TERTIARY MINERALS PLC

Exploring for copper in Zambia and Nevada, USA.



Copper mineralisation in drill core, Jacks Copper Project

Company Presentation 6 November 2023

Background photo: Kevamba Hill, Mushima North Project

Cautionary Statements



The content of information contained in these slides and the accompanying verbal presentation (together, the "Presentation") has not been approved by an authorised person within the meaning of the Financial Services and Markets Act 2000 ("FSMA"). Reliance upon this Presentation for the purpose of engaging in any investment activity may expose an individual to a significant risk of losing all of the property or other assets invested. If any person is in any doubt as to the contents of this Presentation, they should seek independent advice from a person who is authorised for the purposes of FSMA and who specialises in advising in investments of this kind.

This Presentation is being supplied to you solely for your information. This Presentation has been prepared by, and is the sole responsibility of, Tertiary Minerals plc (the "Company"). The directors of the Company have taken all reasonable care to ensure that the facts stated herein are true to the best of their knowledge, information and belief.

This Presentation does not constitute, or form part of, an admission document, listing particulars or a prospectus relating to the Company, nor does it constitute, or form part of, any offer or invitation to sell or issue, or any solicitation of any offer to purchase or subscribe for, any shares in the Company nor shall it or any part of it, or the fact of its distribution, form the basis of, or be relied upon in connection with, or act as any inducement to enter into any contract therefor.

The information in this Presentation is provided as at the date of this presentation and as such is preliminary in nature, has not been fully verified by the Company and is subject to material amendment, updating and change. The Company undertake no obligation to provide the recipient with access to any additional information or to update this Presentation or any additional information or to correct any inaccuracies in any such information which may become apparent. This document sets out certain features of the Company and does not purport to provide a complete description of the Company or the shares in the Company.

No reliance may be placed for any purpose whatsoever on the information contained in this Presentation or on its completeness, accuracy or fairness thereof, nor is any responsibility accepted for any errors, misstatements in, or omission from, this Presentation or any direct or consequential loss however arising from any use of, or reliance on, this Presentation or otherwise in connection with it.

This Presentation may not be reproduced or redistributed, in whole or in part, to any other person, or published, in whole or in part, for any purpose without the prior consent of the Company. The contents of this Presentation are confidential and are subject to updating, completion, revision, further verification and amendment without notice.

The Presentation is directed at authorised persons or exempt persons within the meaning of FSMA or any order made thereunder or to those persons falling within the following articles of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005 (as amended) (the "Financial Promotion Order"): Investment Professionals (as defined in Article 19(5)), members and creditors of certain bodies corporate (as defined in Article 43 (2)) High Net Worth Companies (as defined in Article 49(2)). Persons who do not fall within any of these definitions should not rely on this Presentation nor take any action upon it . This Presentation is exempt from the general restriction in section 21 of FSMA relating to the communication of invitations or inducements to engage in investment activity on the grounds that it is made only to certain categories of persons.

Neither this Presentation nor any copy of it should be distributed, directly or indirectly, by any means (including electronic transmission) to any persons with addresses in the United States of America (or any of its territories or possessions) (together, the "US"), Canada, Japan, Australia, the Republic of South Africa or the Republic of Ireland, or to any corporation, partnership or other entity created or organised under the laws thereof, or in any other country outside the United Kingdom where such distribution may lead to a breach of any legal or regulatory requirement. The recipients should inform themselves about and observe any such requirements or relationship.

The Company's ordinary shares have not been, and are not expected to be, registered under the United States Securities Act 1933, as amended, (the "US Securities Act") or under the securities laws of any other jurisdiction, and are not being offered or sold, directly or indirectly, within or into the US, Canada, Japan, Australia, the Republic of South Africa or the Republic of Ireland or to, or for the account or benefit of, any US persons or any national, citizen or resident of the US, Canada, Japan, Australia, the Republic of South Africa or the Republic of Ireland, unless such offer or sale would qualify for an exemption from registration under the US Securities Act and/or any other applicable securities laws.

Past Performance

This Presentation contains statements regarding the past performance of the Company's ordinary shares. Past performance cannot be relied upon as a guide to future performance.

Forward-looking Statements

This Presentation or documents referred to in it contain forward-looking statements. These statements relate to the future prospects developments and business strategies of the Company and its subsidiaries (the "Group"). Forward-looking statements are identified by the use of such terms as "believe", "could", "envisage", "estimate", "potential", "intend", "may", "plan", "will" or the negative of those, variations or comparable expressions, including references to assumptions. The forward-looking statements contained in this Presentation are based on current expectations and are subject to risks and uncertainties that could cause actual results to differ materially from those expressed or implied by those statements. If one or more of these risks or uncertainties materialises, or if underlying assumptions prove incorrect, the Group's actual results may vary materially from those expected, estimated or projected. Given these risks and uncertainties, potential investors should not place any reliance on forward-looking statements. These forward-looking statements speak only as at the date of this Presentation.

No undertaking, representation, warranty or other assurance, expressed or implied, is made or given by or on behalf of the Company or any of its directors, officers, partners, employees or advisers or any other person as to the accuracy or the completeness of the information or opinions contained herein and to the extent permitted by law no responsibility or liability is accepted by any of them for any such information or opinions. Notwithstanding the aforesaid, nothing in this paragraph shall exclude liability for any representation or warranty made fraudulently.

Tertiary Minerals plc AIM:TYM





Patrick Cheetham, Group Chairman & Chairman of the Nomination Committee

- Geologist and founder of the Company
- 39 years' experience in mineral exploration
- 34 years' experience in public company management
- Founder of Dragon Mining Ltd, Archaean Gold NL and Sunrise Resources plc

Donald McAlister, Non-Executive Director & Chairman of the Audit Committee

- Accountant and founding Director
- Previously: Finance Director at Mwana Africa plc, Ridge Mining plc and Reunion Mining plc.
- 26 years' experience in all financial aspects of the resource industry, including metal hedging, tax planning, economic modelling/evaluation, project finance and IPO's



Dr. Mike Armitage, Non-Executive Director & Chairman of the Remuneration Committee

- 30 years' experience producing resource estimates, competent persons reports and feasibility studies with SRK Consulting
- Previously Managing Director and Chairman of the SRK UK, Director of SRK's Exploration Services, and SRK Group Chairman
- Chair of the Applied Earth Science Division of IMMM, Chair of the Geological Society Business Forum and Honorary Chair of the Critical Minerals Association



Copper – A critical mineral for the Clean Energy Transition



"Copper is essential for a vast array of decarbonizing technologies. When taken together, these technologies have

the potential to account for two-thirds of global greenhouse gas emissions' abatement by 2050."

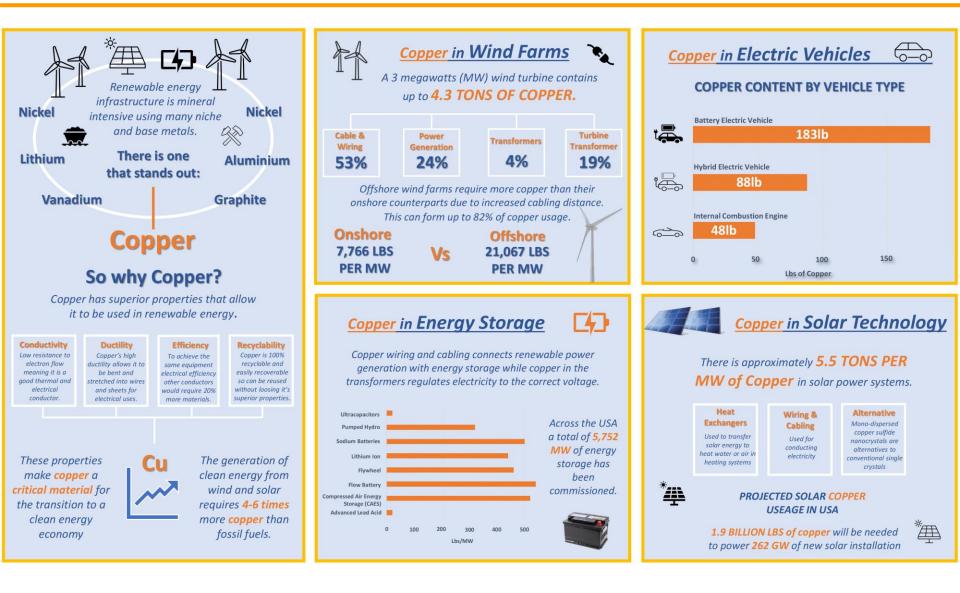
Batteries **Building Automation** Heat Pumps STORAGE Wastewater Heat Recovery Solar Panels SUPPLY ELECTRICITY END-USE Electro-Processing Motor Systems GRD Wind Mills Electric Vehicles Charging Infrastructure Interconnectors,

Subsea Grid, Transformers

The US Department of Energy (DOE) has officially added copper to its critical materials list, marking the first time a US government agency has included copper on one of its official "critical" lists, following the examples of the European Union, Japan, India, Canada and China.

Copper – The No.1 Clean Energy Transition Metal



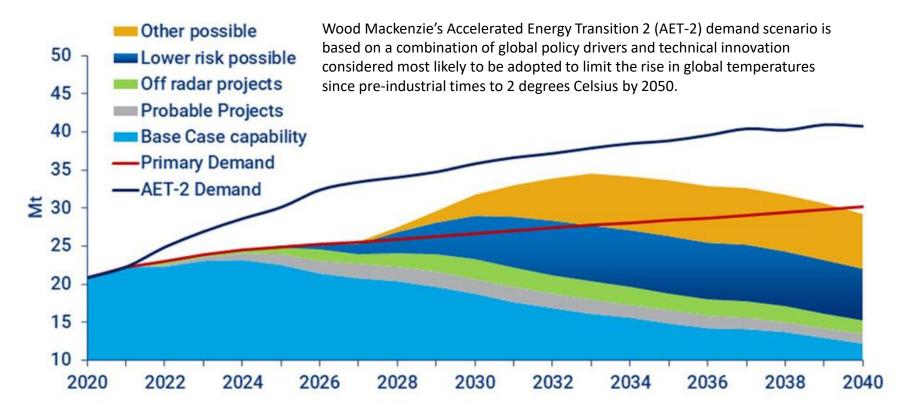


Copper – The Supply Problem



The Copper Problem – insufficient supply to meet projected demand, even with projected new mine developments.

Primary copper demand scenarios versus mine supply potential



Source: Wood Mackenzie

Tertiary Minerals plc AIM:TYM

Why Zambia?

- Host, with DRC, to the Central African Copperbelt the world's largest sediment-hosted stratiform copper province.
- Zambian Copperbelt contains multiple world-class deposits Sentinel, Kansanshi, Lumwana, Konkola, Mufulira, Mopani, Chambishi and others which together produced over 760,000 tonnes of copper in 2022.
- The UPND government is rationalising the mining tax regime to attract investment and has stated goals to boost copper production to 3 million tonnes by 2032.
- Government has re-introduced the deductibility of mineral royalties against corporate income tax and amended royalty rates.
- Tertiary anticipates that the fiscal environment for mining and exploration will continue to improve and re-establish Zambia as a primary destination for investors focused on copper, the key energy transition metal.



Industry is responding to the projected copper supply deficit and Zambia's fiscal initiatives with new investment:

- US\$2.1 billion in the Sentinel copper mine (First Quantum Minerals)
- US\$1.25 billion to expand its Kansanshi copper mine (FQM)
- US\$2 billion to expand the Lumwana copper mine (Barrick Gold Corporation)
- US\$1.3 billion investment in NFC Africa Mining/Chambishi mine (China Non-Ferrous Metals Mining Corp)
- US\$1 billion investment into Konkola copper mine (Vedanta)
- US\$1 billion investment in Mopani (several bidding groups)
- US\$88.5 million investment in JV with arc Minerals (Anglo American)
- US\$150 million investment into Mingomba deposit (KoBold Metals)
- US\$100 million investment in expansion of Mimbula mine (Moxico Resources)

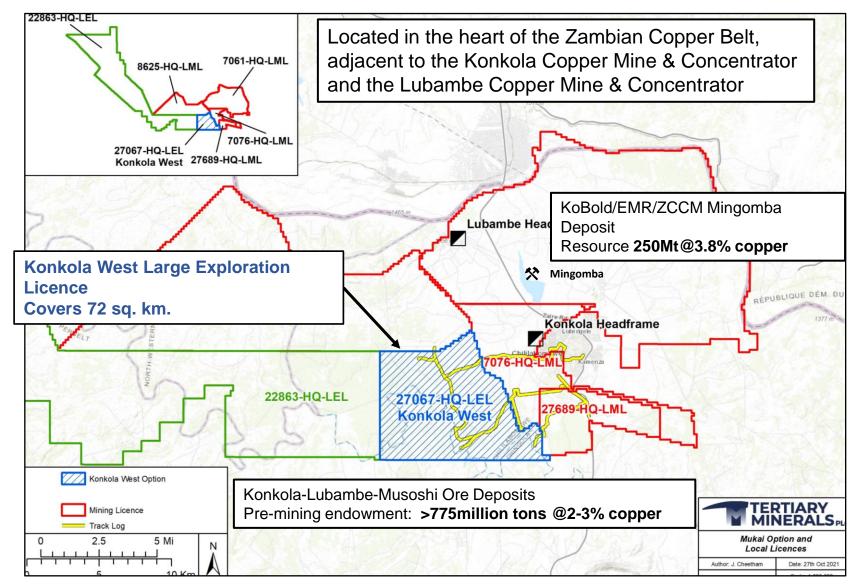
Zambia Licence Interests



Tertiary Minerals (Zambia) Ltd currently has interests in a portfolio of exploration projects covering a total area of 1,240km² in and around the Central African Copperbelt. It has earned the right to 90% Kolwezi Lubumbash interest in Jacks Copper Prospect and is earning up to 90% interest Мар in four other Large-scale Exploration Licences with local partner Extent MALAWI Lilon Mwashia Resources Ltd. A new 100% owed licence, Mupala, was ZAMBIA Lusaka granted in 2023. Harare Lualaba MOZA Mwinilunga 139-HQ-LEL 27066-HQ-LEL 1675 m Kansanshi 1575 m Mupala Mukai Sentinel Lumwana Solwezi Enterprise (Ni) Lubambe 🛠 Konkola Nchanga 27067-HQ-LEL Mufulira **Konkola West** Mutalira Chingola Chambishi Vest Luna KNkana Central Nationa Baluba COPPERBELT NORTH-Luanshya 27068-HQ-LEL Kalengwa **Mushima North** 065-HQ-LEL Lubuila Kabompo Copperbelt Trend Prospective Lithology Copper Mine Tertiary Licence Kapiri Copper-prospective Lower Roan Mposhi Mwashia Licence 100 Km 27069-HQ-LEL 50 stratigraphy highlighted in brown N Jacks 25 50 Mi

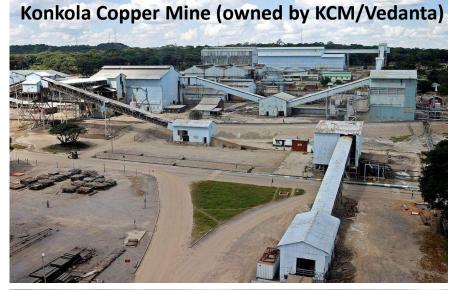
Konkola West - In the Shadow of the Headframe





Konkola West Project

- Targeting deep down dip extensions to the >15km long continuous high grade Musoshi-Konkola copper ore being mined at Musoshi (DRC), Lubambe (EMR Capital/ZCCM) and Konkola - Konkola Deeps (Konkola Copper Mines plc/Vedanta).
- Musoshi-Konkola deposits have pre-mining endowment of >775 million tons of high-grade copper ore.
- Konkola West Project adjoins the west side of the mining lease hosting the Konkola copper mine.
- Vedanta has recently announced US\$1 bullion of investment into redeveloping the Konkola copper mine.
- KoBold Metals is investing \$150 million into development of deep copper resources in the Mingomba deposit (250 million tons @3.8% copper) on a nearby mining lease. (KoBold Metals shareholders include BHP and Breakthrough Energy Ventures, a company founded by Microsoft's Bill Gates).

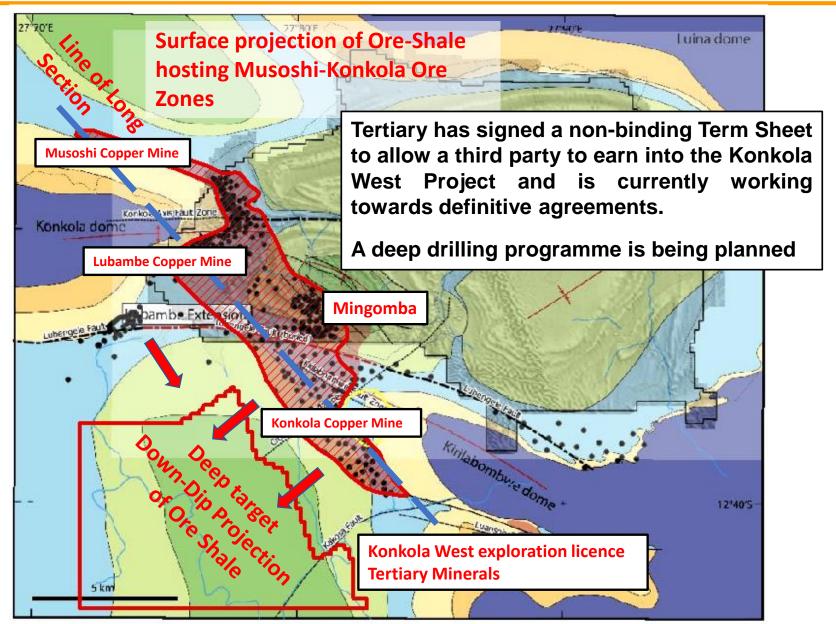






Konkola West - Deep Target

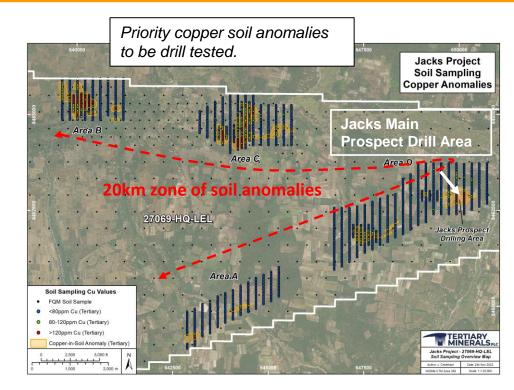




Jacks Copper Project - Overview

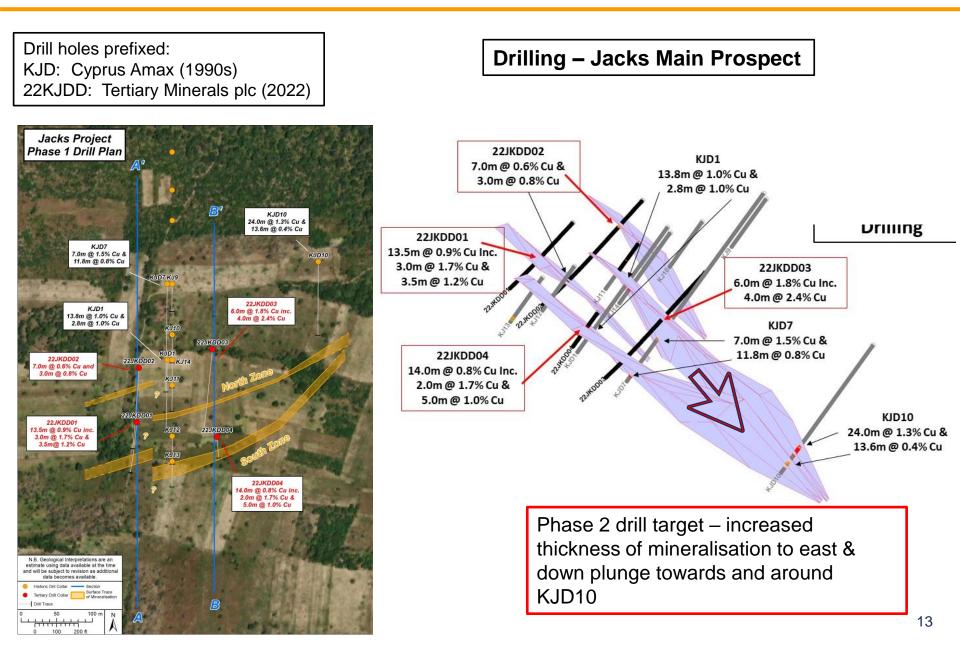


- Successful Phase 1 Drill Programme completed in Spring 2022 at the Jacks Main Prospect. Copper mineralisation now intersected in two horizons over a 350m strike length, both open along strike and at depth.
- Soil sampling has defined multiple copper-in-soil anomalies within a 20km strike length of prospective Lower Roan stratigraphy, host to the major copper deposits across the Central African Copperbelt.
- The soil anomalies compare favourably with soil anomalies present over current and past producing mines on the Copperbelt with similar Cu-Sc ratios indicative of sulphide copper mineralisation.
- Tertiary has earned right to 90% interest in Jacks Copper Prospect and is earning up to 90% interest in four other Large-scale Exploration Licences with local partner Mwashia Resources Ltd.



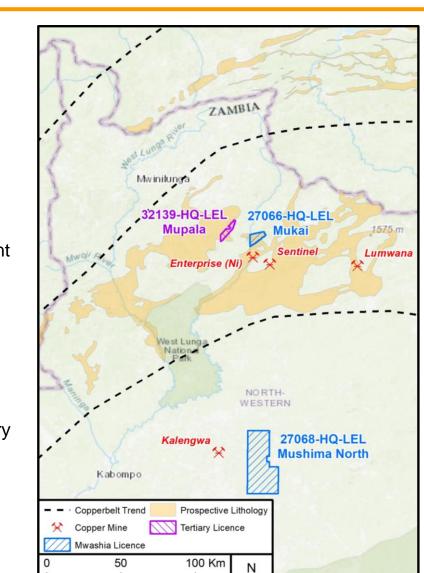


Jacks - Tertiary Phase 1 Drill Programme



FQM signed a *Data Sharing* & *Technical Cooperation Agreement* for Mukai and Mushima North Projects whereby:

- FQM & Tertiary have established a Technical Committee with the objective to work collaboratively with respect to advancing exploration and development of the Projects.
- FQM has provided Tertiary with all of its historical exploration data for the two licence areas and Tertiary will submit its exploration results to the Technical Committee on an ongoing basis.
- The Technical Committee will advise and assist Tertiary in relation to all technical matters relating to the Projects.



50 Mi

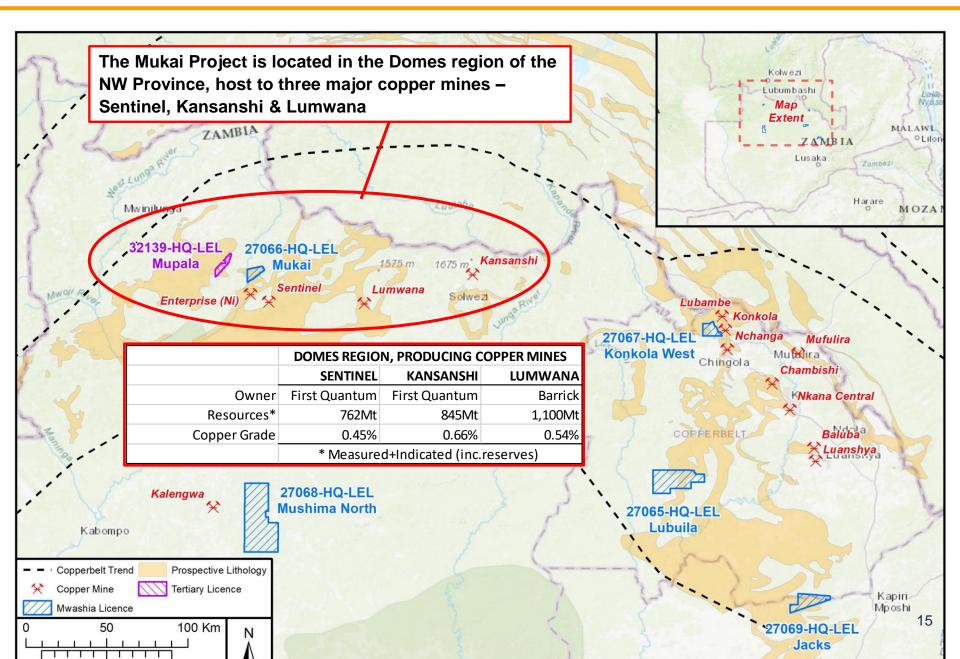
25



Agreement with First Quantum Minerals (FQM)

Mukai Project - Located in Prolific "Domes" Region





Mukai Project - The Right Address

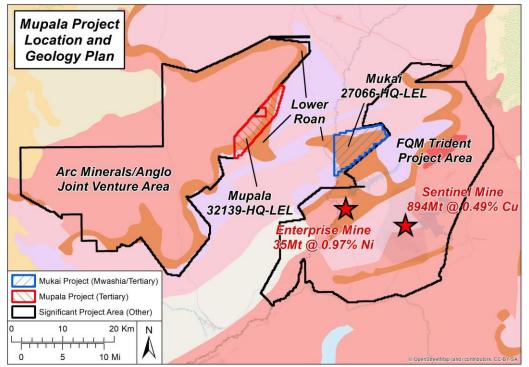
M

Mukai Projects is located centrally between:

- First Quantum Minerals Trident Mining Complex (Sentinel Copper Mine & Enterprise Nickel Mine)
- Arc Minerals Zambia Copper Project where Anglo-American has right to earn 70% for US\$88.5M.

Contain same prospective stratigraphy as that hosting the orebodies at Sentinel and Enterprise.



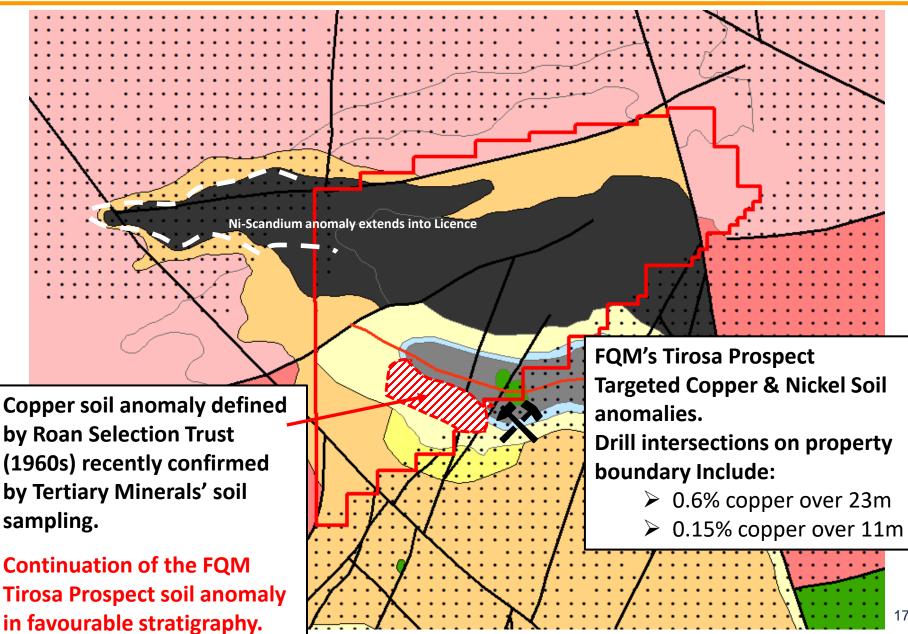


First Quantum Minerals Sentinel Copper Mine & Processing Plant



Tertiary Minerals plc AIM:TYM

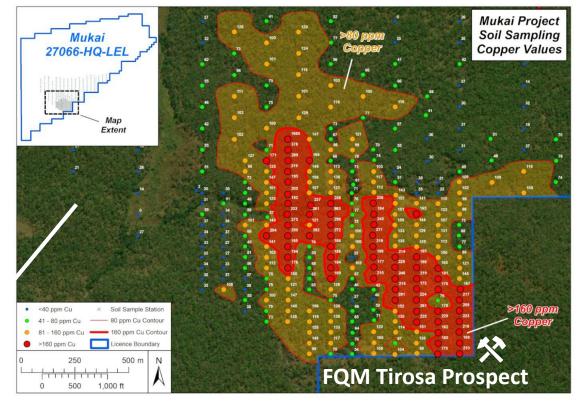
Mukai Project - Priority Drill Target



17

Mukai Project – Soil sampling

- A total of 526 samples were collected on a 300m x 100m grid infilled up to 100m x 50m and analysed in the field using a portable XRF instrument ("pXRF").
- A large high-grade copper-in-soil anomaly is defined with values in excess of a 160ppm copper over an area of approximately 1,300m by 400m with a peak soil value of 1,660ppm copper (0.16%) and soil values averaging 252ppm (average of 63 samples).
- This high-grade anomaly is part of broader copper-in-soil anomaly defined by 162 samples containing greater than 80ppm copper and averaging 173ppm copper over an area of approximately 1,800m by 800m.
- Soil anomalies from past producing mines on the Copperbelt typically have thresholds in the range 50 to 150ppm copper, averaging 80ppm copper and peak values in the range 100-450ppm copper and averaging 210ppm copper.



FQM's Tirosa Prospect

Targeted Copper & Nickel Soil anomalies. Drill intersections on property boundary Include:

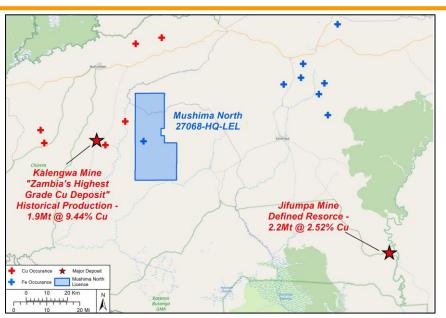
- > 0.6% copper over 23m
- 0.15% copper over 11m



Mushima North - Iron-Oxide-Copper-Gold ("IOCG")



- The Mushima North Project is prospective for Iron-Oxide-Copper-Gold ("IOCG") deposits, exemplified by the giant Olympic Dam project in Australia.
- Part of the data sharing & technical cooperation agreement with FQM.
- Located 10km east of the past producing Kalengwa Mine
 highest grade copper producer in Zambia.
- Historical hole RKN800 drilled Roan Selection Trust ("RST") was re-assayed returning 33m grading 0.24% copper from 122m, including: 9m grading 0.43% copper from 140m, copper mineralisation to the end of hole.
- RKN800 ended in copper mineralisation grading 0.19% at a depth of 155m and lies on the edge of a gravity anomaly defined and targeted by BHP for Iron-Oxide-Copper-Gold mineralisation, which was never drill tested.
- Detailed Interpretation and Targeting Report completed by JAW Consulting, with six high priority targets now defined.





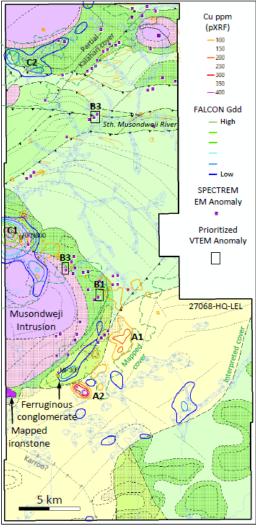
Mushima North Project - Exploration Targets

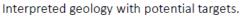


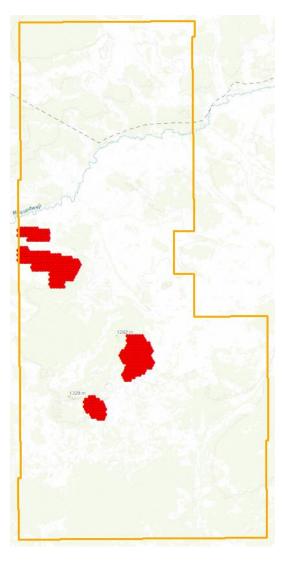
Several key targets identified, in order of priority:

- Target C1 (Multiple data sources) Prominent gravity high associated with soil anomaly and wide low-grade intersection of copper mineralisation recently announced from resampling 1970s drill hole RKN800. This target, and a similar feature in the northwest of the property [C2], are potential IOCG systems previously targeted by BHP Billiton (2012).
- **Target A1** (FQM data) 1.7km long pXRF copper soil anomaly defined on 500m sample spacing. Enhanced by coincident arsenic and zinc anomalies.
- **Target B3** (FQM Data and SPECTREM data) Discrete strong EM conductor in favourable structural setting.
- **Target A2** (FQM data). Small high magnitude copper anomaly [**A2**].
- **Targets B1 and B2** (FQM data) Electromagnetic targets coincident with intrusive rocks or their margins.

Soil sampling completed with an initial focus on Targets C1, A1, A2 $\,$







Mushima North Project – 2023 Soil Sampling

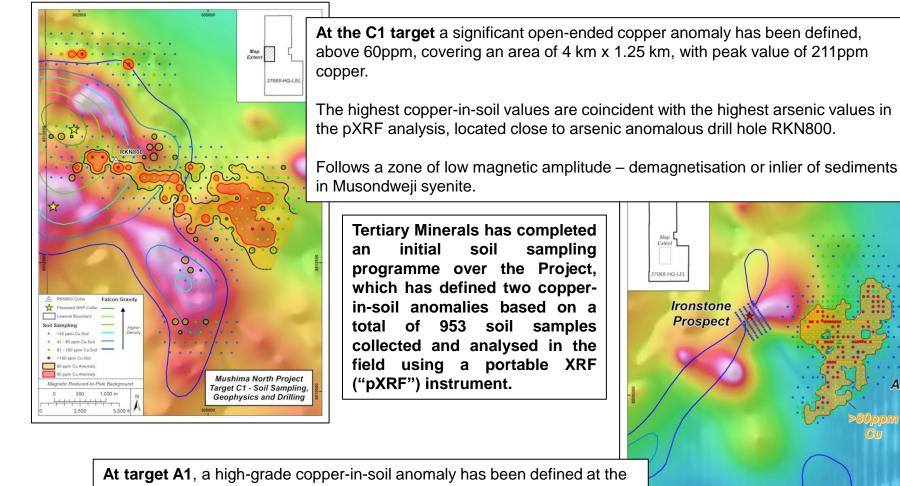


nom Cu Anomah

Magnetic Reduced-to-Pole Background

2.000 m

5.000 f

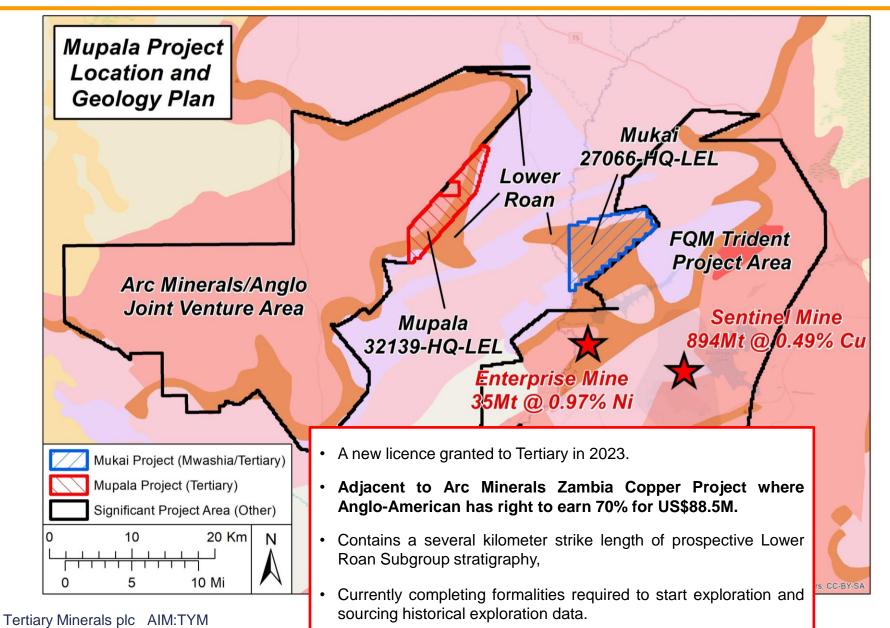


At target A1, a high-grade copper-in-soil anomaly has been defined at the A1 target covering an area of approximately 3,000m by 1,500m based on a threshold 80ppm. Max 280ppm copper.

A soil anomaly at A2 is likely hydromorphic in origin as associated with a Dambo.

Mupala Project





Μ

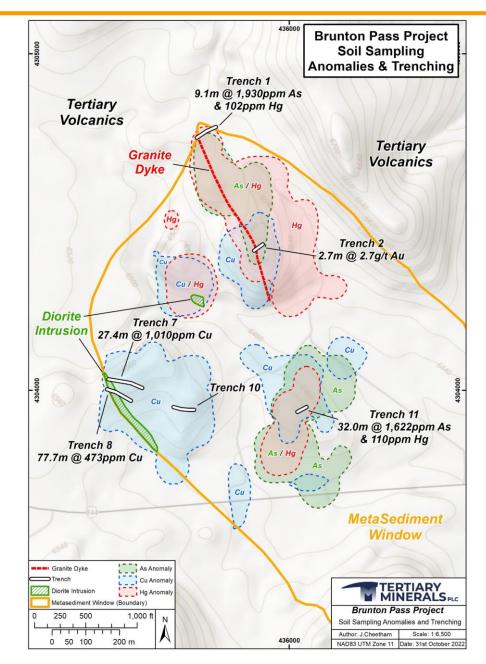
- Ranked 1st in the world as a mining jurisdiction by the Frazer Institute.
- 4th highest global gold producer.
- 2nd in the US for silver production.
- Significant copper and industrial mineral production.
- Majority of land is Federally owned and open to claim staking.
- Well defined and largely transparent mine permitting process.
- Major mining companies well established inc. Newmont, Barrick, Anglo-Gold, RioTinto, Kinross & Hecla.
- Tertiary holds several exploration projects in Nevada for copper and precious metals.
- Priority drill targets generated at the Brunton Pass Copper Project.



Brunton Pass Copper Project

- Located in Walker Lane Mineral Belt which hosts several world class epithermal gold-silver (Tonopah, Comstock), copper-gold porphyry (Yerington), and iron-oxide-copper-gold (Pumpkin Hollow) deposits.
- Copper mineralisation spread over a 1km x 0.6km target area.
- Soil sampling defined multiple copper, arsenic and mercury soil anomalies.
- Follow up trenching g has defined large areas of skarn containing low grade copper and alteration styles similar to KHGM's producing Robinson Mine - possible halo to a copper skarn deposit and porphyry copper target:
 - > Trench 7 intersected 45.7m grading 814ppm copper
 - Trench 8 intersected 77.7m grading 473ppm copper.
 - Trenching across >1km zone of coincident arsenic and mercury anomalies revealed similar epithermal argillic alteration assemblages (smectite+quartz+/-opal) and geochemical indicators as Paradise Peak Mine (>1.6 million ounces gold past production):
 - Trench 1 intersected a 9.1m section containing 1,930ppm As and 102ppm Hg.
 - > Trench 2 intersected 2.7m grading 2.65 g/t gold.
 - Trench 11 intersected 32m grading 1622ppm As and 110ppm Hg (approx. 1,000x background).

Tertiary Minerals plc AIM:TYM







Zambia

- JV agreement anticipated for Konkola West.
 Deep drill testing of ore shale planned.
- Drilling programmes planned to test key targets generated in 2023 at multiple projects.
- Continue cooperation with FQM to advance exploration planning and data sharing in Zambia.

Nevada

Brunton Pass (Nevada, copper) – drill testing of epithermal and skarn copper targets.

Share StructureListingAIM:TYMShares in issue2,106,085,049Warrants (0.12p-1.5p)288,789,285Market Cap (undiluted)£2.6 millionShare Price – 52 week
Range0.09-0.27p

Directors' Shareholdings	Shares	%
Patrick L Cheetham*	21,465,000	1.02
Donald McAlister	2,937,609	0.14
Dr Mike Armitage	8,823,529	0.42

* includes 2,843,625 held by K E Cheetham

(Information current as at 3 November 2023)

Peer Group - TYM : Clearly Undervalued



Compared to other Exploration Companies operating in the Zambian, or Botswanan, Copperbelts (see below):

- Other reconnaissance-stage exploration companies trade at an average premium of 93% to Tertiary.
- exploration companies with active drill programmes have average market values 473% larger than Tertiary.
- other exploration companies that have joint ventures with majors trade at average valuations 645% larger than Tertiary.

London Broker SP ANGEL recently initiated coverage of Tertiary Minerals in May 2023 with a BUY recommendation to reflect the company's discount to market peers and highly prospective licence packages in premium jurisdictions.

"Tertiary Minerals holds an enterprise valuation of c.\$4m, whilst the median enterprise value sits at \$18m and the mean at \$26m for companies at a similar stage"

ertiary Minerals* – H	0	Elephant Country	May 2023
SPANGEL		Mining Initiation Note	
Non-Independent Research		Tertiary Minerals*	
*SP Angel acts as Nomad & Broker		TYM LN	BUY
MiFID II Exempt			
16 May 2023		Hunting for Copper in Elephan	it
Stock Data Ticker (AIM)	TYM LN	Country	
Share Price Market Cap	0.14p £2.8m	Tertiary Minerals is an AIM-quoted, copper-focused exploration co a portfolio of early-stage exploration licenses spanning the highly Zambian Copperbelt and Nevada.	
0.4		The Company has rapidly expanded its licence package in Zambi	a alongside

Company	Market	Locations	Development stage of Copperbelt Projects	Market Cap (£)	Partners
Tertiary Minerals	AIM	Zambia/Nevada	Reconnaissance-stage	2.6	Data/Technical Agreement with FQM
Castillo Copper	ASX	Zambia and Others	Reconnaissance-stage	3.9	
African Pioneer	LSE	Namibia, Botswana, and Zambia	Drilling	4.6	Joint Venture with FQM
Deep-South Resources	TSX-V	Zambia and Namibia	Reconnaissance-stage	5.0	· · · · · · · · · · · · · · · · · · ·
Cobre	ASX	Botswana and Others	Drilling	5.8	
Kavango Resources	LSE	Botswana and Others	Reconnaissance-stage	6.1	
BeMetals Corp.	TSX-V	Zambia and Japan	Drilling	9.8	Joint Venture with JOGMEC
Galileo Resources	AIM	Zambia	Drilling	10.3	
Midnight Sun Mining	TSX-V	Zambia	Drilling	15.1	
ARC Minerals	AIM	Zambia and Botswana	Drilling	43.8	Joint Venture with Anglo