



# An Exciting African Copperbelt Play

JUNE 2019

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# Arc Minerals - Overview

- An exciting copper-cobalt and gold play
- Multiple Tier-one Cu assets (Zamsort/Zaco)
- Comprehensive airborne geophysical programme and soil sampling programme completed;
- Pilot plant refurbished and commenced initial production
- Experienced Board and management team with a proven track record of successful development of mineral projects on the African continent



**arc minerals**

**AIM-listed** exploration and development company

**High quality** copper & cobalt projects in Africa

**New management team**, Highly Experienced Board with track record of successful mineral developments

# Corporate Overview



- Quality portfolio of assets
- Proven management team of mine builders with significant operating experience in Africa
- Supportive shareholder base and good liquidity, average daily volume of 3.5m shares during Q1, 2019

## Share Price and liquidity since November 2017



JUNE 2019 — AIM Closing Price (pence) — Volume

## Capital Structure (AIM: ARCM)

As at 4 June 2019	In GBP
Share Price	2.64p
Shares in issue	705.9
<b>Market Capitalisation</b>	<b>18.3m</b>
Cash (01 Oct 2018)	1.6
Debt (01 Oct 2018)	-
<b>Enterprise Value</b>	<b>20.0m</b>

## Key Shareholders

Mumena Mushingwe Founder and Director of Zamsort	8.39%
Nick von Schirnding* Chairman	5.00%

\* Includes shares and share options

# Board of Directors & Management



**Highly experienced Board with extensive experience in exploration, development and mining**

**Nick von Schirnding**  
*Executive Chairman*  
5% Interests

Nick von Schirnding has over 25 years' experience in the mining sector across a number of geographies. Nick was CEO of Asia Resource Minerals plc, a FTSE listed mining company. Prior to this Nick was a senior executive with Anglo American plc and De Beers. Nick is also chairman of Fodere, a private minerals processing business with a plant at Highveld steel and a non-executive director of AIM listed Jangada Mines

**Don Bailey**  
*Non-Executive Director*

Don Bailey was a founder, CEO and Chairman of LionOre Mining which developed from a startup into a mid-tier mining company and was acquired by Norilsk Nickel in June 2007. Earlier in his careers Don was head of mining operations for Rio Tinto in Africa, South America and Europe and was responsible for the development of numerous major international projects including the Escondida mine in Chile, the Moro d'Oro mine in Brazil and the Neves Corvo mine in Portugal.

**Mumena Mushingi**  
*Non-Executive Director*  
8.39% Interest

Mr Mumena Mushingi is a Zambian based entrepreneur with a long-standing history in the mining and minerals industry. Mr Mushingi founded Zamsort Limited in 2005 and has been instrumental in developing the Kalaba prospect.

**Remy Welschinger**  
*Non-Executive Director*

Remy is the founder and managing director of Limehouse Capital, an investment holding company specialising in natural resources projects. Up until 2018, he was head of commodities sales in Europe for Deutsche Bank.

**Brian McMaster**  
*Non-Executive Director*

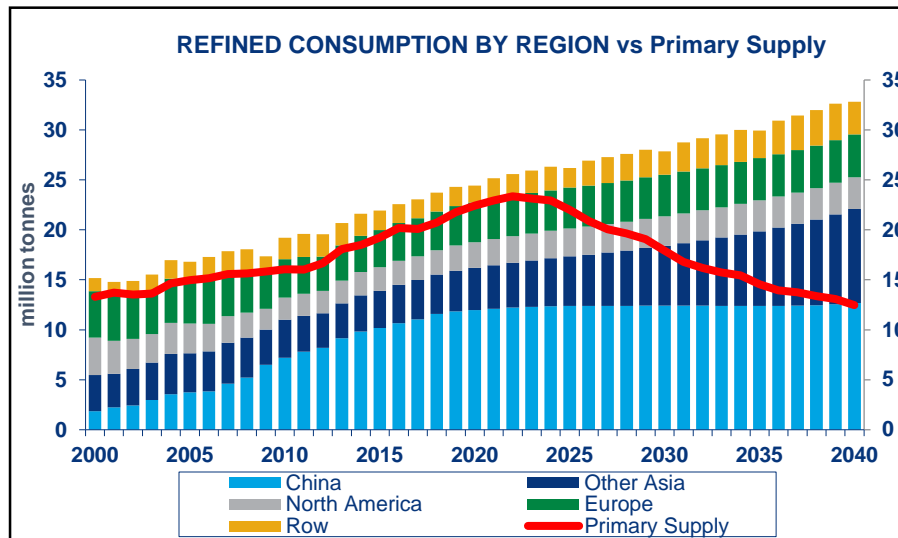
Brian McMaster has almost 20 years' experience in the area of corporate reconstruction, turnaround, performance improvement and 20 years in the mining and exploration industry. His recent experience includes founding Harvest Minerals and Jangada Mines, AIM listed companies.

**Jonathan De Thierry**  
*Non-Executive Director*

Jonathan de Thierry has 25 years' experience in mining and investment banking in Africa & Europe. He is a founder of Casa Mining and has raised significant capital for exploration and development of major DRC mineral projects.

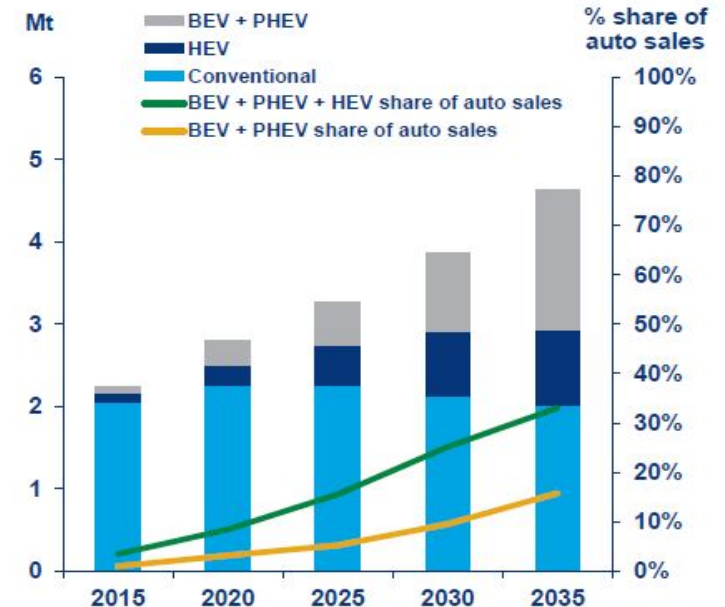
# Why Copper? Solid Fundamentals

## Solid Fundamentals



- Multiple industrial uses – low substitution
- World population and power consumption increasing
- All power generation and transmission requires copper
- Renewable energy requires much greater copper intensity

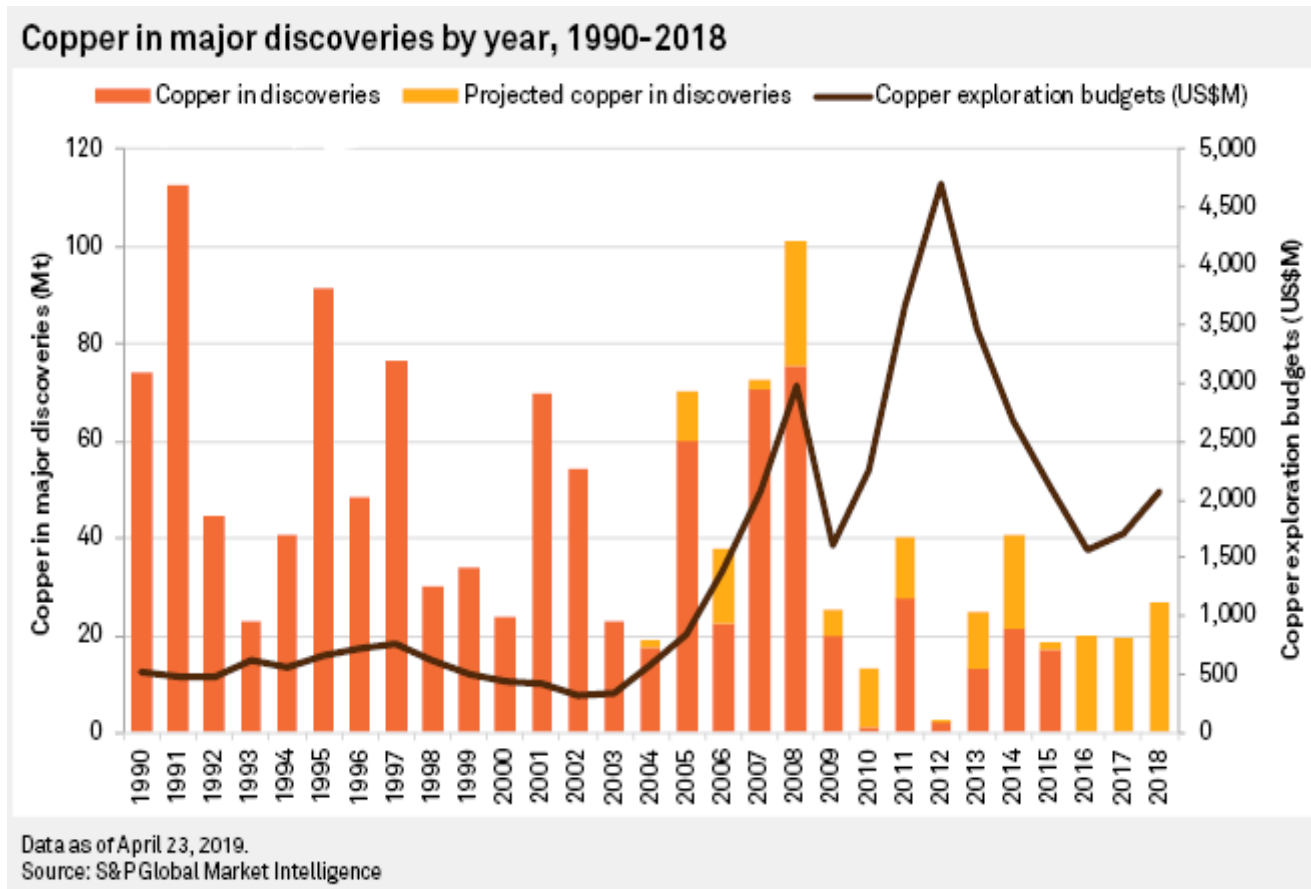
## Demand for EVs Will Impact the Copper Market



- Copper consumption from EVs\* will increase from 286kt in 2018 to 2,611ky by 2035
- Copper consumption from EV's is to surpass that from conventional vehicles by 2033

\*Source: Wood Mackenzie

# Copper discovery rates remain at a 10-year lows



- The fall in the copper price have resulted significant decline in exploration budgets
- Major discoveries are generally made by junior mining companies who are then acquired by the majors

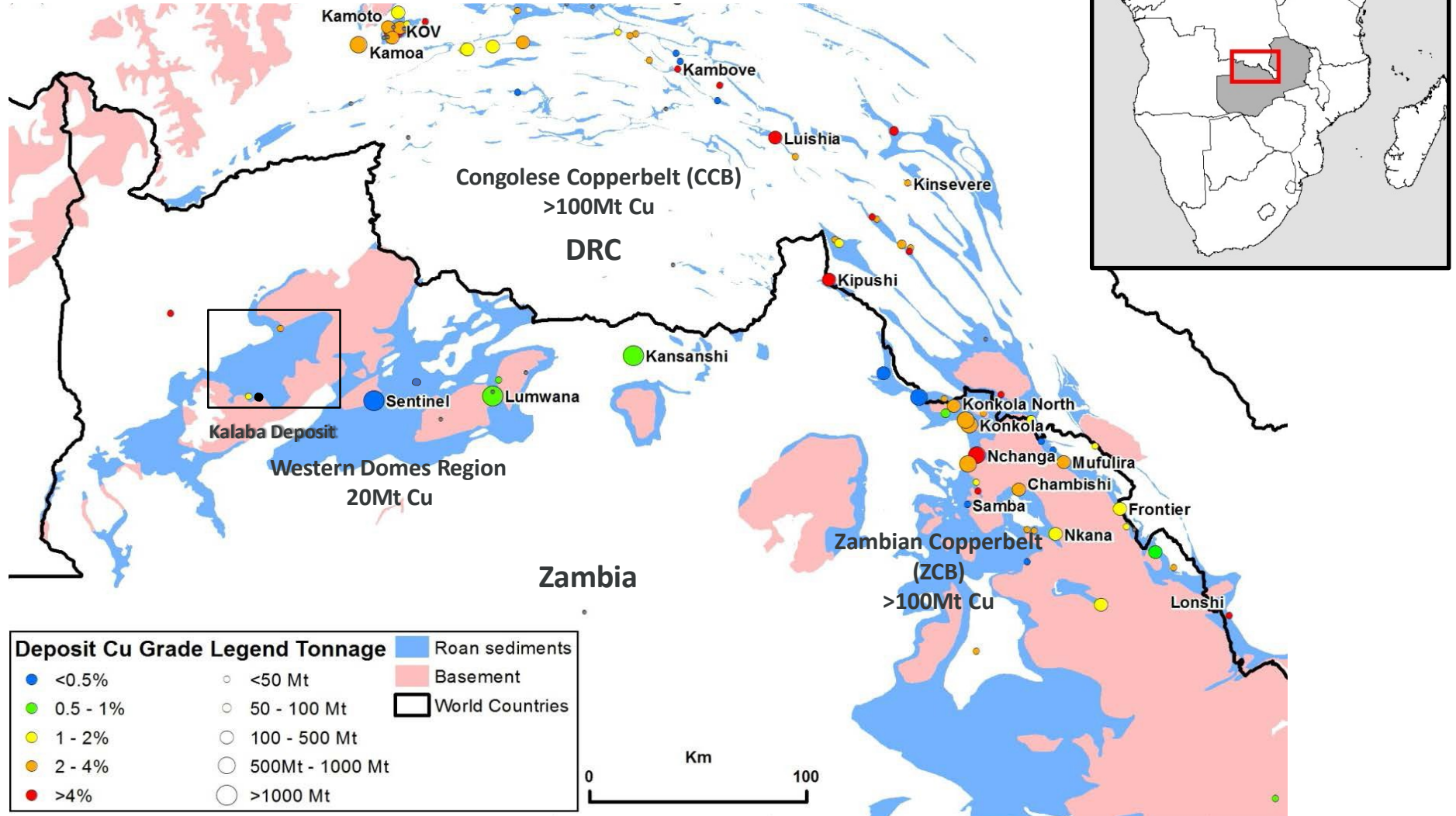
# Zamsort – A Highly Prospective Copper Cobalt Project



- 66% interest in Zamsort
- Zamsort is a privately-owned company developing the Kalaba copper-cobalt project in north west Zambia
- License area covers c.850km<sup>2</sup> and is located in a highly prospective region of Zambia (in close proximity to First Quantum's Sentinel and Kansanshi and Barrick's Lumwana mines)
- Zamsort has historically been explored by Anglo American and hosts 9 of Anglo American-Equinox Minerals Limited JV top 30 Zambian copper exploration targets for the area
- First phase of drilling completed
- Zamsort completed an airborne geophysical over the entire license area as well as completed a comprehensive soil sampling programme which demonstrated the significant prospectivity



# Regional Geology



**Western Domes Region – potential for large discoveries in proximity to basement blocks**

# A Prolific Mineral District

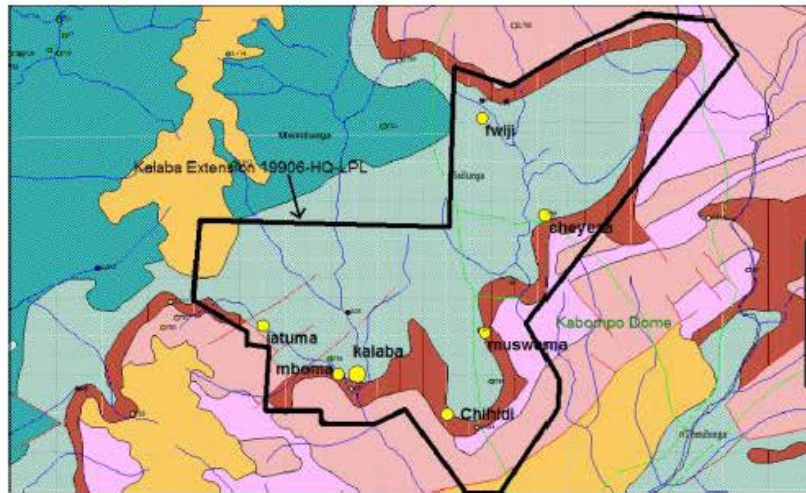


- During the last 15 years, three new major mines have been constructed to exploit mineral Resources in the western part of the Zambian Copper Belt
- This region now accounts for more than 80% of Zambia’s copper production

Major Mines in the Domes Region – Comparable Geology			
	Sentinel (2014)	Lumwana (2009)	Kansanshi (2005)
Owner	First Quantum Minerals	Barrick Gold	First Quantum Minerals
Resource	939Mt @ 0.49% Cu	208Mt @ 0.59% Cu	757Mt @ 0.65%Cu
Reserve	165Mt @ 0.64% Cu	758Mt @ 0.51%Cu	576Mt @ 0.66% Cu
Production (2017)	190,683 tonnes Cu	116,152 tonnes Cu	250,801 tonnes Cu and 140Koz Au
Distance from Kalaba	40km	100km	200km

Source: Wood Mackenzie and Company Websites

# Anglo-Equinox Target Ranking List



Rank No:	Name:	Rank No:	Name:
1	Kalaba	16	Chihindi
2	Mboma	17	Kawumbu 1
3	Fwiji	18	kawumbu 2
4	Cheyeza	19	Mpoya
5	Ngambu	20	Chiwahi
6	Kalaba ext	21	Kambompo East 1
7	Muswema	22	Kalumbila NE
8	North 1	23	Kawumbu 3
9	Jatuma	24	kabompo Central
10	Chialamawombo	25	Kabompo E
11	Nyambwezu	26	Kabompo North
12	Nyambwezu	27	Ntoka
13	Chilalmaombo	28	Kabompo South
14	Kawanga	29	Spotted dog
15	Katondo	30	Kabompo South

- The target rankings were compiled by Anglo American Corporation
- Out of the 30 targets, 9 targets as highlighted in red fall within Zamsort's tenements; #22 was Kalumbila (First Quantum)
- In 1995, Kalumbila was estimated to have 6Mt of ore, however 1,200Mt ore at 0.5% Cu was confirmed after drilling and it is now the biggest mine on the African Continent by measured resources
- The Zamsort Ltd LPL was conservatively estimated in 1995 to hold 150Mt, therefore, this makes the LPL a very attractive prospect given the comparison with Kalumbila
- Kalumbila was sold in 2009 for a cash consideration of US\$260 million to First Quantum Minerals – only US\$20 million was invested in exploration drilling to confirm historic drill results

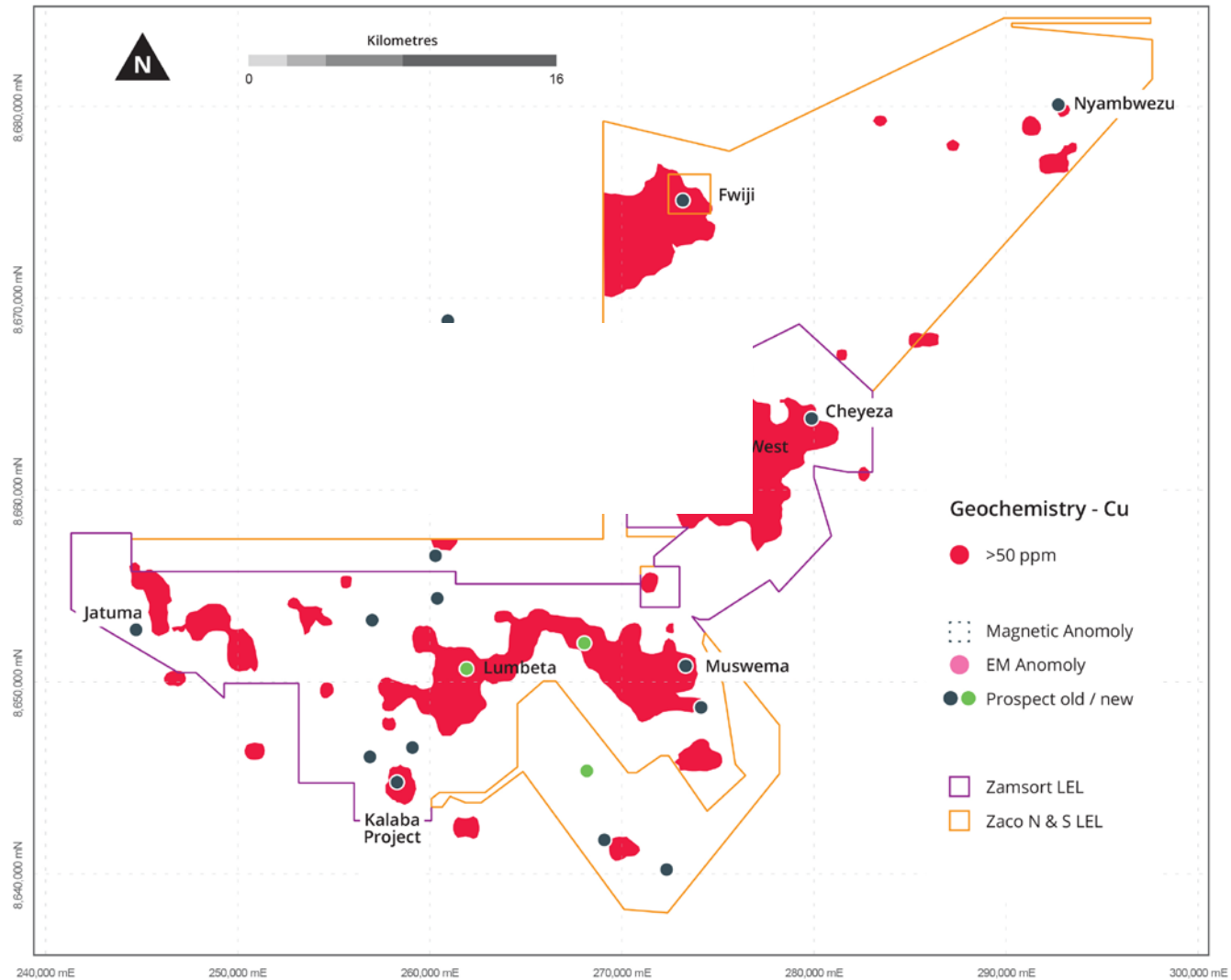
# Significant New Anomalies Discovered



- Airborne geophysical survey identifies 2 new large target areas: Cheyeza and Lumbeta
- Broader Cheyeza target 10km by 8km
- Priority is Cheyeza West target 3km by 3km
- Historic drilling has shown 0.6% Cu at Cheyeza East.
- Lumbeta anomaly stretches 11km
- New targets in central part of the license, not explored previously
- Target areas being reranked based on new information

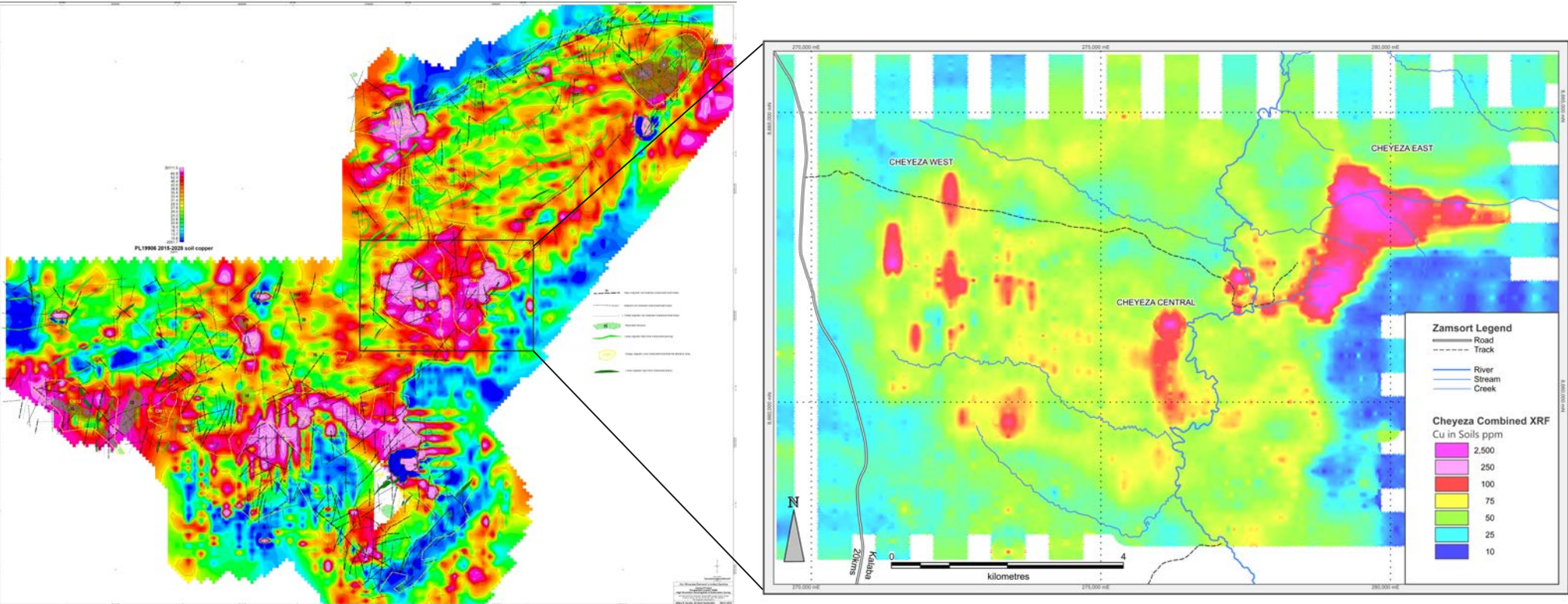
Rank	Target	Rank	Target
1	Cheyeza West	7	Cheyeza
2&3	Lumbeta	8	Musewena-Katondo
4	Jatuma	9	Fwiji
5	Southern Fold Zone	10	Kawunba 1&2
6	Nyambwezu	11	Chididi

# Aeromagnetic and Soil Sampling Data



# Cheyeza Targets

## *Infill soil XRF results*



*Regional copper in Soils XRF results and geophysical interpretation*

# Investment Highlights



- ☑ Exciting large copper-cobalt play
- ☑ 2 new significant target areas identified – 12 targets in total
- ☑ Demonstration plant refurbished and initial production from stockpile commenced
- ☑ Proven management team with significant "skin in the game"



For additional information  
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