

TRANSFORMATIVE COPPER DISCOVERIES IN THE HEART OF ZAMBIA

November 3rd, 2023

Forward looking statements

This Presentation is for information purposes in connection with Midnight Sun Mining, ("Midnight Sun" or the "Company"). While the information contained herein has been prepared in good faith, neither the Company nor any of its shareholders, directors, officers, agents, employees, consultants or advisers give, have given, or have authority to give, any representations or warranties (express or implied) as to, or in relation to, the accuracy, reliability, completeness or suitability of the information in this Presentation, or any revision thereof, or of any other written or oral information made or to be made available to any interested party or its advisers (all such information being referred to as "Information") and liability therefore is expressly disclaimed.

Accordingly, neither the Company nor any of its shareholders, directors, officers, agents, employees, consultants or advisers take any responsibility for, or will accept any liability whether direct or indirect, express or implied, contractual, tortious, statutory or otherwise, in respect of the accuracy or completeness of the Information or for any of the opinions contained herein or for any errors, omissions or misstatements or for any loss, howsoever arising or out of or in connection with the use of this Presentation. Each party to whom this Presentation is made available must make its own independent assessment of the Company and the Presentation after making such investigations and taking such advice as may be deemed necessary. Any reliance placed on the Presentation is strictly at the risk of such person relying on the Presentation.

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", "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.

Although we believe that the expectations and assumptions reflected in the statements are reasonable, any person relying on such Information are cautioned that we cannot guarantee future results, levels of activity, performance or achievement. In preparing this Presentation and except as required by law, we do not undertake or agree to any obligation or responsibility to provide the recipient with access to any additional information or to update this Presentation or Information or to correct any inaccuracies in, or omission from this Presentation or update publicly any forward-looking statements for any reason after the date of this Presentation to conform these statements to actual results or to changes in our expectations.

This Presentation does not constitute an offer or invitation to sell, or any solicitation of any offer to subscribe for or purchase any securities and nothing contained herein shall form the basis of any contract or commitment whatsoever. Copies of this Presentation should not be distributed to any affiliates, third parties or indirect recipients in any manner whatsoever. The distribution of this Presentation in or to persons subject to other jurisdiction may be restricted by law and persons into whose possession this Presentation comes should inform themselves about and observe any such restrictions. Any failure to comply with these restrictions may constitute a violation of the laws of the relevant jurisdictions.

This Presentation is strictly confidential and may not be reproduced, disseminated or used without the express and written consent of the Company. The Information in this Presentation concerning the business and its affairs, shareholders, directors, officers, agents, employees, consultants or advisers or any other matter must be kept confidential at all times. If the Company suffers loss, damage or liability of any kind in connection with your breach of the restriction on reproduction or use, you will indemnify the Company from and against such loss, damage or liability.

ALL DOLLAR AMOUNTS ARE IN CAD UNLESS OTHERWISE NOTED.

All true widths are calculated using cross-sectional analysis.

Qualified Person: Richard Mazur, P.Geo., a Director of the Company and 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 Zambian-Congo copper belt, the second largest Copper Producing region in the world

We are surrounded by world-class producing copper mines and operators including First Quantum, Barrick, Rio Tinto and Ivanhoe. First Quantum's Kansanshi Mine, Africa's largest copper producer, is located right next door

Our geological environment is conducive to world-class, large, high-grade and scalable copper deposits

Our vast **506 km²** property features multiple opportunities for a transformative discovery, including numerous structural and mineralized targets

We have already made two high-grade discoveries: at Kazhiba (22 Zone) and Mitu, and both have similar geological characteristics and grades to operating mines located just next door

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



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."¹



Zambia – A World Class Copper District

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

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

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

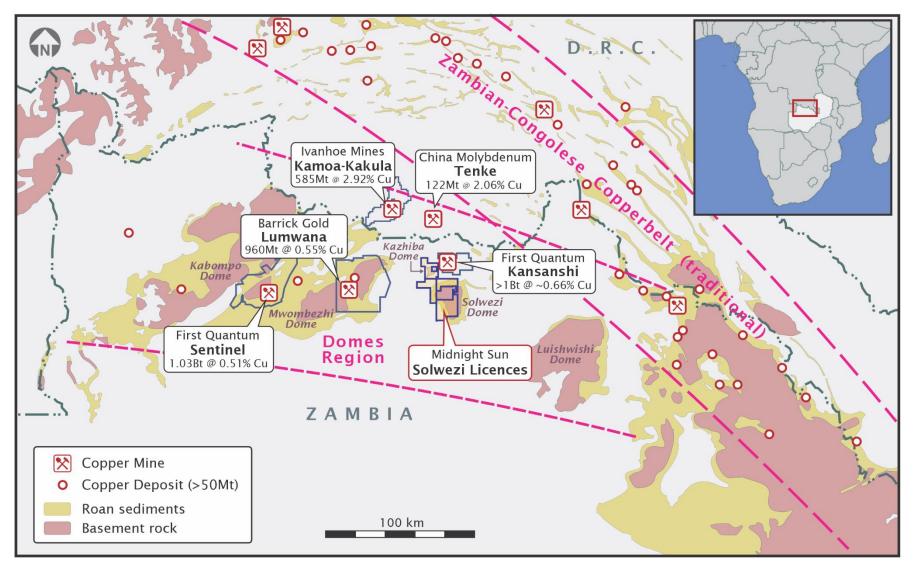
Geological environment is conducive to large, high-grade and scalable copper deposits, in fact Zambia possesses one of the world's highest-grade deposits of copper

Home to world class mines and world operators including First Quantum, Barrick, Rio Tinto, Anglo and KoBold

English language, Trained population/workforce



Located In The Heart Of The Zambian-Congo Copper Belt





Surrounded By World-Class Producers

KANSANSHI (First Quantum)	>1 billion tonnes at ~0.66% Cu and 4 million oz of Au ~10 km from Midnight Sun Africa's largest copper mining complex ¹
LUMWANA (Barrick)	960 million tonnes at 0.55% Cu ² ~20 km from Midnight Sun
SENTINEL (First Quantum)	1.03 billion tonnes at 0.51% Cu ³ ~120 km from Midnight Sun
KAMOA KUKULA (Ivanhoe)	585 million tonnes at 2.92% Cu ⁴ ~190 km from Midnight Sun, located in DRC
TENKE FUNGURUME (China Moly)	China Molybdenum acquired 80% of the asset for \$3.79B USD ⁵ ~ 90 km from Midnight Sun



Surrounded by World-Class Producers The Importance of Grade

LUMWANA

0.51% Cu



MIDNIGHT SUN

KANSANSHI

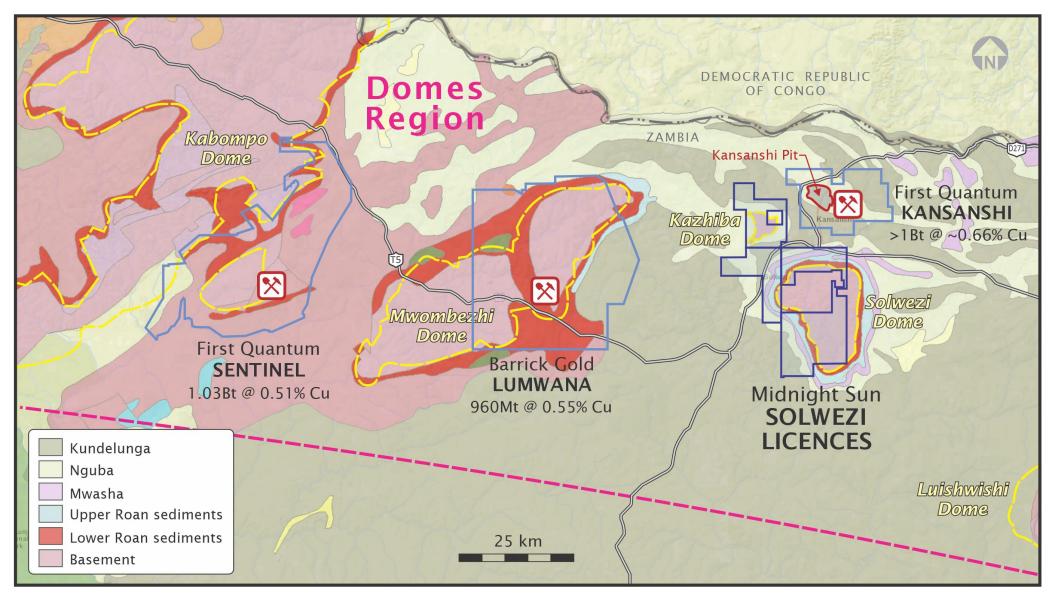
0.66% Cu

Dumbwa Soil Anomaly >20 km up to 0.728% Cu

Drill highlights include 11.3 m of 5.71% Cu (Kazhiba Dome) 21 m of 3.26% Cu (Kazhiba Dome) 6.4 m of 5.08% Cu (Kazhiba Dome) 16.5 m of 0.93% Cu incl 5 m of 1.36% Cu (Dumbwa) 11.6 m of 3.44% Cu (Mitu) 11.5 m of 1.51% Cu incl 6.6 m of 2.26% Cu (Mitu)



Surrounded By World-Class Producers and Operators





Size and Scale – The Great Differentiator Our Target

Deposits in the Zambian-Congo Copper Belt contain....

Billions of tonnes of copper <u>NOT</u>

Millions of tonnes of copper

We are targeting the discovery of multi-generational copper deposits



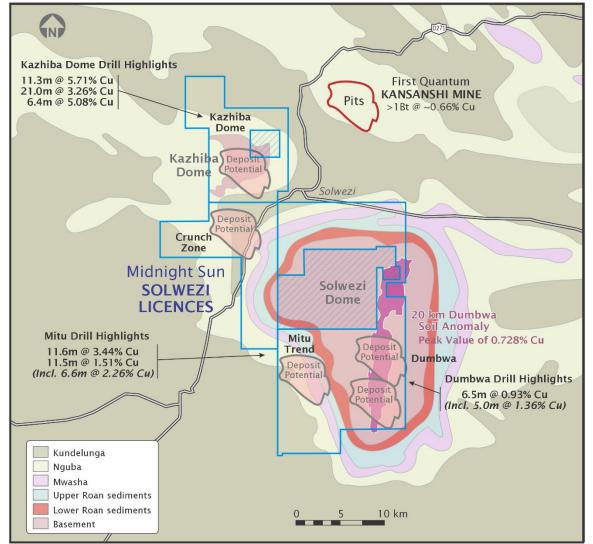
Multiple Unique Opportunities For A Transformative Discovery

506² kilometres of key geology. Room for multiple, separate geological systems within the boundaries of our property

- Dumbwa
- Kazhiba
- Mitu
- Crunch
- Oxides

Each target represent a significant and unique opportunity for discovery of a transformative, multi-generational deposit

Multiple significant discoveries already made, across our property





Multiple Unique Opportunities For A Transformative Discovery

DUMBWA

- Continuous high-grade copper-in-soil anomaly for **over 20 km** along strike and about 1 km wide with peak values up to **0.728% Cu**
- Multiple stacked mineralized horizons analogous to Lumwana deposit
- Extensive oxide copper

KAZHIBA DOME (22 ZONE)

- Multiple drill intercepts of high-grade copper oxide
- Kazhiba Dome 22 Zone discovery hole: **11.3 m grading 5.71% Cu**, near surface
- Extensive oxide copper

MITU TREND

- Copper mineralisation style and grade similar to Sentinel Mine, associated with cobalt, nickel, and anomalous gold
- Series of near surface Cu-Co-Ni-Au intercepts
- Copper / cobalt mineralization in shales and Kansanshi style veins, including **11.6 m grading 3.44% Cu and 11.5 m of 1.41% Cu**
- Extensive oxide copper

CRUNCH ZONE

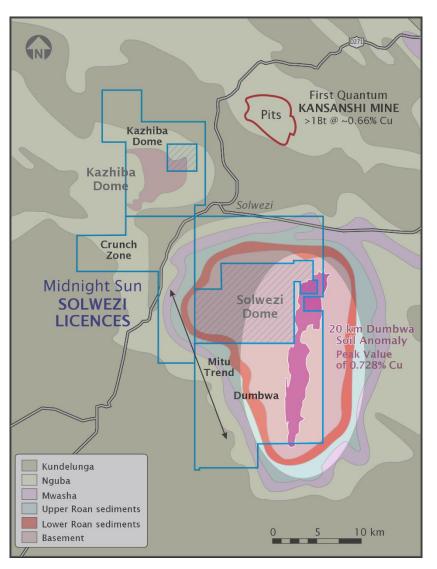
- Newly identified structural target
- Major structural boundaries compressed between domal structures
- Potential for localizing & concentrating Cu-bearing fluids
- · Geochemical anomalism confirmed
- Largely untested VTEM conductive anomaly
- Occuring in the same stratigraphy as First Quantum's Kansanshi Mine

OVERALL OXIDE POTENTIAL

- Goal: >50 million tonnes at 0.3% Cu
- Represents an attractive opportunity for an existing local operator or new entrant to the world-class Zambia-Congo Copperbelt to achieve near-term production



Multiple Targets Dumbwa



DUMBWA HIGHLIGHTS

Tier-One Exploration Target

Continuous high-grade copper-in-soil anomaly for over 20 km along strike and ~1 km wide with peak values up to **0.728% Cu**

The strongest soil anomaly on record in Zambia

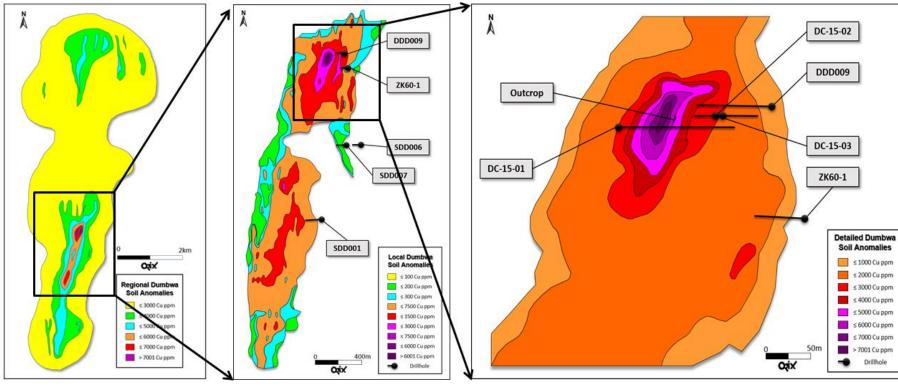
Multiple stacked mineralized horizons analogous to Barrick's Lumwana

Systematic drilling guided by structural controls, necessary to establish dip direction, continuity, size, and scale

Extensive soil sampling, and shallow drilling have established extensive oxide copper potential



Dumbwa



A +<u>20 km long</u> north-south trending soil anomaly peaking at <u>7,280 ppm (**0.728% Cu**)</u> 6 diamond drill holes returned Cu and Co intercepts, in near surface oxide or deeper sulfide zones

Highlights include:

Drillhole DC-15-03: **13 m @ 0.63% Cu incl. 3 m @ 1.3% Cu** Drillhole DC-16-01: **12 m @ 0.72% Cu** Drillhole DCAC-16-39: **12 m @ 0.65% Cu incl. 6 m @ 1.06% Cu**



Multiple Targets Kazhiba Dome

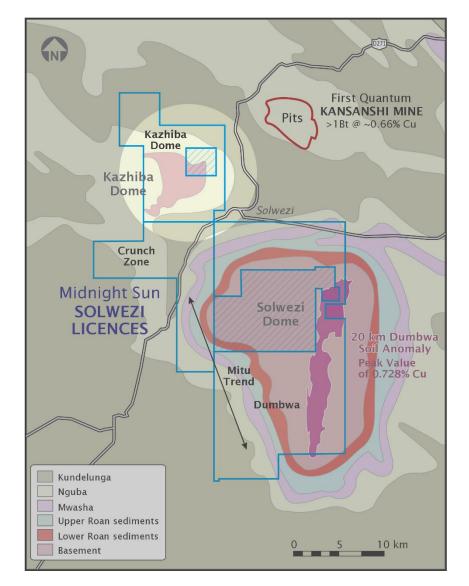
KAZHIBA DOME HIGHLIGHTS

Less than 10km from the western gate of the Kansanshi Mine complex

Discovery hole: **11.3 m of 5.71% Cu**, near surface. Additional intercepts include **21 m of 3.26% Cu**, **and 6.4 m of 5.08% Cu**¹

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:

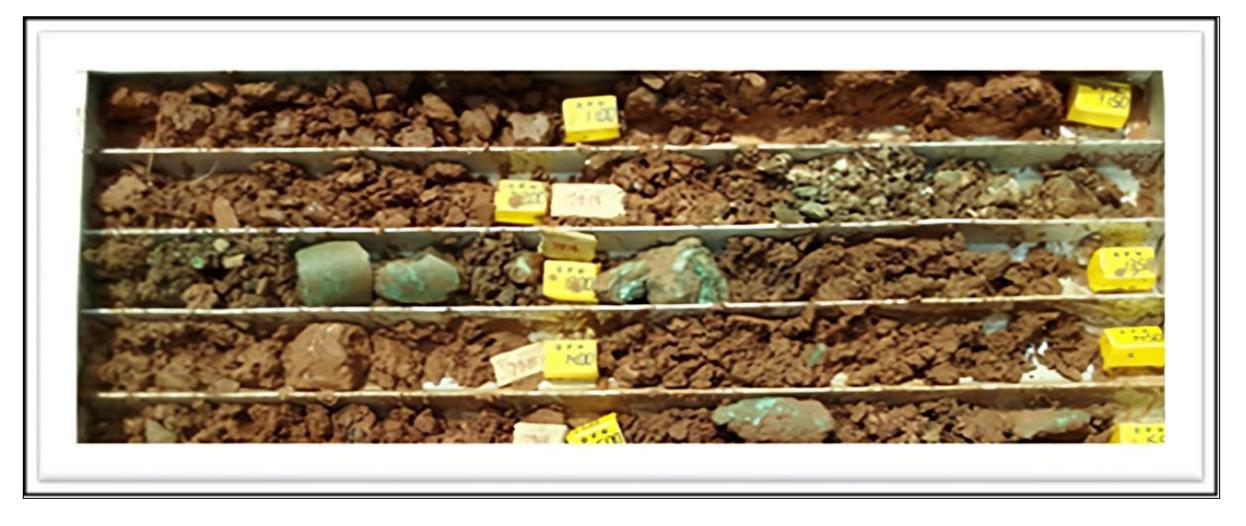
- SLZ-13-RC-002 21.0 m of 3.26% Cu
- SLZ-14-DD-010 11.3 m of 5.71% Cu
- SLZ-14-DD-005 6.4 m of 5.08% Cu
- SLZ-14-DD-001 4.5 m of 6.27% Cu

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

DD



Kazhiba Dome



High grade oxide copper mineralization (malachite) from SLZ-DD-14-010 drilled on the 22 Zone: 5.71% Cu over 14.2 (11.3 true) metres



Multiple Targets Mitu

MITU HIGHLIGHTS

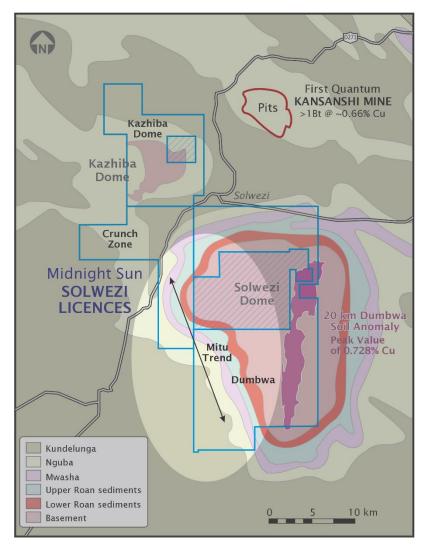
Analog - Copper mineralisation style (Cu-Co-Ni-Au) and grade similar to Sentinel Mine just 100 km to the west²

7 holes drilled at Mitu in 2022

Drilling intercepted Copper/Cobalt mineralization in shales and Kansanshi style veins, including **11.6 m of 3.44% Cu and 11.5 m of 1.41% Cu**

"Ore-shale" type mineralization on the flank of the Solwezi Dome

Recent discovery of structurally controlled Kansanshi-style mineralized veins which represent an additional mineralizing event in the area





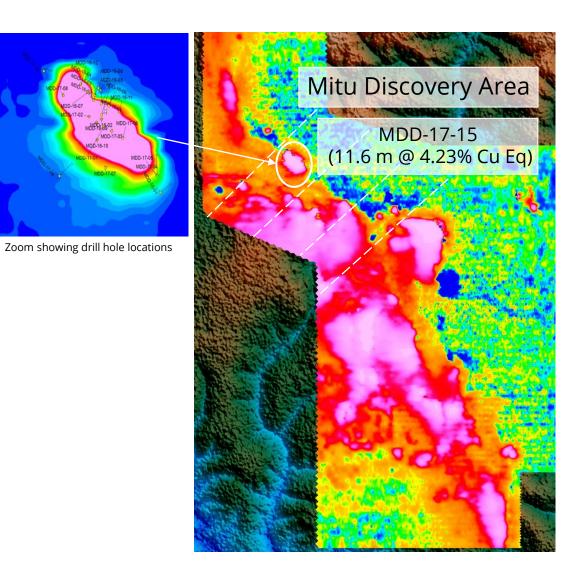
Mitu

New geophysical and geochemical data highlighted NE/SW structural controls crosscutting the Mitu Trend

Recent drilling has confirmed these structures contain Kansanshi-style mineralized veins

To date, drilling has primarily been done on the Mitu Discovery Area

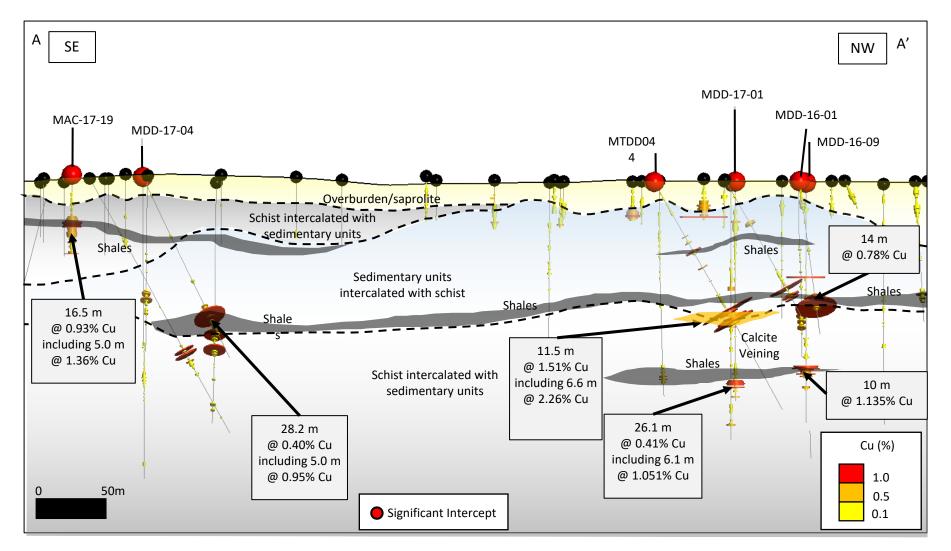
Drilling delineated a 1 km x 500 m area of mineralization





Mitu

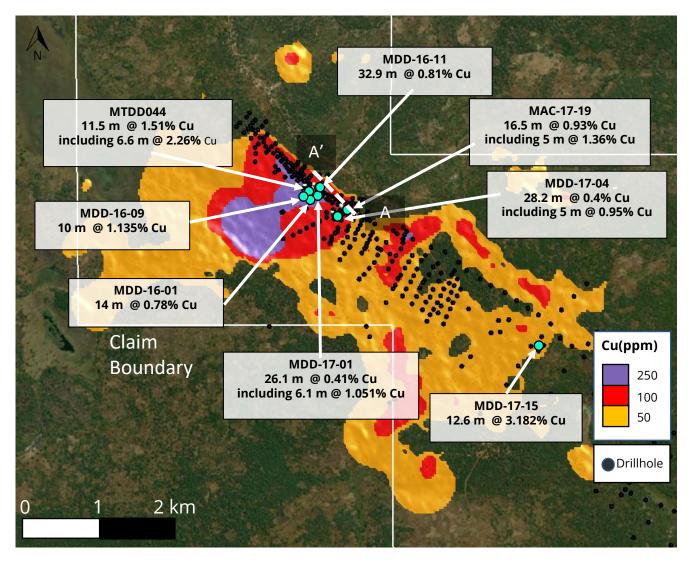
CROSS SECTION OF MITU DISCOVERY AREA





Mitu

PLAN VIEW OF ORIGINAL DISCOVERY AT MITU





Mitu Drill Highlights

DRILL HIGHLIGHTS AT MITU INCLUDE:

MDD-16-01 - 8.0 m of 1.22% Cu, 0.09% Co, and 0.05% Ni and 14.0 m of 1.02% Cu, 0.03% Co, 0.06% Ni

MDD-16-06 - 30.3 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

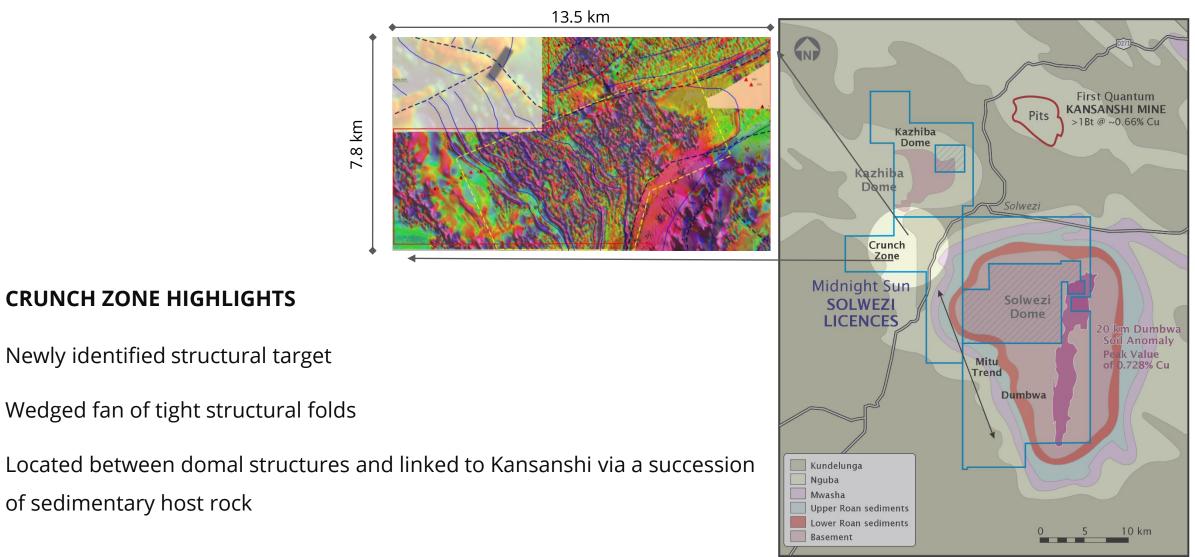
MDD-16-09 - 9.4 m of 1.03% Cu, 0.14% Co, and 0.04% Ni

MDD-16-11 - 28 m of 0.82% Cu, 0.03% Co, and 0.05% Ni

MDD-17-15 - 11.6 m of 3.44% Cu, 0.07% Co, and 0.06% Ni



Multiple Targets – Crunch Zone





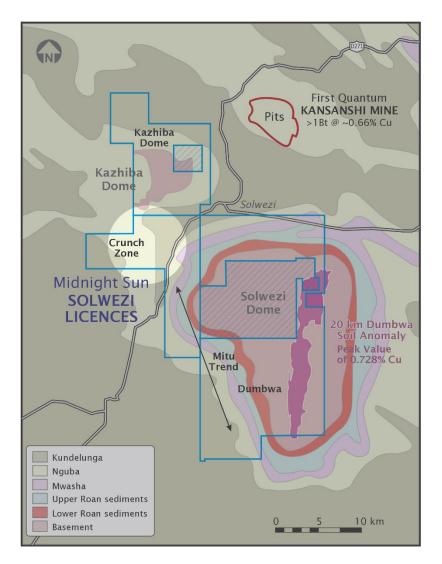
23

Crunch Zone

A VTEM survey identified the largest untested continuous EM conductive target/anomaly on the property

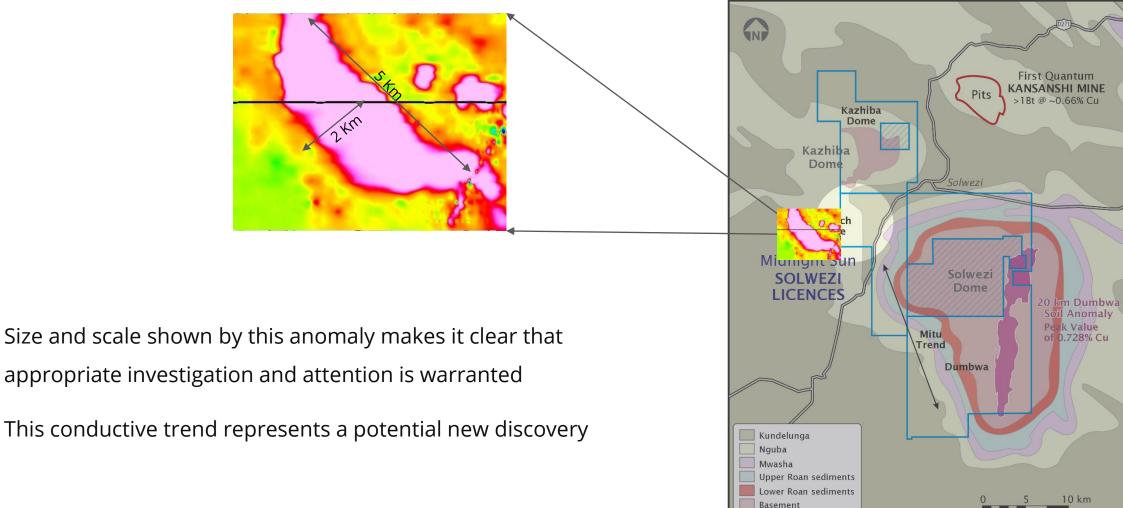
The trend occurs in the same stratigraphy as that surrounding the neighbouring Kansanshi Mine

Untested & continuous for +5 km in length and 2 km strike





Crunch Zone





Oxide-Copper Across Our Property

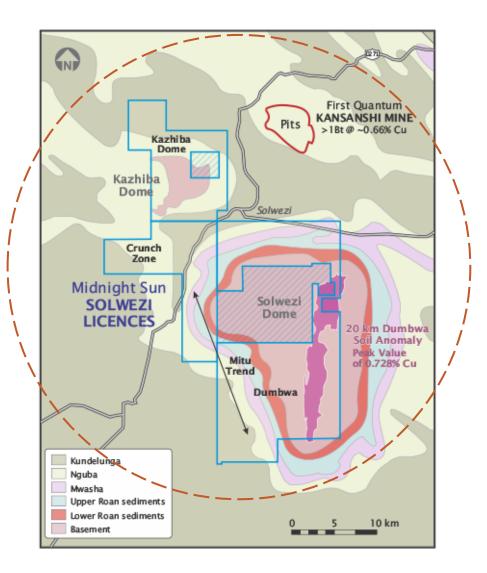
OXIDE COPPER - A NEAR-SURFACE, NEAR TERM MINING OPPORTUNITY

Goal: >50 million tonnes at 0.3% Cu

Extensive oxide copper potential exists across entire property package

Represents an attractive opportunity for an existing local operator or new entrant to the world-class Zambia-Congo Copperbelt to achieve near-term production

Oxide copper mining could represent significant annual revenue for Midnight Sun





The Opportunity - Takeaway

Our property is large, highly prospective, and located in Zambia, in the heart of the Zambian-Congo copper belt, the second largest Copper Producing region in

We are surrounded by world-class producing copper mines and operators including First Quantum, Barrick, Rio Tinto and Tvanhoe. First Quantum's Kansanshi Mine, Africa's largest copper producer, is located right next door

Our geological environment is conducive to world-class, large, high-grade and scalable copper deposits

Our vast **506 km²** property features multiple opportunities for a transformative discovery, including numerous structural and mineralized targets

We have already made two high-grade discoveries: at Kazhiba (22 Zone) and Mitu, and both have similar geological characteristics and grades to operating mines located just next door

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



ource: British Geological Survey https://www.bgs.ac.uk/news/zambia-the-copper-mining-powerhouse-looking-towards-a-safer-low-carbon-future/

the world

Midnight Sun – Capital Structure

CAPITAL STRUCTURE

Basic Shares Outstanding	118.2 million
Warrants	10.6 million
Options Outstanding	8.95 million
Share Price	\$0.23
Market Capitalization	\$27.2 million
Management & Directors	10%
52 Week Range	\$0.11 - \$0.35





Directors & Management



Al Fabbro PRESIDENT, CEO & DIRECTOR

- Finance and mining executive and entrepreneur
- +40 vears' 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 CEO of Goldshore Resources



Rick Mazur

DIRECTOR

- P.Geo, 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/COO Roxgold. Current President/CEO of EnviroMetal Technologies



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



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

Matt MacKenzie

VP CORPORATE DEVELOPMENT. CORPORATE SECRETARY

- MBA and ID
- +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

Adrian O'Brien

DIRECTOR MARKETING & COMMUNICATIONS

- Executive and Senior Marketing Executive
- +25 years' experience
- Former Director of Marketing and Communications PureGold Mining, former Director & President Kermode Resources, former Vice President Apella Resources, and former Director PDAC









MIDNIGHT SUN MINING

TRANSFORMATIVE COPPER DISCOVERIES

IN THE HEART OF ZAMBIA

CORPORATE INQUIRIES

Adrian O'Brien Director Marketing & Communications 604 809 6890 adrian@midnightsunmining.com CORPORATE ADDRESS

#1205 – 789 West Pender Street Vancouver, BC V6C 1H2 Canada TSX.V: MMA OTCQB: MDNGF www.midnightsunmining.com