



**RIFT VALLEY
RESOURCES LIMITED**

A large new Magnet Metals discovery in Angola



**ARLINGTON PRE-DABA FEBRUARY 2018
(ASX:RVY)**

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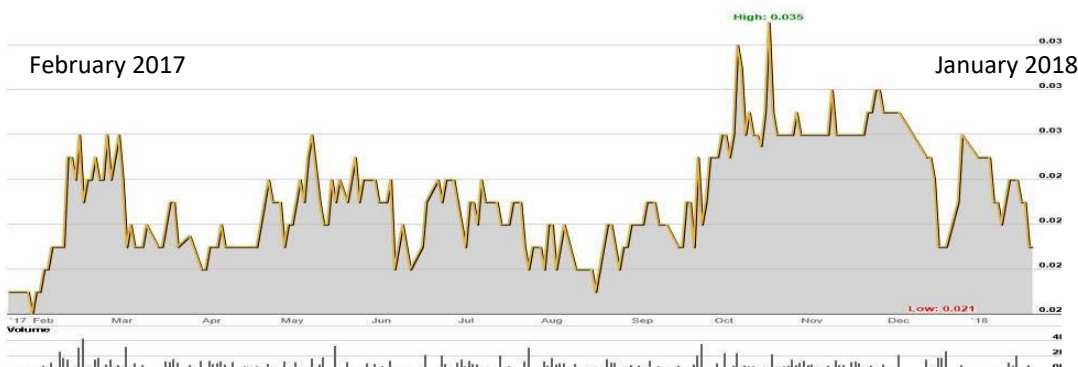
We advise in accordance with Australian Stock Exchange Limited Listing Rules 5(6) that the exploration results for the Ozango Project contained within this ASX Release is based on information compiled by Mr Dave Hammond who is a member of the Australian Institute of Mining and Metallurgy. Mr Hammond is a Director of Rift Valley Resources Ltd. Mr Hammond has sufficient experience relevant to the style of mineralisation and type of deposit under consideration to be qualified as a Competent Person as defined by the “Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserve” (the JORC Code, 2012 edition). Mr Hammond consents to the inclusion in this presentation of the matters based on his information in the form and context in which it appears.

The information in this release that relates to the Mineral Resource estimate for Longonjo RE Project is based on information compiled by Mrs. Heather King who is a who is a member of a ‘Recognised Professional Organisation’ (RPO) included in a list posted on the ASX website from time to time, specifically the South African Council for Natural Scientific Professions, and Mrs. King is registered as a Professional Natural Scientist (Pr. Sci. Nat.) Mrs. King is a full-time employee of Amec Foster Wheeler, consulting to Rift Valley Resources. Mrs. Heather King has sufficient experience that is relevant to the style of mineralisation, 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 Resources and Ore Reserves’. Mrs. King consents to the inclusion in the report of the matters based on his (or her) information in the form and context in which it appears.

Investment Highlights and Capital Structure



- Angola – a **new frontier opportunity** for hard rock mining
- **EVs** and **wind energy** to drive increased demand for **Magnet Metals**
- **China** to become a **net importer by 2025**
- Company focussed on developing a major new **Magnet Metal** discovery - the **Longonjo Project** (70% RVY) in Angola
- **Supportive government** as partners (Ferrangol 10%)
- Excellent project location and **infrastructure** supports potential for a practical, **reduced cost development**
- **High grade initial JORC Mineral Resource** (11.6M tonnes at 4.30% REO) open in all directions with excellent potential for expansion
- **Favourable mineralogy for processing with high NdPr grades**
- **Initial Scoping Study** results highly encouraging
- **Experienced** new Board and technical team



Corporate Overview

ASX Code	RVY
52 Week Avg.	\$0.026
Shares on issue	792m
Options (18) ex \$0.035- 52.5m /\$0.06- 45.3m (19) 10m	110m
Market Capitalisation (at \$0.027)	\$21.3m
Cash (as at 31/12/17)	\$1.5m
Top 20 shareholders	49%
Top 100 shareholders	78%

Majority Shareholders (as at 17 January 2018)

Merrill Lynch (Australia) Nominees Pty Ltd	15.4%
East Africa International Limited	4.6%
J P Morgan Nominees Australia Limited	2.7%
Vynben Pty Ltd	3.1%
Willowood Pty Ltd	2.9%
Citicorp Nominees Pty Ltd	2.3%
Pershing Nominees	2.2%
Total:	33.4%

Angola – a new frontier for mining



High residual prospectivity.....

- Archean granite greenstone and Neoproterozoic terranes similar to Brazil, West Africa, Western Australia
- Neighbours Namibia, Zambia and DRC host numerous world class mineral deposits
- Limited history of hard rock mining and closed to investment and exploration for over 35 years



Luanda skyline, 2017

....and the right time to invest

- Second largest oil producer in Africa and a major diamond producer
- Peace and stability established after end of civil war in 2002
- New York Convention - March 2017
- Newly elected President Hon. João Lourenço bringing reforms and pro foreign investment
- US\$400m plus Government funded airborne survey completed as one of several measures to encourage new mining investment
- Re-established infrastructure – Roads, Rail, Ports and Power
- 25% mining tax and 3% to 5% State royalty

Highly prospective and underexplored with opportunities to acquire high quality new projects in a jurisdiction actively encouraging mining development and now “open for business”

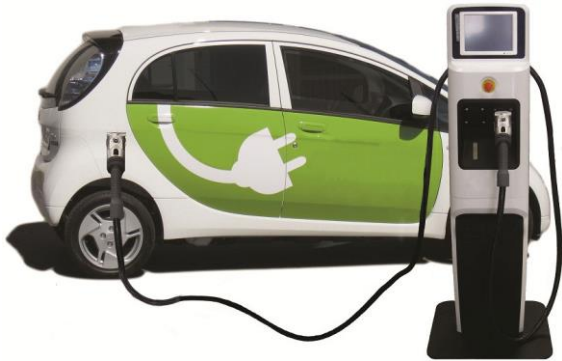
Why Magnet Metals now?



NdPr* demand set for growth driven by clean energy technologies

'3rd mover' advantage in reduced development costs and time

- NdPr is a key component in the manufacture of high strength permanent magnets used in **electric vehicles** (EVs), **wind turbines**, air conditioners, and many industrial applications



Plug in EV, **1.5kg NdPr**



Permanent magnet wind turbine. **120kg NdPr per MW**

- NdPr demand predicted to double by 2025. Supply shortfall expected from 2021¹.
- China**, Angola's largest trading partner, controls the NdPr market but analysts predict it will become a net importer by 2025¹
- China is investing and partnering in overseas rare earths projects



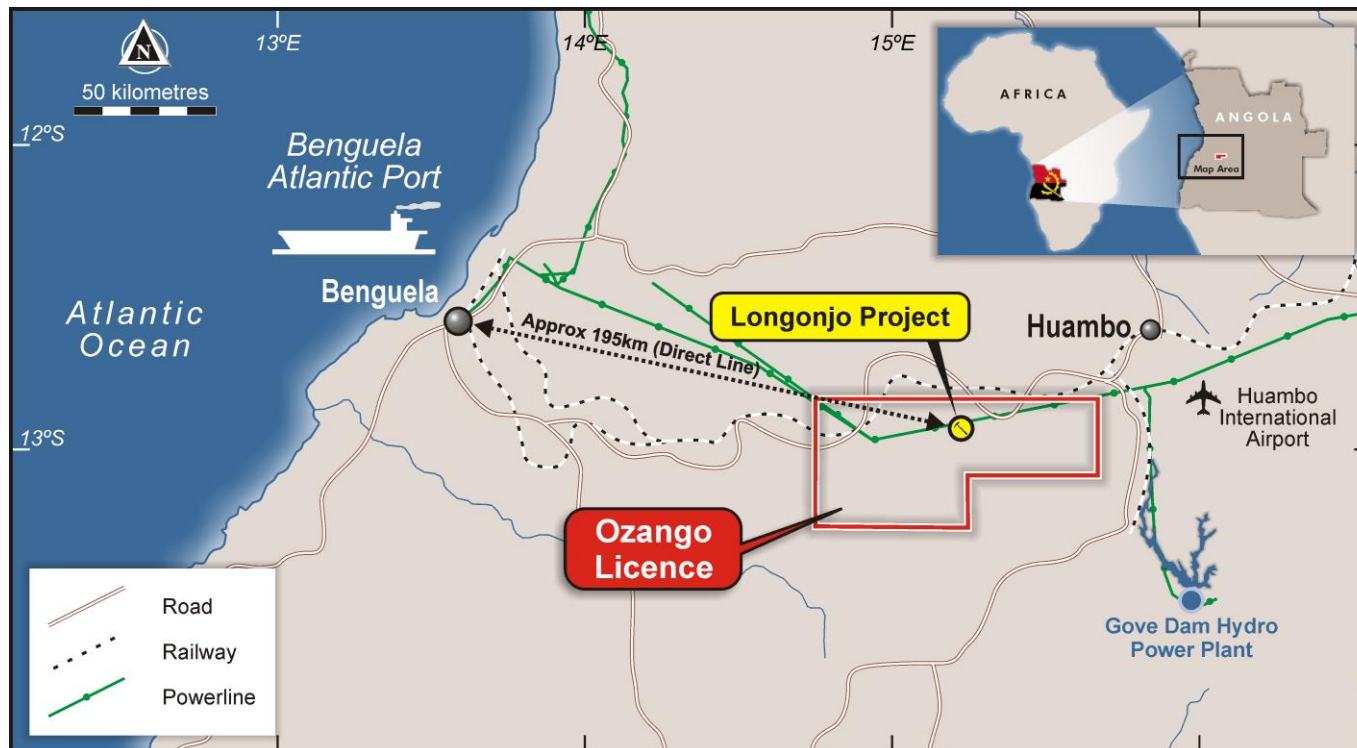
*NdPr = Neodymium-Praseodymium Oxide: the Magnet Metals

¹ Adamas Intelligence 2017

Ozango Licence and the Longonjo Project



- RVY: 70% owner of a 3,760km² licence
- 240km by road to deep water port at Benguela
- Company's focus is the development of the Longonjo Carbonatite Magnet Metals Project
- Additional potential for copper, gold and niobium with confirmed occurrences including drill intersections, underground workings and high tenor soil anomalies to be evaluated.
- Ferrongol (10%)
- Angolan partners (20%)



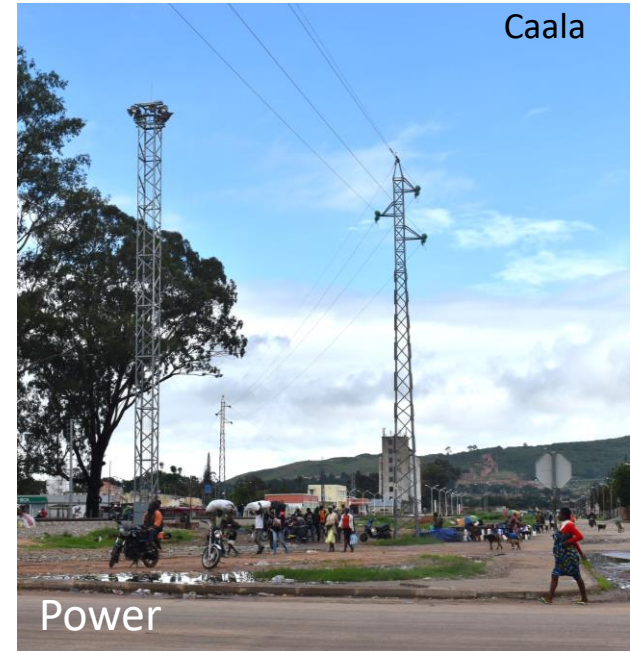
Infrastructure advantages



Key to the practical economic development of Longonjo is its enviable location close to existing transport and infrastructure

- Hydro power at Caala, 38km to the east
- Sealed National highway *and*
- Rail line (to Benguela Port) less than 5km from the Project
- Deep water sea port at Benguela 240km to west
- Airport at Huambo, 60km to east

The favourable location and existing infrastructure is expected to reduce both Capital and Operating costs



Maiden JORC Mineral Resource estimate* at 1% REO cut-off – September 2017

11.6 Mt at 4.30% REO[#] for 499,000t contained REO within the Weathered Zone
contained within:

44.7 Mt at 2.50% REO for 1,120,000t contained REO in the Total Mineral Resource

- **High grade** mineralisation occurs **from surface**
- Mineralisation **remains open** in all directions and at depth
- Rare earths contained within the most **commonly processed minerals**: monazite and bastnaesite
- Significant **potential to expand** current Mineral Resource to define globally significant deposit

Scoping Study – progress update December 2017¹

- Lead Engineers AMEC Foster Wheeler global mining and processing consultants
- Based on high grade, near surface Weathered Zone mineralisation
- Initial results encouraging and justify moving forward to advanced development studies
- Conventional “free dig” mining with a very low waste to resource strip ratio
- Metallurgical testwork to demonstrate the flowsheet is in progress

*See ASX Announcement “Maiden JORC Mineral Resource Estimate - Longonjo Project” of 26 September for further details

[#]REO= total rare earth oxide, the sum of La₂O₃, CeO₂, Pr₆O₁₁, Nd₂O₃, Sm₂O₃, Eu₂O₃, Gd₂O₃, Tb₄O₇, Dy₂O₃, Ho₂O₃, Er₂O₃, Tm₂O₃, Yb₂O₃, Lu₂O₃, Y₂O₃

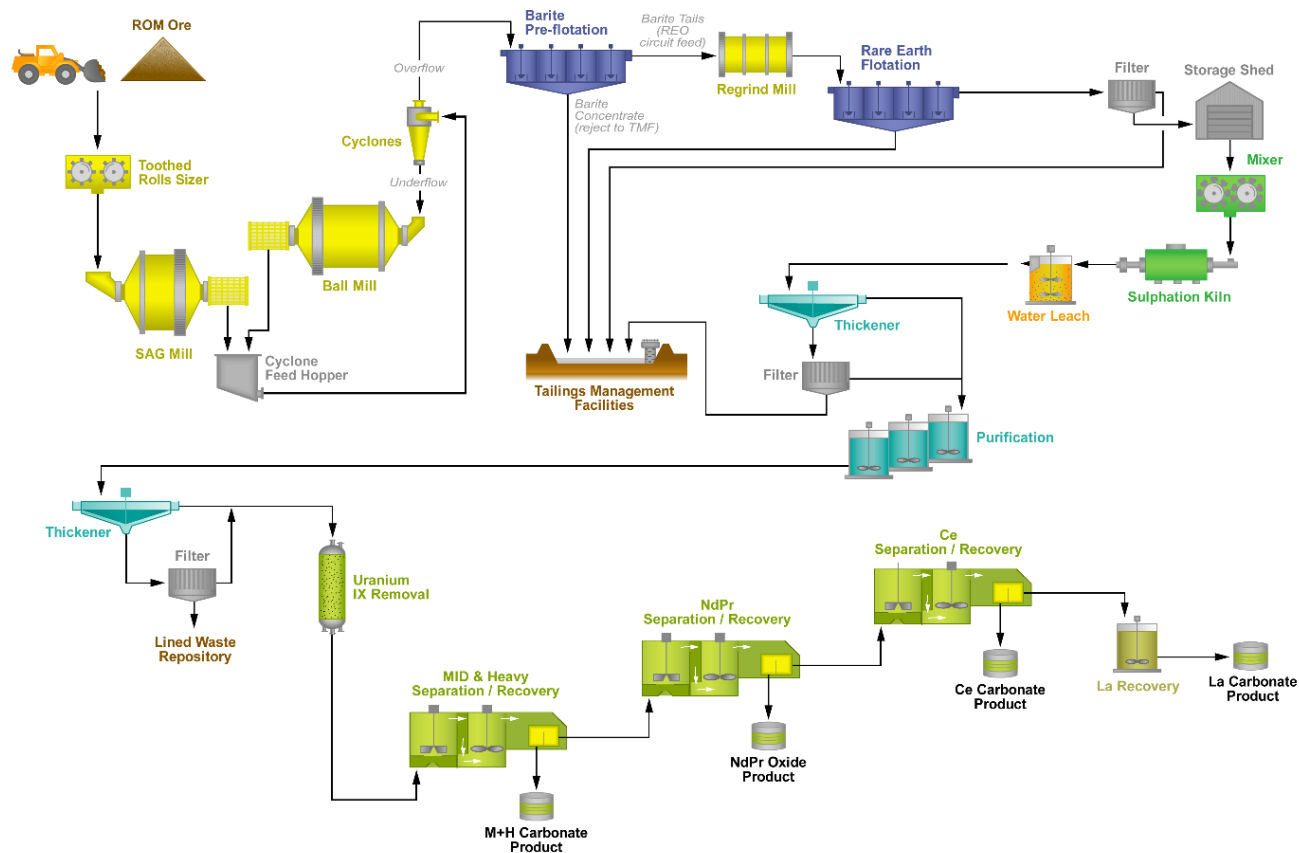
NdPr = Neodymium-Praseodymium Oxide: the Magnet Metals

¹ See ASX Announcement “Longonjo Magnet Metal Project Scoping Study Update” of 6 December 2017 for further details

Scoping Study Process Flowsheet



- Scoping Study flowsheet design includes production of **four high purity, separated rare earth products**
- **82% of potential product value** from NdPr oxide – aligned to Magnet Metal markets
- Hydrometallurgical flowsheet similar to that used by Lynas and planned for Arafura, Northern Minerals, Hastings Technology Metals

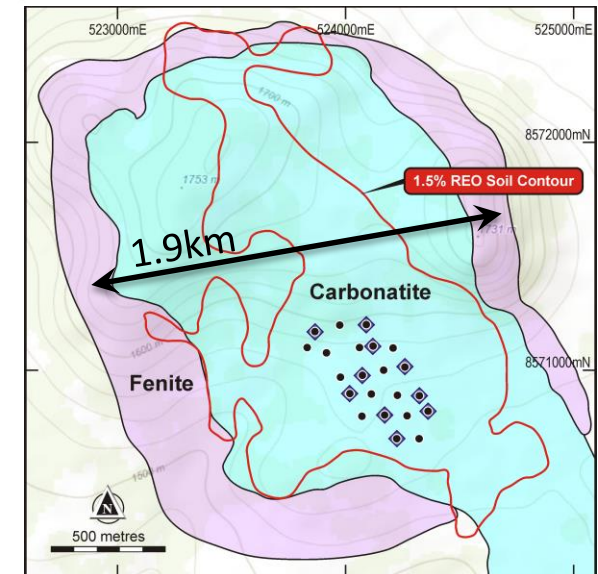
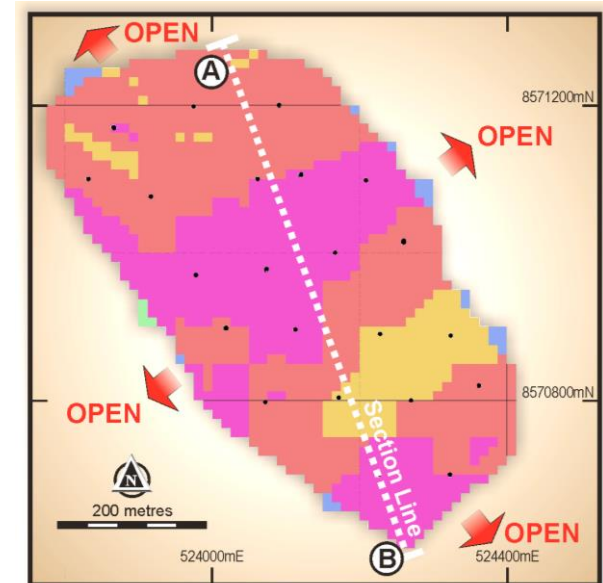
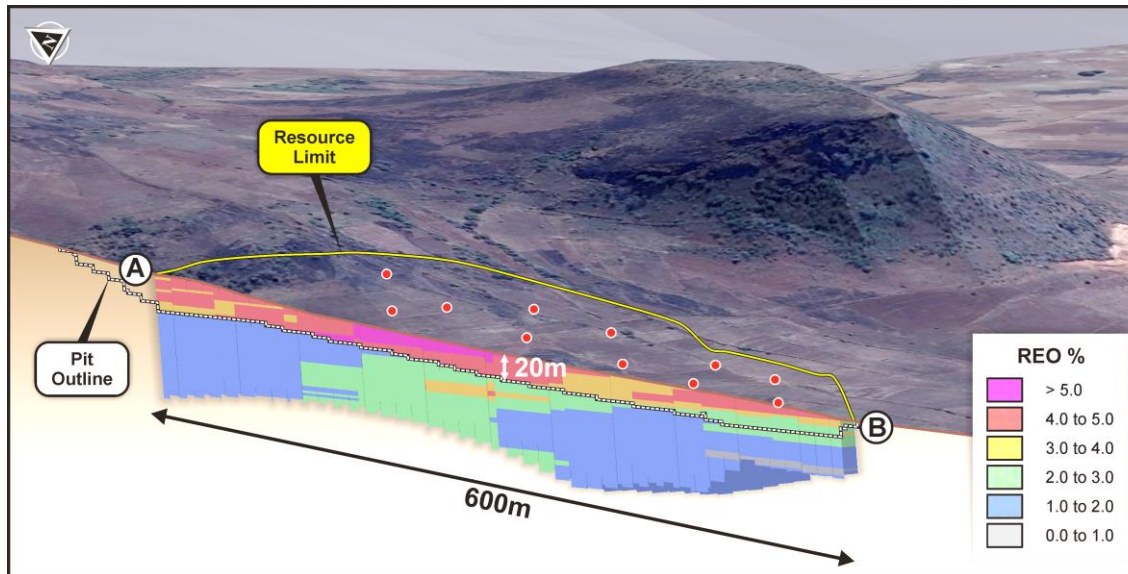


Mineral Resource Upside



- Current drilling tests just 14% of the area of the prospective Longonjo Carbonatite and high tenor soil anomaly
- Mineral Resource (11.6 Mt at 4.30% REO) open in all directions
- Additional potential for high grade fresh rock hosted RE and niobium mineralisation remains untested

Excellent potential to substantially expand the current Mineral Resource to define a globally significant high grade deposit

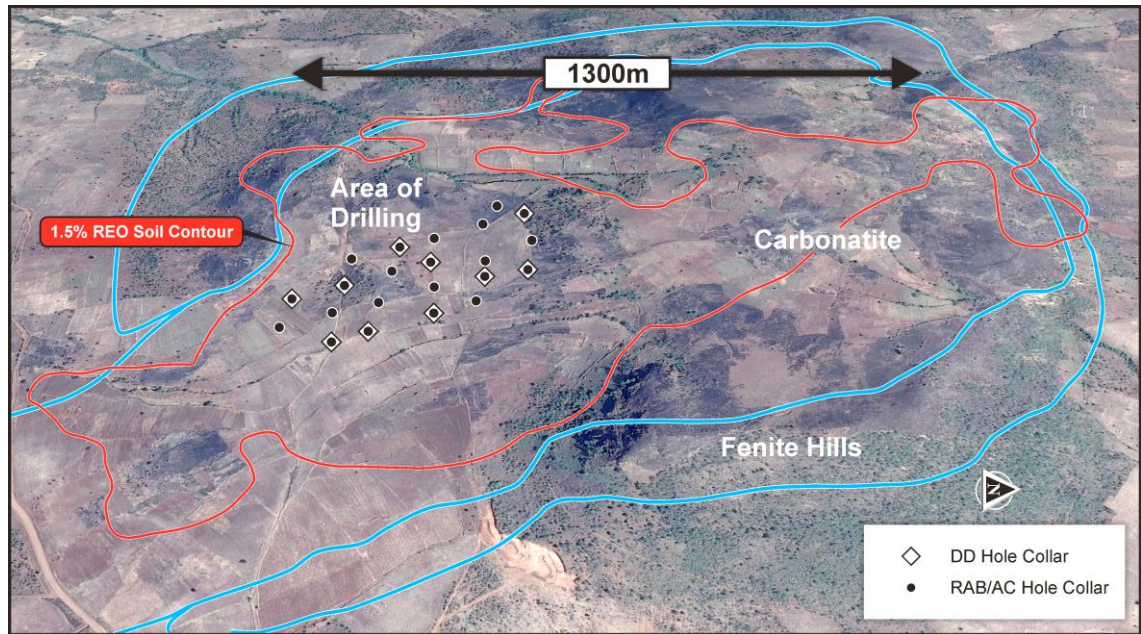


Longonjo: Path to Production



Summary steps to development

- Metallurgical studies to produce a high grade mineral concentrate
- Drilling Programs:
 - Upgrade Mineral Resource to JORC Indicated (area 650m x 350m)
 - Target immediate extensions to west, east and south (a further >3x's MRE area currently untested)
 - Exploration drill traverses in north to test RE's and Nb over a further 800m x 700m area
- Revised Mineral Resource
- Scoping Study – release initial financial analysis
- Follow-up infill drilling
- Metallurgical development
- Feasibility Studies and Ore Reserve
- Pilot Plants
- ESIA and permitting
- Off take and strategic partners



Potential for strong news flow in coming months building a long term valuable project

Experienced Board with a proven track record



A quality team with a record in financing and developing projects in Africa.....
.....and in the evaluation and metallurgical development of rare earth projects.

Mr Stephen Dobson – Executive Chairman

Over 25 years experience in global capital debt and equity markets, MD of Mirabaud securities Australia and leadership positions at Merrill Lynch & Co

Mr Dave Hammond – Executive Director and Chief Operating Officer

Geologist with over 25 years international experience including 7 years as Technical Director with Peak Resources Ngualla Rare Earth Project, Tanzania

Mr Mark Hohnen – Non Executive Director

Founding Executive Chairman of Kalahari Resources Plc listed on AIM in 2006 for £15million and subject to a £651million takeover in 2012.

Mr Neil MacLachlan – Non Executive Director

Internationally experienced Investment Banker, Funds Manager and Public Company Director. Director of Kalahari Minerals Plc and also Extract Resources which was also subject to a takeover, for US\$2.2billion in 2012.

Mr Akram Aziz – Non Executive Director

Akram is a Tanzanian National , Founder of Caspian Limited the largest mining contractor in Tanzania

Gavin Beer B.Sc. AusIMM (CP) Metallurgist (consultant)

Rare earth metallurgical specialist consultant with over 25 years experience in technical & operational roles. Responsible for the development of flow sheets for 8 rare earth projects including for Arafura and Peak Resources.



Stephen Dobson



Dave Hammond



Mark Hohnen



Neil MacLachlan



Akram Aziz

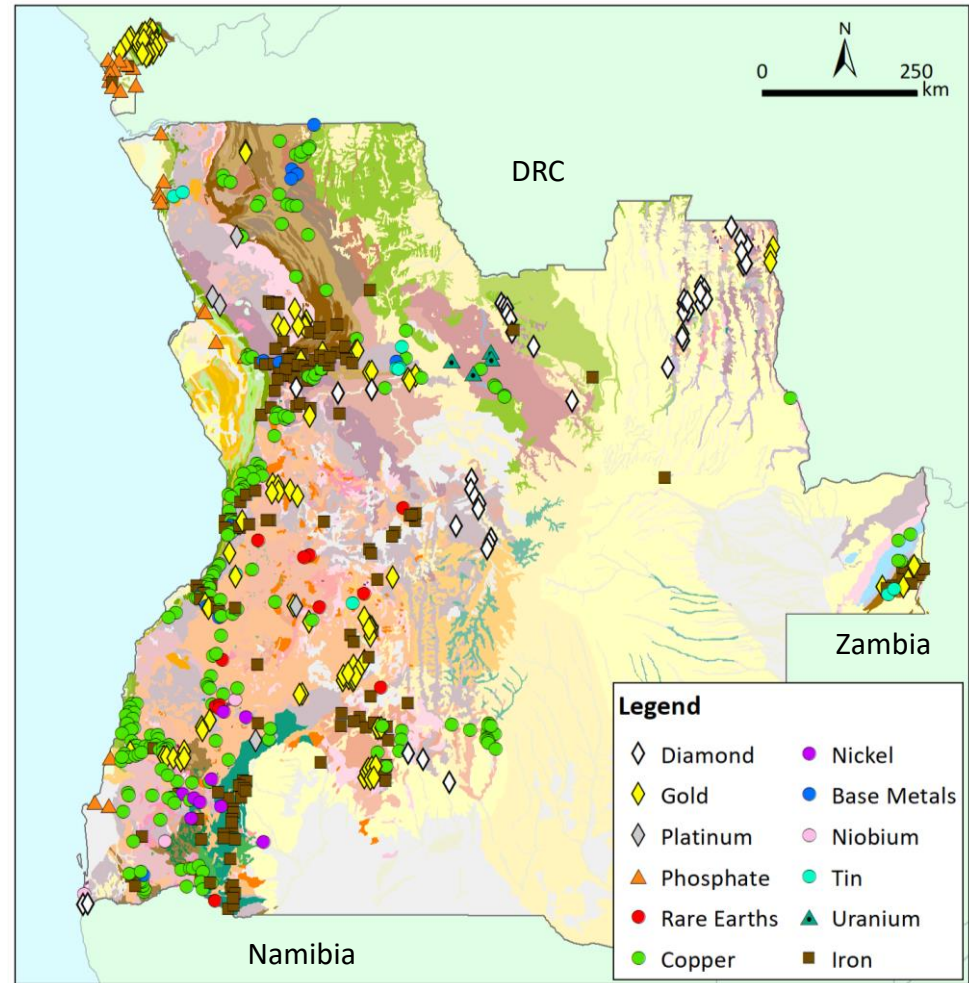


Gavin Beer

Investment Highlights



- Company focus on the Longonjo Magnet Metal Project in Angola
- EV's and green energy to drive increased demand
- China forecast to become a net importer by 2025
- Longonjo - potential to be world class
- Excellent location and infrastructure for project development
- Deposit geology drives lower cost opportunity
- Mining supportive jurisdiction with China as the major trading partner
- Experienced new Board to drive development
- A strategic early position in Angola, the new frontier (like walking into Ghana in the '80's)
- Potential to acquire additional high quality projects in 2018



Geology and Mineral Occurrences of Angola

Appendices

Longonjo Mineral Resource (JORC 2012)



Maiden Mineral Resource estimate completed September 2017:

Weathered Zone Inferred Mineral Resource estimate at a 1% REO grade lower cut:

TREO % Cut-off	Million Tonnes	Grade (REO %)			Contained REO (Tonnes)		
		TREO	LREO	HREO	TREO	LREO	HREO
1.0	11.6	4.30	4.18	0.13	499,000	485,000	15,000

Total Mineral Resource Inferred Mineral Resource estimate at a 1% REO grade lower cut:
(includes Weathered Zone Mineral Resource)

TREO % Cut-off	Million Tonnes	Grade (REO %)			Contained REO (Tonnes)		
		TREO	LREO	HREO	TREO	LREO	HREO
1.0	44.7	2.50	2.43	0.08	1,120,000	1,086,000	35,000

REO, or total rare earth oxide, is the sum of La_2O_3 , CeO_2 , Pr_6O_{11} , Nd_2O_3 , Sm_2O_3 , Eu_2O_3 , Gd_2O_3 , Tb_4O_7 , Dy_2O_3 , Ho_2O_3 , Er_2O_3 , Tm_2O_3 , Yb_2O_3 , Lu_2O_3 and Y_2O_3 . Light rare earths are La_2O_3 to Nd_2O_3 with heavy rare earths being Sm_2O_3 onwards.

(See ASX Announcement “Maiden JORC Mineral Resource estimate – Longonjo Magnet Metals Project” of 26 September 2017 for further details)

The Mineral Resource estimate is classified as Inferred and was prepared by Heather King of AMEC Foster Wheeler, a competent person as defined by the JORC Code 2012 and is reported in accordance with the JORC Code and Guidelines 2012).

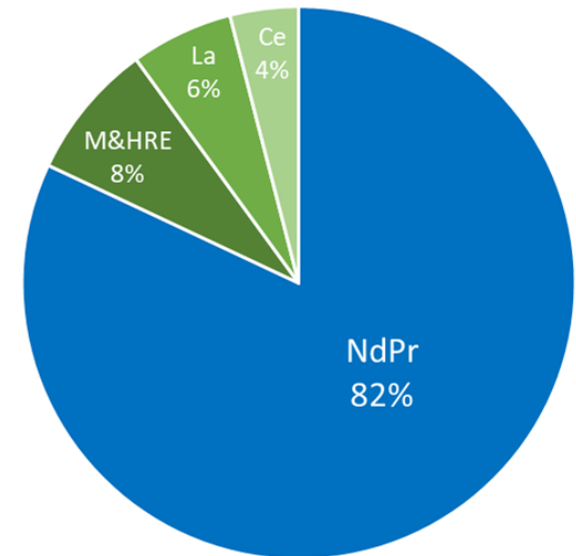
Longonjo Rare Earth Distribution and Value split



Distribution and relative proportions of individual rare earths in the bulk composite and four planned products:

Rare Earth Oxides		REO Grade (%)	% of Total REO	% of Total REO in Product Split
Lanthanum	La ₂ O ₃	1.061	26.8	26.8
Cerium	CeO ₂	1.937	48.9	48.9
Praseodymium	Pr ₆ O ₁₁	0.192	4.85	19.6
Neodymium	Nd ₂ O ₃	0.584	14.7	
Samarium	Sm ₂ O ₃	0.067	1.69	4.8
Europium	Eu ₂ O ₃	0.015	0.38	
Gadolinium	Gd ₂ O ₃	0.031	0.79	
Terbium	Tb ₄ O ₇	0.003	0.08	
Dysprosium	Dy ₂ O ₃	0.013	0.32	
Holmium	Ho ₂ O ₃	0.002	0.05	
Erbium	Er ₂ O ₃	0.004	0.10	
Thulium	Tm ₂ O ₃	0.000	0.01	
Ytterbium	Yb ₂ O ₃	0.002	0.005	
Lutetium	Lu ₂ O ₃	0.000	0.01	
Yttrium	Y ₂ O ₃	0.051	1.29	
Total REO*	REO	3.964	3.96	100

Relative value contributors by product type and constituent REO's



Relative value of contained REO's based on Asian Metals prices December 2017 and Longonjo's planned products REO distribution after processing

Source: REO distribution from analysis of the bulk sample selected for metallurgical testwork

Cassenha Hill Copper – Gold, Ozango Project



Oxide copper at surface, encouraging results from drilling, channel sampling of underground workings and surface trenches and soil sampling

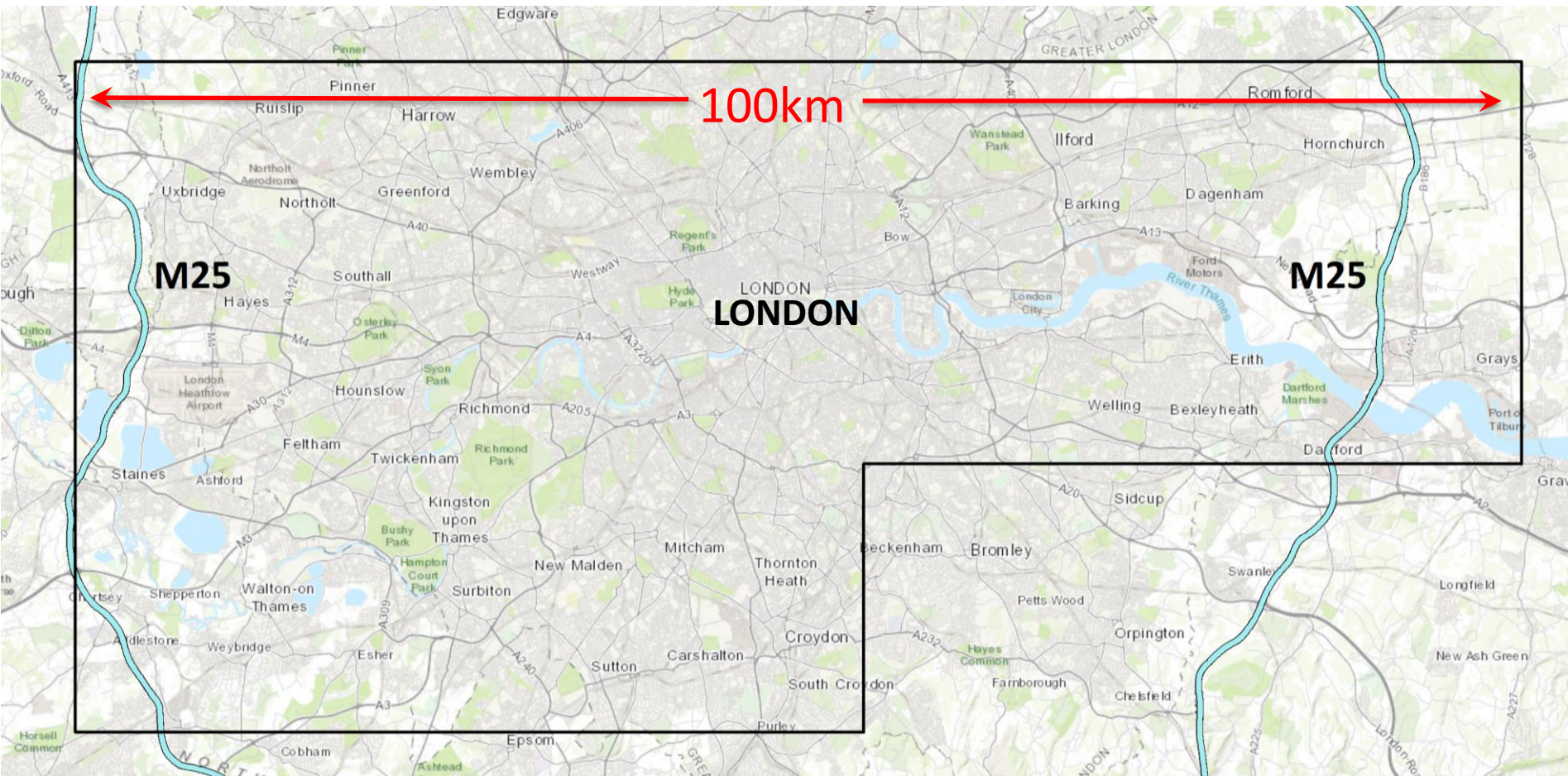


Ozango Project – A large regional position



The Ozango Licence (RVY: 70%) to scale over Greater London, UK

3,670km² strategically located over virtually unexplored prospective Proterozoic geology



Ozango Project Licence area shown to scale over Greater London and the M25 ring road (blue)

Ozango – Regional Exploration



Priority target areas identified for gold, base metals, rare earths and lithium
Assay results from initial follow-up stream sediment samples pending

