



# Exciting Copper-Cobalt and Gold Projects

MINING INDABA 2019

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# Arc Minerals - Overview

- An exciting copper-cobalt and gold play
- Two tier-one Cu/Au assets (Zamsort/Casa)
- Comprehensive drilling programme completed; Kalaba JORC Resource statement imminent; plant to commence production in February 2019
- 3Moz Au Resource at Casa; JV/Sale options
- Driving value for non-core assets by spin-outs or sale of both Šturec and Andiamo
- 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** gold, copper & cobalt projects in Africa

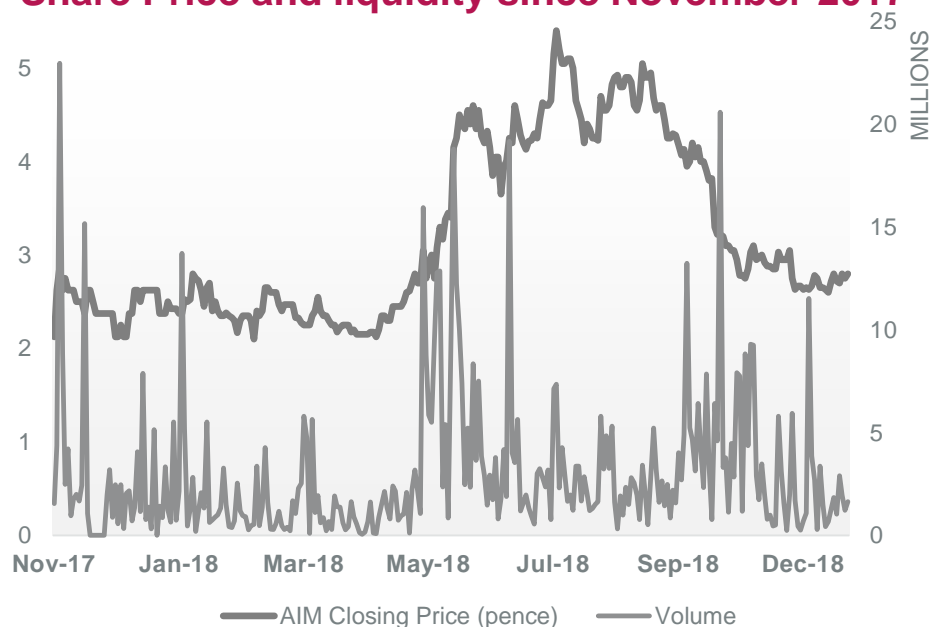
**New management team**, Highly Experienced Board with track record of successful mineral developments

# 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 4.0m shares during Q4, 2018

## Share Price and liquidity since November 2017



## Capital Structure (AIM: ARCM)

As at 30 January 2019	In USD
Share Price	3.71c
Shares in issue	632.3
<b>Market Capitalisation</b>	<b>18.0m</b>
Cash (01 Oct 2018)	2.1
Debt (01 Oct 2018)	-
<b>Enterprise Value</b>	<b>21.0m</b>

## Key Shareholders

Mumena Mushingwe Founder and Director of Zamsort	12.00%
Nick von Schirnding*	3.80%
Ann Gloag OBE	3.00%

\*includes shares and options

# Board of Directors & Management



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

**Nick von Schirnding**  
*Executive Chairman*

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.

**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.

**Vassilios Carrelas**  
*Chief Operating Officer*

Vassilios Carellas is a geologist by profession with extensive experience gained in the mining and exploration industry in Central Asia and Europe. Prior to joining Arc Minerals, Vassilios held the post of Managing Director of Kryso Resources.

**Chuck Forrest**  
*Chief Financial Officer*

Chuck Forrest is a CPA and qualified with PwC in Canada. For the past several years he has worked in senior financial roles with companies with Asian projects including Indomin Resources Limited, Central China Goldfields Limited and BDI Mining Corp. Since 2006 he has focused on southern Africa with companies including Copperbelt Minerals Limited and Casa Mining Limited.

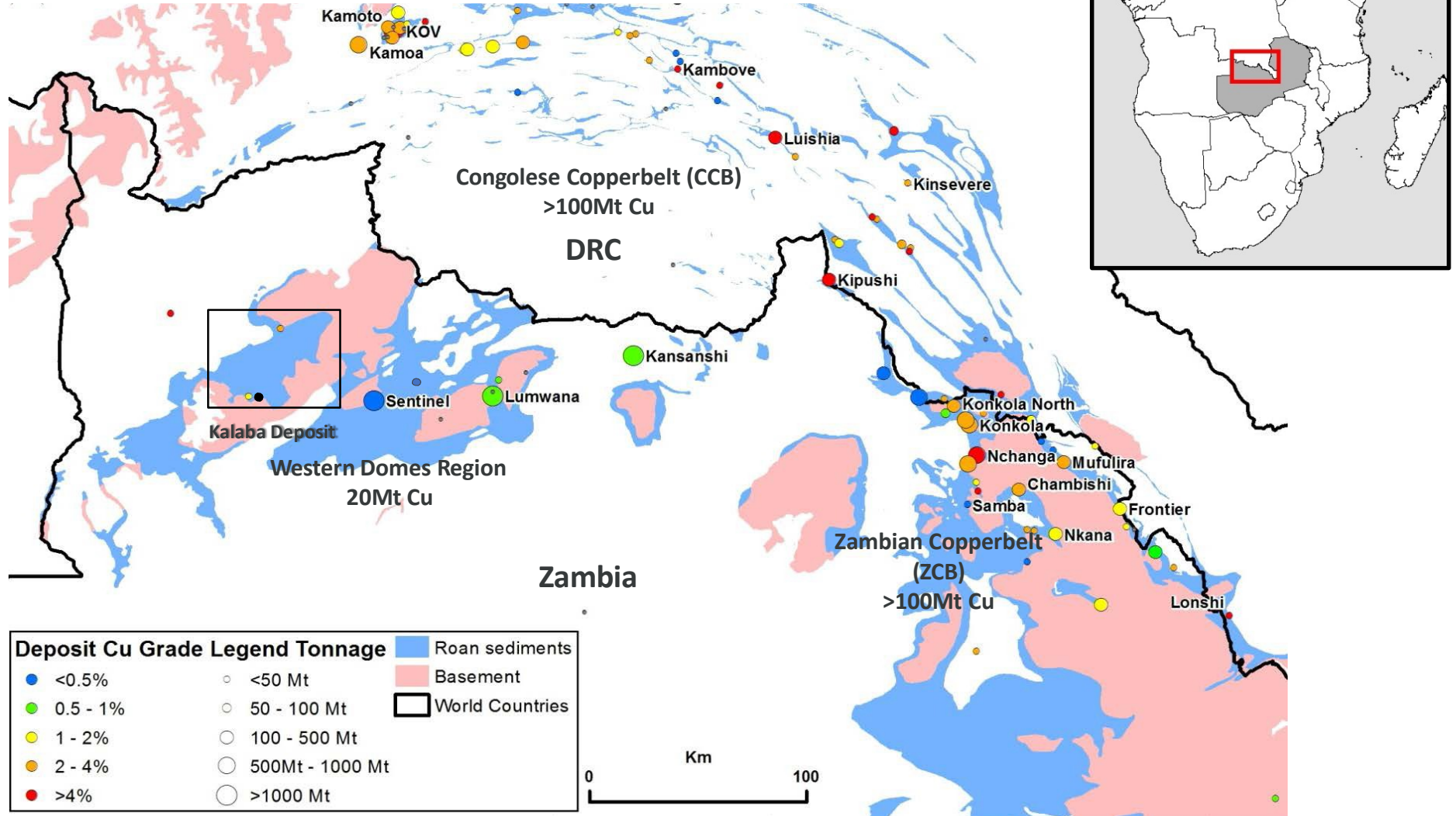
# Zamsort – A Highly Prospective Copper Cobalt Project



- 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

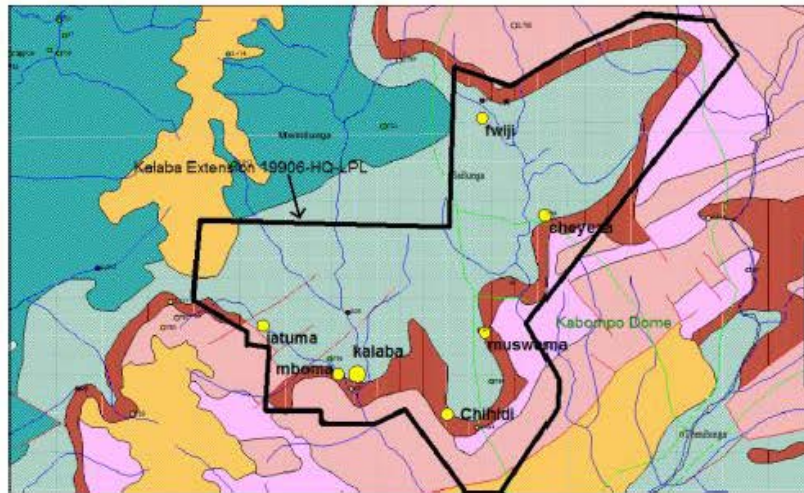


# Regional Geology



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

# Anglo-Equinox Target Ranking List



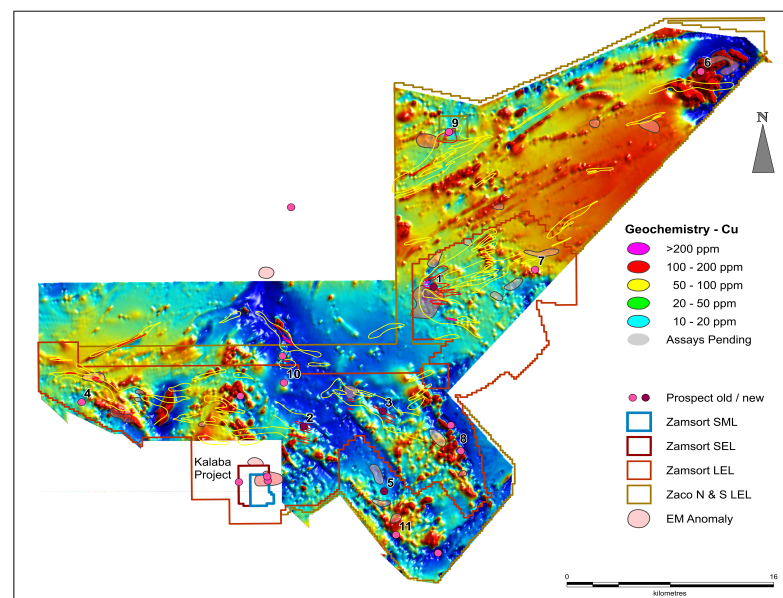
Rank No:	Name:	Rank No:	Name:
1	Kalaba	16	Chihindi
2	Mboma	17	Kawumbu 1
3	Fwiji	18	kawumbu 2
4	Cheyeza	19	Mpoza
5	Ngambu	20	Chiwahi
6	Kalaba ext	21	Kambompo East 1
7	Muswema	22	Kalumbila NE
8	North 1	23	Kawumbu 3
9	Jatuma	24	kabompo Central
10	Chialamaombo	25	Kabompo E
11	Nyambwezu	26	Kabompo North
12	Nyambwezu	27	Ntoka
13	Chialamaombo	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



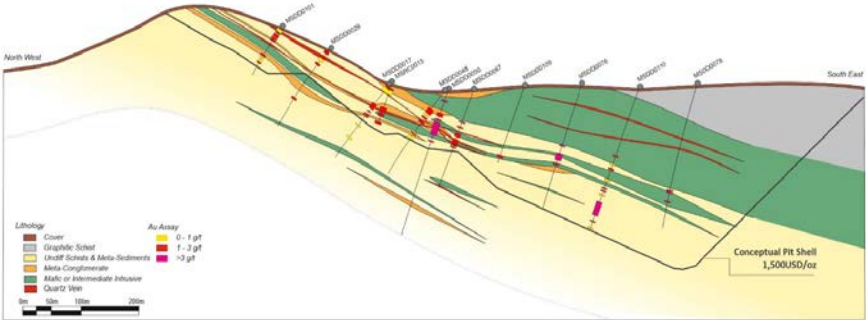
Rank	Target	Rank	Target
1	Cheyeza West	7	Cheyeza
2&3	Lumbeta	8	Musewena-Katondo
4	Jatuma	9	Fwiji
5	Southern Fold Zone	10	Kawunba 1&2
6	Nyambwezu	11	Chididi

# Casa Gold - Akyanga Gold Deposit Overview



- Resource of 3 million ounces Au - June 2018
- Exploration target of a further 200-600k oz in the Akyanga East Area
- Scoping Feasibility Study to commence targeting a 150k-200k per annum low cash cost gold project

Category	Tonnes (millions)	Gold grade (g/t)	Contained <sup>(3)</sup> Gold (million oz)
Inferred Resource <sup>(2)</sup>	44.3	2.16	<b>3.0</b>



Cross Section



Akyanga Project

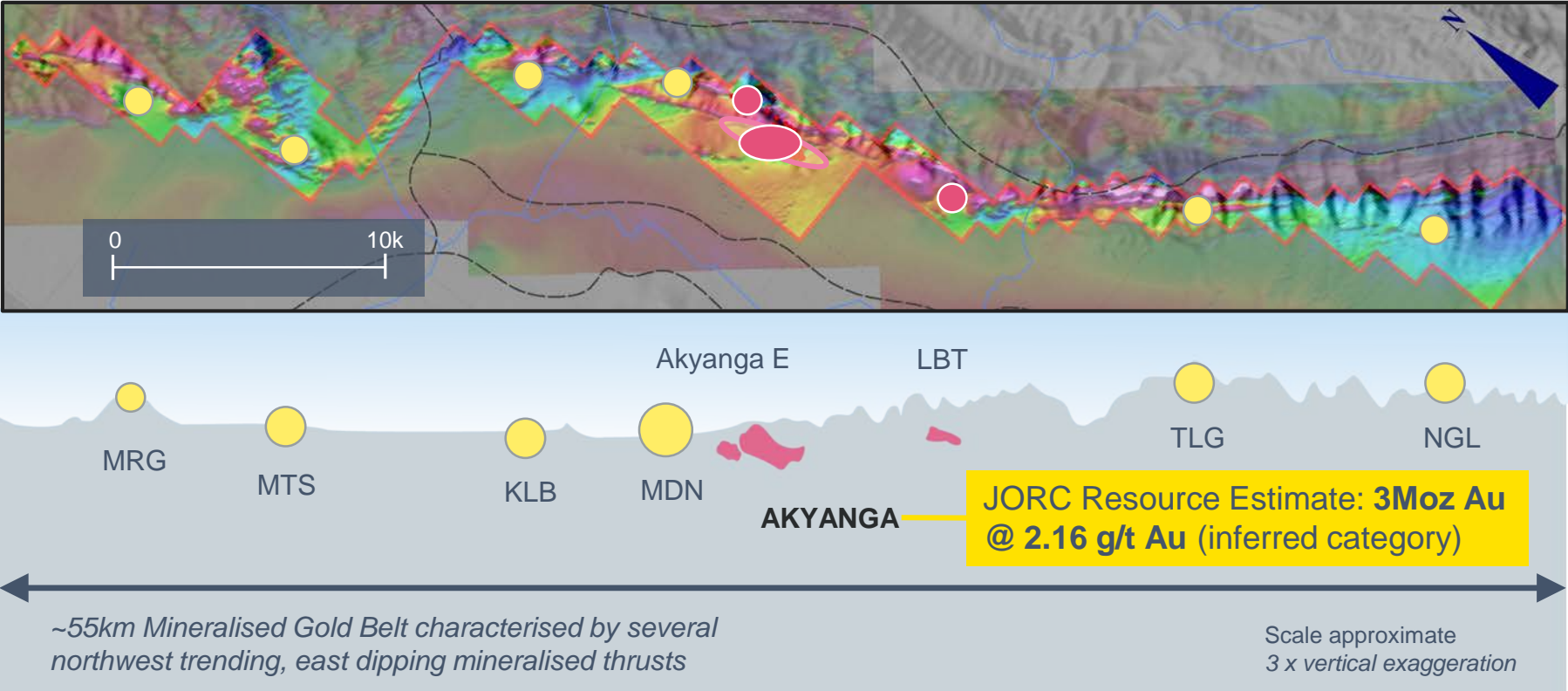
- Mineral Resources which are not Mineral Reserves do not have demonstrated economic viability. The estimate of Mineral Resources may be materially affected by environmental, permitting, legal, marketing, or other relevant issues. The Mineral Resources in this report were reported using the guidelines of JORC (2012).
- The quantity and grade of reported Inferred resources in this estimation are uncertain in nature and there has been insufficient exploration to define these Inferred Resources as an Indicated or Measured Mineral Resource. It is uncertain if further exploration will result in upgrading them to an Indicated or Measured Mineral Resource category.
- Contained metal and tonnes figures in totals may differ due to rounding.

# Misisi Project

## Long Section



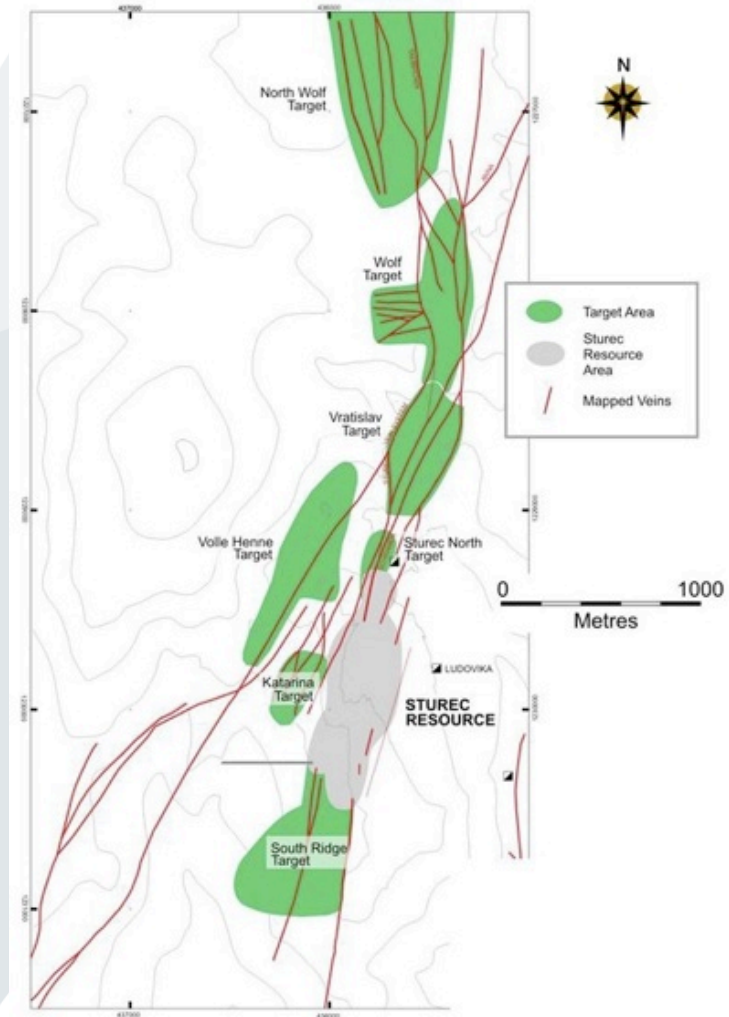
More than 8 additional projects have been identified to date at various stages of the project cycle, from identified gold anomalies to known drilled ore bodies/intersections.



# Šturec Gold Project Overview



- 100% interest in Šturec gold project in Slovakia
- Continuous mineralisation for 1,200m along strike. The deposit is up to 120m wide, extends to a known depth of at least 300m and is still open in all directions
- Measured and Indicated Mineral Resources of 15.4Mt at a grade of 2.0 g/t Au Eq. and Inferred Mineral Resources of 9.7Mt at 1.0 g/t Au Eq.
- PFS demonstrated viable project with robust economics: NPV8% US\$145M, 26%IRR with a total life of mine cash cost of only US\$555/oz and initial mine life of 11 years
- Currently reviewing strategic alternatives with regards to a sale of the asset



# Investment Highlights



- ☑ Exciting large copper-cobalt and gold play
- ☑ 2 new significant target areas identified – 12 targets in total
- ☑ Plant: production imminent
- ☑ 3 million Au ounces at Casa – JV/Sale options
- ☑ Exclusivity agreement signed for the sale of Šturec
- ☑ Proven management team with significant "skin in the game"



For additional information  
or enquiries, please contact:

Nick von Schirnding  
*Executive Chairman*

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# Annex



# A Prolific Mineral District

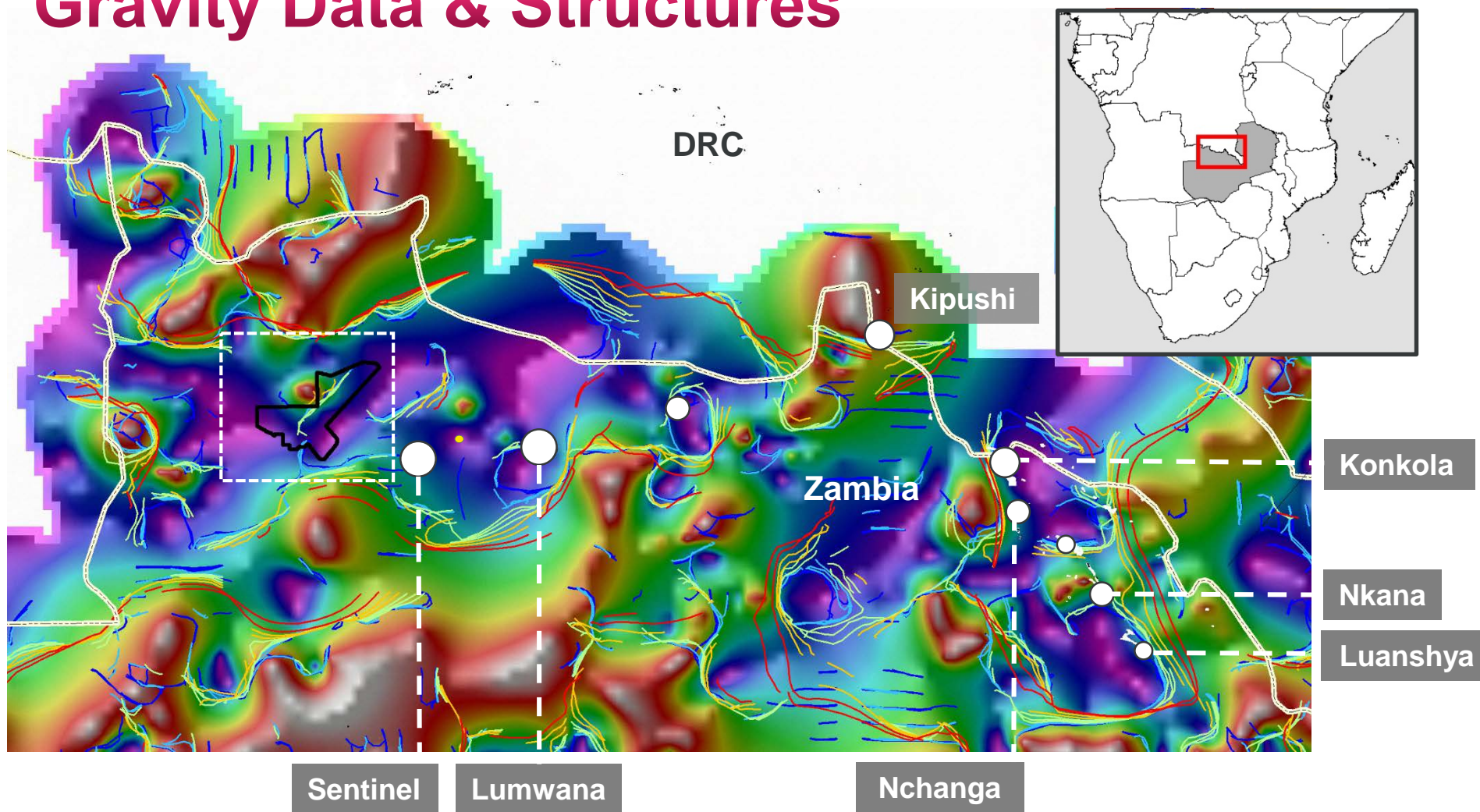


- During the last 10 years, three new major mines have been constructed to exploit mineral Resources in the western part of the Zambian Copper Belt
- This region now accounts for more than 80% of Zambia’s copper production

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

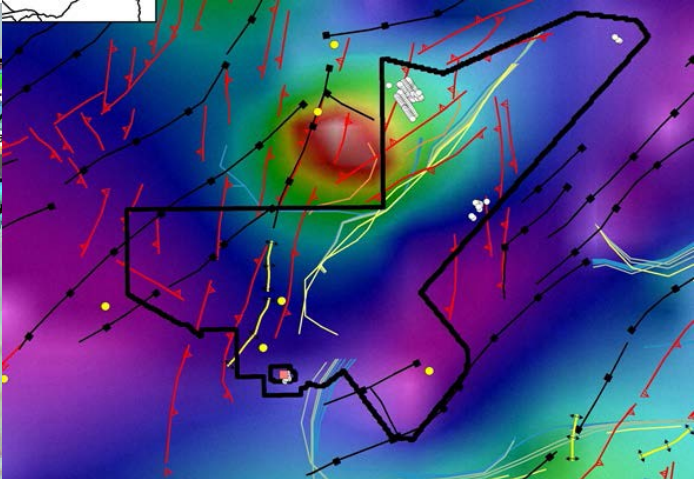
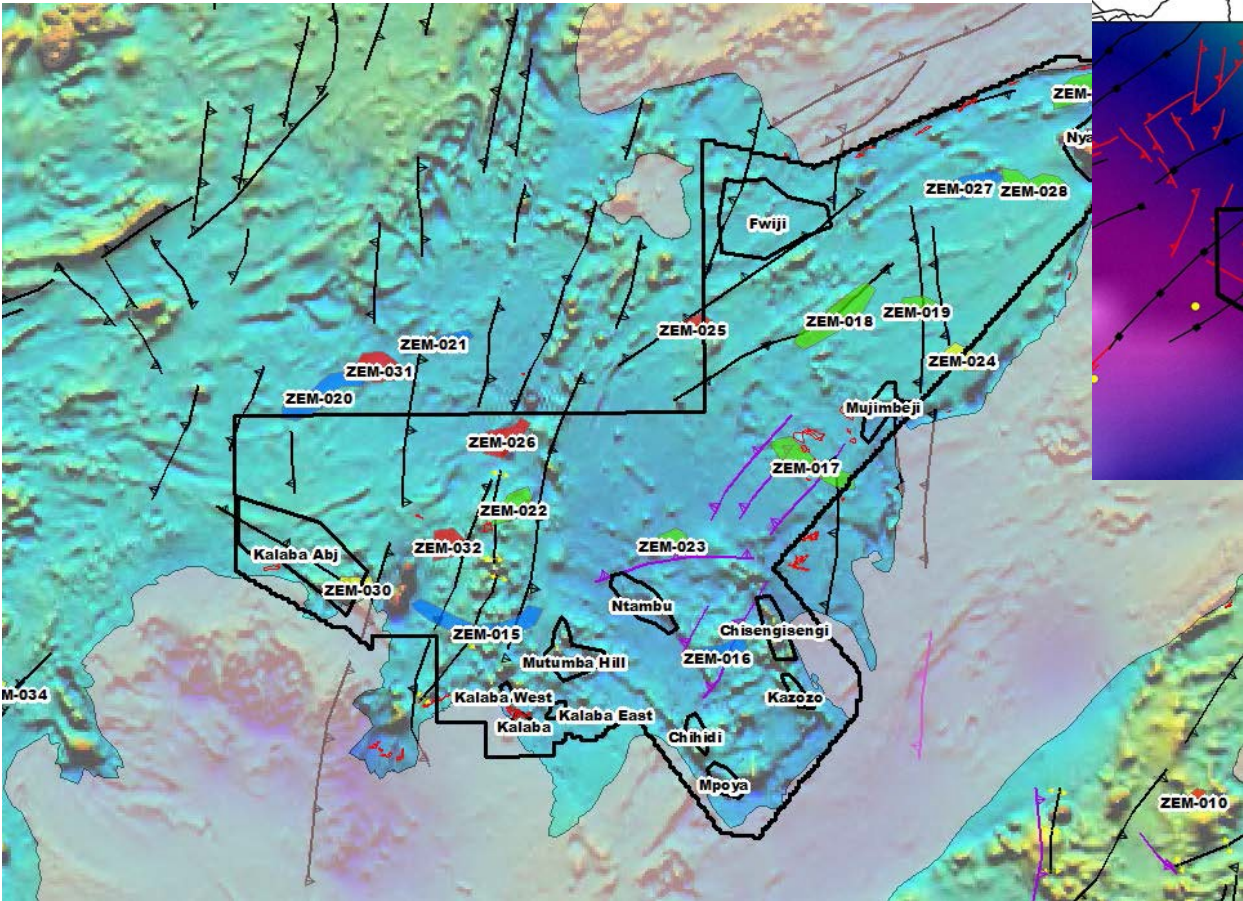
Source: Wood Mackenzie and Company Websites

# Gravity Data & Structures



**Association of known world-class deposits with significant regional structures & flanks of deep-seated basement highs**

# Regional Targets Identified



Regional geophysical interpretations demonstrate the presence of significant structures that have potential to focus copper bearing fluids

**Twenty-seven targets delineated from historical data and proprietary interpretations requiring immediate follow-up**