



M I D N I G H T   S U N   M I N I N G

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T R A N S F O R M A T I V E   C O P P E R   D I S C O V E R I E S  
I N   T H E   H E A R T   O F   Z A M B I A

October 28<sup>th</sup> 2024

# Forward looking statements

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This Presentation may contain forward-looking statements regarding the Company and its subsidiaries. These statements are based on various assumptions made by the Company. Such assumptions are subject to factors which are beyond our control, and which involve known and unknown risks, uncertainties and other factors which may cause our actual results, performance or achievements to be materially different from any future results, performances or achievements expressed or implied by the forward-looking statements. Forward-looking statements may in some cases be identified by terminology such as "may", "will", "could", "should", "expect", "plan", "intend", "anticipate", "believe", "estimate", "predict", "potential" or "continue", the negative of such terms or other comparable terminology. These forward-looking statements are only predictions. Actual events or results may differ materially, and a number of factors may cause our actual results to differ materially from any such statement. Such factors include, among others, general market conditions, demand for products, development in reserves and resources, unpredictable changes in regulations affecting our markets, market acceptance of products and such other factors that may be relevant from time to time.

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**ALL DOLLAR AMOUNTS ARE IN CAD UNLESS OTHERWISE NOTED.**

All true widths are calculated using cross-sectional analysis.

Qualified Person: Darin Labrenz, P.Geo., a Qualified Person under NI 43-101, has reviewed and approved the technical data and contents herein.

# The Opportunity

Our property is large, highly prospective, and located in Zambia, in the heart of the Zambia-Congo copper belt, the second largest copper-producing region in the world<sup>1</sup>

Our vast 506 km<sup>2</sup> property features multiple targets; each a unique opportunity for a transformative discovery

We are surrounded by world-class copper mines and top-tier mining companies including First Quantum, Barrick, Rio Tinto, Ivanhoe and Anglo American. First Quantum's Kansanshi Mine, Africa's largest copper producer, is located right next door<sup>2</sup>

\$15.5 Million Earn-in with KoBold Metals to explore our flagship Dumbwa Target. KoBold is a battery metal exploration and mining company that combines geoscience, data science, machine learning, and AI to search for the critical minerals needed for the clean energy transition. KoBold is backed by technology investors including Bill Gates and his Breakthrough Energy Ventures Fund<sup>3</sup>

Cooperative Exploration plan in place with First Quantum to jointly define potential feed sources on our property, for First Quantum's SX/EW oxide copper circuit at the Kansanshi Mine. This very unique near-term mining opportunity for oxide copper, could produce significant near-term positive cash flow from the throughput of material from our property<sup>4</sup>

\$10MM Financing completed. Funded for copper oxide drilling on near-surface targets, with exploration now underway on Kazhiba Oxide Copper Target

Our geological environment is conducive to world-class, large, high-grade and scalable copper deposits and we have already made drill discoveries across our project, with similar geological characteristics and grades to the operating mines that surround us

Timing is everything. Copper is forecast to see unprecedented demand and market pricing in the near future, and for many years to come

1) Source: British Geological Survey <https://www.bgs.ac.uk/news/zambia-the-copper-mining-powerhouse-looking-towards-a-safer-low-carbon-future/>  
2) Source: First Quantum Minerals Ltd. <https://www.first-quantum.com/English/our-operations/default.aspx#module-operation-kansanshi>  
3) February 20th, 2024 News Release <https://midnightsunmining.com/2024/midnight-sun-and-kobold-metals-join-forces-on-the-dumbwa-target-in-zambia/>  
4) April 23<sup>rd</sup>, 2024 News Release <https://midnightsunmining.com/2024/midnight-sun-announces-cooperative-oxide-copper-exploration-plan/>

## Why Copper?

**Copper is “The metal of electrification”.**

*“The world is currently facing a global copper shortage, fueled by increasingly challenging supply streams in South America and higher demand pressures.”<sup>1</sup>*



# Zambia – A World Class Copper District

A globally ranked “top copper producer” and mining powerhouse for +100 years

Geological environment is conducive to large, high-grade and scalable copper deposits, in fact Zambia possesses one of the world’s highest-grade deposits of copper

Home to world-class producing copper mines and world class mining companies including First Quantum, Barrick, Rio Tinto, Anglo American and KoBold Metals

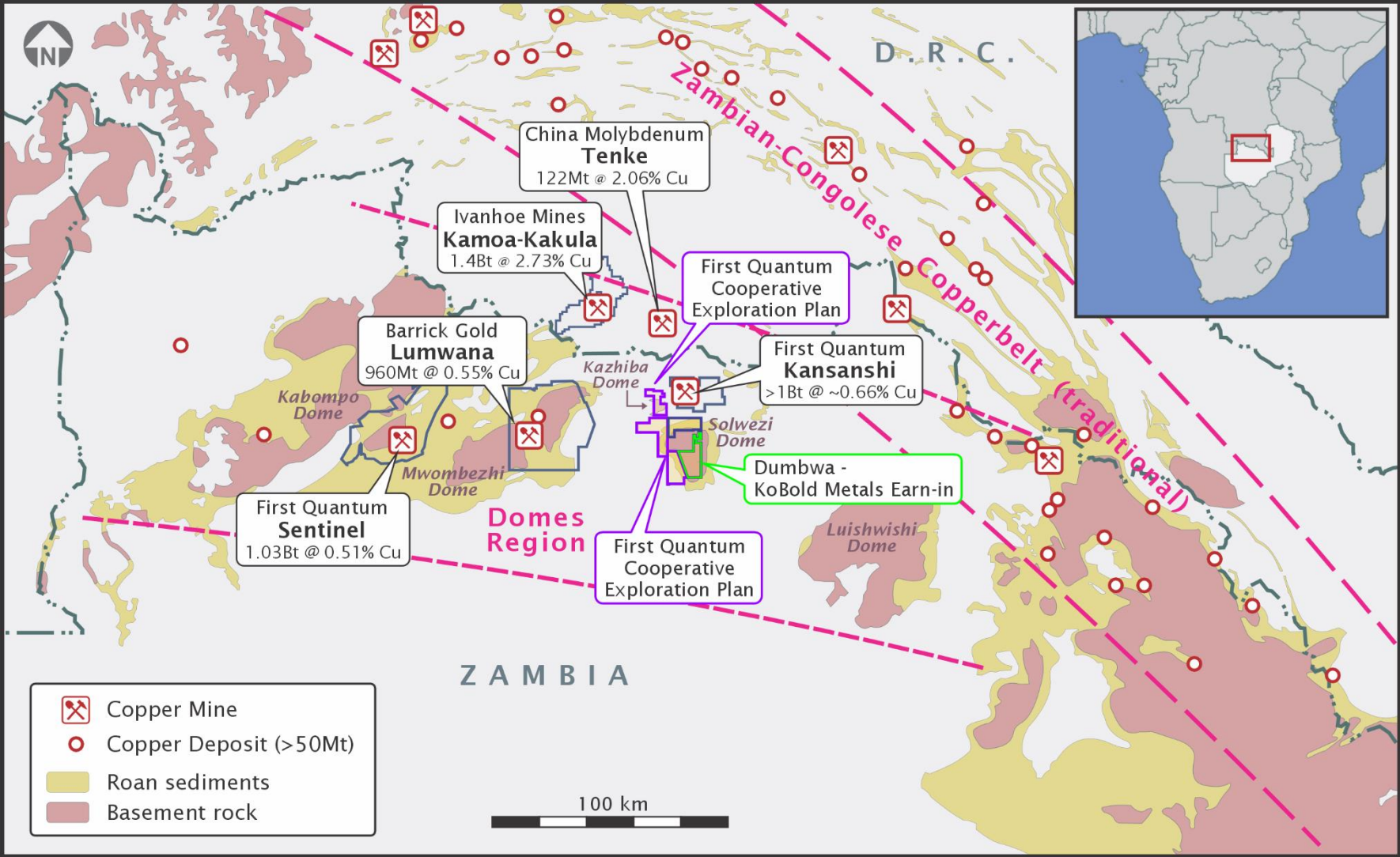
Mining is crucial to the Zambian economy, responsible for 75% of Zambia’s export earnings

Democratically elected government, the Zambian mining sector is governed and regulated by the Mines and Minerals Development Act No. 11 of 2015

English language, Trained population/workforce

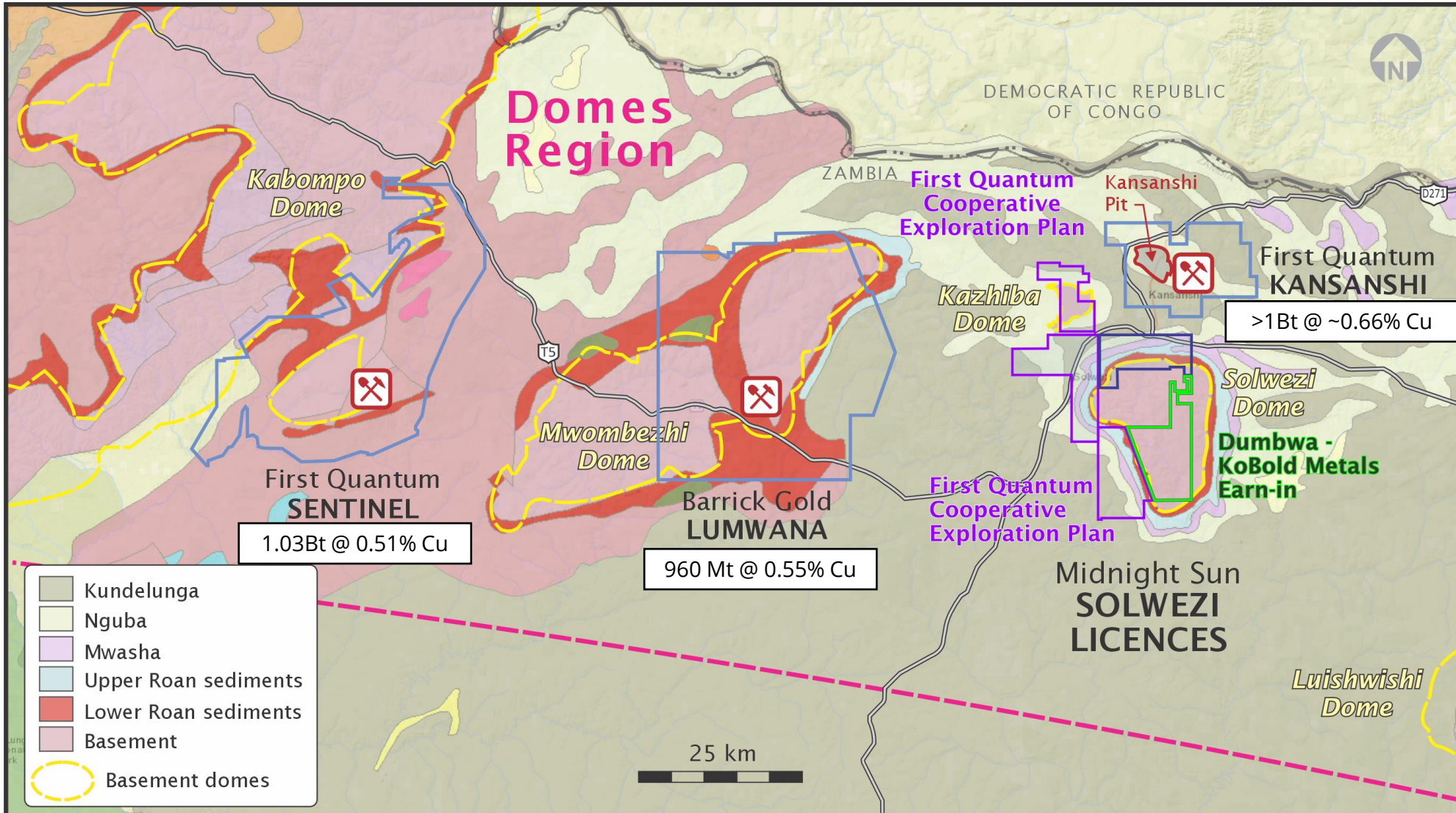


# The Heart of The Zambia-Congo Copper Belt Surrounded by World-Class Producers



# Zambia - The Domes Region

## Billions of Tonnes -not- Millions of Tonnes



# Our Discoveries VS World-Class Producers

## Comparison by Grade<sup>1,2,3</sup>

### LUMWANA

0.55% Cu

20 km from Midnight Sun

### KANSANSHI

0.66% Cu

~10 km from Midnight Sun

### SENTINEL

0.51% Cu

~120 km from Midnight Sun

### MIDNIGHT SUN

Dumbwa Soil Anomaly >20 km up to 0.73% Cu

#### Drill highlights include

29 m of 0.7% Cu incl 16.5 m of 0.93% Cu (Dumbwa)

14.2 m of 5.71% Cu (Kazhiba Dome)

24.0 m of 3.15% Cu (Kazhiba Dome)

8.0 m of 5.14% Cu (Kazhiba Dome)

11.6 m of 3.44% Cu (Mitu)

11.5 m of 1.41% Cu incl 4.0 m of 2.38% Cu (Mitu)

- 1) Source: <https://www.first-quantum.com/English/our-operations/default.aspx#module-operation--kansanshi>
- 2) Source: "First Quantum says new Zambia mine, smelter to cost \$2.4bn". Mining Weekly, 26 March 2012. Retrieved 19 November 2018.
- 3) Source: <https://www.barrick.com/operations/lumwana/default.aspx>
- 4) All reported widths are intercept widths; true widths are estimated to be 70-95% of intercept widths



# Multiple Unique Opportunities For A Transformative Discovery

506<sup>2</sup> km's of optimal geology, with discoveries across our entire property

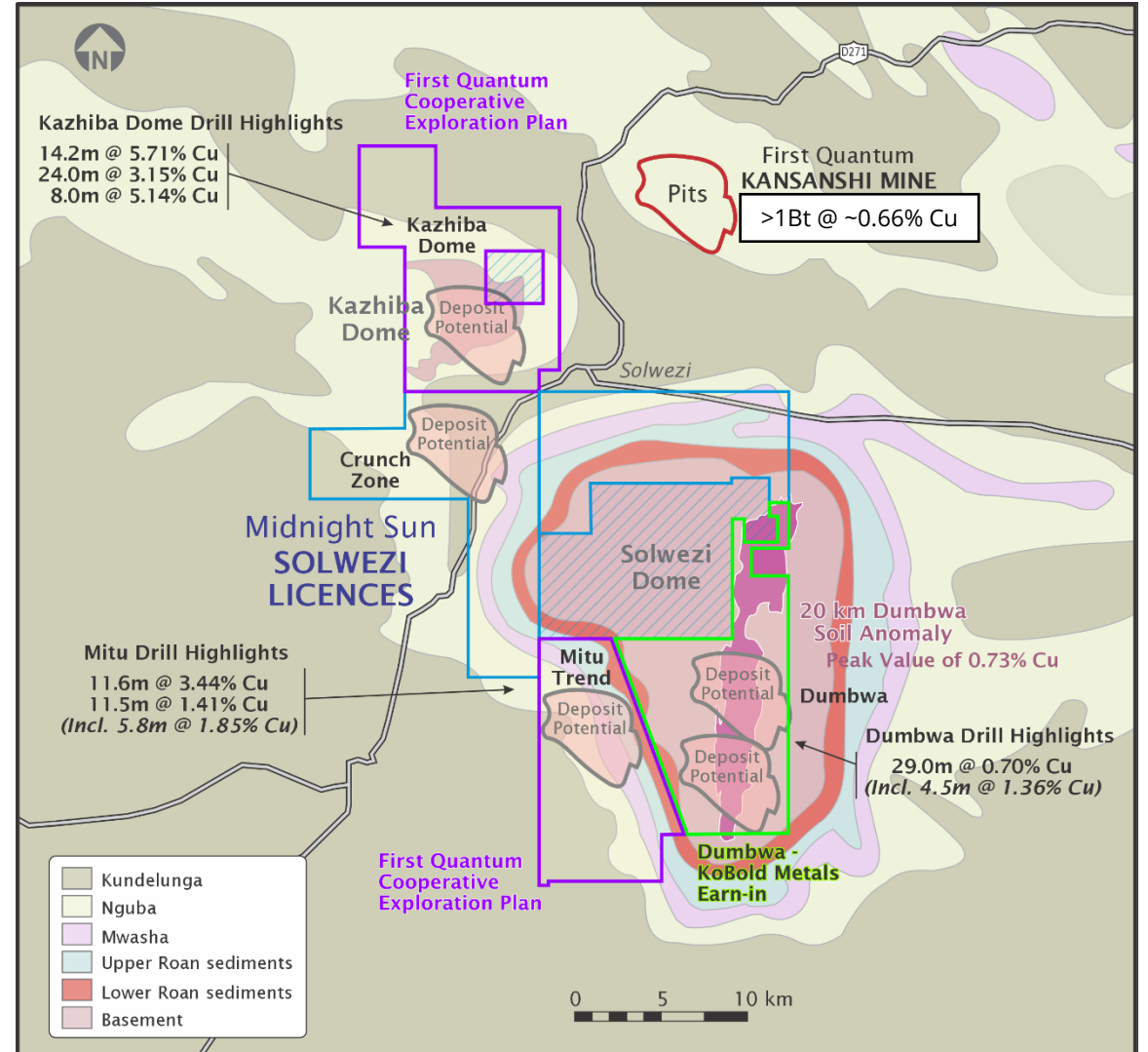
Multiple, separate geological systems within the boundaries of our property

**Multiple Targets** - Each represents a significant and distinct opportunity for discovery of a transformative, multi-generational deposit or near-term value proposition

**Target 1 - Dumbwa - \$15.5 million Earn-In with KoBold Metals Underway (January 2024)<sup>1</sup>**

**Target 2 - Cooperative Oxide-Copper Exploration Plan with First Quantum Underway (April 2024)<sup>2</sup>**

**Additional Sed-Ex Copper Targets**





# DUMBWA

## A TIER-ONE EXPLORATION TARGET

### KOBOLD METALS \$15.5MM EARN-IN







# Midnight Sun DUMBWA TARGET

20 km Dumbwa  
Soil Anomaly  
Peak Value  
of 0.73% Cu

Solwezi  
Dome

Dumbwa -  
KoBold Metals  
Earn-in

Dumbwa

First Quantum  
Cooperative  
Exploration Plan

### Drill Highlights

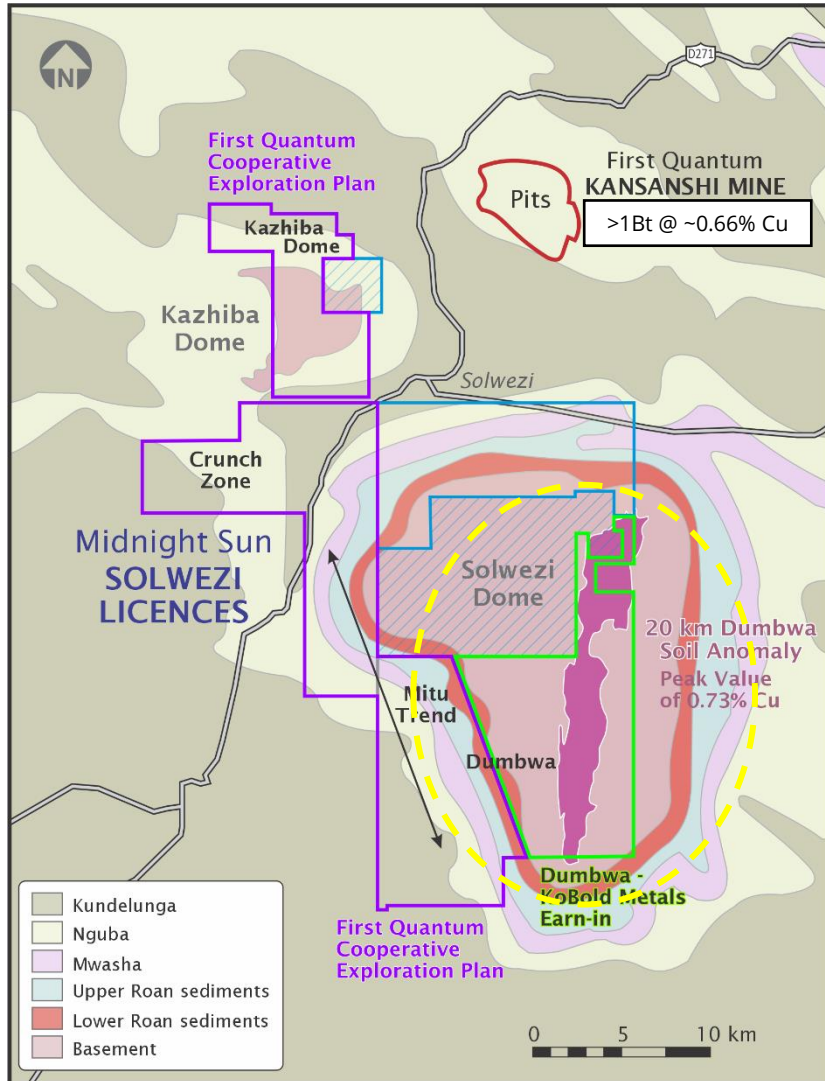
- DC-15-03: 13m @ 0.63% Cu  
*including 3m @ 1.3% Cu*
- DCAC-39: >12m @ 0.65% Cu  
*including 6m @ 1.06% Cu*
- SDDD06: 13.5m @ 0.77% Cu
- SDRC06: >10m @ 0.75% Cu
- SDRC05: 15m @ 0.71% Cu
- SDRC13: 16m @ 1.24% Cu
- SDD03B: 11m @ 0.5% Cu  
*and 33m @ 0.44% Cu*
- ZK60-1: >11.3m @ 0.63% Cu  
*including 5.4m @ 0.92% Cu*

0 5 km

- Kundelunga
- Nguba
- Mwasha
- Upper Roan sediments
- Lower Roan sediments
- Basement

# Dumbwa – Tier 1 Exploration Target

## KoBold Metals Earn-In



### DUMBWA HIGHLIGHTS

\$15.5 MM<sup>1</sup> Earn-In with KoBold Metals to explore Dumbwa

KoBold can earn a 75% interest in Dumbwa, by spending \$15 million in exploration and making \$500,000 in cash payments over the next 4.5 years

Dumbwa Target features continuous high-grade copper-in-soil anomaly for over 20 km along strike and ~1 km wide with peak values up to **0.73% Cu**

Multiple stacked mineralized horizons analogous to Barrick's Lumwana

Exploration plans to focus on systematic drilling guided by structural controls, to establish dip, continuity, size, and scale. 10,000m planned for near-term with drilling to commence in the coming months



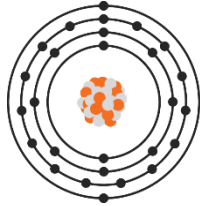
# KoBold Metals Earn-In Dumbwa Funded by Gates-backed AI Explorer



- USD \$15 Million in Exploration at Dumbwa, over 4.5 years
- USD \$500,000 in cash payments to Midnight Sun over 4.5 years
- Earning-In to 75% of our Dumbwa Target. Midnight Sun retains 25% of Dumbwa
- KoBold must complete \$15.5 Million in Exploration and payments to earn any interest in Dumbwa
  - Midnight Sun to retain full ownership of all other Targets (Kazhiba, Mitu and Crunch)
  - KoBold World-Class Geological Team including Dr. David Broughton to lead exploration

# The Geological Approach

## KoBold and Midnight Sun - A Dream Team



**KoBold  
Metals**



MIDNIGHT SUN MINING

### **Dr. David Broughton – Chief Copper Geologist**

- Instrumental in several major discoveries including Kamoia, Kansanshi and Platreef
- Geologist and Project Manager for Kansanshi, which became Zambia's largest copper producer
- Ex-Head of Exploration for Ivanhoe and co-leader of the Kamoia discovery team
- Holds several of the most prestigious awards in mining, in recognition of his achievements including PDAC's Thayer Lindsley Award, AMEBC Colin Spence Award, and Geological Society of South Africa's Des Pretorius Memorial Award

### **Dr. Kevin Bonel – COO, Zambia**

- +25 years' experience in Sub-Saharan Africa, most recently with Barrick Gold's operations at the Lumwana Mine and Freeport McMoRan
- Led exploration team at Lumwana adding +25 years of reserves
- Responsible for discoveries including the Kamaranda copper deposit, the Mpemba Hill deposit, a new copper deposit near Mpongwe, Zambia. Oversaw Kisanfu pre-feasibility and feasibility in DRC, and reinterpretation of Munali Ni deposit in Zambia, now in production





A photograph showing two men in work attire kneeling on a gravel surface, examining samples in grey trays. The man on the right is wearing a grey jacket with a 'ROCKDOMAR' logo and a hat, and is using a small tool to examine a sample. The man on the left is wearing a light-colored shirt and a dark vest. In the background, there are stacks of grey trays on wooden pallets. The text 'OXIDE COPPER' and 'A COOPERATIVE EXPLORATION PLAN WITH FIRST QUANTUM' is overlaid in white on the image.

# OXIDE COPPER

## A COOPERATIVE EXPLORATION PLAN WITH FIRST QUANTUM



# First Quantum Cooperative Exploration Plan

## Our Oxide-Copper Opportunity

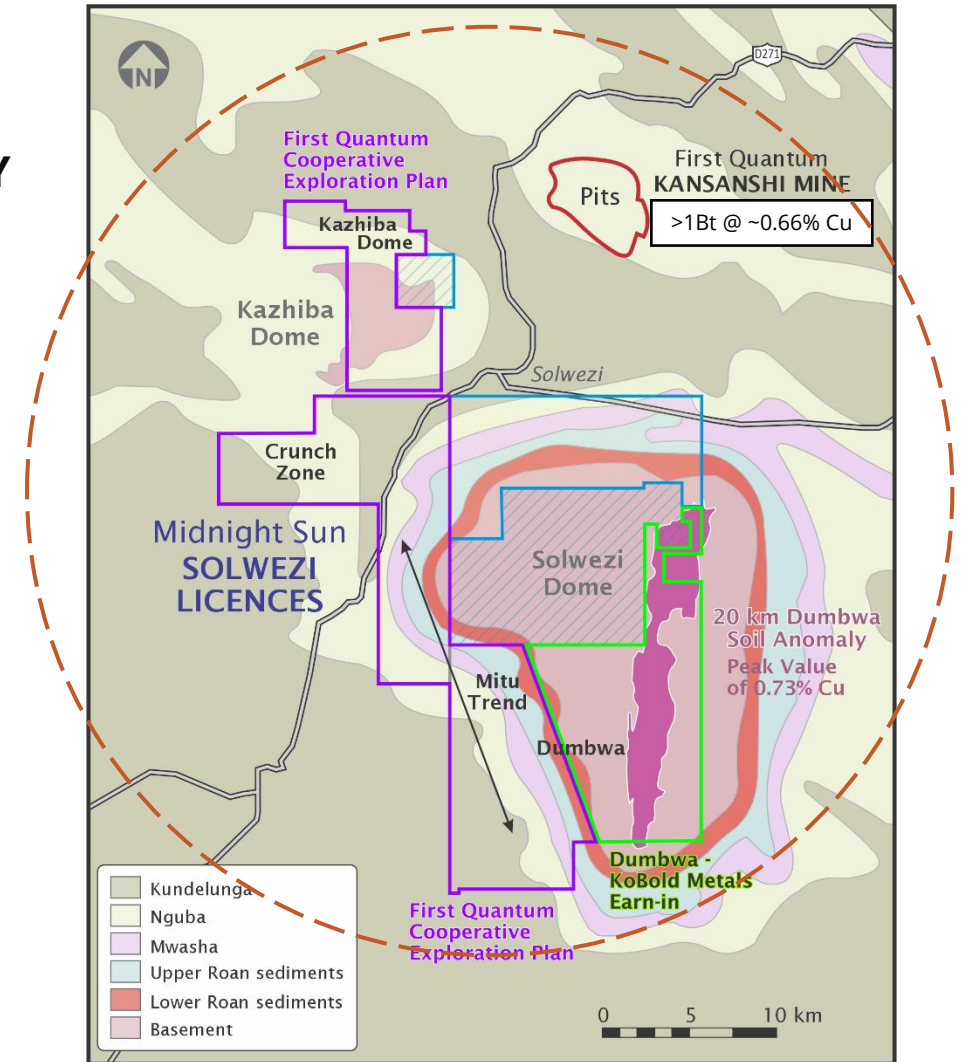
### OXIDE COPPER - A NEAR-SURFACE, NEAR-TERM MINING OPPORTUNITY

Cooperative Exploration plan in place with First Quantum to jointly define potential feed sources on our property, for First Quantum's SX/EW oxide copper circuit at the Kansanshi Mine<sup>2</sup>

Extensive oxide copper potential exists across our entire property package

Near-term mining opportunity, that could produce significant near-term positive cash flow from the throughput of material from our property

Exploration work on oxide copper targets underway now





# First Quantum Cooperative Exploration Plan

## Initial Target - Kazhiba

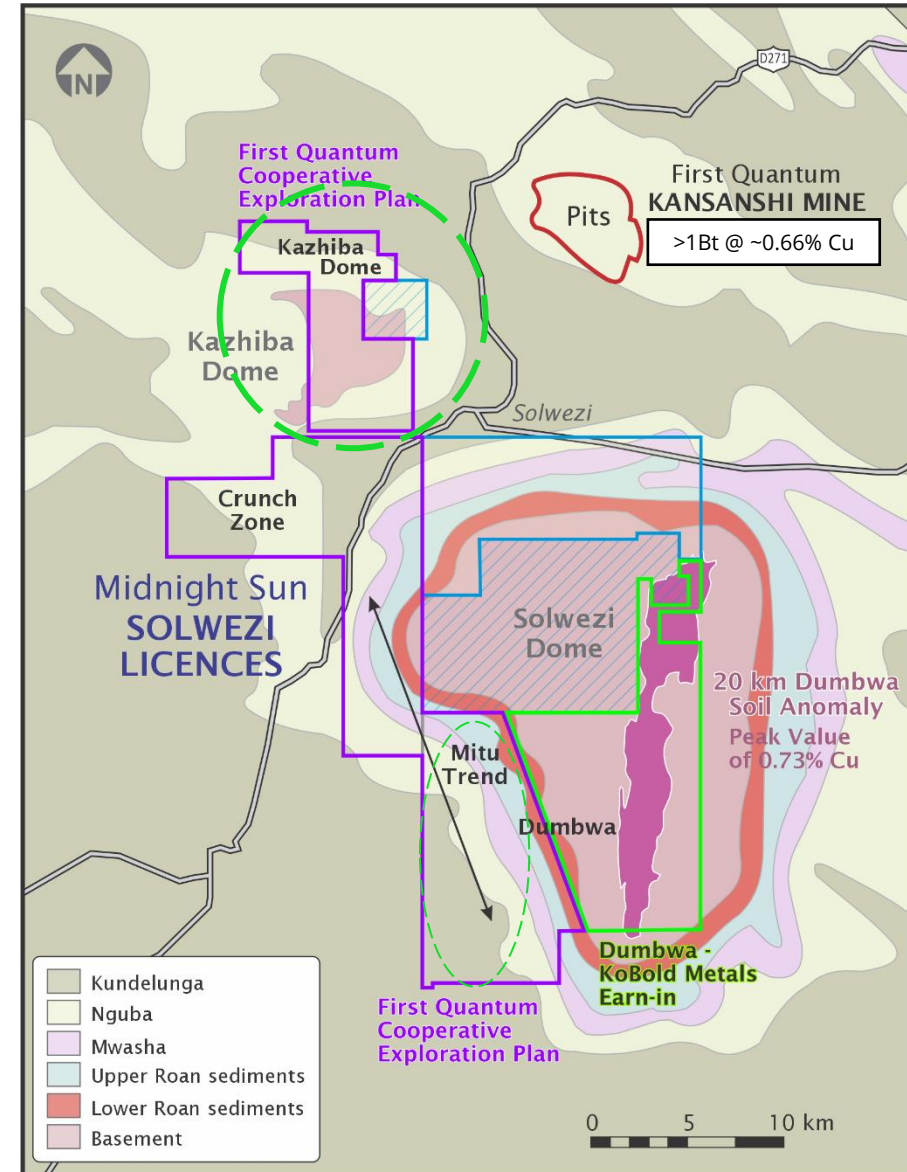
### Kazhiba

Drilling to date, intercepted numerous high-grade intervals of oxide mineralization and identified a high-grade oxide copper blanket

This included **14.2 m of 5.71% Cu** with additional intercepts including **24 m of 3.15% Cu and 8.0 m of 5.14% Cu<sup>1</sup>**, all near surface

Exploration program in partnership with First Quantum now underway – Announced September 19, 2024<sup>4</sup>

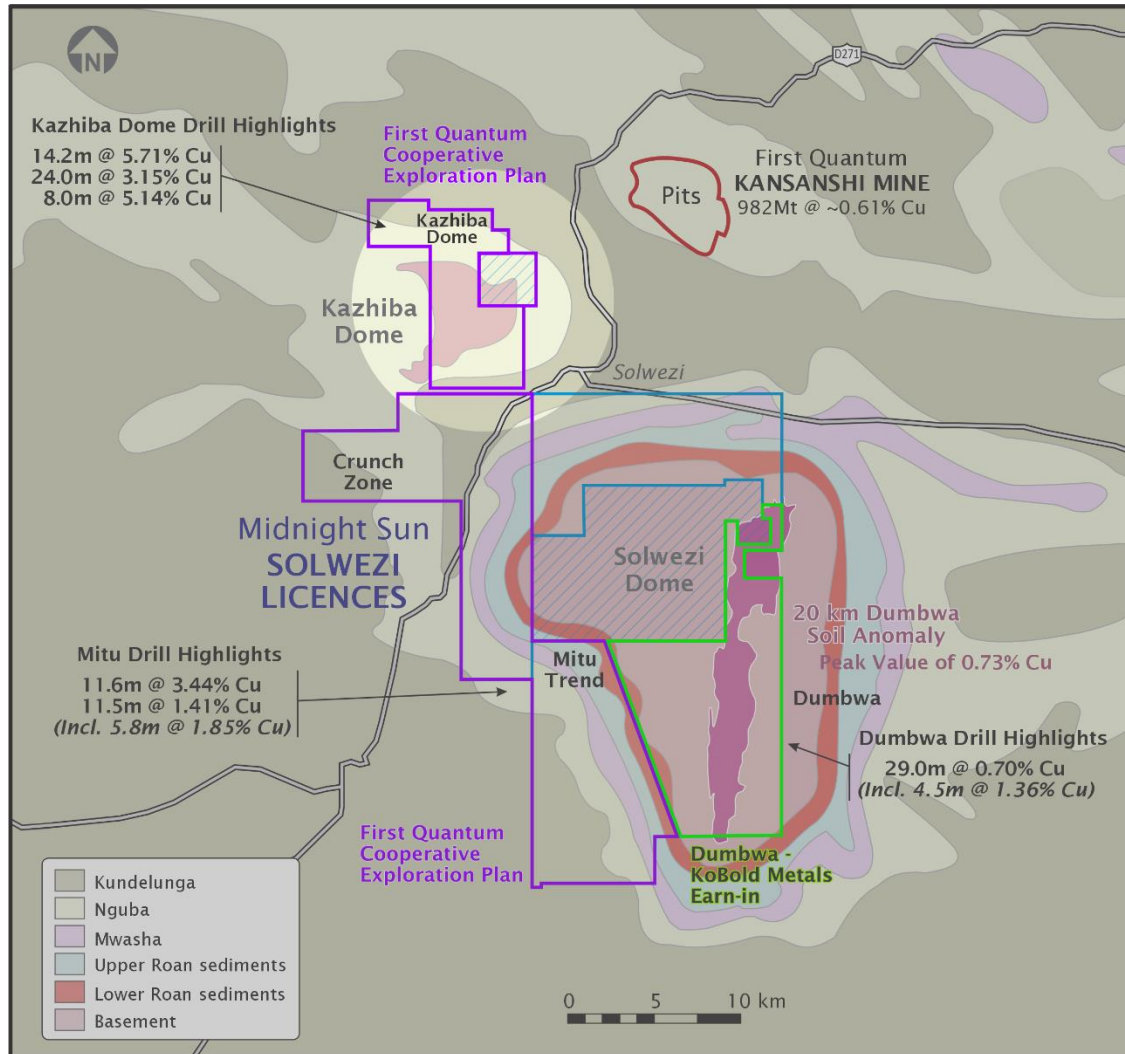
Approximately 3000m RC and AC Drilling, Ionic Leach Sampling and IP



1) Source: <https://www.midnightsunmining.com/zambian-properties/>  
2) All reported widths are intercept widths; true widths are estimated to be 70-95% of intercept widths  
3) April 23<sup>rd</sup>, 2024 News Release <https://midnightsunmining.com/2024/midnight-sun-announces-cooperative-oxide-copper-exploration-plan/>  
4) September 19, 2024 News Release <https://midnightsunmining.com/2024/midnight-sun-announces-start-of-kazhiba-exploration-program/>

# Kazhiba Shallow Copper Oxide Footprint

## Just The Beginning



## Highlights

- Shallow drilling (<50 m - RAB or AC) has proven near surface copper oxide intercepts
- Intercepts highly variable in thickness and grade – typical of Zambian supergene deposits
- Some ‘zero’ intercepts within the target footprint are probably holes stopped short of mineralization or just sheer grade variability
- Some holes stopped in significant mineralization
- Open in multiple directions. Extensions to add further shallow oxide mineralization to be drill tested
- Existing drilling demonstrates that Kazhiba is a strongly variable near surface (low strip) unexploited copper oxide opportunity with a base case potential of 3.9 Mt in situ. There is significant upside potential, to increase the mineralized zone along the ‘open’ directions indicated with further shallow drilling

# First Quantum Cooperative Exploration Plan

## Initial Target - Mitu

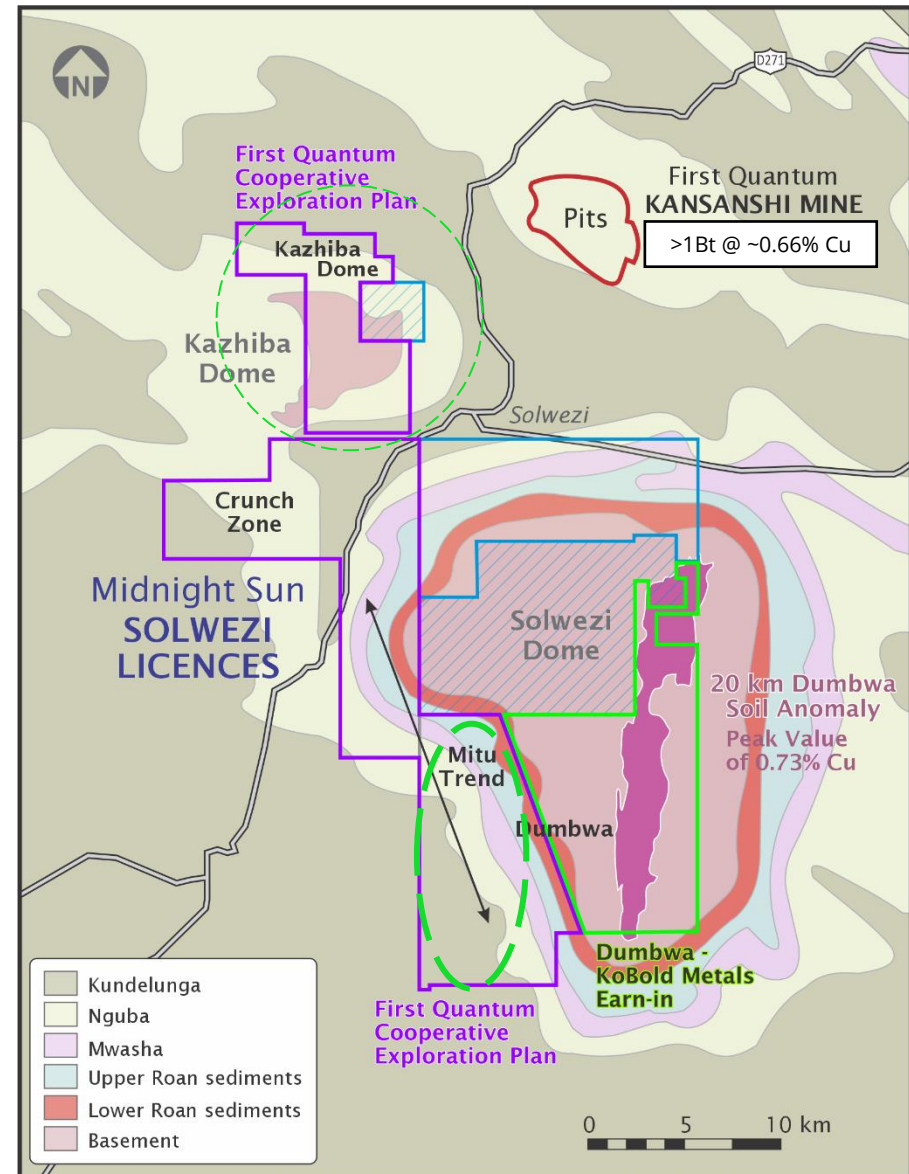
### Mitu

Drilling to date, intercepted numerous high-grade intervals of oxide mineralization, starting from surface

Mineralization intercepted at Mitu, contained significant cobalt and nickel in addition to high grade copper

Drill intercepts included **11.6 m of 3.44% Cu and 11.5 m of 1.41% Cu<sup>1</sup>**

Initial Oxide Exploration Program, in partnership with First Quantum, to take place in 2024/2025 following initial drilling at Kazhiba

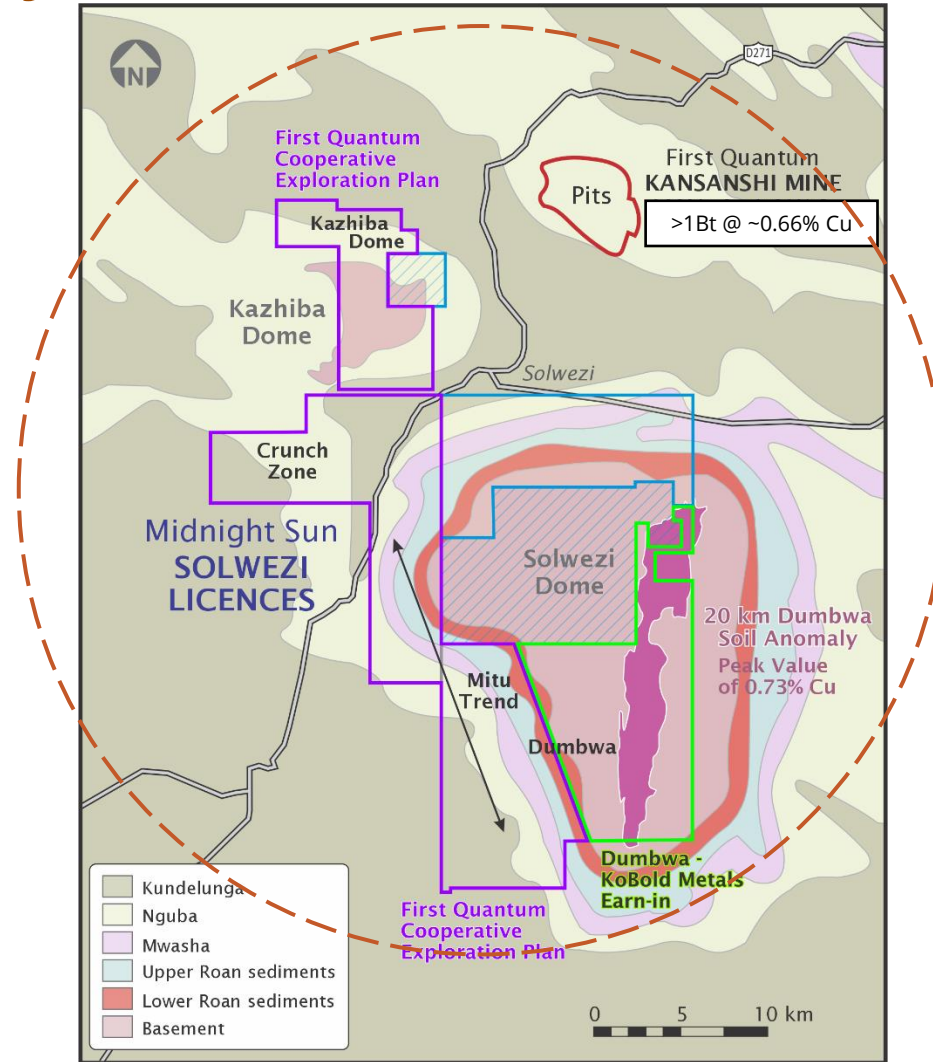




# First Quantum Cooperative Exploration Plan

## Near-Surface Drill Results Tell The Story

- 21.1m of 8.52% Cu
- 4.5m of 6.31% Cu
- 24m of 3.15% Cu
- 8m of 5.14% Cu
- 1.9m of 3.46% Cu, and 3.8m of 3.42% Cu incl. 2m of 2.41% Cu and 2m of 4.54% Cu
- 14.2m of 5.71% Cu, incl. 7.2m of 9.58% Cu
- 2.5m of 1.62% Cu
- 9.4m of 0.48% Cu







**THE BLUE SKY**  
OUR 3 ADDITIONAL TARGETS  
FOR TRANSFORMATIVE SED-EX COPPER DISCOVERY



# Multiple Targets

## Kazhiba Dome

### KAZHIBA DOME HIGHLIGHTS

85% Owned by Midnight Sun, with option to earn 100%

<10km from the Kansanshi Mine Complex

Discovery holes, all near-surface include:

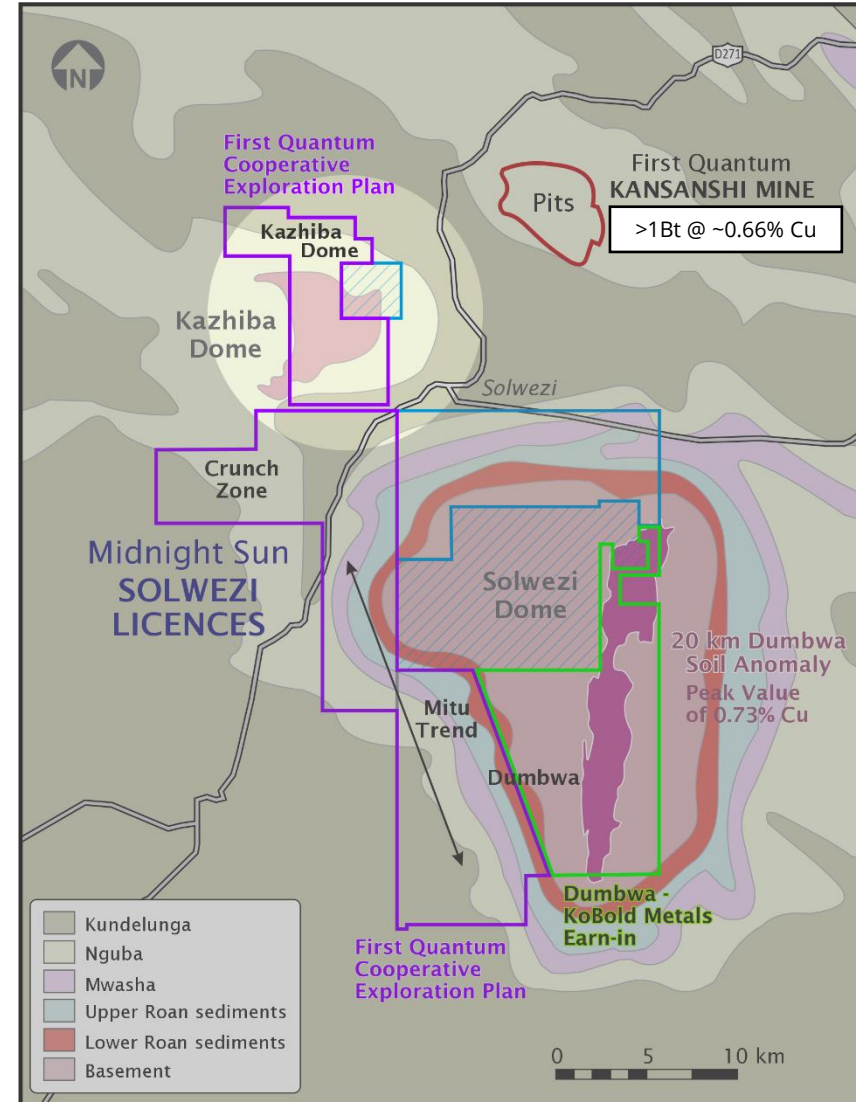
SLZ-DD-010 - **14.2 m of 5.71% Cu**

SLZ-RC-002 - **24 m of 3.15% Cu**

SLZ-DD-005 - **8.0 m of 5.14% Cu<sup>1</sup>**

Multiple drill intercepts identified a high-grade copper oxide blanket, the source of which is yet to be found

Underlain by a previously undiscovered basement dome similar to those at Kansanshi and Solwezi. Domes are believed to be associated with the copper mineralization at each of Kansanshi, Lumwana, and Sentinel





# Kazhiba Dome

## DRILL HIGHLIGHTS AT KAZHIBA DOME INCLUDE:

- SLZ-RC-002 - 24.0 m of 3.15% Cu
- SLZ-DD-010 - 14.2 m of 5.71% Cu
- SLZ-DD-005 - 8.0 m of 5.14% Cu
- SLZ-DD-001 - 4.5 m of 6.31% Cu



# Multiple Targets

## Mitu

### MITU HIGHLIGHTS

100% Owned by Midnight Sun

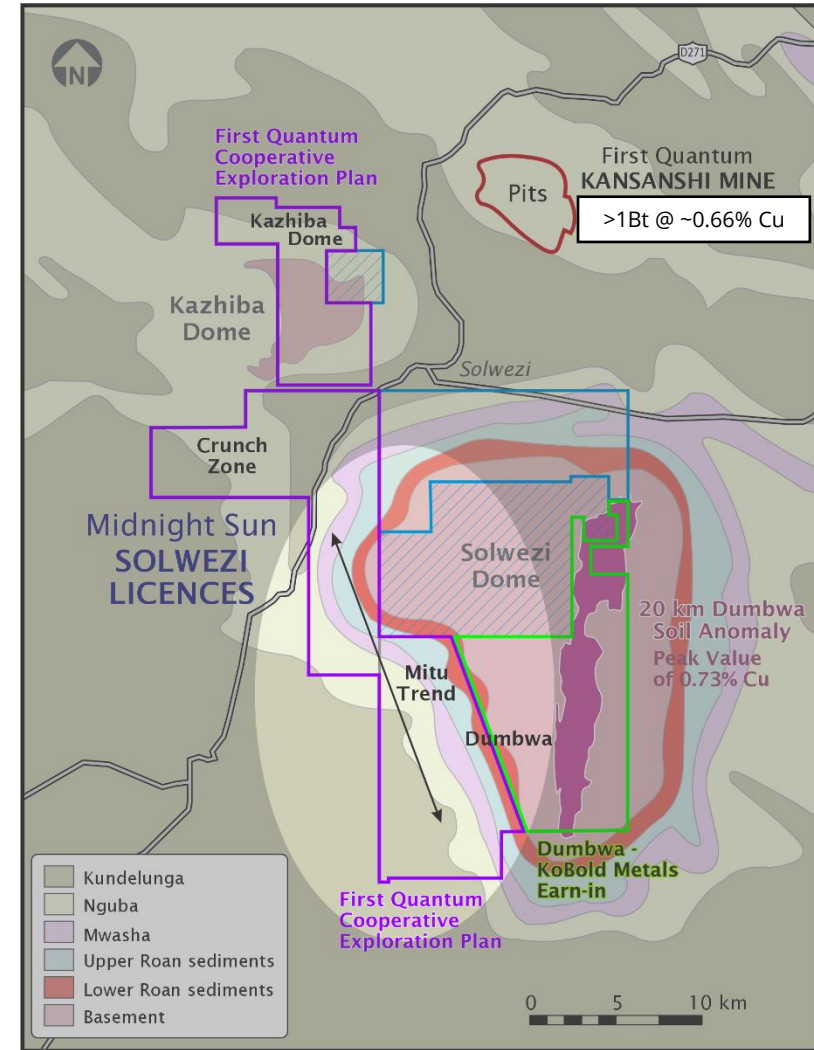
Discovery holes intercepted Copper/Cobalt mineralisation, all near-surface, including:

MDD-17-15 - **11.6 m of 3.44% Cu**

MTDD-044 - **11.5 m of 1.41% Cu<sup>1</sup>**

New Analog established - Copper mineralisation style (Cu-Co-Ni-Au) and grade similar to Sentinel Mine just 100 km to the west<sup>2</sup>

Proof of concept – One of multiple unique mineralized systems on the property



1) <https://www.midnightsunmining.com/2014/midnight-sun-reports-additional-drill-results-from-solwezi-property/>  
2) <https://midnightsunmining.com/2023/midnight-sun-confirms-high-grade-drill-intercepts-at-mitu/>  
3) All reported widths are intercept widths; true widths are estimated to be 70-95% of intercept widths



# Mitu Drill Highlights

## DRILL HIGHLIGHTS AT MITU INCLUDE:

- **MDD-17-15 – 11.6 m of 3.44% Cu, 0.07% Co, 0.06% Ni** ←
- MDD-16-01 - 8.0 m of 1.22% Cu, 0.09% Co, and 0.05% Ni and 14.0 m of 0.85% Cu, 0.07% Co, 0.05% Ni
- MDD-16-06 – 35.6 m of 0.49% Cu, 0.03% Co, and 0.05% Ni and 9.0 m of 0.49% Cu, 0.02% Co, 0.03% Ni
- MDD-16-09 – 11.0 m of 1.03% Cu, 0.14% Co, 0.04% Ni
- MDD-16-11 – 32.9 m of 0.82% Cu, 0.03% Co, 0.05% Ni



# Multiple Targets Crunch

## CRUNCH ZONE HIGHLIGHTS

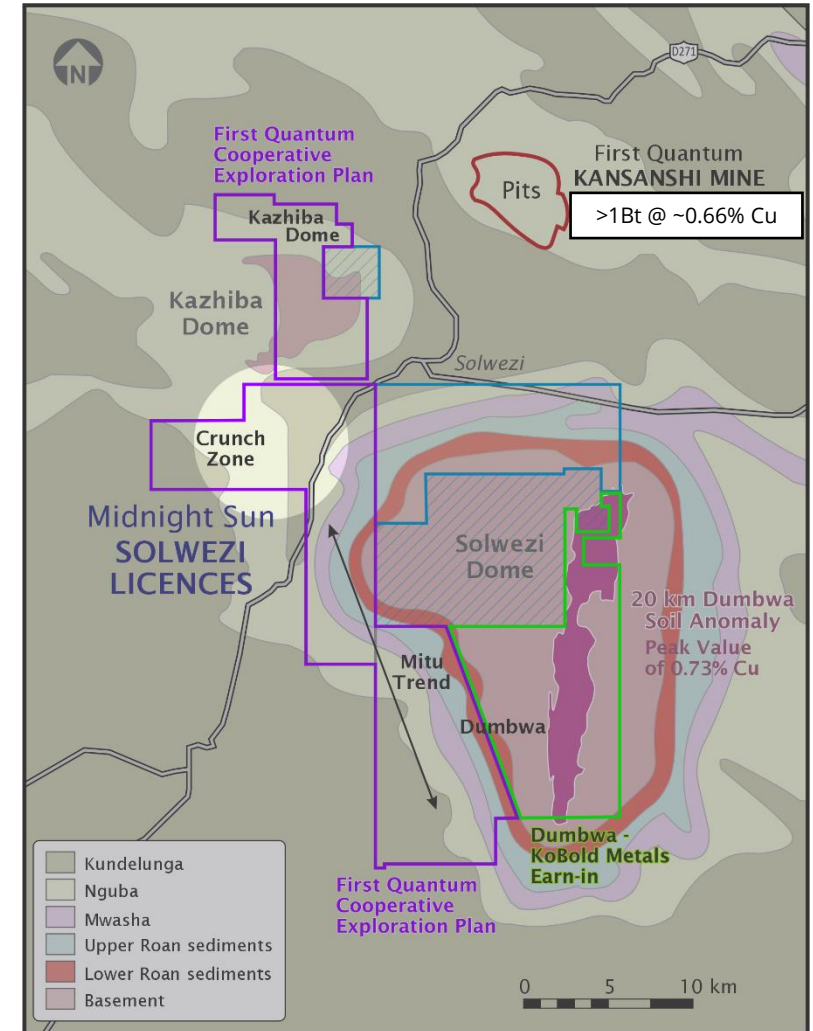
100% owned by Midnight Sun

A VTEM survey identified the largest untested continuous EM conductive target on the property at Crunch

This conductive trend represents a potential new discovery occurring in the same stratigraphy as that surrounding the neighbouring Kansanshi Mine

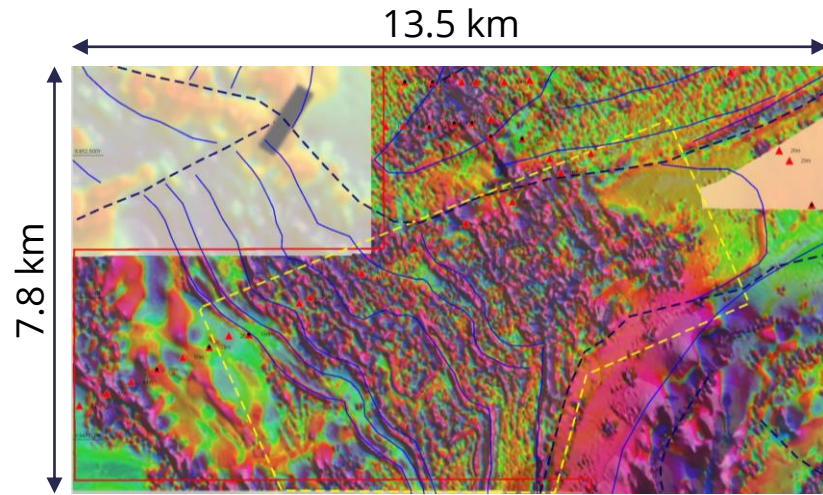
This newly identified structural target features a wedged fan of tight structural folds crunched between the Kazhiba and Solwezi Domes, and linked to Kansanshi via a succession of sedimentary host rock

The size and scale of this anomaly warrants systematic exploration

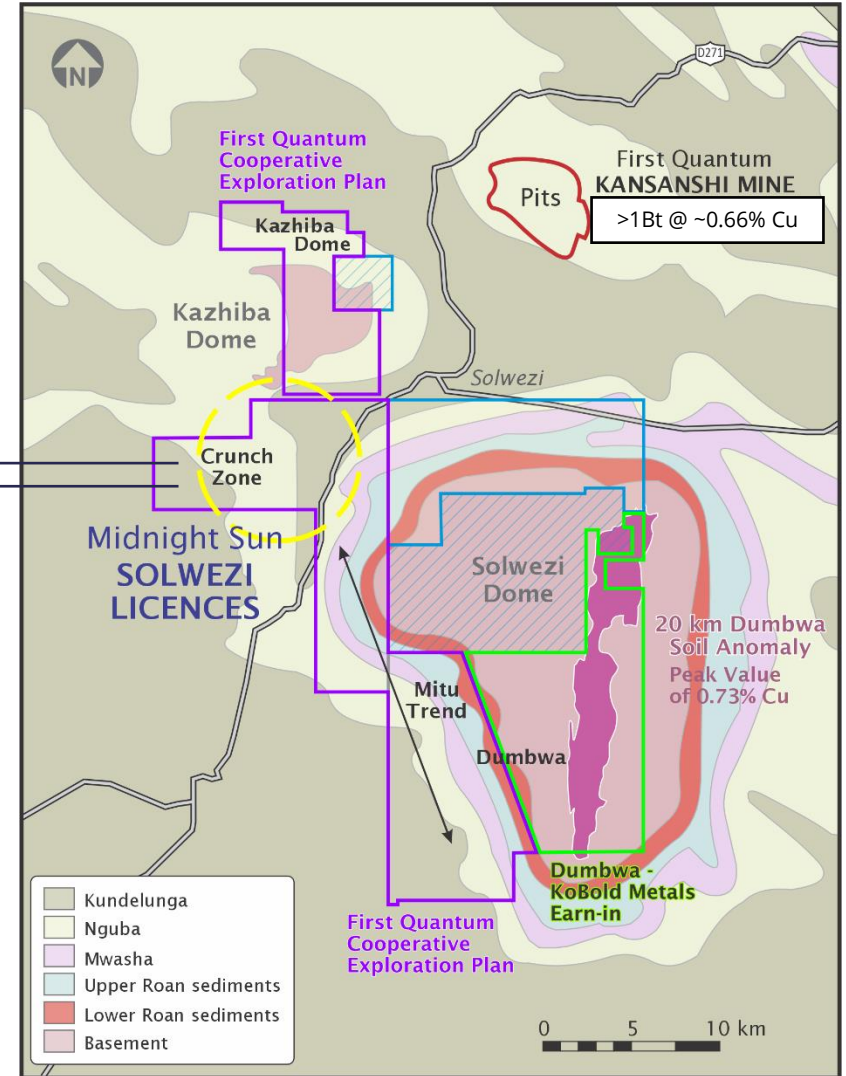


# Multiple Targets

## Largest Untested EM Target



Untested & continuous target, extending for over 5 km in length and 2 km strike





# The Opportunity - Takeaway

- Our property is large, highly prospective, and located in Zambia, in the heart of the Zambia-Congo copper belt, the second largest copper-producing region in the world<sup>1</sup>
- Our vast 506 km<sup>2</sup> property features multiple targets; each a unique opportunity for transformative discovery
- We are surrounded by world-class copper mines and top-tier mining companies including First Quantum, Barrick, Rio Tinto, Ivanhoe and Anglo American. First Quantum's Kansanshi Mine, Africa's largest copper producer, is located right next door<sup>2</sup>
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- We have a Cooperative Exploration plan in place with First Quantum to jointly define potential feed sources on our property, for First Quantum's SX/EW oxide copper circuit at the Kansanshi Mine. This very unique near-term mining opportunity for oxide copper, could produce significant near-term positive cash flow from the throughput of material from our property<sup>4</sup>
- \$10MM Financing completed. Funded for near-surface copper oxide drilling
- Our geological environment is conducive to world-class, large, high-grade and scalable copper deposits and we have already made drill discoveries across our project, with similar geological characteristics and grades to the operating mines that surround us
- Timing is everything. Copper is forecast to see unprecedented demand and market pricing in the near future, and for many years to come

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2) Source: First Quantum Minerals Ltd. <https://www.first-quantum.com/English/our-operations/default.aspx#module-operation-kansanshi>

3) See Midnight Sun Mining News Release February 20th, 2024

4) April 23<sup>rd</sup> 2024 News Release <https://midnightsunmining.com/2024/midnight-sun-announces-cooperative-oxide-copper-exploration-plan/>



# Midnight Sun – Capital Structure

## CAPITAL STRUCTURE

Basic Shares Outstanding	165.0 million
Warrants	58.0 million
Options Outstanding	12.7 million
Share Price	\$0.475
Market Capitalization	\$79.0 million
Management & Directors	10%
Corporate & Institutional	16%
52 Week Range	\$0.19 - \$0.58

## ANALYST COVERAGE



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VP, Mining Analyst  
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# Directors & Management

## Al Fabbro

### PRESIDENT, CEO & DIRECTOR

- Finance and mining executive and entrepreneur
- +45 years' experience
- Former head retail trading of Yorkton Securities, and Yorkton's Natural Resources Group
- +10 years IA Canaccord Capital, specializing in the natural resource sector and former Lead Director of Roxgold

## Brett A. Richards

### DIRECTOR

- Mining and Metals Executive with Senior level experience
- +30 years' experience
- Former CEO of African Thunder Platinum, Renew, Octéa, Roxgold, Avocet, and founder of Katanga. Held senior executive positions with Kinross Gold and Co-Steel.
- Current Director of Goldshore Resources and Nickel 28

## Rick Mazur

### DIRECTOR

- P.Geol, Geoscientist, Project geologist, financial analyst and senior executive
- +45 years' experience
- Former Analyst, Former Director of Roxgold, Current Director of Big Ridge Gold, Impact Silver, and CEO of Forum Energy Metals

## Wayne Moorhouse

### DIRECTOR

- CFA – Experienced mining and construction executive
- Experience from exploration to mine operations to M&A
- Former Director of Genco, Stealth Energy, and former CFO Roxgold. Current President/CEO of EnviroMetal Technologies

## Kevin Bonel

### COO, ZAMBIA

- Ph.D, P.Geol. Independent geologist and exploration manager
- +25 years' experience in Sub-Saharan Africa, most recently with Barrick Gold's operations at the Lumwana Mine and Freeport McMoRan
- Led exploration team at Lumwana adding 25 years of reserves
- Responsible for discoveries including the Kamaranda copper deposit, the Mpemba Hill deposit, a new copper deposit near Mpongwe, Zambia. Oversaw Kisanfu pre-feasibility and feasibility in DRC, and reinterpretation of Munali Ni deposit in Zambia, now in production

## Robert Sibthorpe

### VICE PRESIDENT, EXPLORATION & DIRECTOR

- Geologist, executive and mining entrepreneur
- +50 years' experience
- Experience includes Noranda, Falconbridge and Ivanhoe. Former analyst for Midland Doherty, Yorkton Securities, and Canaccord
- Former President/CEO Roxgold and recipient of AMEBC Colin Spence Award

## Matt MacKenzie

### VP CORPORATE DEVELOPMENT, CORPORATE SECRETARY

- MBA and JD
- +12 years' experience
- Former finance positions with GE Capital Markets and BMO Capital Markets. Experience in mineral exploration, production, oil and gas services
- Former Manager of Business and Legal Affairs of Roxgold

## Alastair Brownlow

### CFO

- CPA, U.S. CPA (Washington) Extensive experience as CFO of publicly listed resource companies, spanning exploration, development, and production stage.
- Former auditor in the British Virgin Islands
- Began career at CPA firm specializing in the mining industry

## Adrian O'Brien

### DIRECTOR MARKETING & COMMUNICATIONS

- Senior Exploration Executive and Senior Marketing Executive
- +25 years' experience
- Former Director, Marketing and Communications PureGold Mining, former Director & President Kermode Resources, former President/CEO Pro Minerals, former Vice President Apella Resources
- Former Director Prospectors and Developers Association of Canada

## Margot Naudie

### ADVISORY BOARD

- BA and CFA with +25 years of capital markets experience
- Senior Portfolio Manager for North American and global natural resource portfolios
- Held senior roles at leading asset management firms including TD Asset Management, Marret Asset Management Inc., and the Canadian Pension Plan Investment Board
- Brendan Wood TopGun Investment Mind (Platinum) for 5 consecutive years
- Bachelor of Arts in Politics and Economics from McGill University, MBA from Richard Ivey School of Business, and Chartered Financial Analyst (CFA) Charter holder
- Current President of Elephant Capital Inc.

## Darin Wagner

### ADVISORY BOARD

- P.Geol, Senior Exploration and Mining Executive
- +30 years' experience
- Has served as Co-Founder, Senior Management or an Advisor to: MAG Silver, New Millennium Metals, Platinum Group Metals, Dryden Gold, West Timmins Mining, Balmoral Resources, Falco Resources, Newcastle Gold, and Nova Royalty
- Served as President, CEO, Director, and QP for West Timmins through discovery of Thunder Creek and 144 gold deposits and oversaw \$424 million acquisition by Lake Shore Gold
- Founder, President and CEO of Balmoral until \$160 million acquisition by Wallbridge Mining Company Ltd



M I D N I G H T   S U N   M I N I N G

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T R A N S F O R M A T I V E   C O P P E R   D I S C O V E R I E S  
I N   T H E   H E A R T   O F   Z A M B I A

**CORPORATE INQUIRIES**

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