



TARUGA

February 2019

Investor Presentation

Investment Highlights

A high grade cobalt-copper play in the DRC

Favourable technical due diligence completed at Kamilombe and Mwilu in the highly prospective Kolwezi Mining District

2018 high grade drilling results included 50.87m at 0.5% Co including 13.68m at 1.2% Co & 42.85m at 0.4% Co including 6.40m at 1.11% Co & 8.40m at 2.7% Cu

A strong, highly credentialed Management team and Board, with an extensive network and significant experience operating in the DRC

Growing demand for electric vehicles (EVs) expected to drive demand for battery metals, particularly cobalt

On track to becoming a high grade cobalt producer in the DRC

Corporate Overview



Well positioned to become a substantial cobalt-copper player

Capitalisation Data⁽¹⁾

Share Price	A\$	0.05
Basic S/O	M	141.2
Market Cap	A\$M	7.2
Net Cash ⁽²⁾	A\$M	(1.4)
Enterprise Value	A\$M	5.8

Management and Board

Mark Gasson	Executive Director
Sheena Eckhof	Executive Director – IR
Jamie Anderson	Exploration Manager
Gary Steinepreis	Non-Executive Director
Bernard Aylward	Non-Executive Director

1. As at market close 30 Jan 2019

2. 31 Dec 2018 cash of A\$1.37M

LTM Share Price and Volume⁽¹⁾



Key Shareholders

Hongze Group	7%
Board & Management	14%
Top 20	73%

Project Overview

Excellent grades at Kamilombe – **50.87m at 0.49% Co** from **5.8m** including **13.68m at 1.21% Co** from **30.47m**

Kamilombe	• Located in the Kolwezi “Klippe” in the DRC with access to excellent infrastructure • 2018 drilling and trenching at Kamilombe and Mwilu supports further drilling to extend known mineralisation • High grade cobalt and copper mineralisation over 1km strike at Kamilombe – 13.68m at 1.21% Co from 30.47m within 50.87m at 0.49% Co from 5.8m (KMDD005) – 3.04m at 1.45% Co from 36.4m & 5.18m at 1.05% Co from 57.2m within 31.21m at 0.52% Co from 33.1m (KMDD001)
Mwilu	• Mineralisation defined at Mwilu over a width of 700m and a potential strike length of 2km – 6.40m at 1.11% Co from 282.45m and 8.40m at 2.7% Cu from 269.15m within 42.85m at 0.39% Co from 256.55m (MWDD008) • Taruga holds an option agreement with the Government of Lualaba Province and Mint Master⁽¹⁾ to earn a 60% interest in Mwilu and Kamilombe
Regional Exploration	• Area of 28.35km² of prospective Roan sediments and 8km SSE of Kolwezi • Cobalt and copper artisanal mining on the eastern boundary • Good potential for discovery of blind deposits under recent soil cover

1. Mint Master: local construction and development company

Management Overview

A strong, diversified and qualified team with extensive experience in the DRC

Executive Management & Advisors

Mark Gasson
Executive Director

- Geologist with 33 years of experience
- Active in the DRC since 2004 in gold and base metals exploration and resource development
- Discovered Tiger Resources' 1 million tonne Kipoi copper deposit, Alphamin's 250k tonne tin deposit & Amani's 3moz Giro gold deposit

Sheena Eckhof
Executive Director – IR

- Extensive experience gained from previous positions with two globally renowned Investment Banks, with a specific focus on the resources sector
- Previously Investor Relations Officer at Independence Group, a West Australian mid-cap resources company

Jamie Anderson
Exploration Manager

- Appointed as DRC Exploration Manager
- Geologist with 14 years experience, 10 in DRC
- Exploration and Resource Management at Kipoi (Tiger), Chemaf (Kolwezi) and Bisie (Alphamin)

Klaus Eckhof
Advisor

- Geologist with 25+ years experience sourcing and developing exploration projects, DRC since early 2000
- Founder of Moto Goldmines (Kibali), Spinifex Gold Ltd, and Lafayette Mining Ltd, Amani Gold Ltd
- Previously Chairman of AVZ Minerals

Board of Directors

Gary Steinepreis
Non-Executive Director

- Chartered Accountant with over 20 years' experience with ASX-listing rules, corporate governance and equity capital raisings

Bernard Aylward
Non-Executive Director

- Geologist with over 20 years experience as Manager & Exploration Geologist across West Africa, Australia and Europe

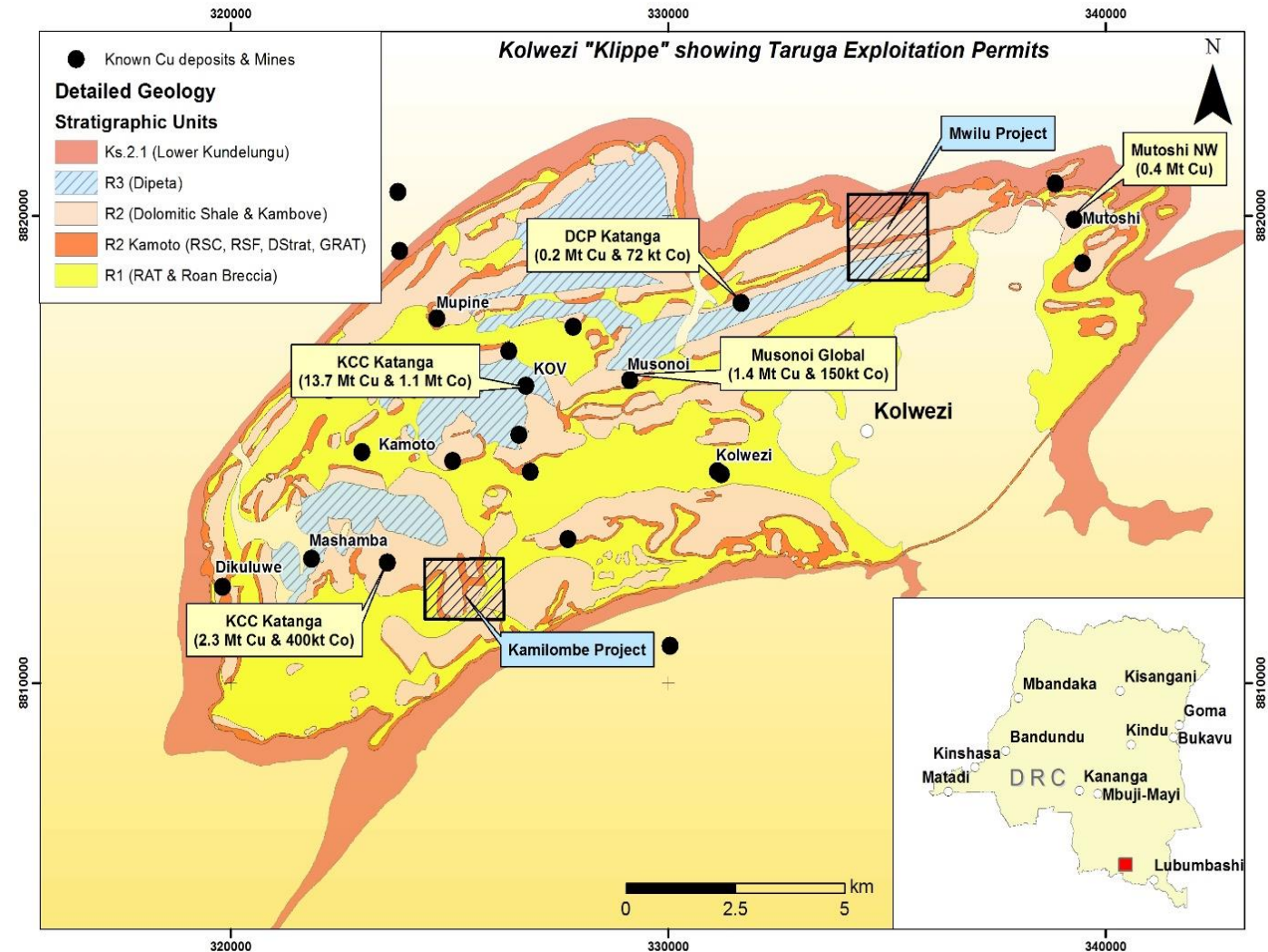
Daniel Smith
Company Secretary

- Director of Minerva Corporate, a boutique corporate advisory firm
- Has advised on and been involved in over a dozen IPOs, RTOs and capital raisings on the ASX and NSX

Kolwezi “Klippe” – Includes Mwilu and Kamilombe Projects

Host to 50% of Katanga deposits

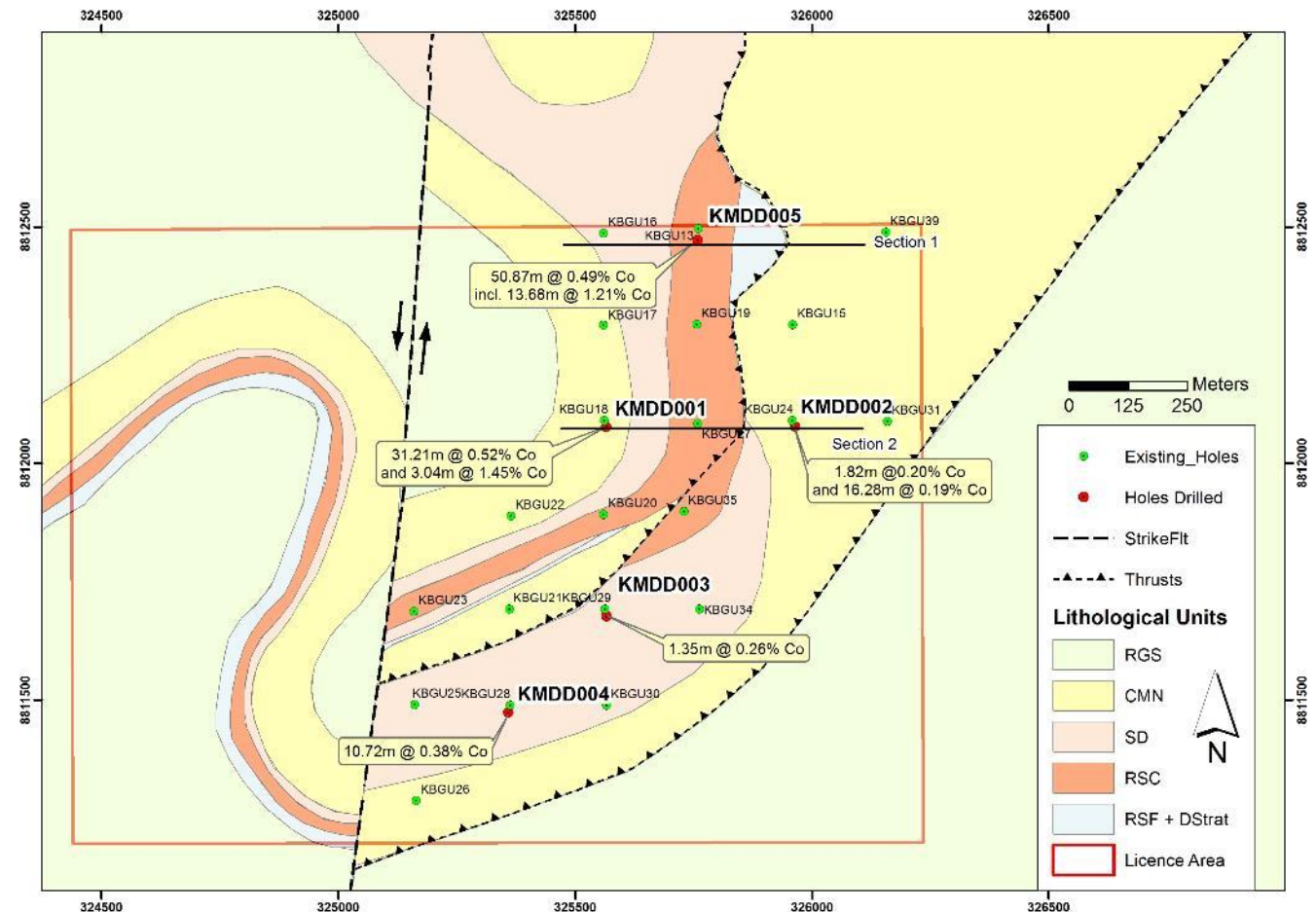
- Covers an area of over 20km x 8km centered on Kolwezi
- Includes Glencore’s Kamoto deposit (~1.6M tonnes contained cobalt)
- High grade cobalt mineralization from surface
- Largest cluster of deposits within the Copperbelt - host to approximately 50% of the known Roan deposits
- Excellent infrastructure



Kamilombe Project – High Grade Drill Intersections

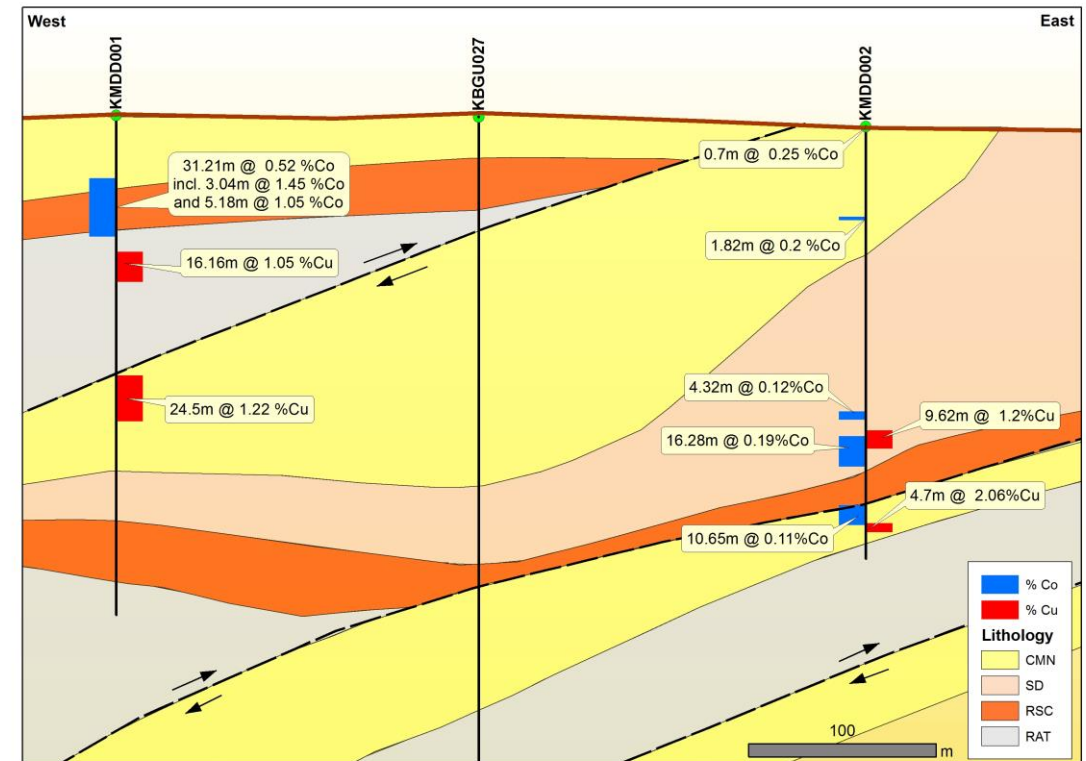
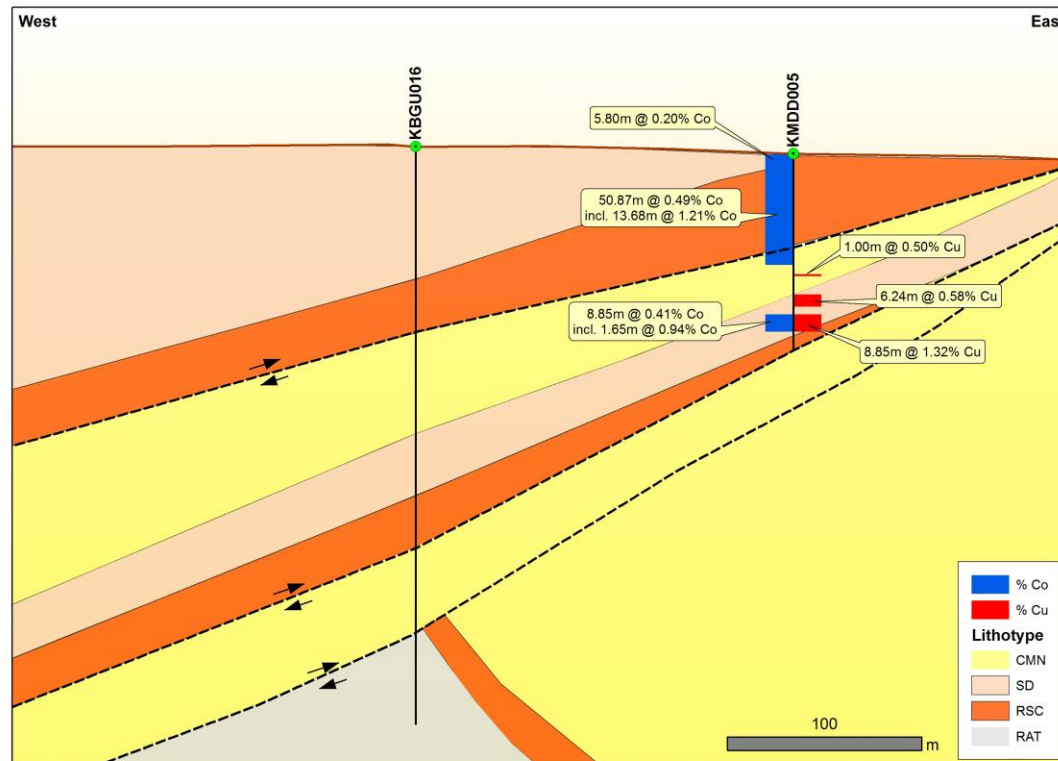
Borders on KCC's Mashamba deposit (400,000 tonnes of contained cobalt)

- High grade cobalt intersected in due diligence drilling
- Best cobalt results included:⁽¹⁾
 - **50.87m at 0.49% Co** from **5.8m** including **13.68m at 1.21% Co** from **30.47m**
 - **31.21m at 0.52% Co** from **33.1m** including **3.04m at 1.45% Co** from **36.4m** and **5.18m at 1.05% Co** from **57.7m**
- Best copper results included:
 - **24.5m at 1.22% Cu** from **138.3m**
- Cobalt mineralisation defined over 1km, open at depth
- Metallurgical testwork confirms recoveries of up to **70%** from simple beneficiation for possible early shallow production



Kamilombe Project – Sections

Near surface, shallow dipping, mineralised Mines R2 Series lithologies

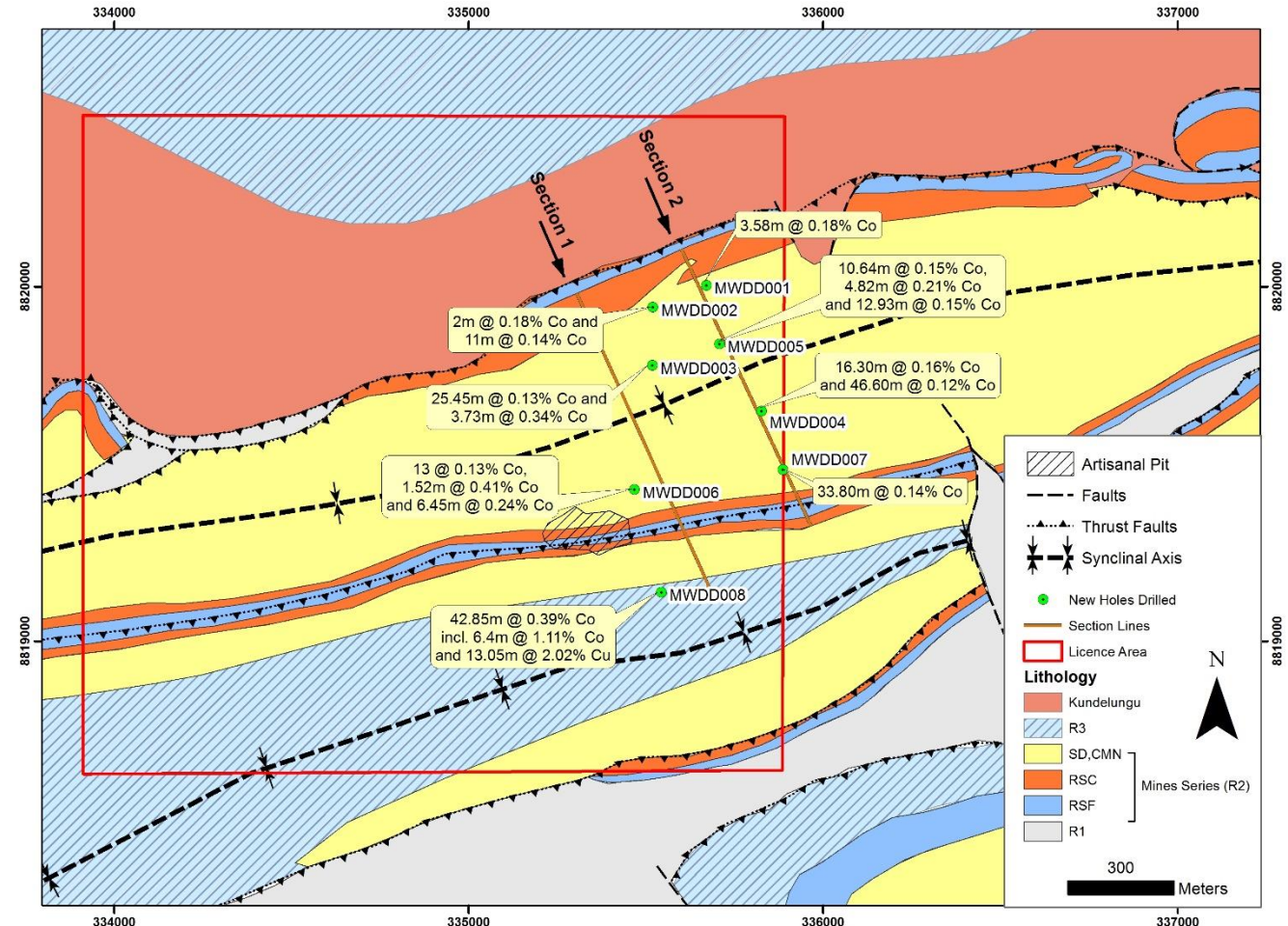


Mwilu Project – Multiple Mineralised Zones at Surface



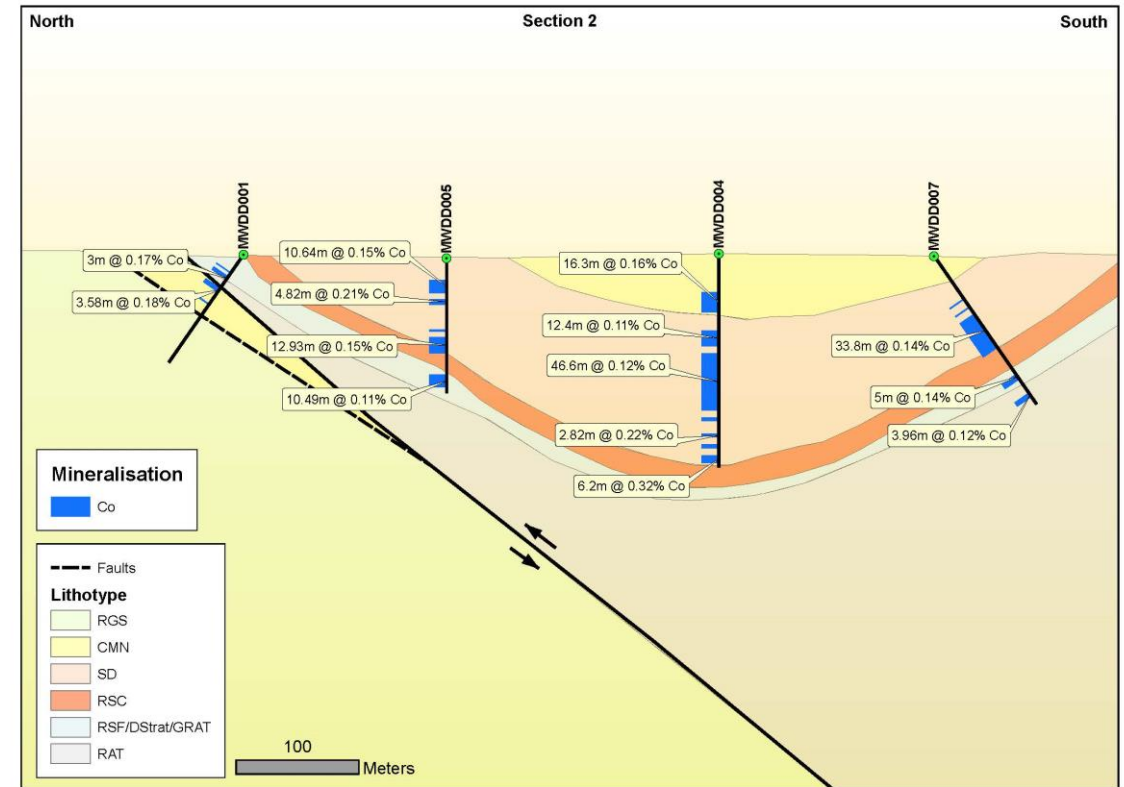
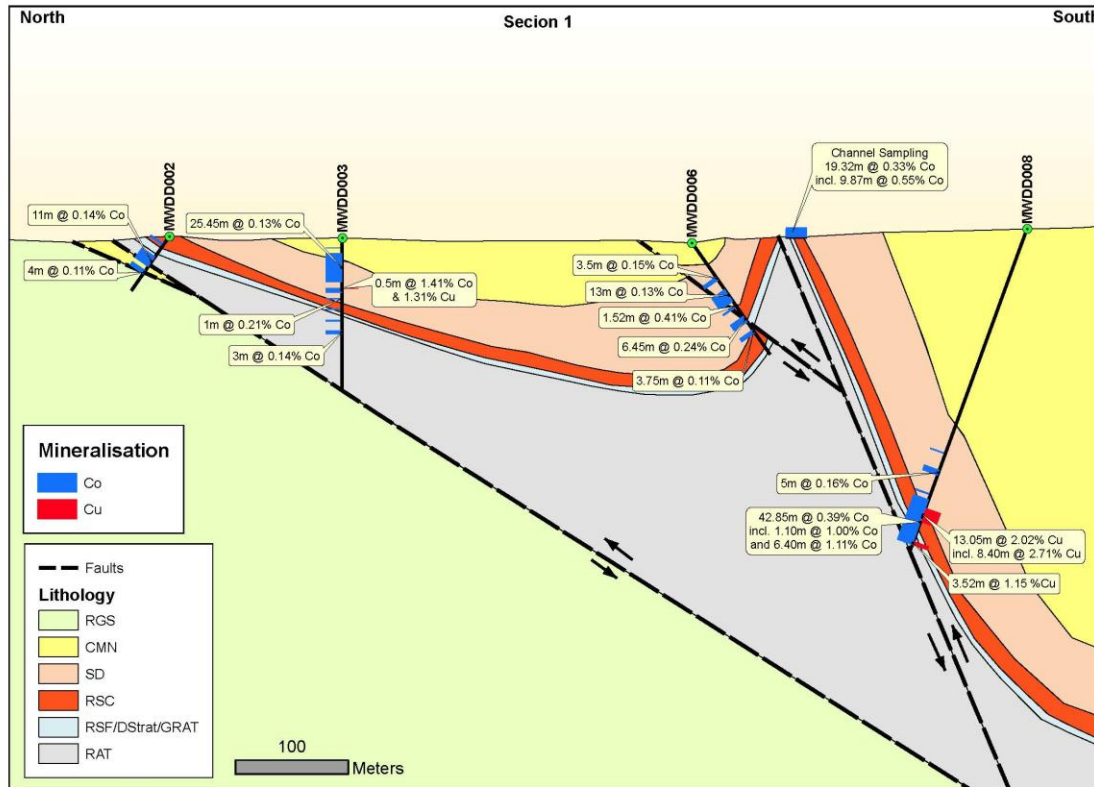
Mineralisation defined over 700m width down to 280m below surface

- Best cobalt & copper results included:⁽¹⁾
 - **42.85m at 0.39% Co** from **256.55m** including **6.40m at 1.11% Co** from **282.45m** & **8.40m at 2.7% Cu** from **269.15m**
 - Channel sampling of the same zone at surface reported **9.87m at 0.55% Co**
 - **16.30m at 0.16% Co** from **31.9m**, **46.60m at 0.12% Co** from **81.55m** & **6.20m at 0.32% Co** from **164.85m** from the northern zone
- Cobalt mineralisation defined over 2km, open at depth
- Metallurgical testwork will establish suitable simple concentration processes for early shallow production



Mwilu Project – Sections

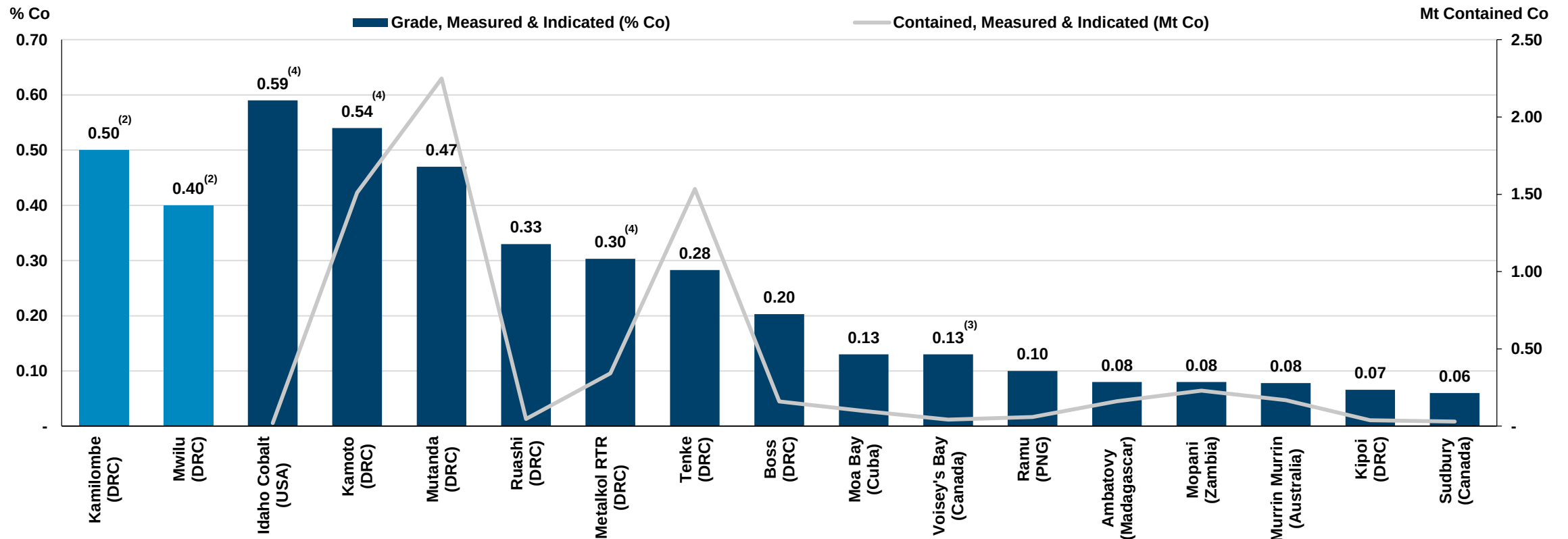
Potential for open pit and underground mining operations



High Grade Cobalt Located in the DRC

Kamilombe and Mwilu compare favourably to global cobalt peers

Total Measured and Indicated Resource⁽¹⁾



1) Source: SNL

2) Kamilombe grade based off KMDD005 50.87m at 0.49% Co. Mwilu grade based off MWDD008 42.85m at 0.39% Co

3) Vale only disclose reserve grade

4) Idaho Cobalt not operating

Cobalt DDH Drill Results Since 2016^(1,2)

Early drilling at Taruga highlights potential scale

- **UEX Corp – 858 tonnes of contained inferred cobalt resource⁽³⁾**
- **Azure Minerals – cobalt enrichment on surface, ~50m strike⁽⁴⁾**

Date	Hole or Sampling ID	Project	Country	Development Stage	Reporting Company	From (meters)	To (meters)	Interval (meters)	Depth (meters)	Cobalt Grade (%)	Cobalt Grade x Interval (%-m)
19/04/2018	WBC-012	Hidden Bay	Canada	Prefeas/Scoping	UEX Corp.	73.50	96.00	22.50	NA	1.780	40.050
19/04/2018	WBC-012	Hidden Bay	Canada	Prefeas/Scoping	UEX Corp.	77.00	85.00	8.00	NA	4.900	39.200
27/11/2017	DSA-03	Sara Alicia	Mexico	Target Outline	Azure Minerals Ltd.	0.60	26.80	26.20	0.52	1.260	33.012
31/08/2018	KMDD005	Kamilombe	Dem. Rep. Congo	Target Outline	Taruga Minerals Ltd.	5.80	56.67	50.87	5.80	0.490	24.926
9/04/2018	WBC-001	Hidden Bay	Canada	Prefeas/Scoping	UEX Corp.	27.10	58.00	30.90	NA	0.780	24.102
27/11/2017	DSA-03	Sara Alicia	Mexico	Target Outline	Azure Minerals Ltd.	15.50	21.85	6.35	13.42	3.570	22.670
9/04/2018	WBC-001	Hidden Bay	Canada	Prefeas/Scoping	UEX Corp.	46.00	56.50	10.50	NA	2.000	21.000
14/08/2018	MWDD008	Mwilu	Dem. Rep. Congo	Target Outline	Taruga Minerals Ltd	256.55	299.40	42.85	241.08	0.390	16.712
31/08/2018	KMDD005	Kamilombe	Dem. Rep. Congo	Target Outline	Taruga Minerals Ltd.	30.47	44.15	13.68	30.47	1.210	16.553
30/07/2018	KMDD001	Kamilombe	Dem. Rep. Congo	Target Outline	Taruga Minerals Ltd.	33.10	64.31	31.21	33.10	0.520	16.229
02/11/2018	CA18-001	Castle	Canada	Target Outline	Canada Cobalt Works	0.00	7.00	7.00	NA	2.28	15.960
16/07/2018	CZD0076B	West Musgrave	Australia	Prefeas/Scoping	Cassini Resources	NA	NA	77.80	NA	0.200	15.560
25/07/2018	18CCAD009	Carlow Castle	Australia	Reserves Development	Artemis Resources	47.00	53.50	6.50	40.70	2.320	15.080

1) Source: SNL as at Jan 2019

2) Sorted by cobalt grade x interval

3) See UEX Corp Mineral Resource Statement, West Bear Cobalt-Nickel Project Saskatchewan 7 Aug 2018

4) See Azure Minerals ASX announcement dated 31 May 2018: 58.8g/t Gold and 2.82% Cobalt Drilled at Sara Alicia

Mwilu & Kamilombe Projects – Next Steps

Fast track drilling programmes for early resource definition

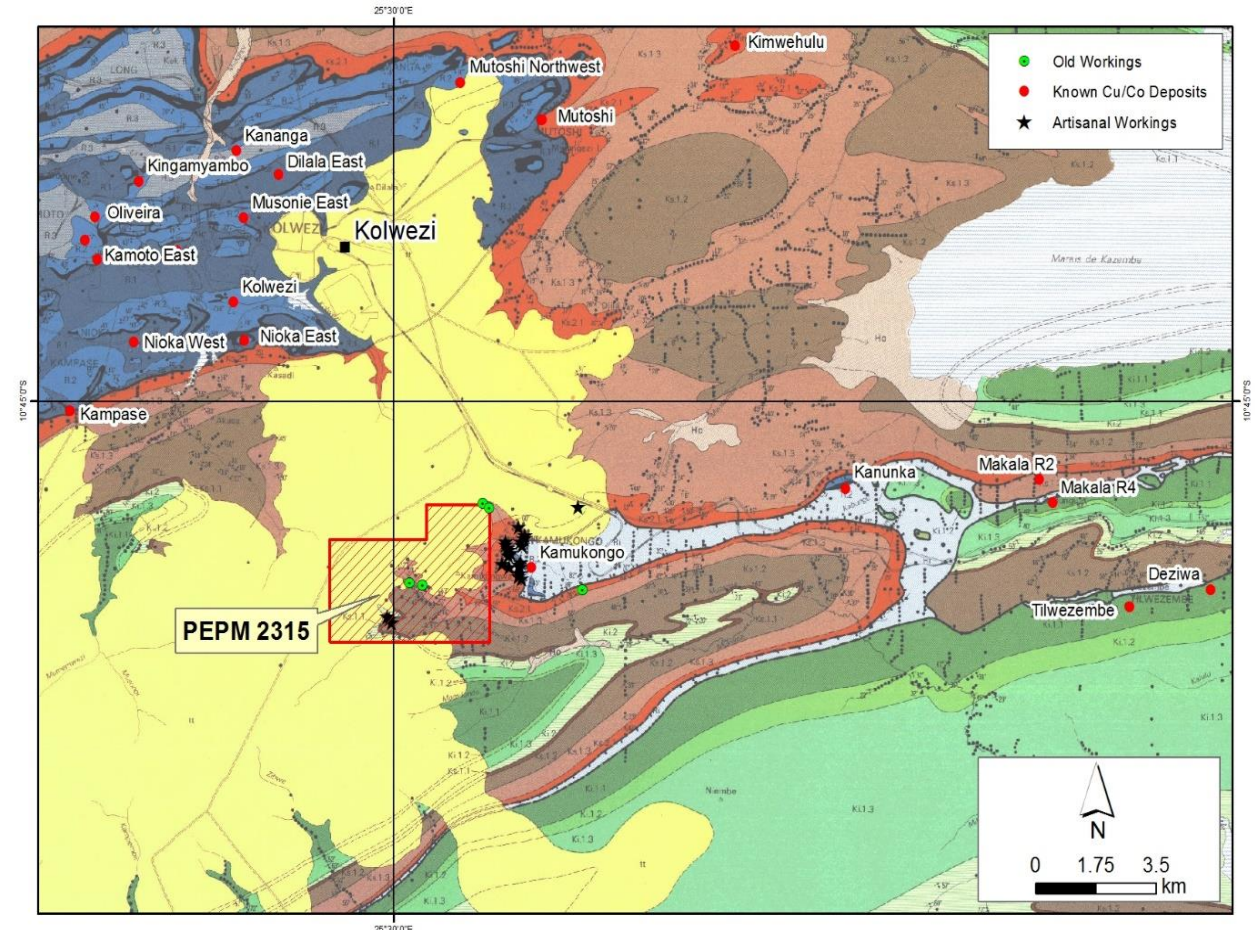
- **Complete legal due diligence at both Kamilombe and Mwilu**
- **Infill drilling on a 100 x 100m grid at Kamilombe**
- **Drilling at 100 x 50m centers on the high grade, steeply dipping zone at Mwilu**
- **Complete metallurgical studies at Kamilombe**
- **Metallurgical testwork to produce a cobalt concentrate from low grade material at Mwilu**
- **Commence shallow mining on positive metallurgical results**
- **Target maiden resource on both projects within 6 to 8 months of commencement of follow up drilling**



PEPM 2315 – Location and Geology

Early stage cobalt-copper project in highly prospective Roan belt

- Permit covers an area of 28.35km² and lies roughly 8km SSE of Kolwezi
- 85% of the property is overlain by recent soil cover
- Good potential for discovery of blind deposits
- Roan sediments are being mined commercially and by artisanal miners immediately to the east of concessions
- Permit in process of being converted to an Exploitation Permit
- Taruga to conduct auger/soil sampling programmes with follow up Air-Core drilling on successful conclusion of permit conversion

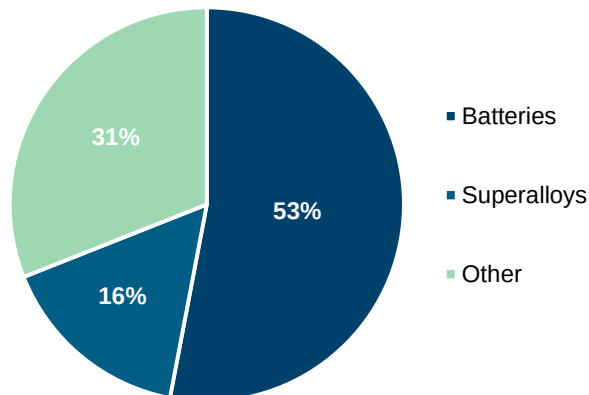


EV Battery Thematic

Cobalt expected to be a big winner

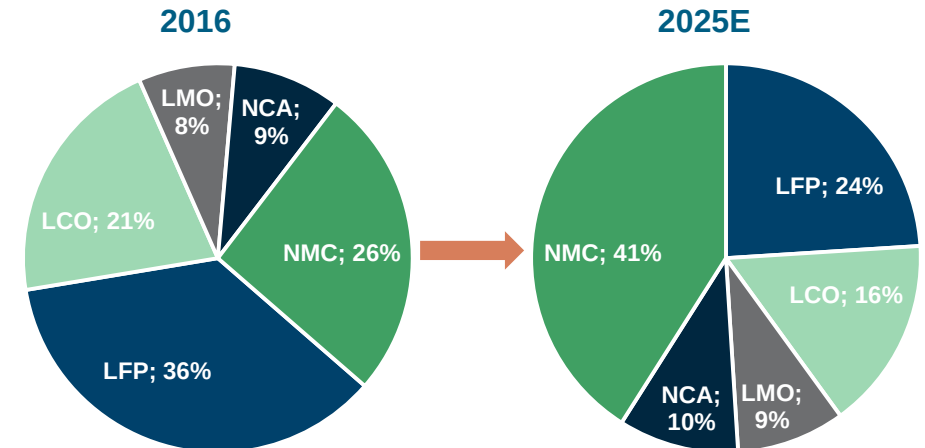
- NMC batteries favoured by the EV industry
- Cobalt concentrations need to be maintained in NMC batteries to stabilise nickel
 - High nickel concentration decreases thermal stability and lifespan of the battery
 - Suggested that c.20% of cobalt is needed for stabilisation

2017 Cobalt Usage⁽³⁾

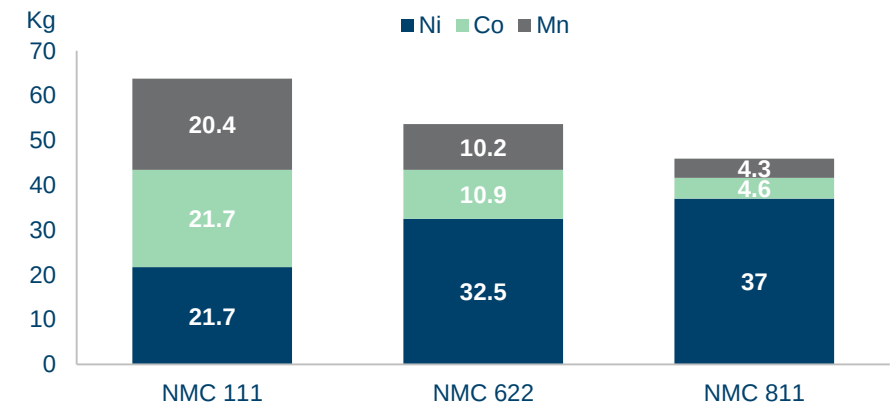


1. BMO Research: The Lithium Ion Battery and the EV Market, Feb 2018
 2. UBS Research: UBS Nickel – How We Can Supply the Electric Vehicle Market, Nov 2017
 3. Cobalt27 Investor Presentation

Cathode Active Material Allocation⁽¹⁾



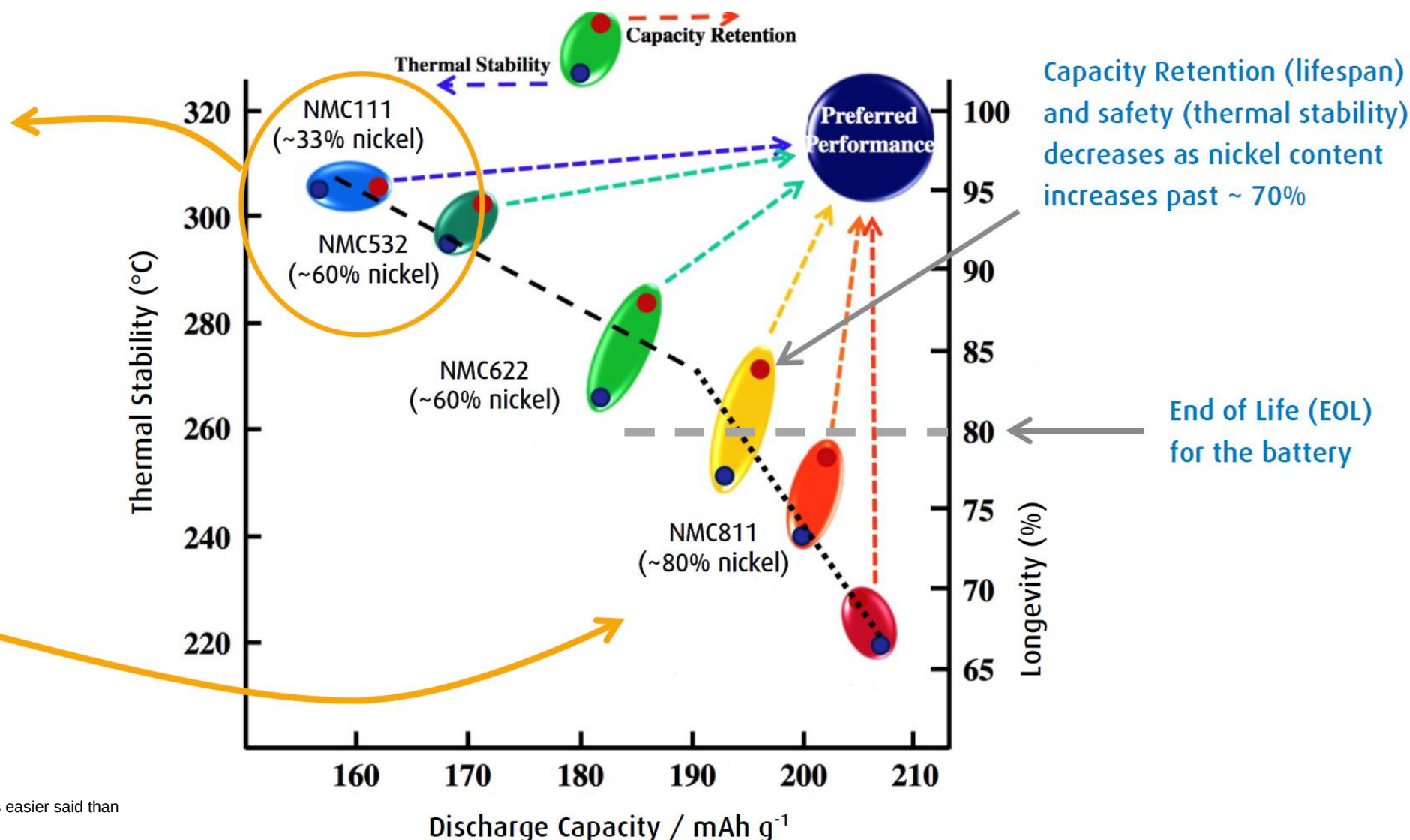
Minimum Cathode Materials for NMC Batteries⁽²⁾



Why Engineering out Cobalt is Not Easy⁽¹⁾

Current NMC chemistries used in BEVs have limited oxygen release and thus, lower chance of thermal runaway

Issues with cycle life, oxygen release, scale-up and catastrophic failure still need to be resolved if NMC811 is to be viable in EV applications



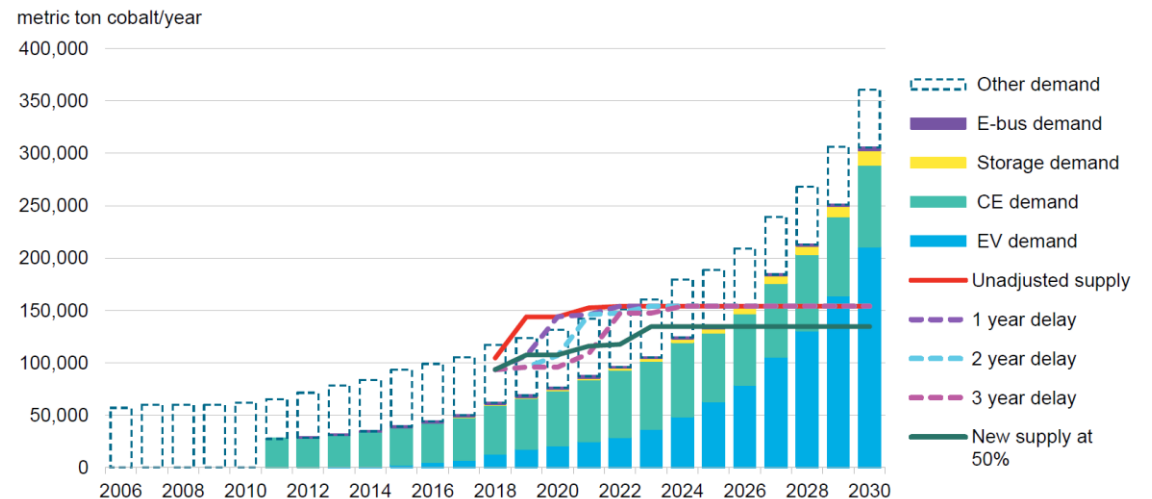
1. Source: BMO Research: Engineering out cobalt is easier said than done, Nov 2018

DRC: The Answer to the Cobalt Supply Dilemma

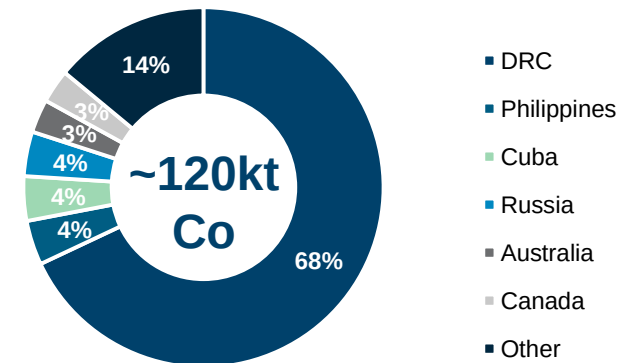
Future cobalt shortages are all but inevitable

- High demand driven by EV batteries, however supply is challenged
 - Mainly produced as a by-product of copper and nickel, with only 1% from primary mines
- Demand for cobalt in batteries is expected to grow at 14.5% per year to 2027 to more than 240,000t (double the size of the total market in 2017)⁽³⁾
 - Supply deficit is expected beyond 2022⁽³⁾
- Recent cobalt price drop a reflection of negative sentiment in the market rather than any drop in demand
 - China's Huayou Cobalt⁽⁴⁾ announced strong H1 shipments, with cobalt sales up 5% y/y and precursor material sales up 90% y/y

Scenarios for Refined Cobalt Supply & Demand⁽¹⁾



2017 Cobalt Production by Geography⁽²⁾



1. BNEF 15 Mar 2018. Unadjusted supply assumes that planned production capacity ramps up on schedule and at full capacity
 2. Cobalt 27 investor presentation
 3. Roskill
 4. Huayou Cobalt accounts for 10% of global refined cobalt production

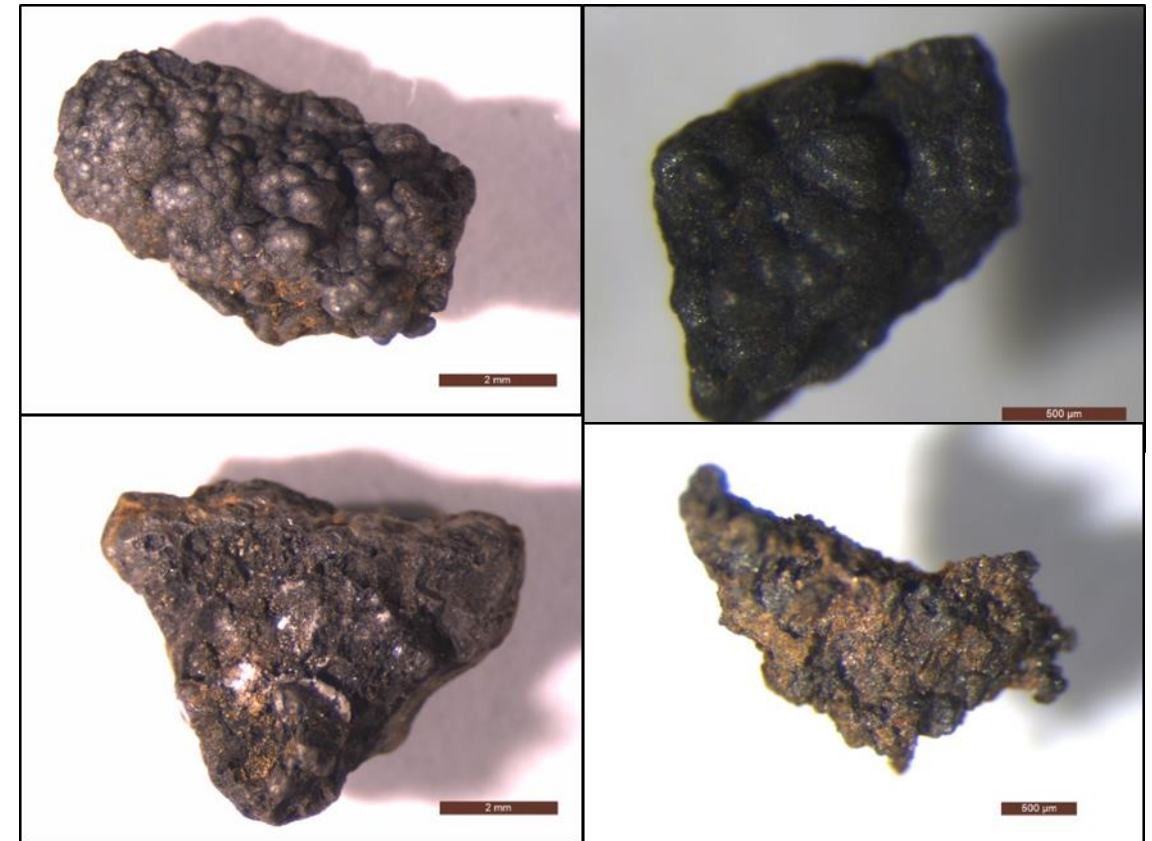


Appendix

Preliminary Metallurgical Studies – Kamilombe⁽¹⁾

DStrat Member - concentrate grades of 4% - 12% Co and Co recoveries of 59% - 70%

- Initial studies on DStrat stratigraphic unit – friable, sandy material & no crushing required
- Heterogenite is main cobalt mineral – can have varying amounts of Cu, Fe, Mn, V, Al and silica
- Head assays of 0.7% - 1.4% Co & 0.08% - 0.15% Cu
- Higher grade from coarser material – increase of 3.5% Co from 30% of the original mass and 70% Co recovery
- 59% recoveries and grade of 4.1% Co from shaking tables
- Magnetic susceptibility ineffective
- Confident of inexpensive processing facility for early shallow mining



1. Refer to ASX announcement dated 29 Jan 2019

Central African Copperbelt - Geology

Roan Sequence - host to worlds largest stratiform cobalt and copper deposits

- DRC hosts 60% of the worlds cobalt resources
- Cobalt-copper mineralisation traditionally within the lower Roan, Mine Group (R-2) series
- Discovery of Kamoa (**>25M tonnes of contained copper, Ivanhoe Resources**) highlights potential for new discoveries in overlying Mwashya (R-4) and Nguba Groups
- Good potential for new “blind” under cover copper-cobalt discoveries
- Mining from open pit and underground sources

Group	Subgroup	Member	Mineralised Zones	Deposits
Kundulungu		Grand Conglomerate		
Roan (R)	Mwashya (R4)	Upper Mwashya		Kipoi, Kamoa
		Lower Mwashya		
	Dipeta (R3)			
	Mines (R2)	CMN (Upper)		
		CMN (Lower)	Third orebody	Kambove
		S.D.S.		
		B.O.M.Z.		
		S.D.B.	Upper Orebody	Kamoto, Mutoshi
		R.S.C.		
		R.S.F.	Lower Orebody	Kolwezi (KOV), Tenke-Fugurume, Kamoto, Mutoshi
		D.Strat		
		Grey R.A.T.		
	R.A.T. (R1)			

Acquisition Agreement

The principal terms of the term sheet for Taruga to acquire a 60% interest in the Mwilu and Kamilombe projects are as follows:

Term	Status
1. Payment of US\$150,000 on signature	✓
2. TAR to conduct drilling programmes at Mwilu and Kamilombe during a ~6 month DD period	✓
3. On successful completion of legal DD, payment of US\$2M required by TAR	—
4. TAR will fund all exploration to the completion of a BFS within 3 years with 2 additional years if required	—
5. On successful completion of the BFS, TAR will make a pas de porte payment of US\$10M for each permit that it wishes to develop	—
6. Final payment of US\$20M for each project where TAR discovers resources in the M&I categories exceeding 250kt of contained Co or 1Mt of contained Cu at the conclusion of the BFS	—

Competent Person Statement & Disclaimer

The information contained in this presentation has been prepared by Taruga Minerals Limited (Company).

The information in this report that relates to exploration results is based on, and fairly represents information and supporting documentation prepared by Mr Mark Gasson, a Competent Person who is a Member of The Australasian Institute of Mining and Metallurgy. Mr Gasson is an Executive Director of Taruga Minerals Limited. Mr Gasson has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the “Australasian Code for Reporting of Exploration Results, Mineral Resource and Ore Reserves”. Mr Gasson consents to the inclusion in this report of the matters based on his information in the form and context in which it appears.

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