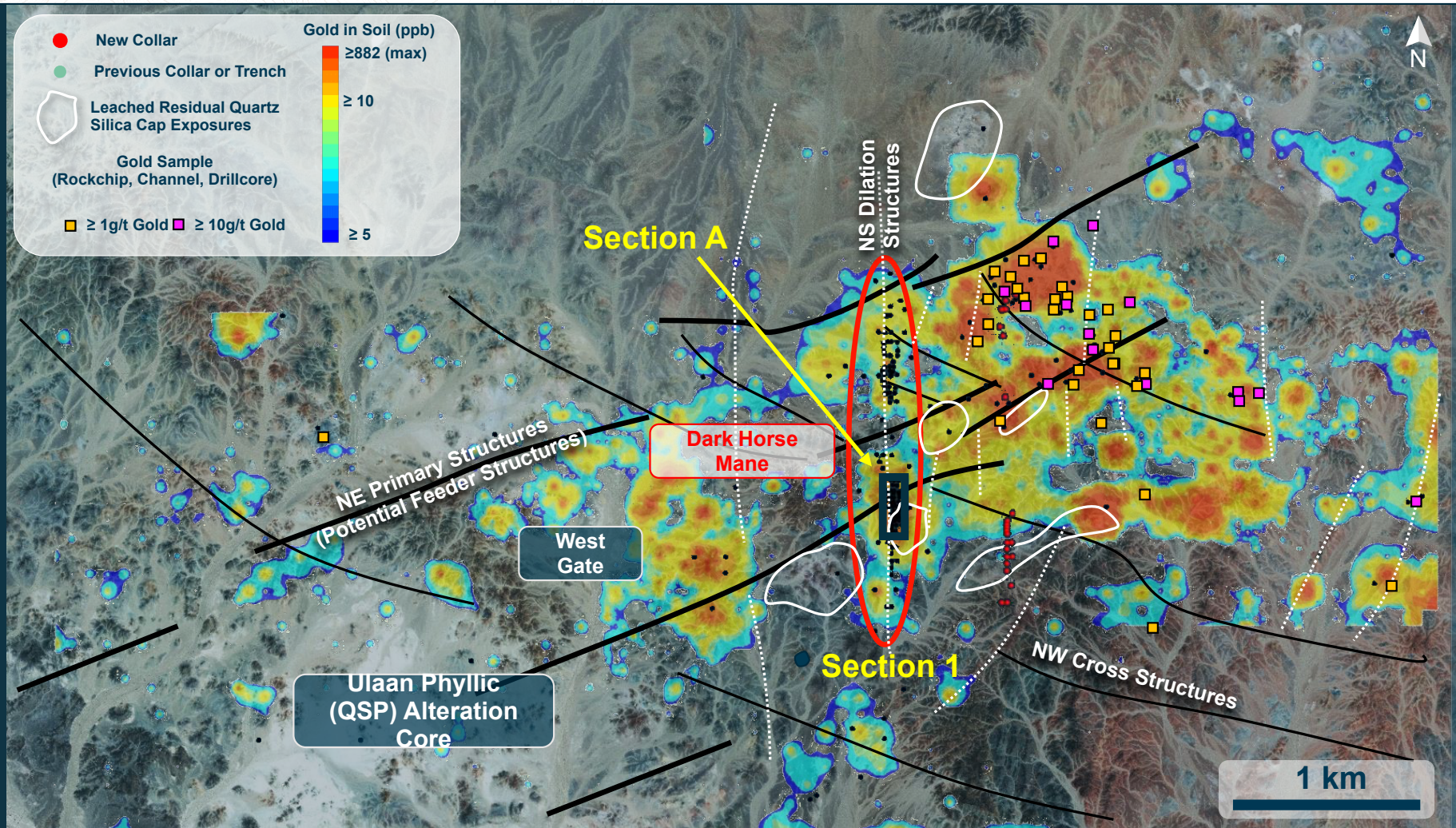


SECTION B (Looking ENE)



GREATER DARK HORSE PROSPECT

High Potential For Further Discoveries



DARK HORSE MANE – HIGH-GRADE OXIDE GOLD ZONE

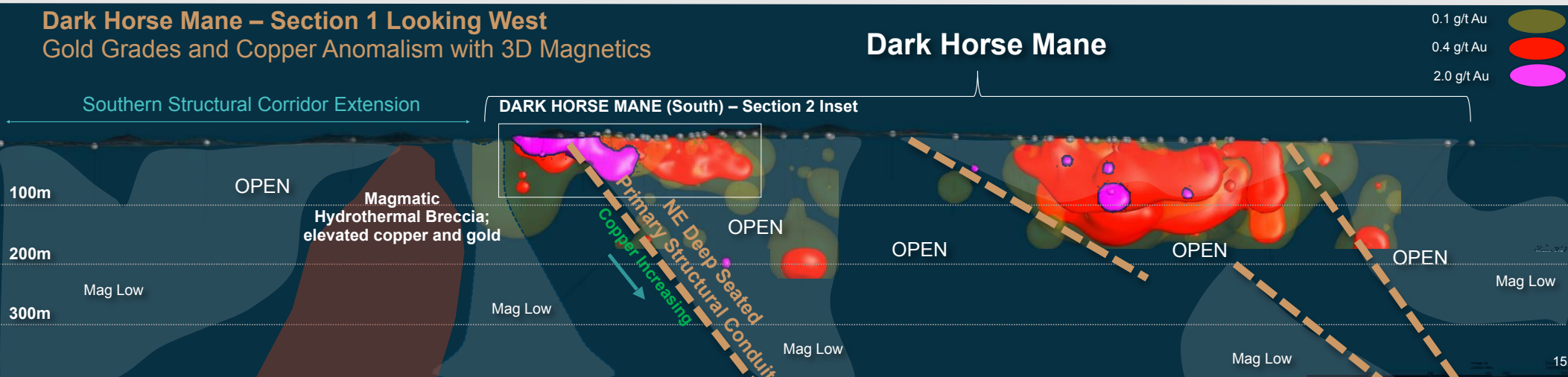
Open at Depth and Along Strike over 1.5km Trend

Dark Horse Mane (South) – Section A (Looking West)



Dark Horse Mane – Section 1 Looking West

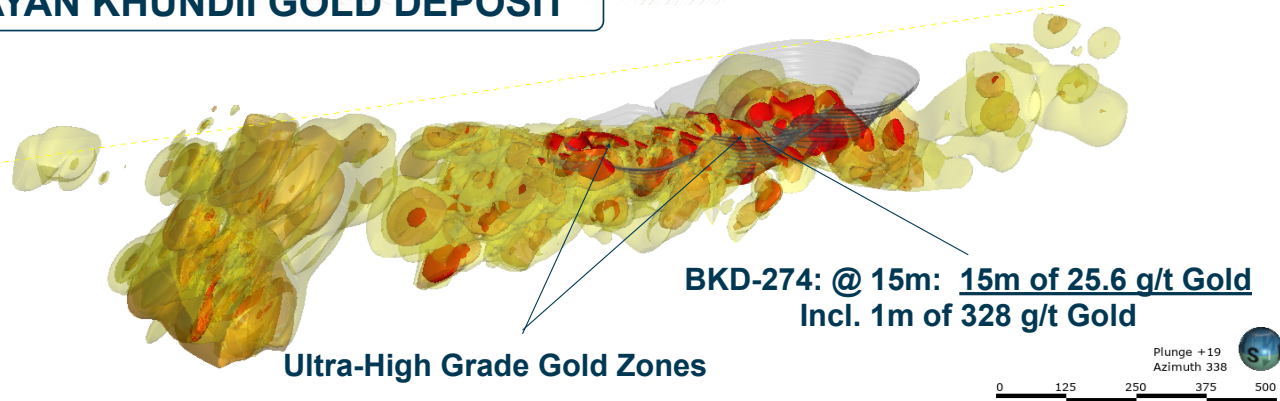
Gold Grades and Copper Anomalism with 3D Magnetics



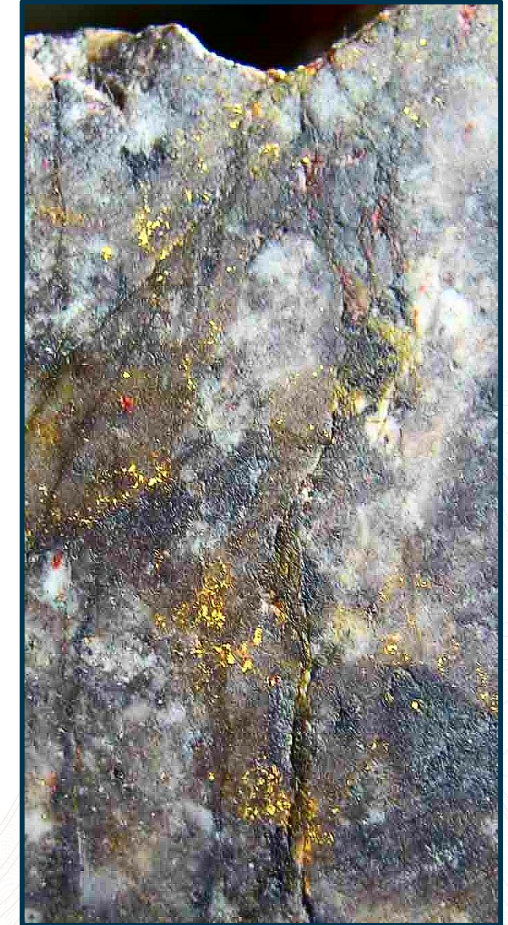
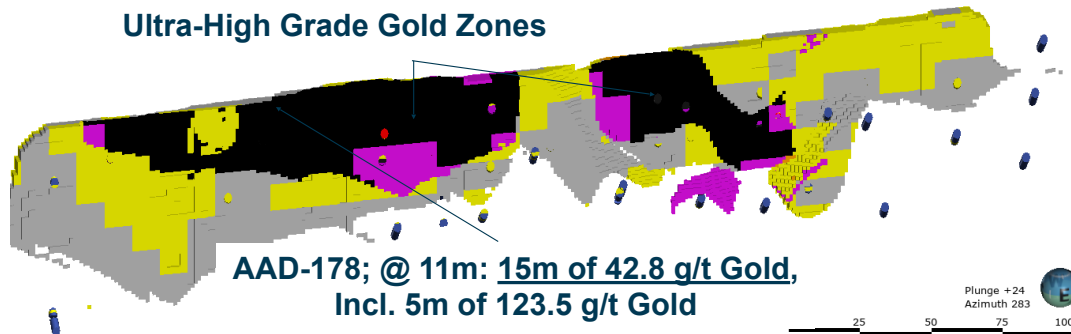
BAYAN KHUNDII – NEAR SURFACE, HIGH GRADE DISCOVERIES SINCE 2020

Gravity Processing Opportunity

BAYAN KHUNDII GOLD DEPOSIT



DARK HORSE GOLD DEPOSIT



EXPLORATION PLANS AND EXPANSION OPPORTUNITIES – KHUNDII DISTRICT

Three Priority Areas For Near-Term Enhancement & Multiple Prospects

ULAAN

Diamond drilling in Q3 2022 to test expansion potential to the west and further define high-grade feeder structures; results pending

DARK HORSE

Recently completed 278-hole Reverse Circulation (“RC”) program aimed at further definition of the oxide zone

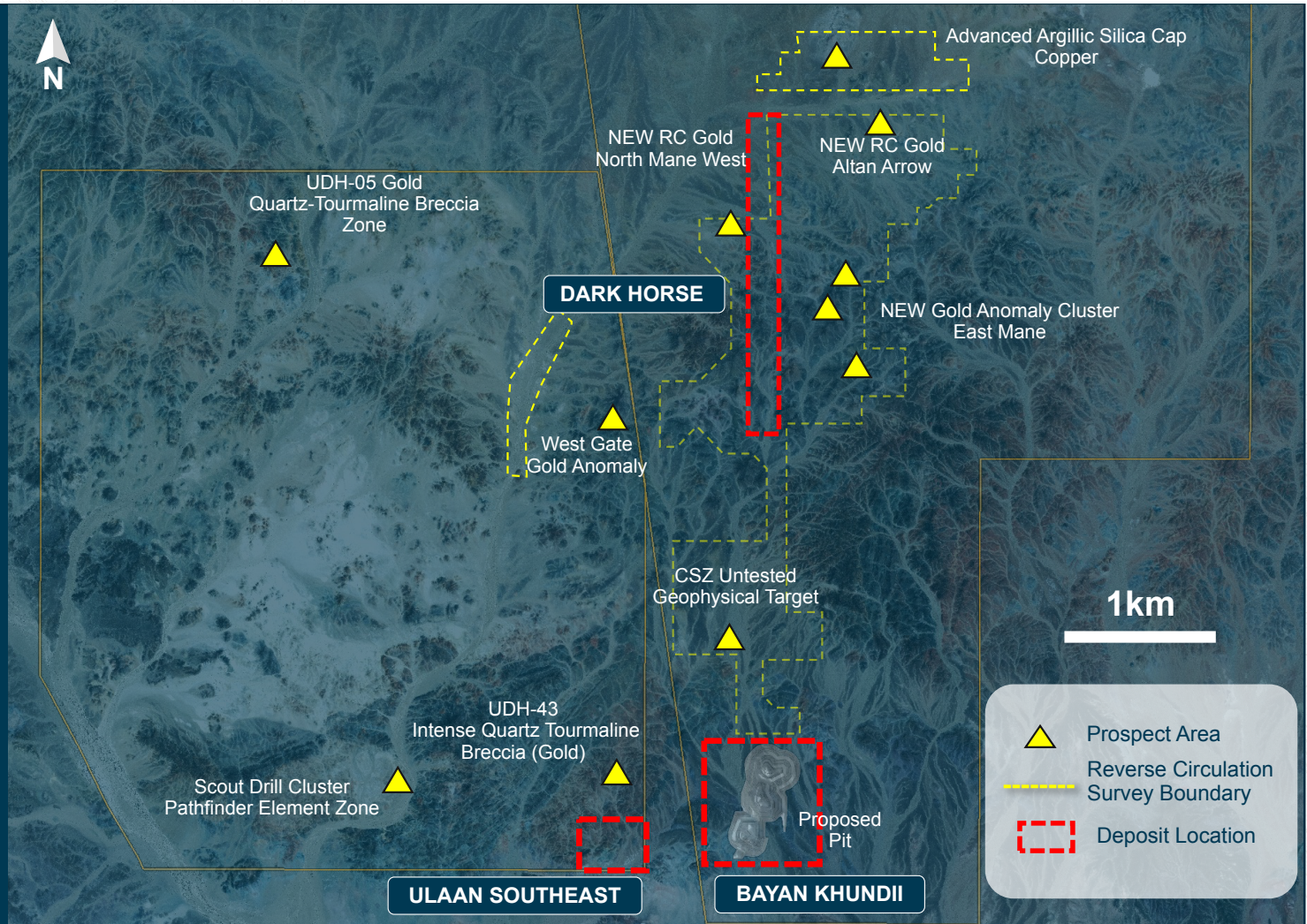
Diamond drilling now underway at Dark Horse Mane and East Mane aided by recent RC results

BAYAN KHUNDII

Diamond drilling to test ultra-high grade near surface areas in support of gravity project in the Striker SE, Striker and Midfield SE areas of the Bayan Khundii deposit

RESOURCE ESTIMATE

The Khundii District Resource estimate will be updated by year-end

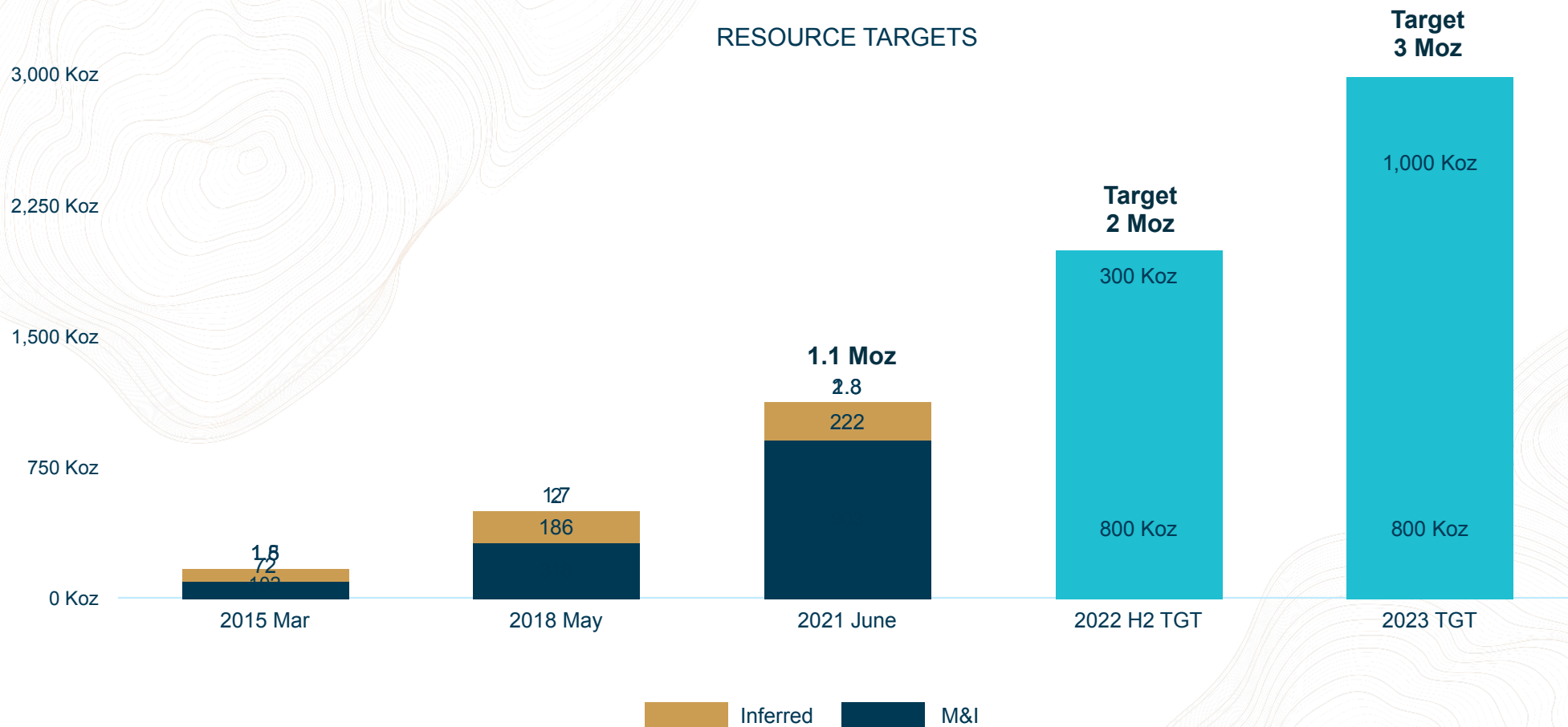


TARGETING 2 MILLION OZ GOLD RESOURCES IN 2022

Track Record of Resource Growth



RESOURCE TARGETS





BAYAN KHUNDII GOLD PROJECT

**SHOVEL READY,
HIGH-GRADE, LOW COST,
HIGH CAPITAL EFFICIENCY,
LOW RISK**



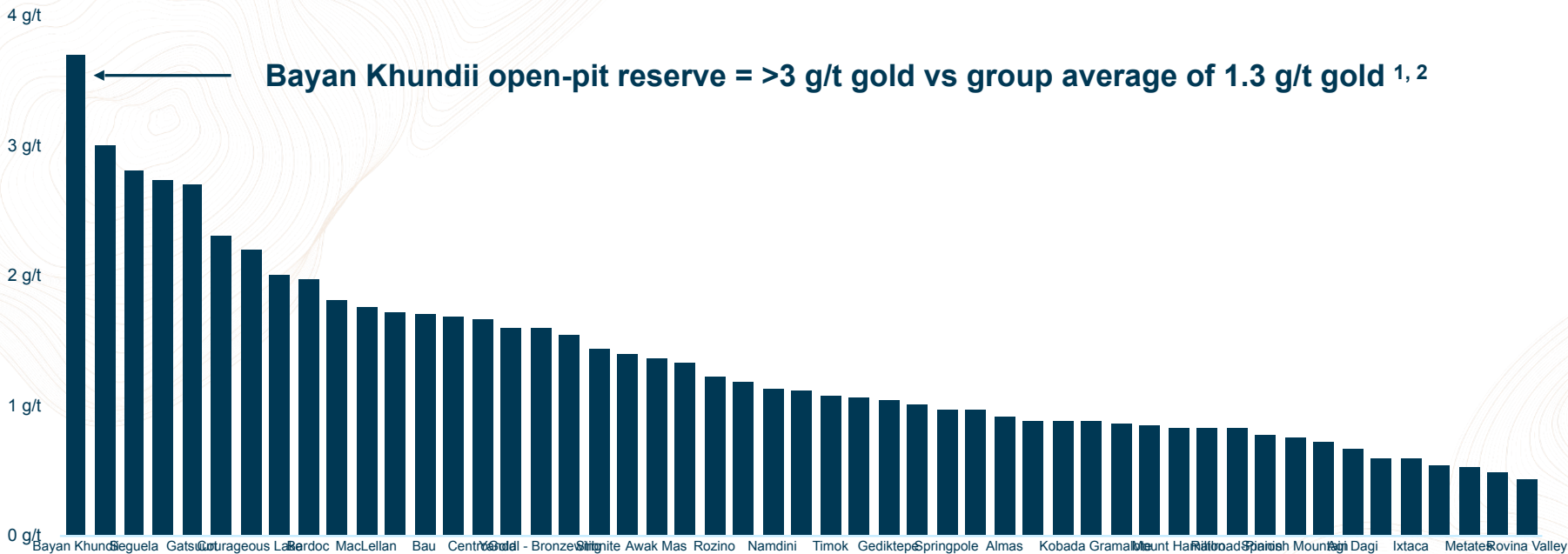
SOUTHWESTERN MONGOLIA IMPROVING INFRASTRUCTURE

Growing Mining Region



WORLD-CLASS NEAR-SURFACE, HIGH-GRADE GOLD DEPOSIT

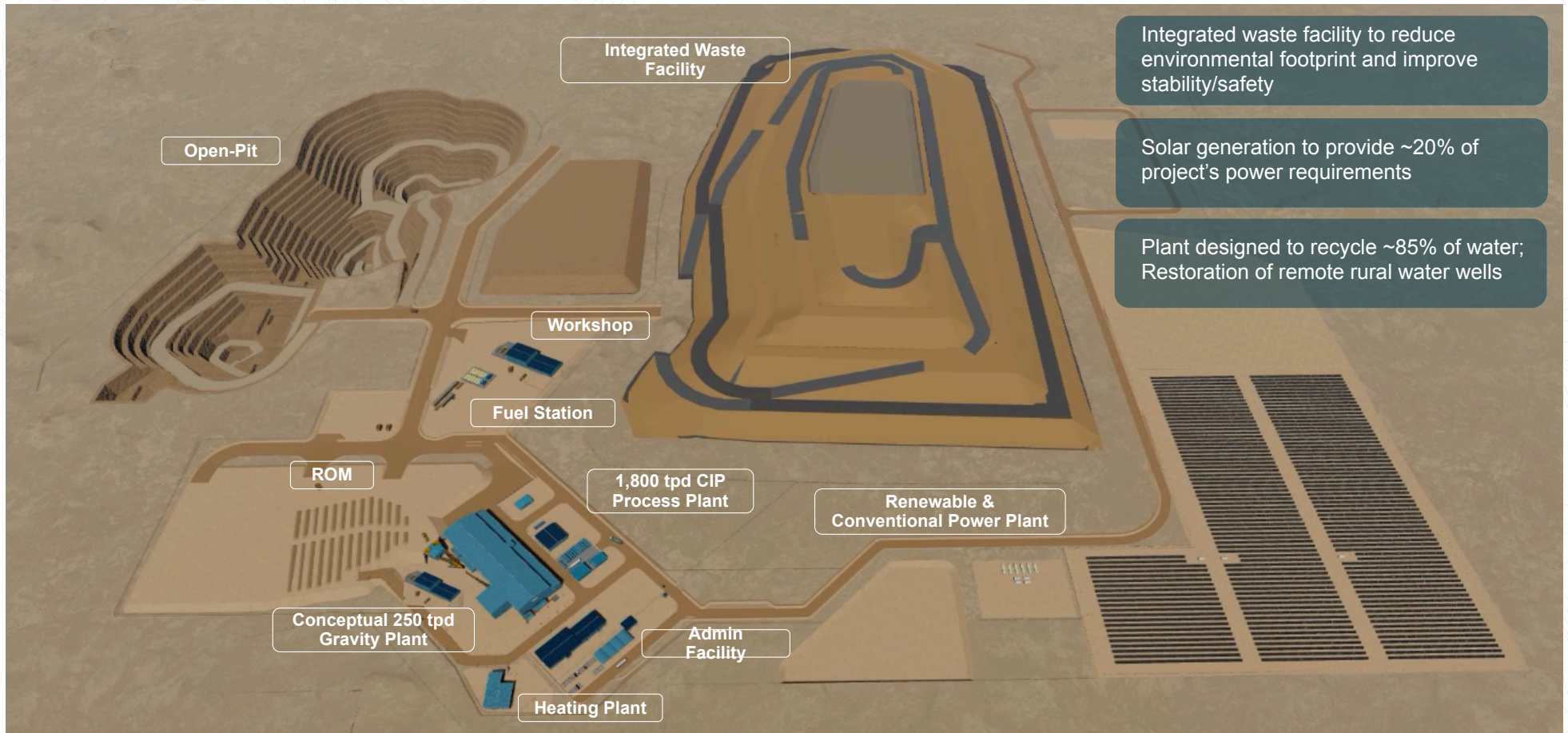
Bayan Khundii Open-pit Reserve Grade Exceeds 3 g/t Au



Note: 1. Includes active open-pit pre-production projects with Reserves greater than 400,000 oz of contained gold and only gold as primary commodity
 2. Bayan Khundii Gold Project reserves from July 2020 Bankable Feasibility Study

600,000 TPA MILL DESIGNED TO ACCOMMODATE HIGHER THROUGHPUT

A Simple Project: Recoveries of 93% From Conventional, Free Milling Processing Methods



BAYAN KHUNDII SITE – SITE ESTABLISHMENT– 2022

Early Works Accommodations & Staging Area Expansion, Borefield Development and Water Exploration, Communication Tower & Dust Monitoring Station Construction, Camp Expansion, Project Management Software Implementation, National & Provincial Offices Opened

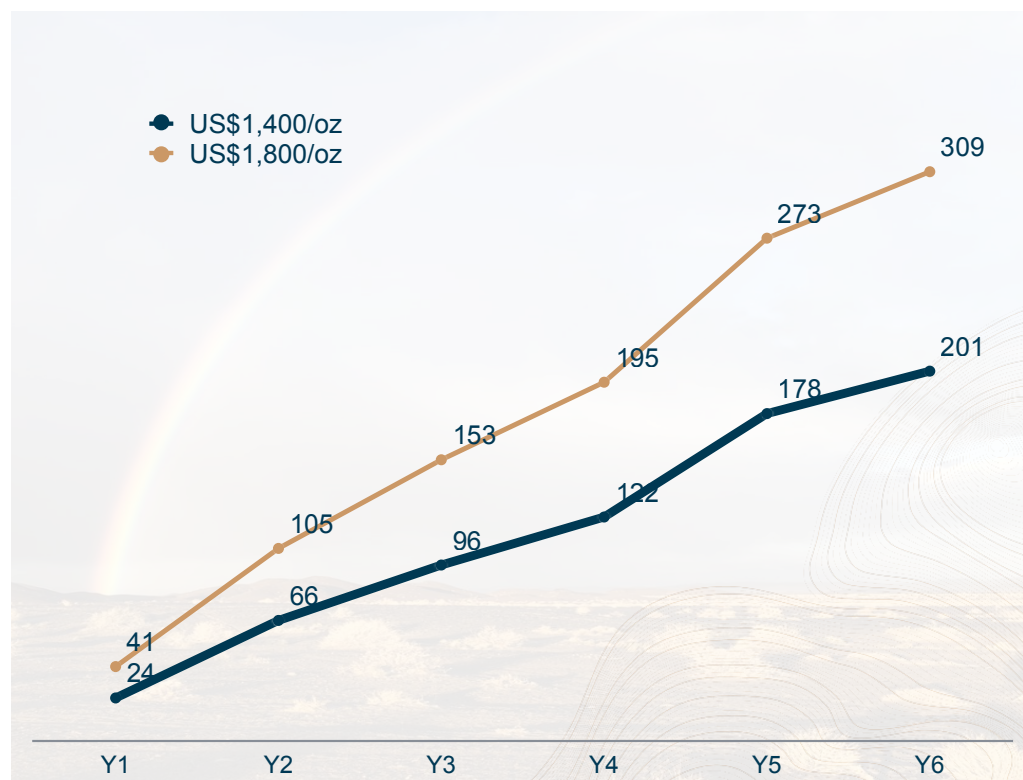


TRANSITIONING TO A SELF-FUNDING, SUSTAINABLE BUSINESS

Bayan Khundii Free Cash Flow to Drive District Exploration

- Expected to generate **\$50M annually**¹ in Free Cash; transitioning to a self-funding, self-sustainable Company
- Initial mine life **6 years production** and 1.5 year build with significant potential for mine life extension
- Meaningful cash flow generation will enable anti-dilutive exploration and development

Forecast Net After-Tax Cumulative Cash Flow



Note: 1 Based on US\$1,800/oz gold price
Bayan Khundii Gold Project production and economics based on July 2020 Bankable Feasibility Study

BAYAN KHUNDII – DEVELOPMENT PLAN OPTIMIZATION

Opportunities To Increase Value



Opportunities

- Increased scale
- Gravity Processing
- Heap Leach
- Cyanide alternatives

Evaluations

- Drilling & Resource Estimate
- Gravity Recovery
- Sodium Thiosulphate Testing
- Heap Leach Testing
- Updated Economic Modelling

Potential Impacts

- Include gravity plant in early construction phase in 2023
- Complete studies and gain approvals for any material design changes
- Targeting full CIP Construction mid-2023 thru 2024



PROJECT FINANCE STRATEGY

Backing of Leading International and Domestic Financial Institutions

Export Development Canada

- Mandate Letter signed for senior secured debt facility
- Due diligence completed by SLR Consulting
- EDC is a debt provider to Oyu Tolgoi, Mongolia's largest mining operation

European Bank for Reconstruction and Development

- Major shareholder (10%) following loan conversion in Q4 2020
- Mandate Letter signed for Project's Cost Overrun Facility ("COF")
- Largest foreign direct investor in Mongolia with €2.2B invested

Bank of Mongolia and Mongolian Commercial Banks

- GoM COVID stimulus and Gold-2 programs provide financial incentives, tax stability agreements, and loans to the gold sector (Includes \$65M package to finance ATO Gold Mine expansion)
- In negotiations for credit facility / loan with Mongolian commercial banks

Eric Sprott

- Erdene's largest shareholder (15%)

Mongolian Stock Exchange

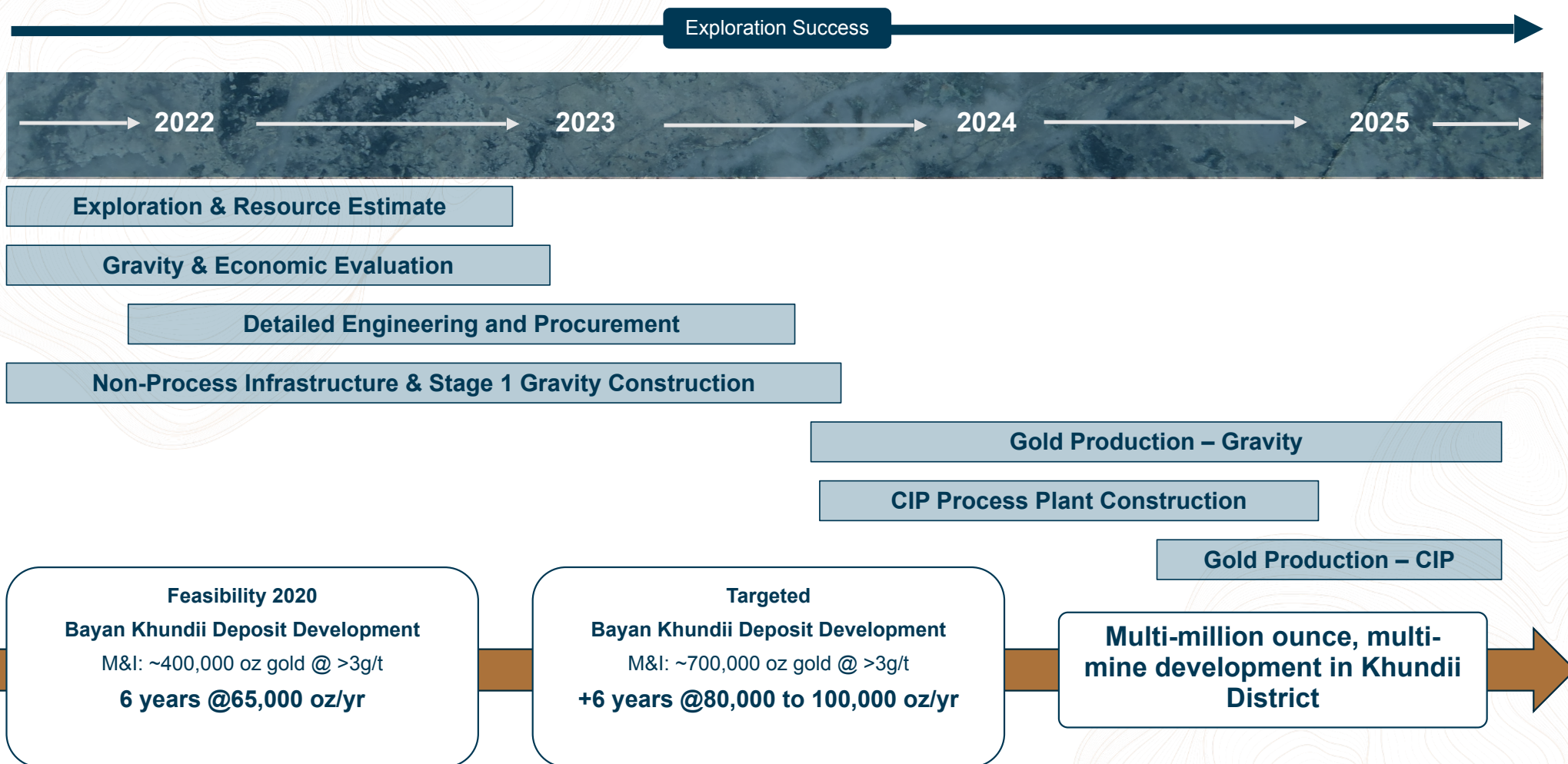
- Sharing Benefits with over 7,000 Mongolian shareholders; First company cross listed on Mongolia and Toronto Stock Exchanges



MSE:ERDN

KHUNDII DISTRICT DEVELOPMENT MILESTONES

A Multi-Year Growth Plan: 2022-2025



DEVELOPING THE KHUNDII MINERALS DISTRICT

Investment Highlights



First mover in an unexplored portion of one of the world's most prolific copper and gold belts



Discovered multiple **high-grade, open-pitable gold deposits** and prospects



Two **high-grade gold** discoveries in 2021 within 2.4 km of Bayan Khundii Gold Project



Shovel ready, high-grade (>3 g/t Au), open-pit Bayan Khundii gold project moving rapidly to **First Gold**








Significant free cash flow from Bayan Khundii will fund **anti-dilutive exploration** and continued development



Deep-rooted in-country relationships, **strong social license** to operate and recognized ESG practices



Unlocking Treasures – Sharing Benefits

-  www.erdene.com
-  [ErdeneRes](#)
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-  [Erdene Resource Development Corp.](#)
-  [ErdeneResource](#)