



# Exciting Copper-Cobalt Play in Zambia

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# Arc Minerals - Overview

- Focused group with a clear strategy
- Two tier-one assets (Zamsort/Casa)
- Zamsort Copper Cobalt acquisition, a transformational transaction
- A comprehensive drilling programme underway; plant to commission Q4 2018
- 3Moz Au Resource at Casa; Scoping Study to commence
- Driving value for non-core assets by spin-outs or sale of both Šturec and Andiamo interest
- 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

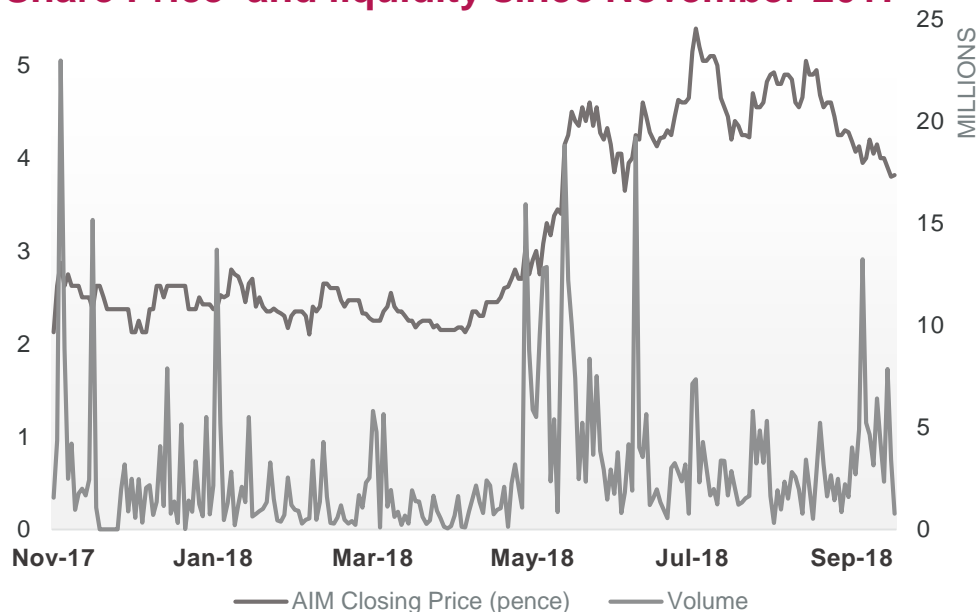
**New management team**, Highly Experienced Board with track record of successful mineral developments

# A Turnaround Story With a Market Cap of US\$32 million



- Strong share price performance during the acquisition and drilling programme of Zamsort
- Supportive shareholder base
- Excellent liquidity, average daily volume of 2.7m shares during Q3, 2018

## Share Price and liquidity since November 2017



## Capital Structure (AIM: ARCM)

As at 10 October 2018	In GDP
Share Price	3.85p
Shares in issue	630.8
<b>Market Capitalisation</b>	<b>24.5m</b>
Cash (01 Oct 2018)	2.0
Debt (01 Oct 2018)	-
<b>Enterprise Value</b>	<b>22.5m</b>

## Key Shareholders

Mumena Mushingwe Founder and Director of Zamsort	13.00%
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.

**Michael Foster**  
*Non-Executive Director*

Michael Foster is the Founder and Executive Chairman of CASA Mining Limited. Before this he was the non-executive Chairman of Copperbelt Minerals Limited which was sold in 2012 for \$191 million.

**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.

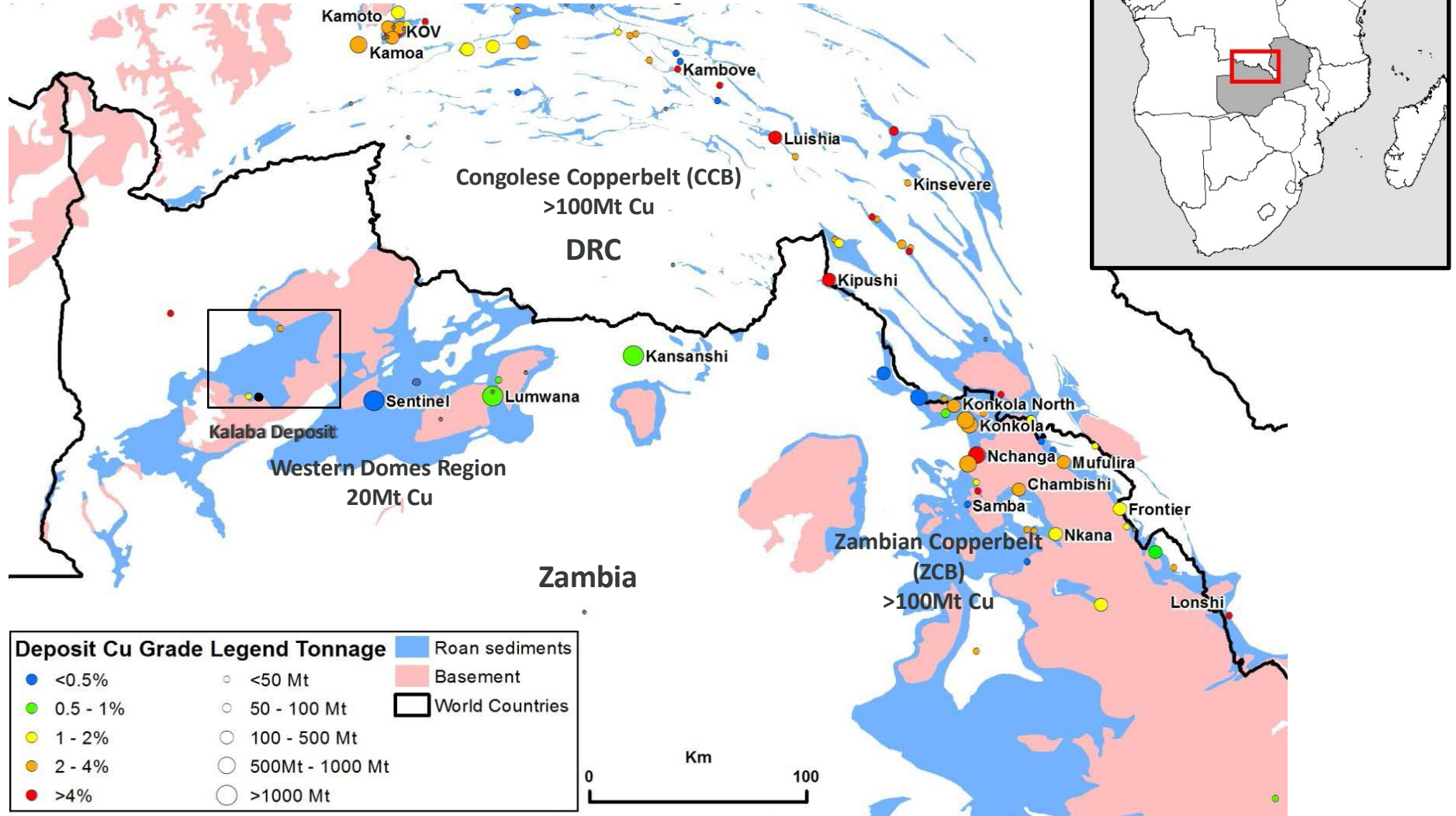
# Zamsort – A Highly Prospective Copper Cobalt Project



- 66% interest in Zamsort
- Zamsort is a privately-owned company developing the Kalaba copper-cobalt project in north west Zambia
- Kalaba Project license area covers c.1,000 km<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)
- Kalaba 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
- Discussions currently underway with other shareholders to develop the Kalaba Project

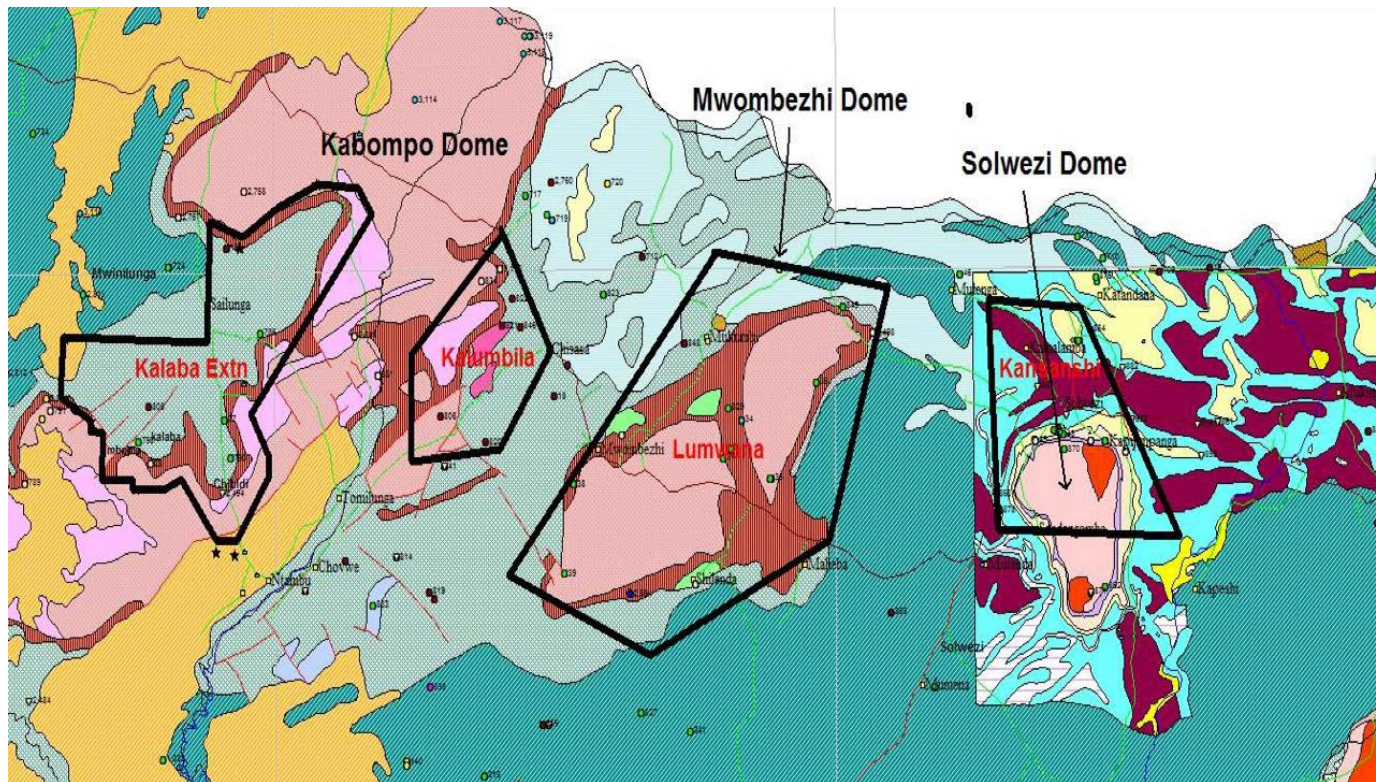


# Regional Geology



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

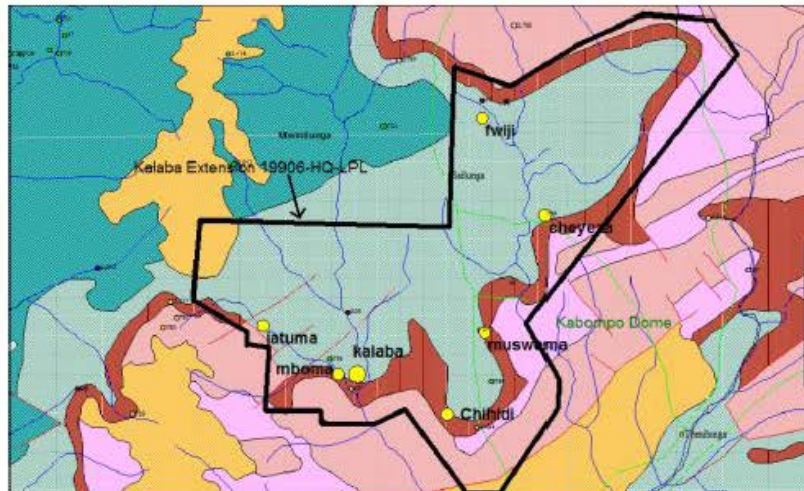
# Zamsort Copper Cobalt Project Overview



Kalaba licence area covers c. 1,000km<sup>2</sup>, located in one of the most prolific regions of Zambia



# 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	Chialama	25	Kabompo E
11	Nyambwezu	26	Kabompo North
12	Nyambwezu	27	Ntoka
13	Chialama	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 Z 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

# A Prolific Mineral District

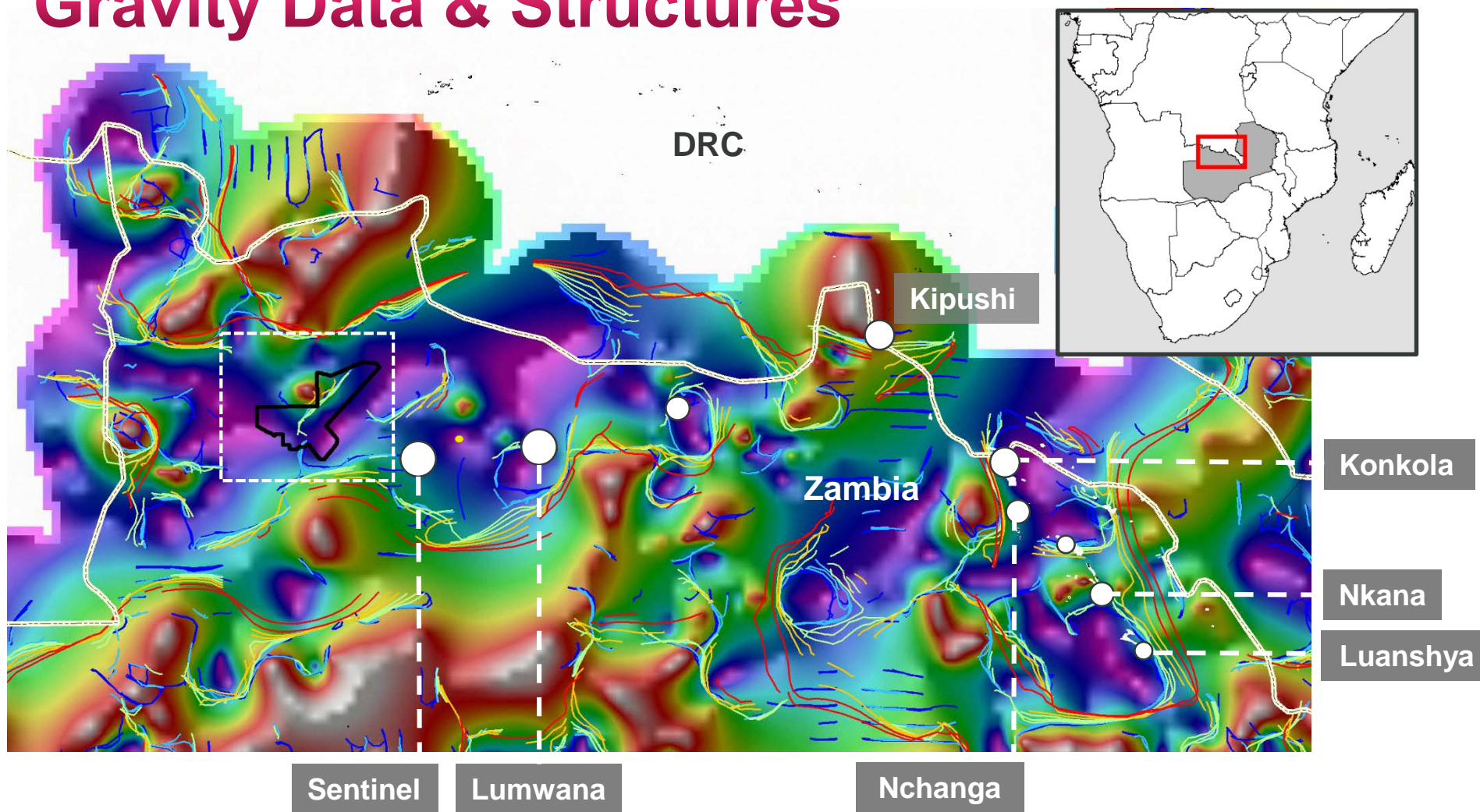


- During the last 10 years, three new major mines have been constructed to exploit mineral Resources in the western part of the Zambian Copper Belt
- This region now accounts for more than 80% of Zambia’s copper production

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

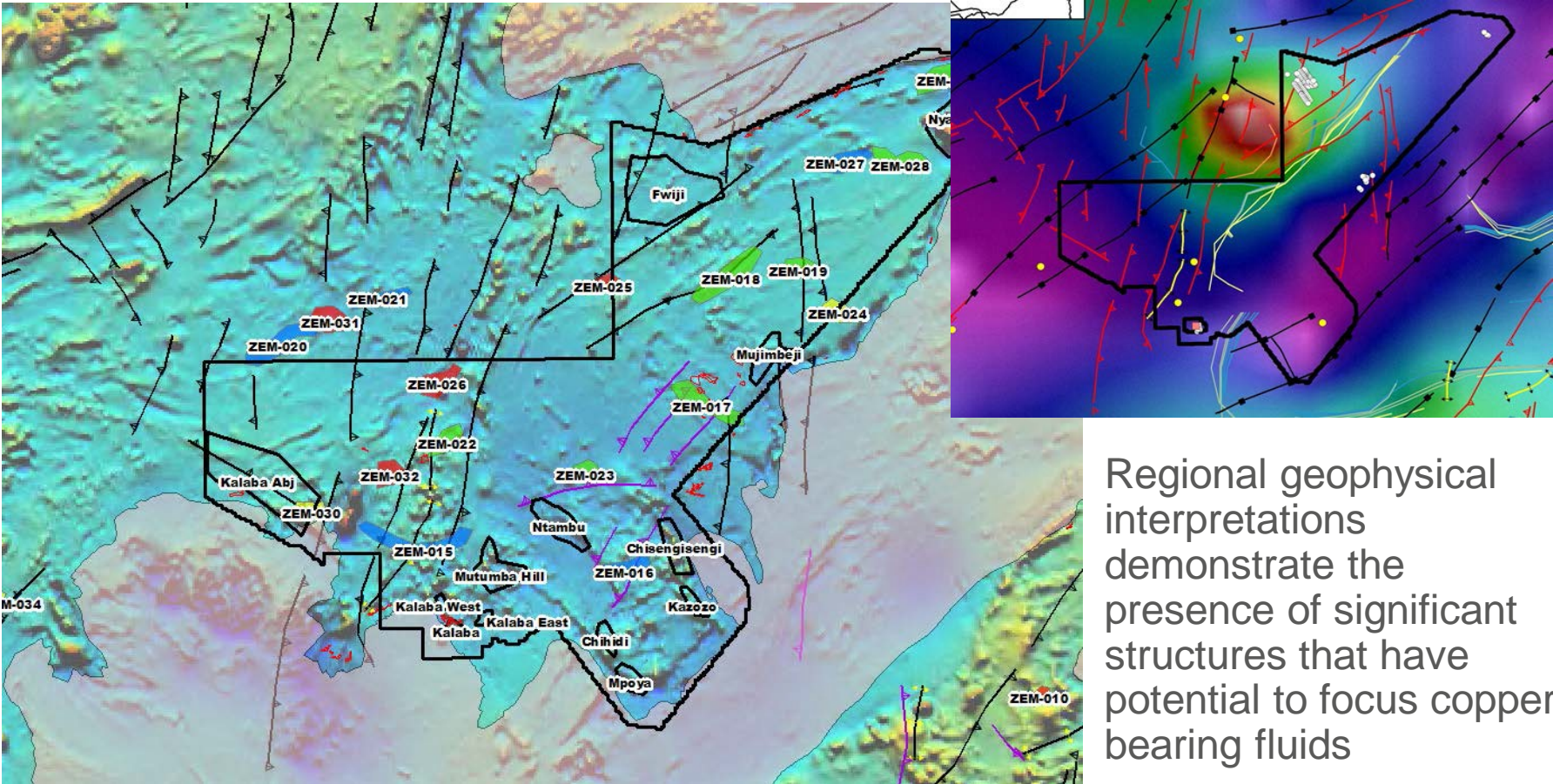
Source: Wood Mackenzie and Company Websites

# 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**

# Drilling Programme Underway



- Commenced a Phase 1, 11,000 metres drilling programme (6,600 of diamond and 4,400 of Reverse Circulation (RC) drilling)
- Drilling programme focussed on:
  - Delineating shallow ore for plant feed
  - Delineating a Maiden Mineral Copper and Cobalt Resource
  - Initial exploration target of between 10-20 Million tonnes
  - Phase 1 drilling programme to be completed by Q4

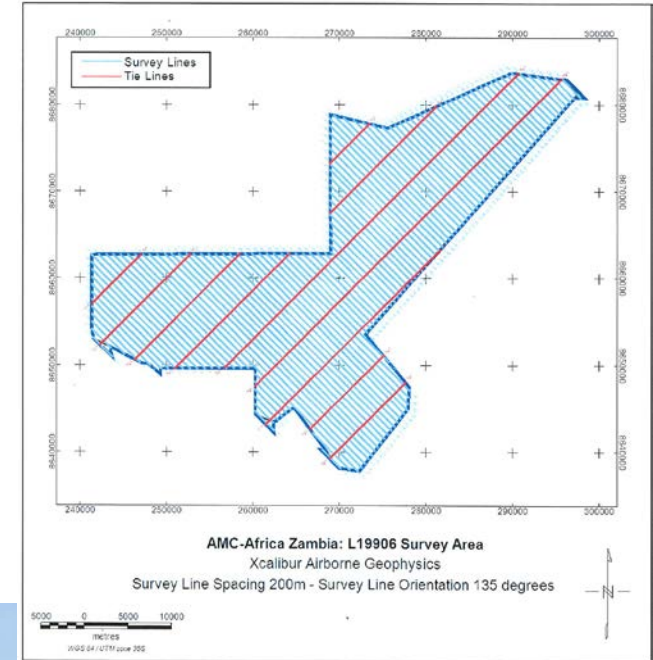


*Diamond drilling at the Kalaba Prospect*

# Airborne Geophysical Programme



- Commenced a 5,218 line-kilometres high resolution airborne geophysical survey
- The survey will cover the entire license area, approximately 1,000 km<sup>2</sup>
- The ultra-low level magnetic and radiometric survey will be completed by Xcalibur Airborne Geophysics (Pty) Ltd
- The Survey will take around two weeks to complete and will be followed by data analysis
- The survey is expected to generate significant further targets on the license area

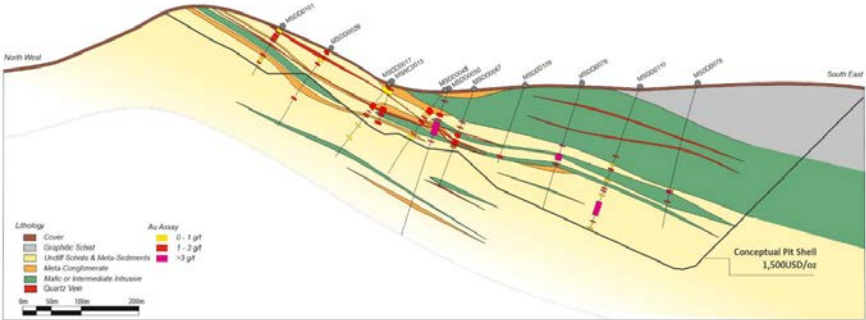


# Casa Gold - Akyanga Gold Deposit Overview



- 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

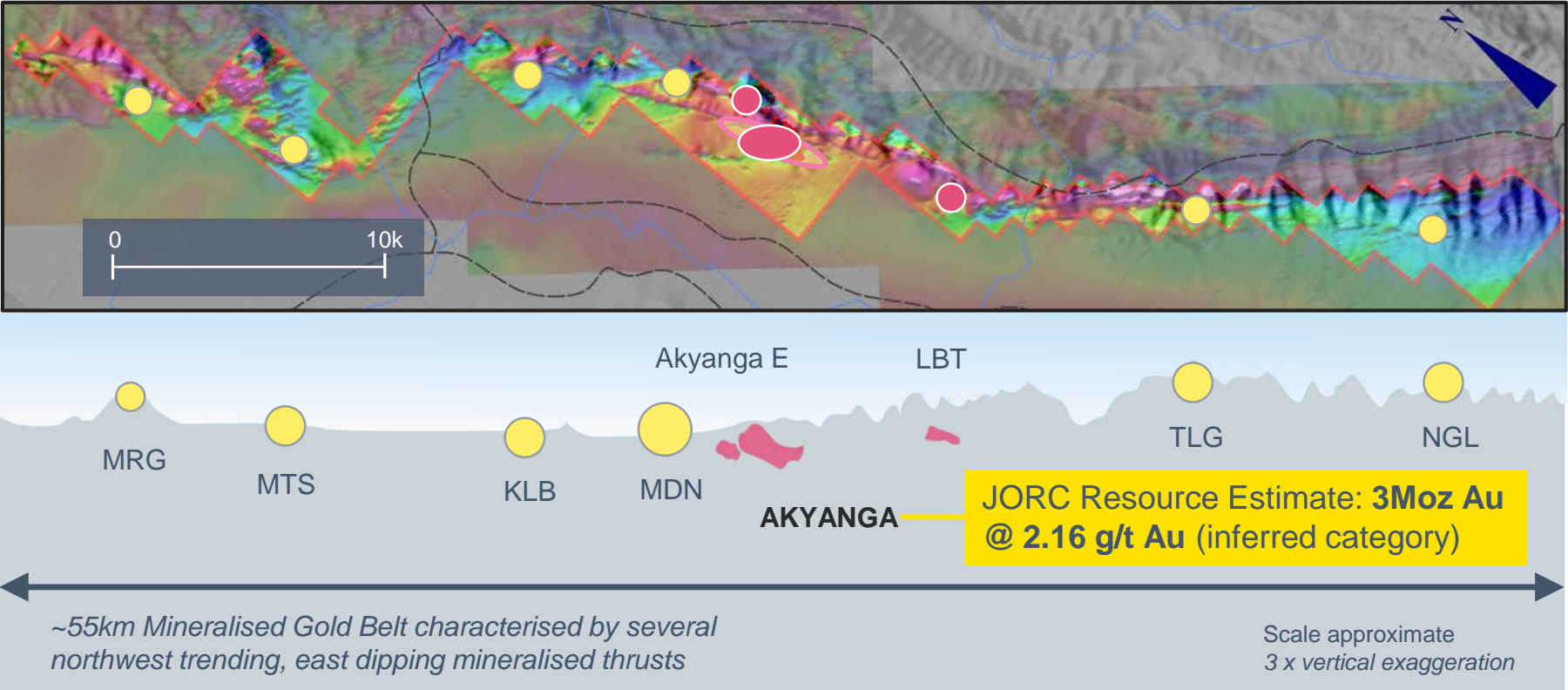
- Mineral Resources which are not Mineral Reserves do not have demonstrated economic viability. The estimate of Mineral Resources may be materially affected by environmental, permitting, legal, marketing, or other relevant issues. The Mineral Resources in this report were reported using the guidelines 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.

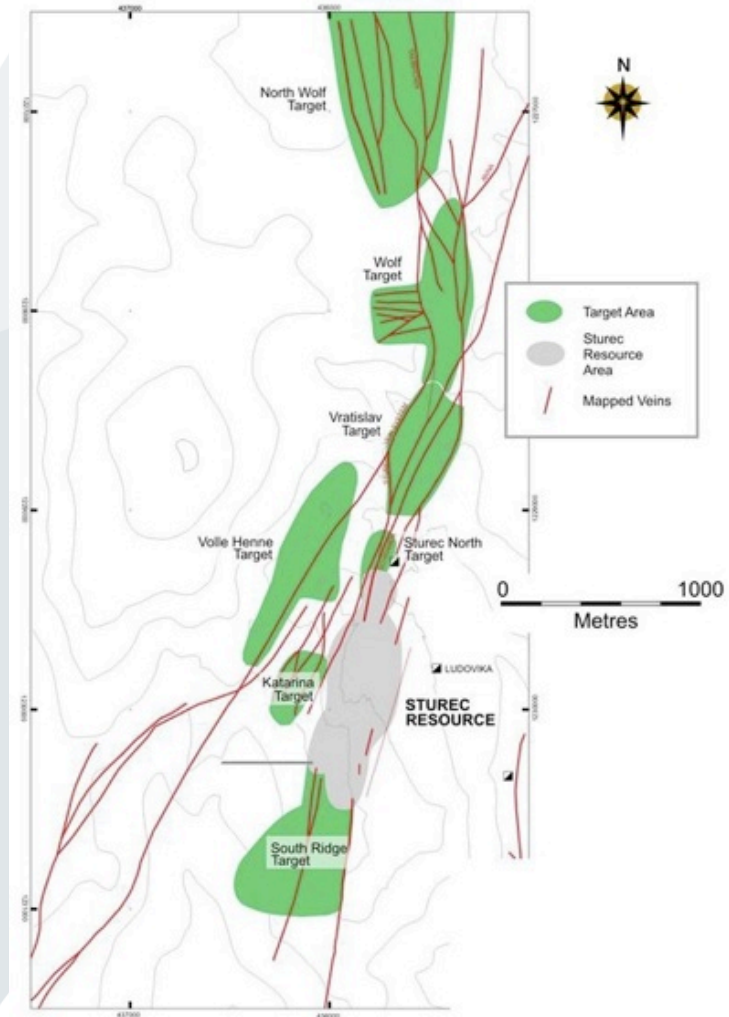




# Šturec Gold Project Overview



- 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



# Delivering On Our Objectives



- ☑ Board and Management restructured
- ☑ Company renamed
- ☑ New strategy successfully implemented
- ☑ Acquired controlling stake in Zamsort (Currently 66%)
  - ☑ Commenced a 11,000 metres drilling programme
  - ☑ Commenced a 5,218 line-kilometre airborne geophysical survey
  - ☑ Plant commissioning in Q4
- ☑ Acquired control of Casa (100%)
  - ☑ Completed 6,500 metres exploration drilling programme
  - ☑ Doubled Mineral Resource to 3Moz at 2.16g/t
- ☑ Selling non-core assets
  - ☑ Sale of interest in Andiamo for US\$532,000
  - ☑ Exclusivity agreement signed for Šturec



For additional information  
or enquiries, please contact:

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*Executive Chairman*

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