



## An Exciting Copper Play



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# Arc Minerals Overview

- An exciting new copper play
- Multiple tier-one copper assets (Zamsort/Zaco)
- Comprehensive airborne geophysical programme and soil sampling programme completed
- 13 large and well-defined targets identified
- Diamond drilling programme underway
- Initial results include: 18m at 2.35% Cu including 7.6m grading 4.15% and 28.5m at 1.32% Cu including 13m grading at 2.32% Cu
- Non-core assets hold c. 3 million gold ounces with 8 additional Au targets along a 55km corridor
- Experienced Board and management team with a proven track record of successful development of mineral projects

## **UK-listed**

Exploration and Development Company

## **High quality**

Copper & Gold Projects

## **Management Team**

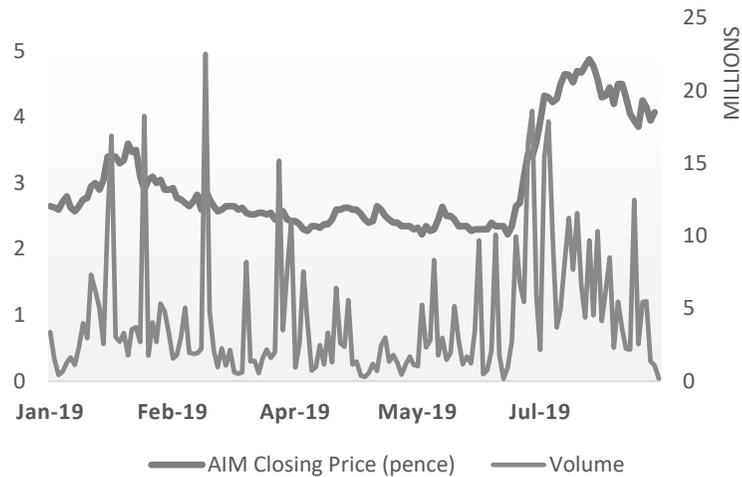
Highly Experienced Board with track record of successful mineral developments

# Corporate Overview



- Quality portfolio of assets
- Proven management team with significant operating experience in Africa
- Supportive shareholder base and good liquidity, average daily volume of 3.0m shares during Q2, 2019

## Share Price and liquidity since January 2019



## Capital Structure (AIM: ARCM)

As at 1 September 2019	In GBP
Share Price	3.50p
Shares in issue	716.6
<b>Market Capitalisation</b>	<b>25.0m</b>

## Key Shareholders

<b>Mumena Mushinge</b> Founder and Director of Zamsort	8.39%
<b>Karl-Erik von Bahr</b>	5.03%
<b>Nick von Schirnding*</b> Chairman	5.00%

\* Includes shares and share options

# Highly Experienced Board



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## **Nick von Schirnding** *Executive Chairman / 5% Interest*

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

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## **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.

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## **Mumena Mushingwe** *Non-Executive Director / 8.39% Interest*

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

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## **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.

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## **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

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## **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.

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# Zamsort – Zaco

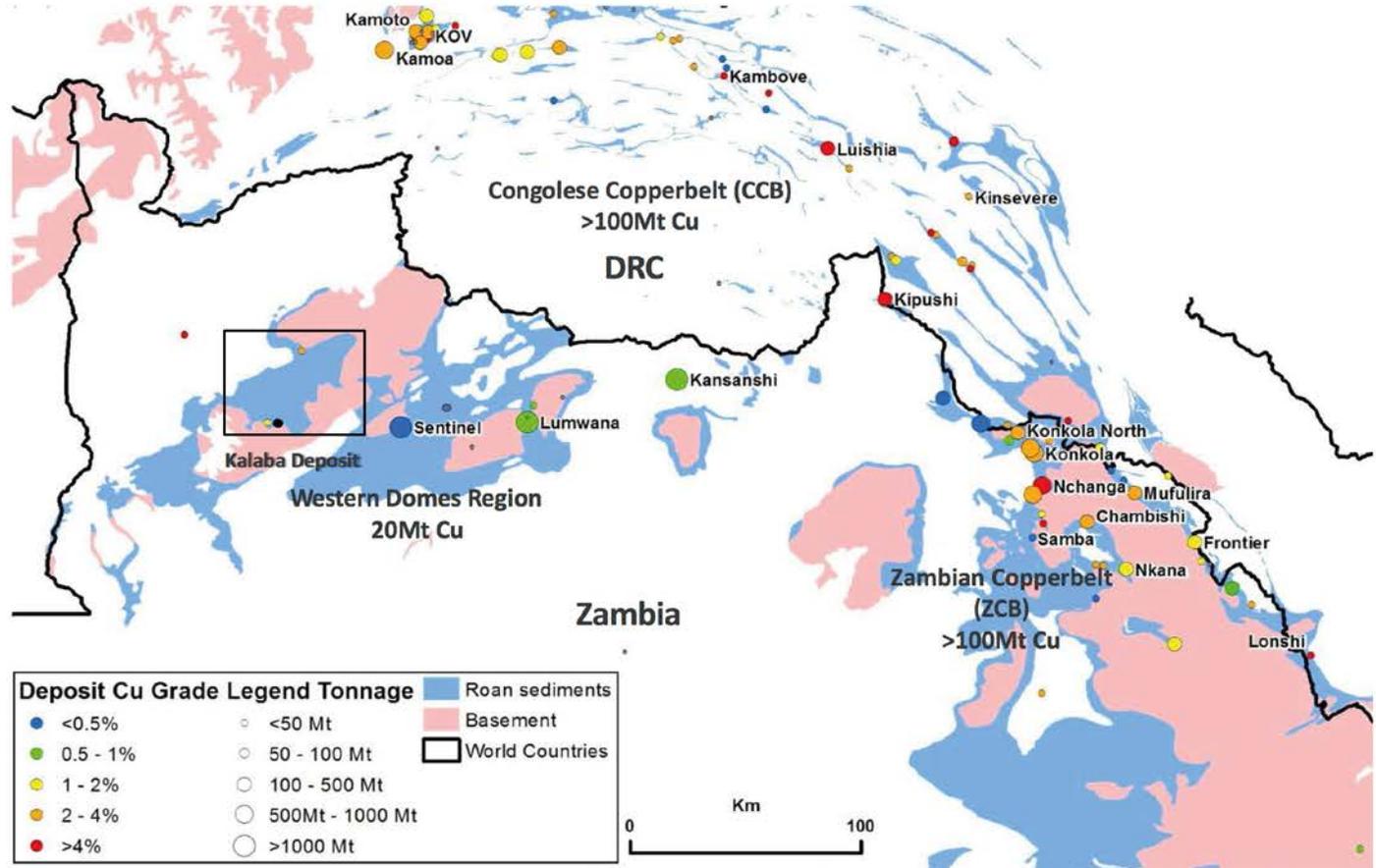
## *A Highly Prospective Copper Project*



- Largest controlling shareholder in Zamsort (66%); largest controlling shareholder in Zaco (47.5%)
- The Zamsort and Zaco license area covers c.872km<sup>2</sup> (Zamsort 407km<sup>2</sup> and Zaco 465km<sup>2</sup>) located in a highly prospective region of Zambia (in close proximity to First Quantum's Sentinel and Kansanshi and Barrick's Lumwana mines)
- Further licenses are under application
- 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
- Zamsort completed an airborne geophysical over the entire license area as well as conducted a comprehensive soil sampling programme over the entire licence area and a detailed infill soil programme over selected targets which have demonstrated the significant prospectivity
- 13 large and well-defined targets identified



# Prolific Mineral Region



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

# Operating in the right postcode



- 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)
<b>Owner</b>	First Quantum Minerals	Barrick Gold	First Quantum Minerals
<b>Resource</b>	1,011Mt @ 0.51% Cu	678Mt @ 0.49% Cu	1,375Mt @ 0.64%Cu
<b>Reserve</b>	811Mt @ 0.56% Cu	374Mt @ 0.55%Cu	541Mt @ 0.62% Cu
<b>Production (2018)</b>	223,656 tonnes Cu	101,605 tonnes Cu	251,255 tonnes Cu and 130Koz Au
<b>Distance from license</b>	40km	100km	200km

Source: Wood Mackenzie and Company Websites

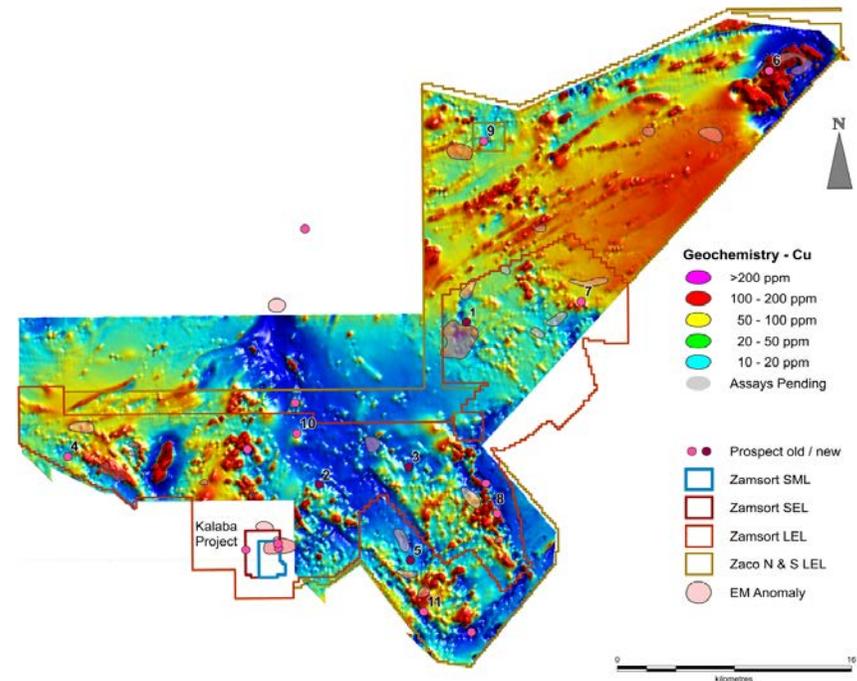
# New Anomalies Discovered



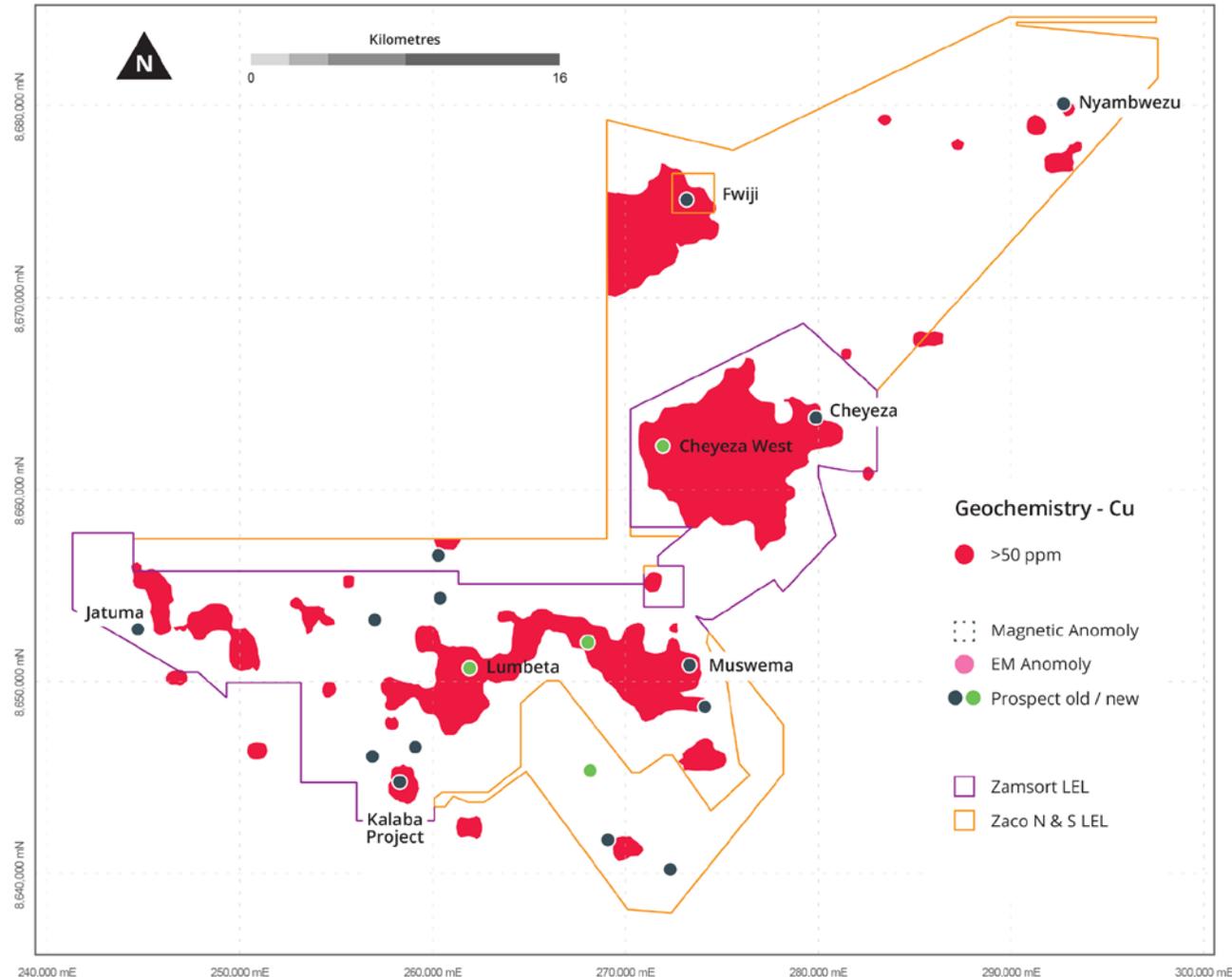
- Infill soil sampling programme completed
- 13 well-defined targets identified
- Analysis of soils currently underway
- Drilling commenced at Cheyeza East
- Initial drill plan of 7,200m extended to 10,000m as a result of drilling success

Rank	Target
1	Cheyeza East
2	West Lunga
3	Muswema
4	Lumbeta
5	Cheyeza West
6	Jatuma

Rank	Target
7	Southern Fold Zone
8	Nyambwezu
9	Musewena-Katondo
10	Fwiji
11 & 12	Kawunba 1&2
13	Chididi

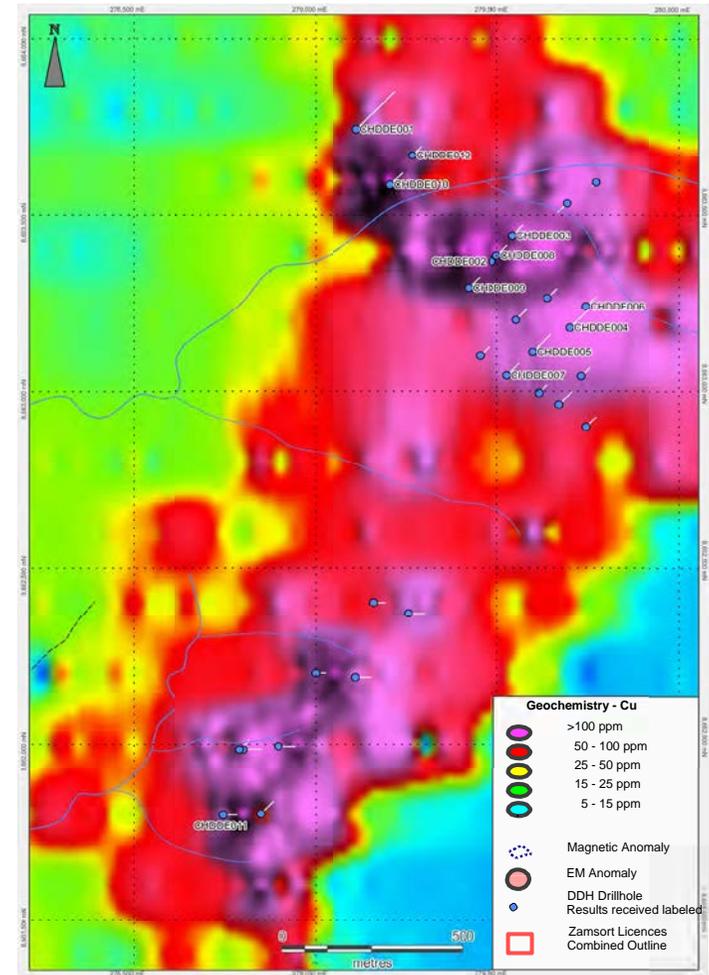


# Aeromagnetic and Soil Sampling Data



# Drilling targets 2019/20

- Arc has commenced a 7,200m drilling programme which has been increased to 10,000m due to exploration success
- Target areas are:
  - Cheyeza (2,400m) expanded to 4,000m
  - Fwiji (2,000m)
  - Muswema (2,000m)
  - Lumbeta (2,000m)
  - Jatuma (2,000)
  - Further new target:
  - West Lunga (2,000m)



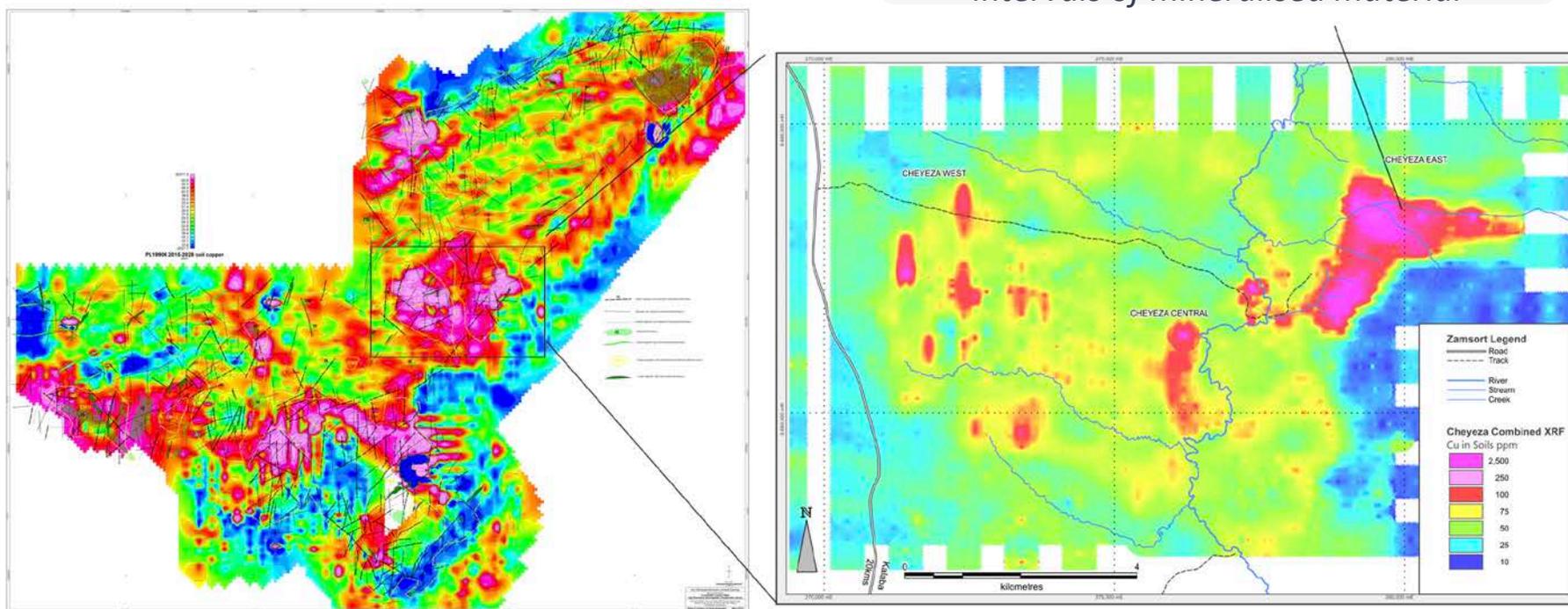
# Cheyeza Targets

## *Infill soil XRF results*



*Regional copper in Soils XRF results and geophysical interpretation*

*Initial drill results at Cheyeza East intersected 1% Cu over 25m with wide intervals of mineralised material*



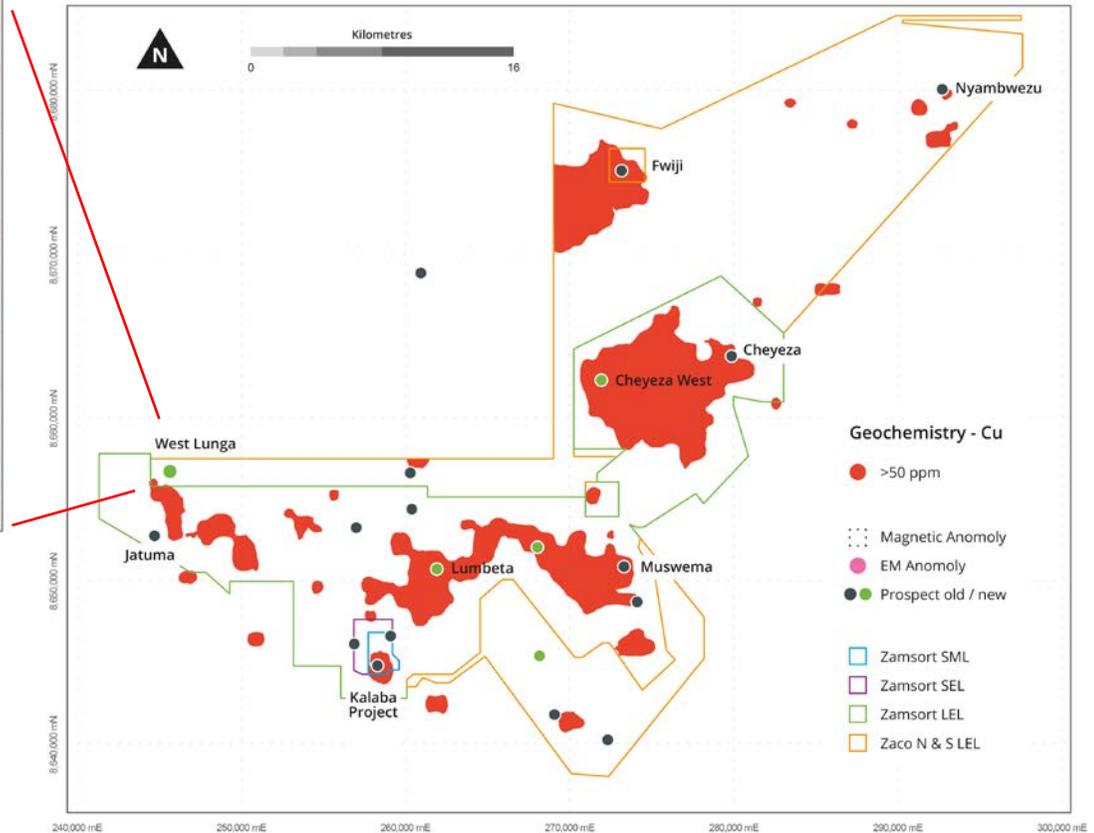
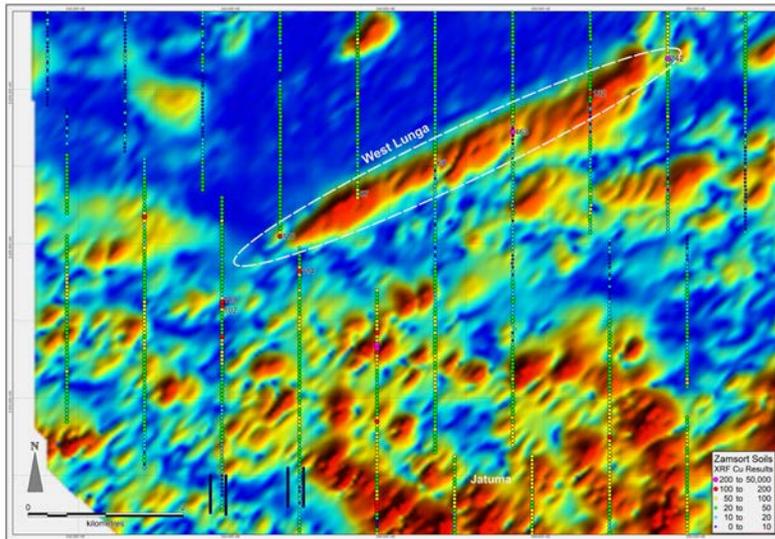
# Cheyeza East

- Drilling to date has intersected pervasive copper mineralisation with grades up to 13.34% Cu
- Exploration programme has already defined a strike length to over 650m long and 300m wide open at depth
- Looking at targeting sulphide areas at depth
- Recent drill results include:

Hole ID	From (m)	To (m)	Drill Width (m)	Cu (%)
CHDDE001	35.80	39.74	3.94	0.72
CHDDE002	2.00	27.80	25.80	1.05
Incl.	18.50	23.70	5.20	1.46
	27.24	27.80	0.56	13.34*
and	43.50	52.00	8.50	0.41
CHDDE004	30.60	48.60	18.00	2.35
incl.	39.00	46.60	7.60	4.15
and	53.60	80.00	26.40	0.32
CHDDE005	17.6	67	49.4	0.67
incl.	26.2	42	15.8	1.49
or	27.4	39	11.6	1.76



# West Lunga Target



*In July, African Minerals Consultants and Douglas Hayes who were both part of the Kamoia Discovery team, discovered the West Lunga target on the licence after a comprehensive review all data to date*

# Investment Highlights



**Exciting large  
copper and gold  
play**

**2 new  
significant  
target areas  
identified – 13  
targets in total**

**Drilling  
commenced and  
initial results  
indicate  
significant  
mineralised area  
at Cheyeza East**

**Proven  
management  
team with  
significant "skin  
in the game"**

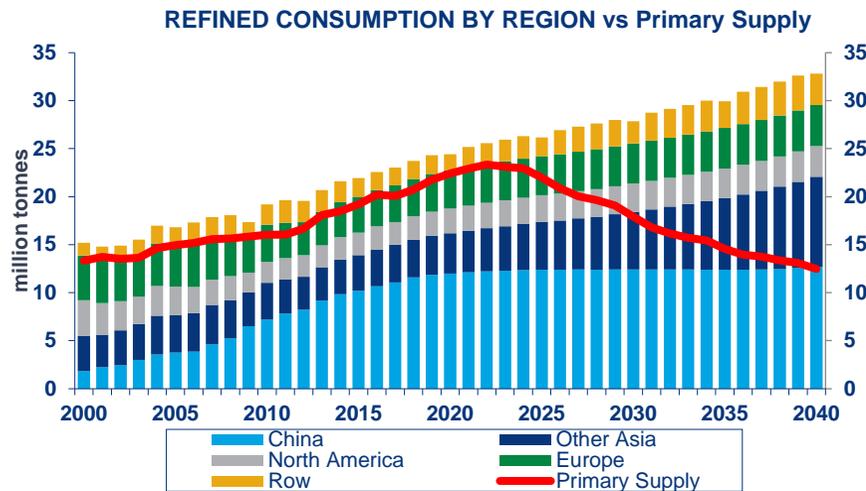
# Appendix



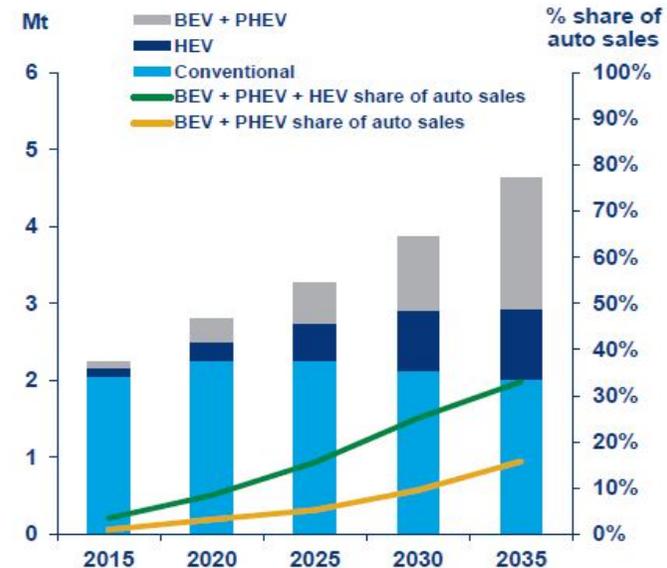
# Why Copper? Solid Fundamentals



## Solid Fundamentals



## Demand for EVs Will Impact the Copper Market



- 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

- 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

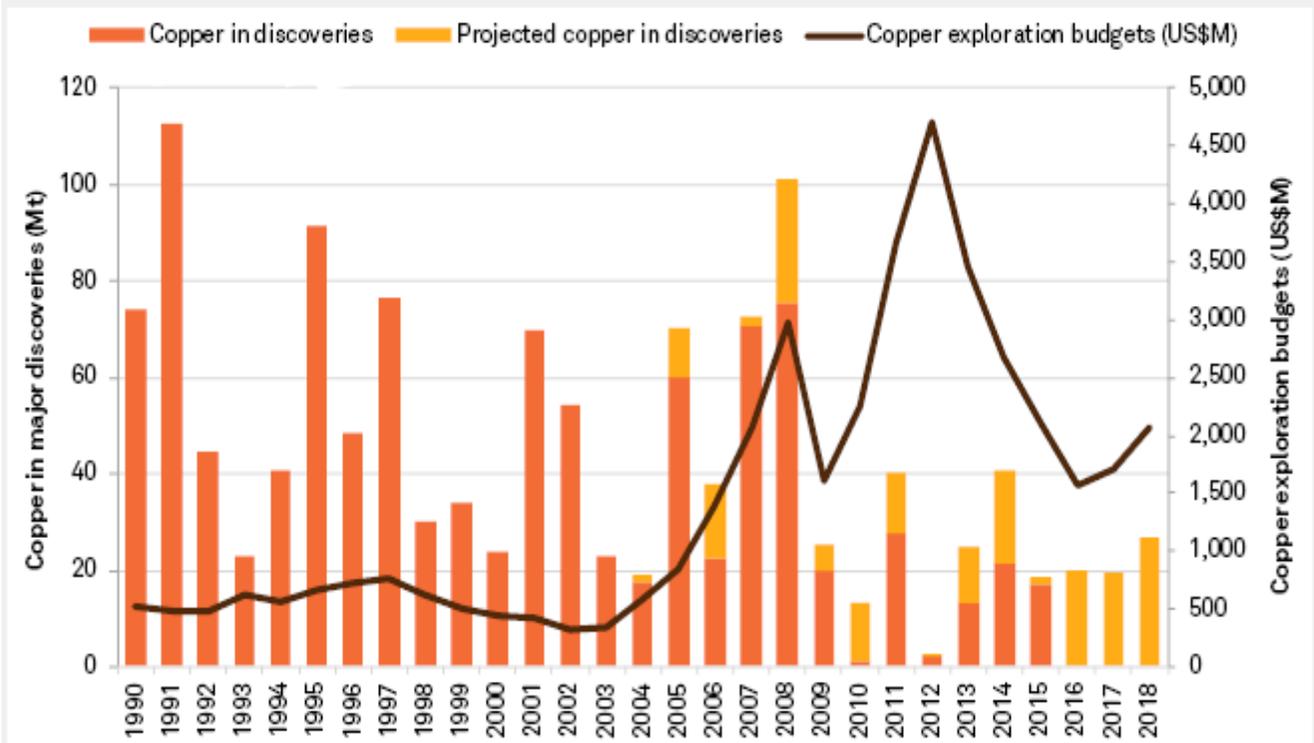
*\*Source: Wood Mackenzie*

# 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

Copper in major discoveries by year, 1990-2018



Data as of April 23, 2019.  
Source: S&P Global Market Intelligence

\*Source: S&P Global Market Intelligence