



ASX: DY6

An Emerging Supplier of **Heavy Rare Earths & Niobium**

66	162.500	65	158.925	41	92.906
Dy		Tb		Nb	
Dysprosium		Terbium		Niobium	

DY6 Project Update

RIU Conference 22-23 November 2023

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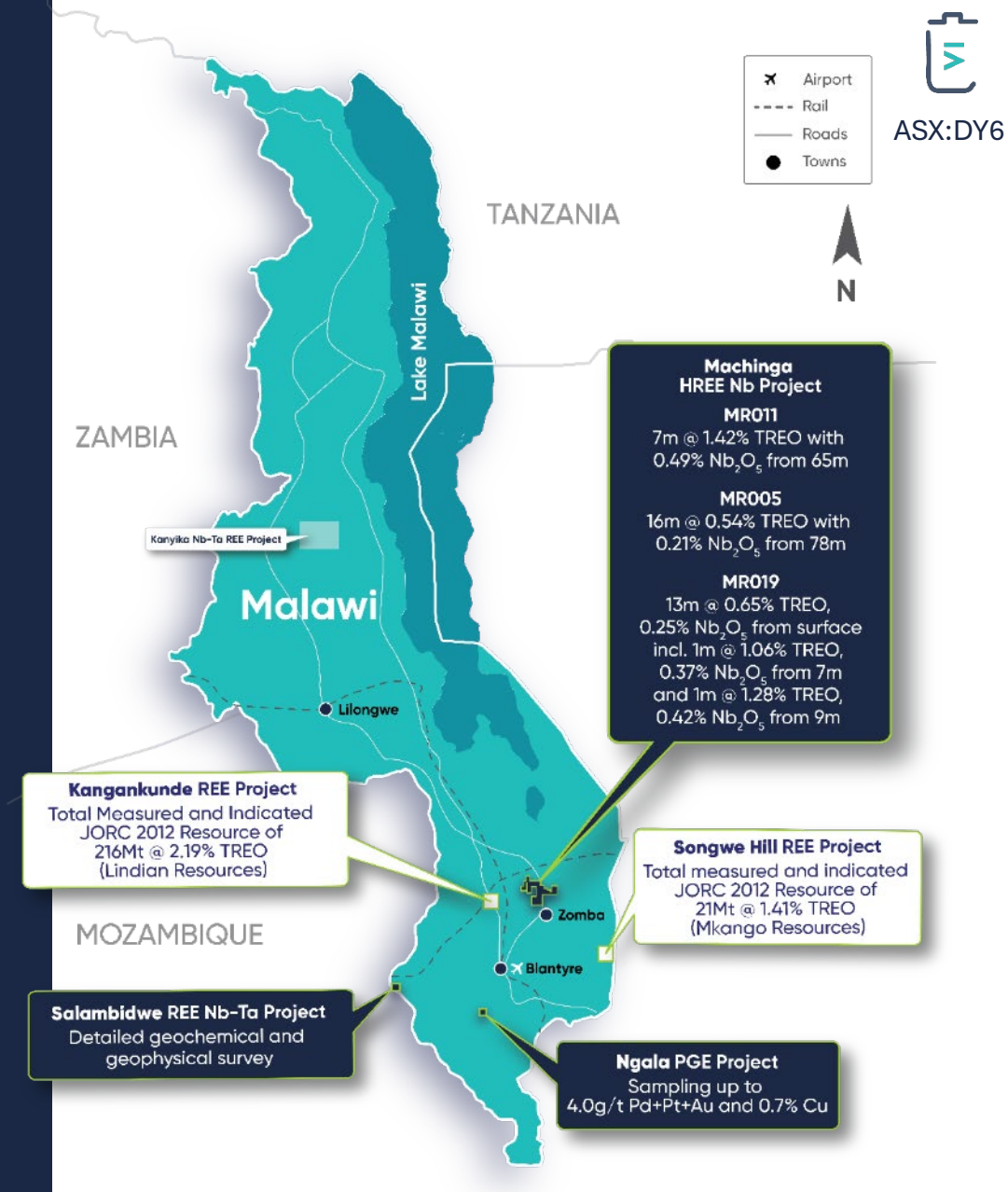
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Competent Person Statement

The information in this presentation that relates to Exploration Results is based on information compiled by Allan Younger who is a Member of the Australasian Institute of Mining and Metallurgy. Mr Younger has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking 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'. Mr Younger consents to the inclusion in the presentation of the matters based on his information in the form and context in which it appears.

Project Overview

- 100% owner of 3 highly prospective critical metals projects in Southern Malawi, a proven region for hosting economic REE deposits
- **Machinga HREE-Nb**
 - Completion of maiden drilling program for 4,543m
 - Project area recently increased to 197km²
- **Salambidwe REE-Nb**
 - Comprehensive geochemical and geophysics program underway at Salambidwe REE Project
- **Ngala Hill Pd-rich PGEs, Cu & Ni**
- Projects are in the Chilwa Alkaline province of Southern Malawi and consist of alkali granites, Nepheline Syenite and numerous carbonatite complexes



Corporate Snapshot

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CAPITAL STRUCTURE*

\$0.093

ASX Share Price

58.5M

Shares on Issue

\$5.4M

Market Cap

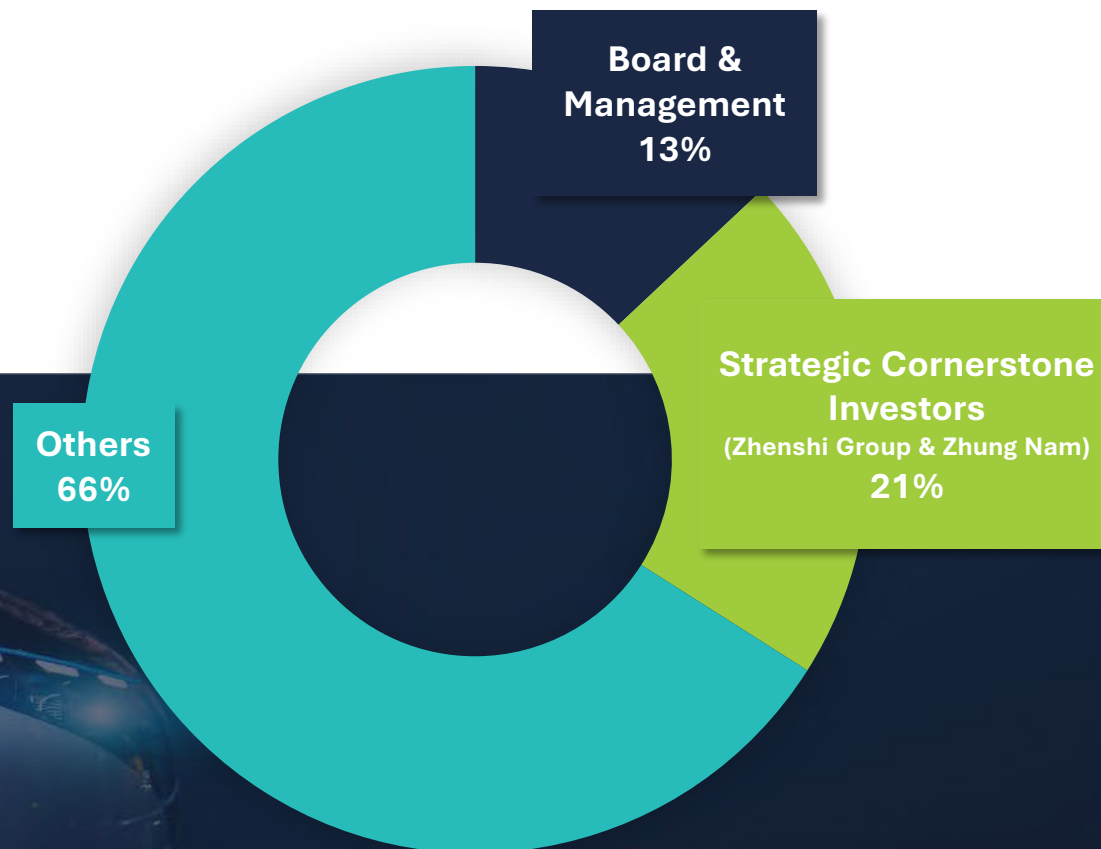
\$4.7M

Cash

\$0.74M

Enterprise Value

SHAREHOLDERS*



66 162.500
Dy
Dysprosium

65 158.925
Tb
Terbium

41 92.906
Nb
Niobium

*9,000,000 Options and 5,300,000 Performance Rights on issue

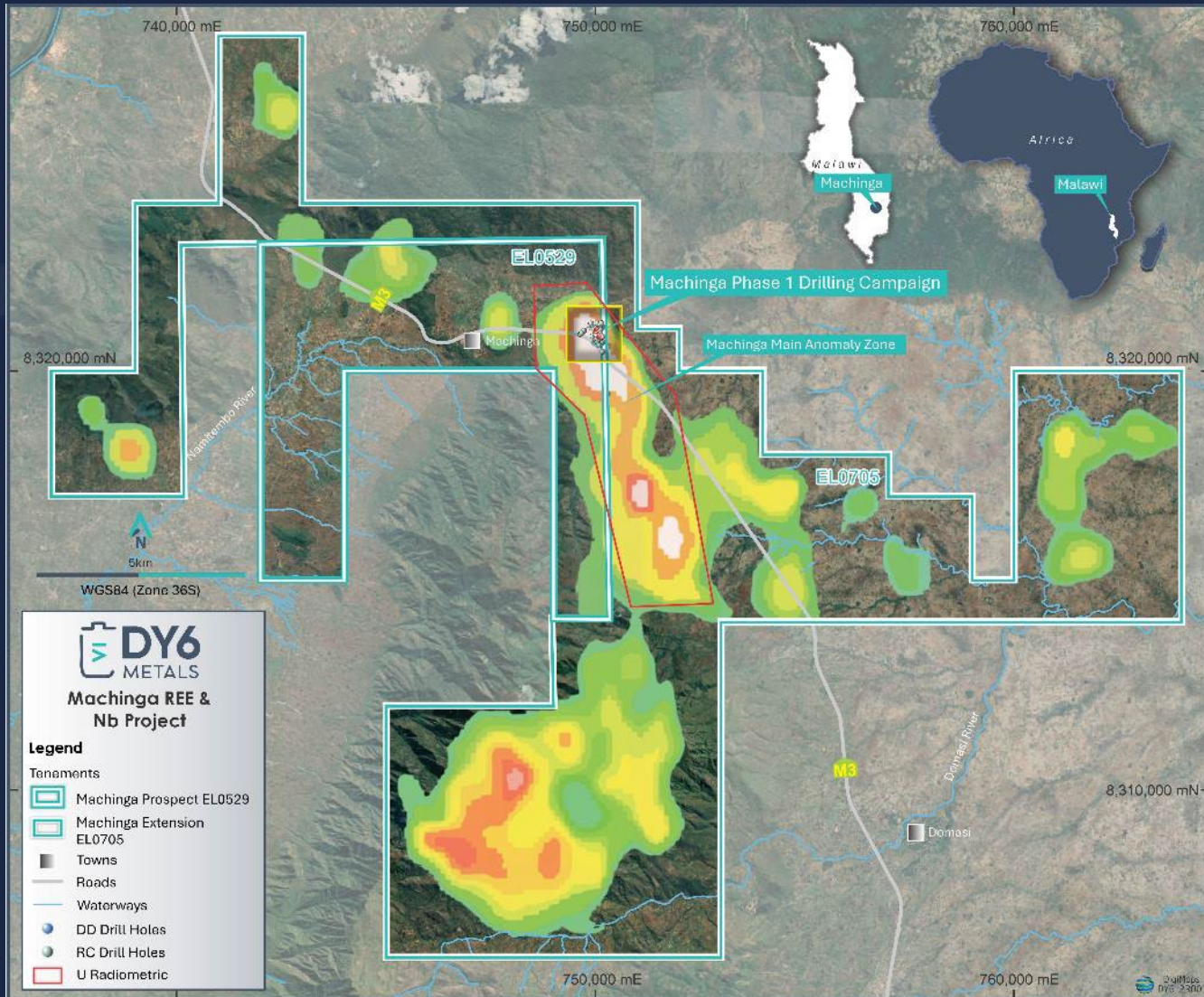
*Cash at 30 September 2023 and share price at 17 November 2023

22 November, 2023

Machinga Drilling



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- Drilling program targeted the Machinga main northern anomalous zone following 260 soil sample program
- RC drill hole program within EL0529 followed historic drill results for 4,000m
- Successful completion of maiden drilling program for 4,543m at **Machinga HREE and Nb project**
- Machinga REE mineralised system contains elevated Dy & Tb (~3.7% of TREO)*, essential minerals for the EV traction motor

TREO = Total Rare Earth Oxides – La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Y Oxide

HREE = Heavy Rare Earth Oxides – Tb, Dy, Ho, Er, Tm, Yb, Lu, Y Oxide

$DyTb:TREO = (Dy+Tb)/TREO * 100$

$MREO:TREO = (Nd+Pr+Dy+Tb)/TREO * 100$

*Average basket of rare earths of all DY6 RC drill assays @ > 0.5% TREO

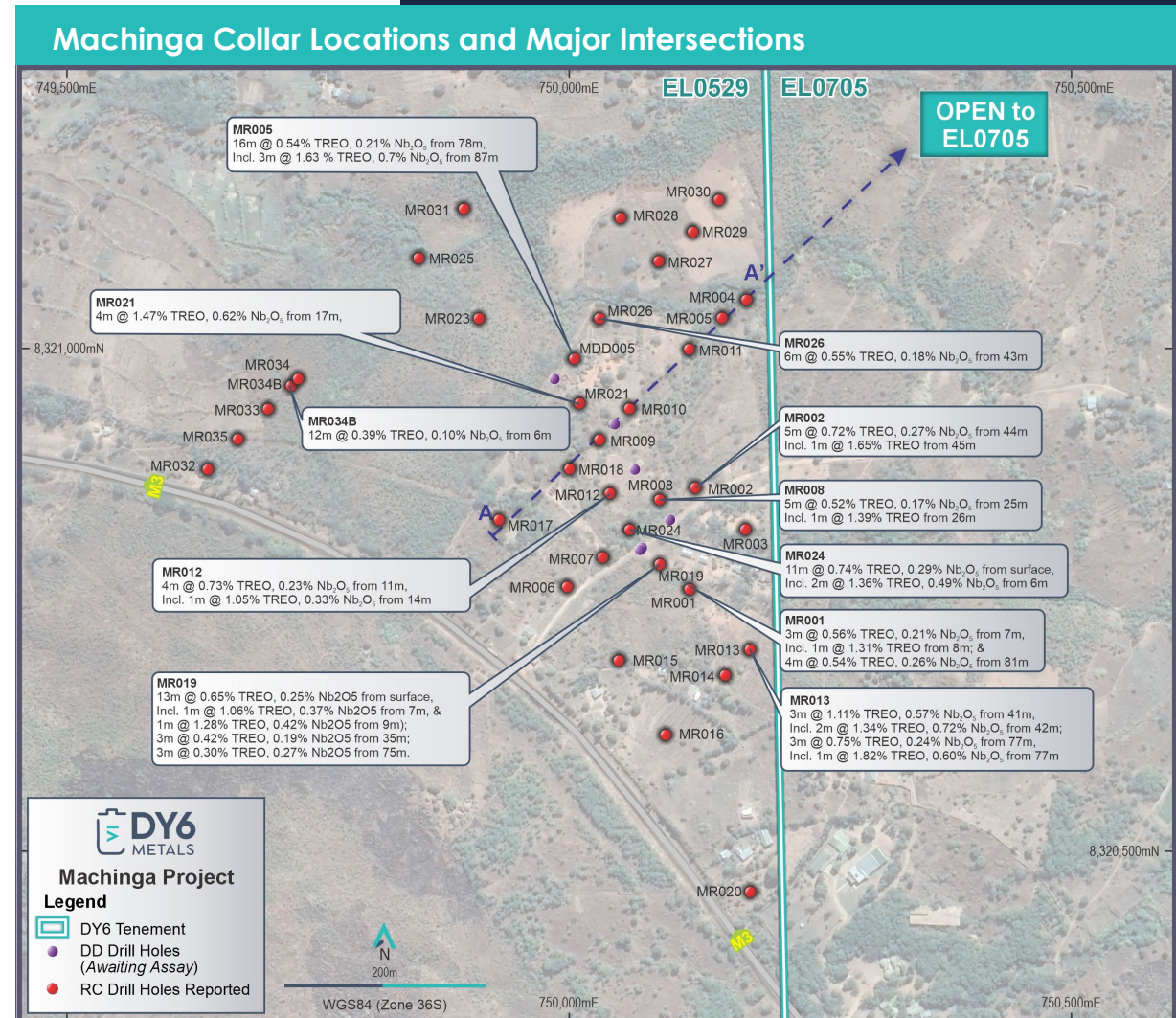
22 November, 2023

Machinga HREE-Nb: Phase 1 Drilling Completed



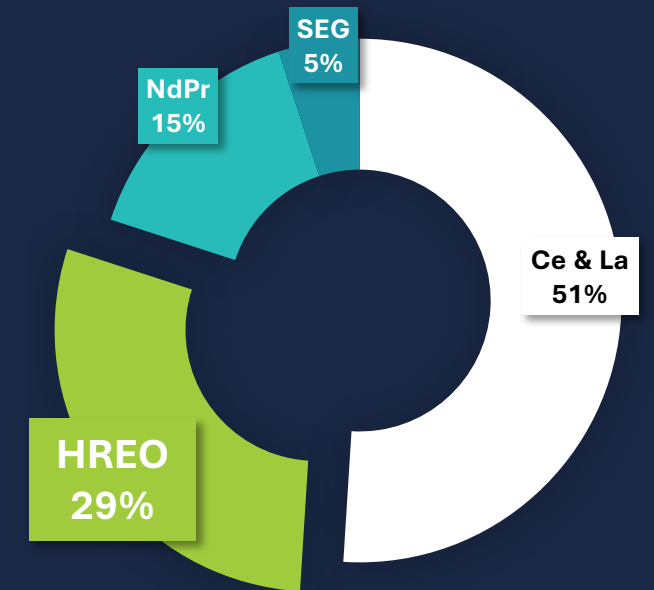
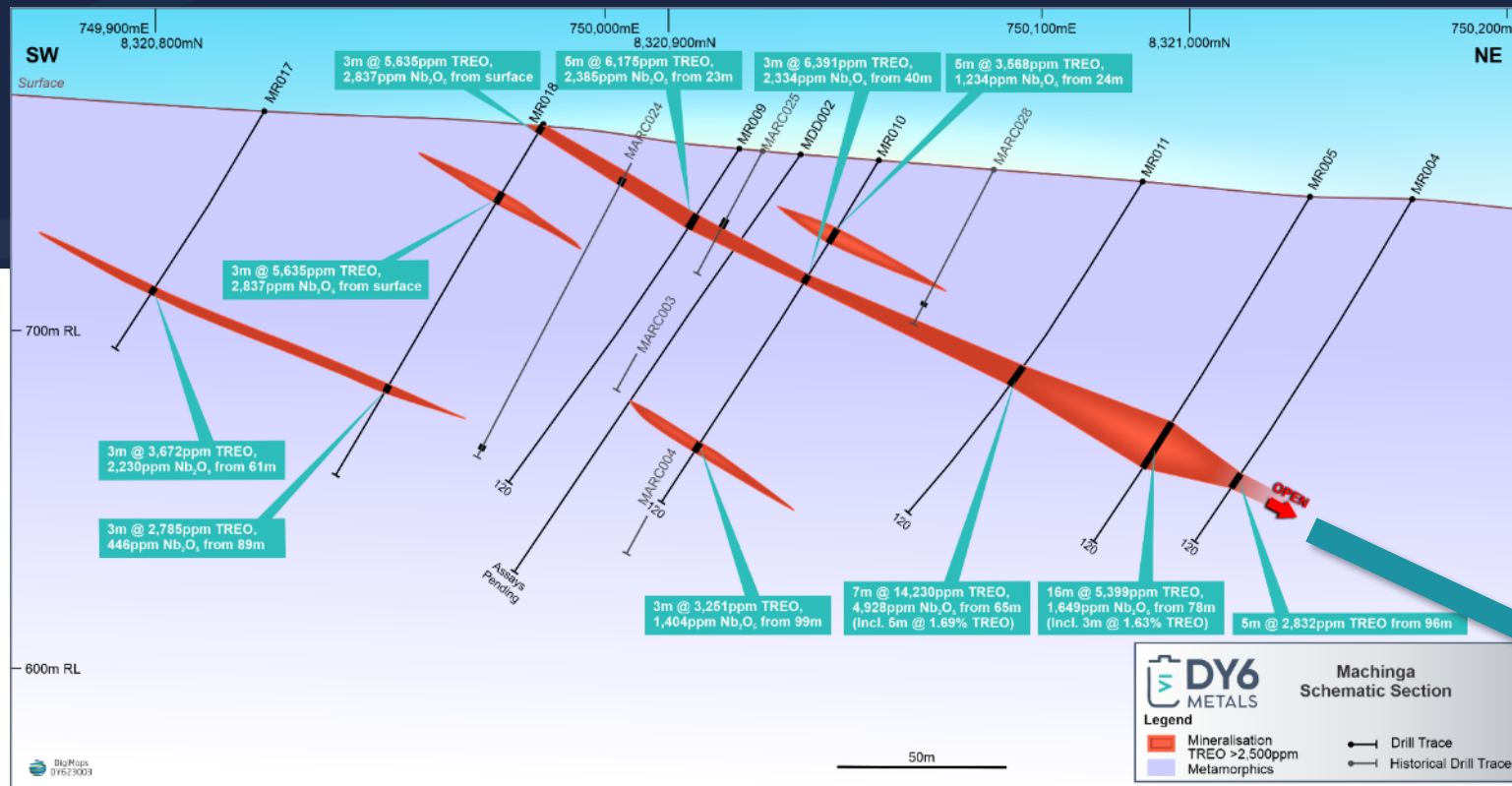
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- **High grade HREE-Nb results** confirmed from 3,643m RC drill holes within EL0529 and consistent with Globe historic drill results for 4,000m
- Significant assay results include:
 - 13m @ 0.65% TREO, 0.25% Nb from surface; incl. 1m @ 1.06% TREO, 0.37% Nb from 7m, and 1m @ 1.28% TREO, 0.42% Nb from 9m (MR019)
 - 7m @ 1.42% TREO with 0.49% Nb from 65m (MR011)
 - 16m @ 0.54% TREO with 0.21% Nb from 78m, incl. 3m @ 1.63% TREO, 0.7% Nb from 87m (MR005)
- In addition to HREE enrichment, exhibit high Nb and Zr
- **Widespread HREE mineralisation** - potential to extend into newly granted licence area (EL0705)



Machinga Intersections

Cross section A-A' demonstrates excellent continuity with radiometrics predicting the mineralised higher-grade zones with accuracy during drilling



Results confirm elevated high value:

~3.7% DyTb of TREO

~18.7% MREO of TREO

Open to the NE
into licence
EL0705

TREO = Total Rare Earth Oxides – La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Y Oxide

HREO = Heavy Rare Earth Oxides – Tb, Dy, Ho, Er, Tm, Yb, Lu, Y Oxide

DyTb:TREO = (Dy+Tb)/TREO * 100

MREO:TREO = (Nd+Pr+Dy+Tb)/TREO * 100

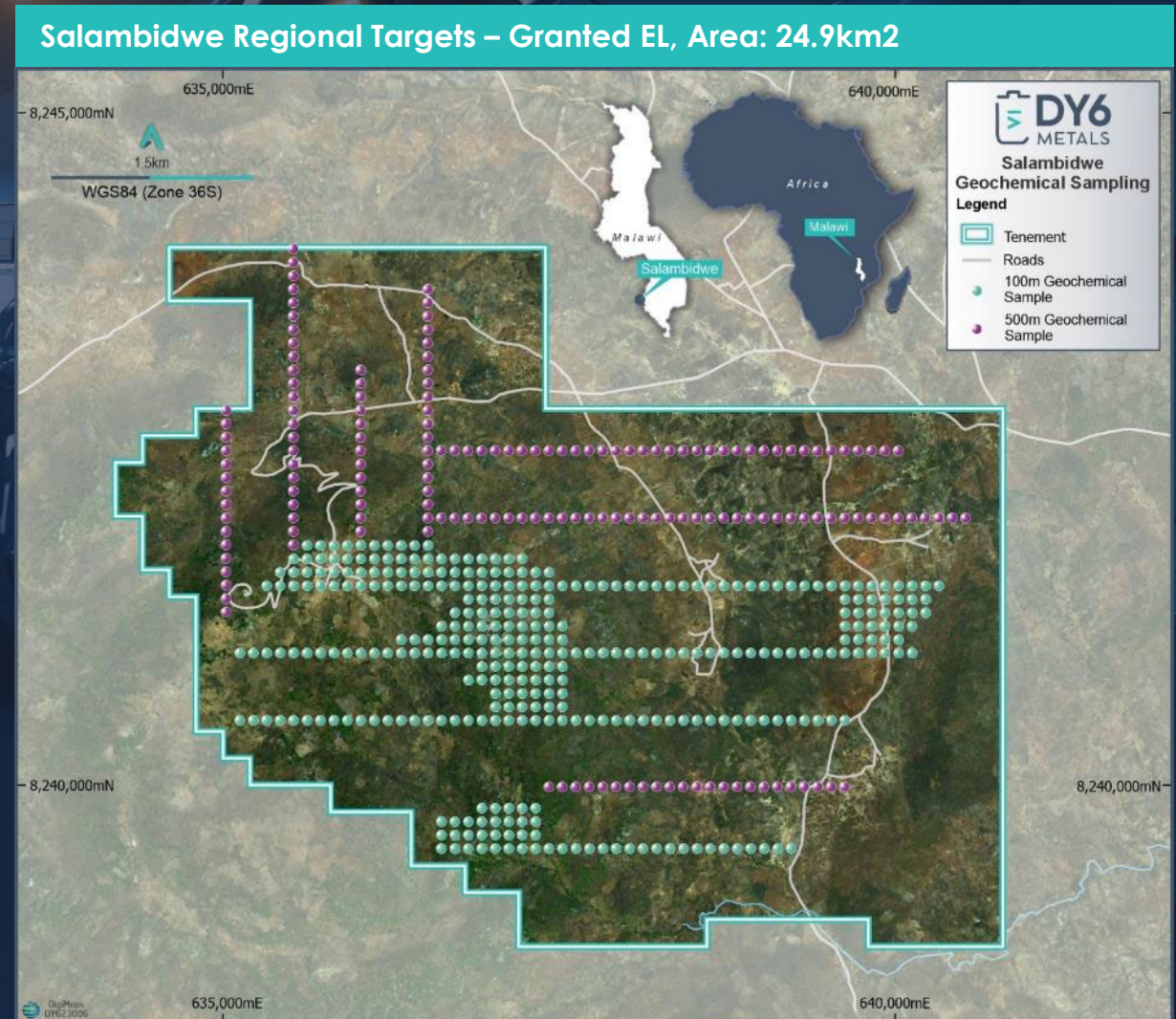
*Average basket of rare earths of all DY6 RC drill assays @ > 0.5% TREO

Salambidwe REE & Nb Project



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- The Salambidwe project presents extremely prospective target with historic rock chips results including 2.05% TREO
- Virgin REE prospect – never been drill tested!
- Comprehensive geochemical sampling program is near completion within the 24.9km² boundary tenement
- Ground radiometric survey and geological mapping ongoing
- High resolution AEM (Airborne Electro-Magnetic) survey begins in November



Malawi | Stable Jurisdiction & Developed Infrastructure



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Excellent existing operating infrastructure and access to sealed roads



The railway line from Liwonde has been recently upgraded and is operating at 30% capacity



The port of Nacala is Mozambique's most northerly port



Malawi is a significant hydropower and main source of energy production

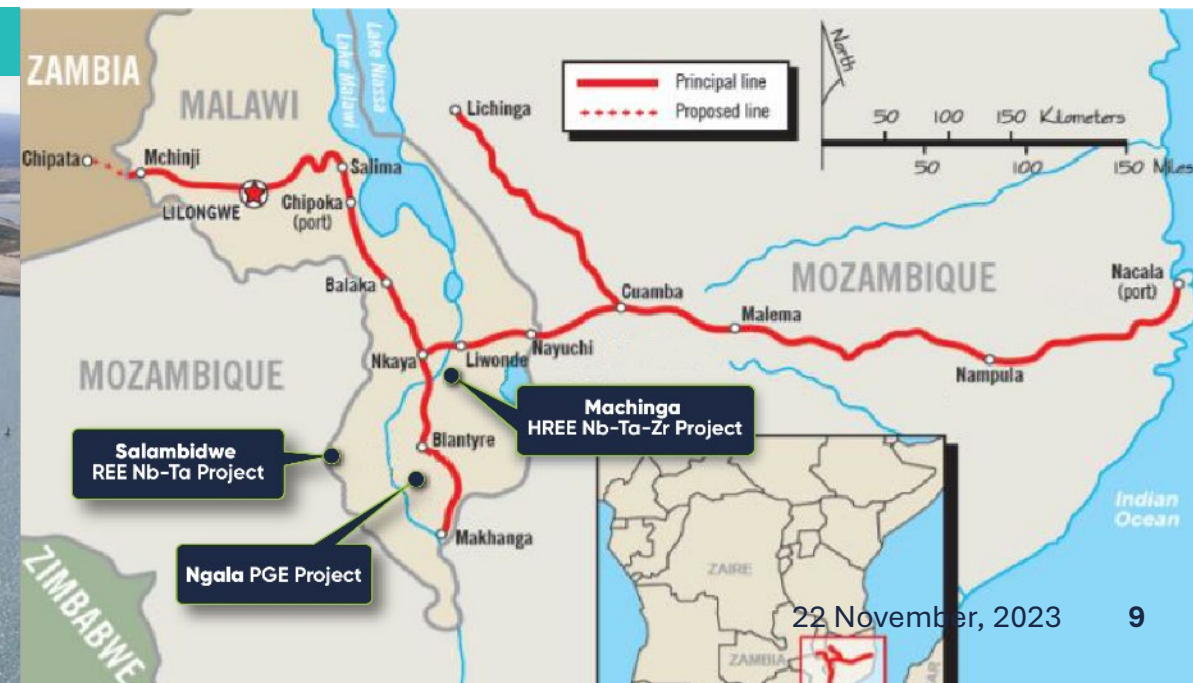


The Malawi government aims to increase the mining sector's contribution to GDP



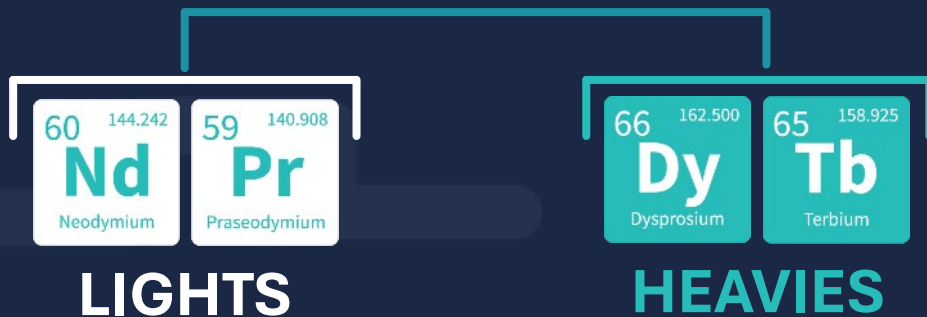
Interest by majors - recent strategic investment by Rio Tinto in Sovereign Metals (ASX:SVM) - "Kasiya" is the world's largest rutile deposit and a globally significant graphite deposit

Nacala Deep Water Port



22 November, 2023

Dy & Tb: critical for Permanent Magnets



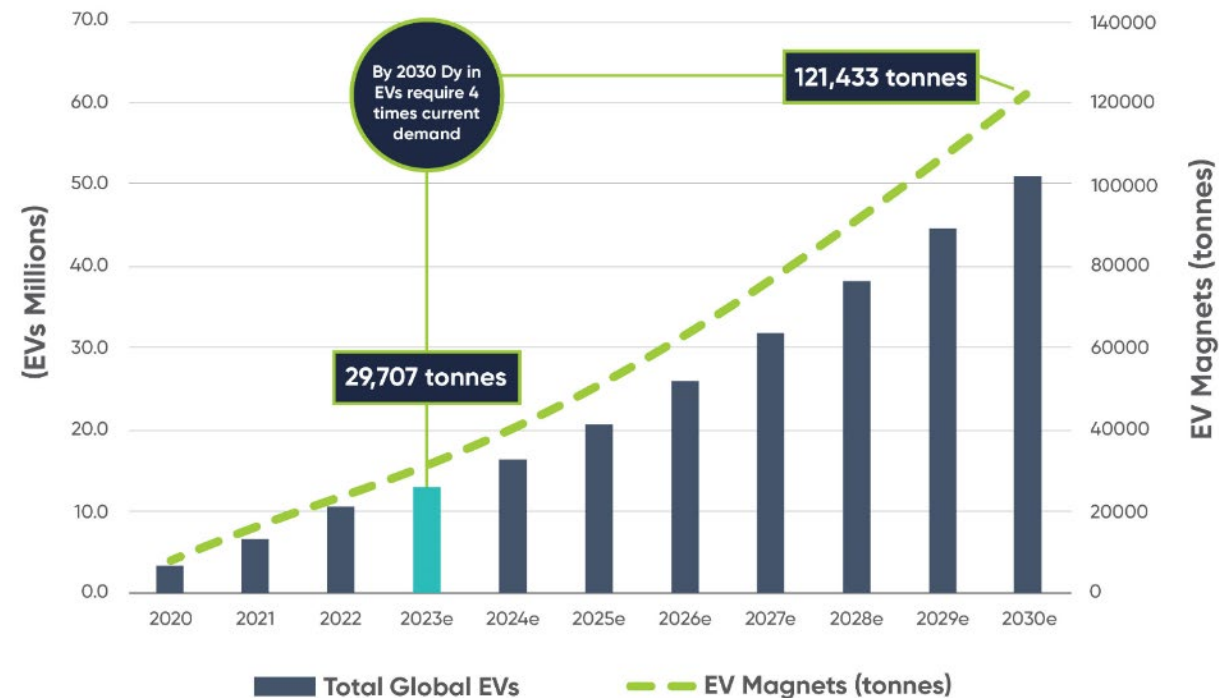
- Dy & Tb critical to high-performance magnets used in EV traction motors
- EV demand expected to reach 50 million units by 2030
- EV demand for Magnets to become the largest end use market for Dy & Tb
- China responsible for 90% of Global Dy and Tb Oxide production and supply
- China's supply of Dy & Tb is insufficient to support forecast demand

The Importance of (HREE)



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HREE project 'Machinga' required to meet growing demand



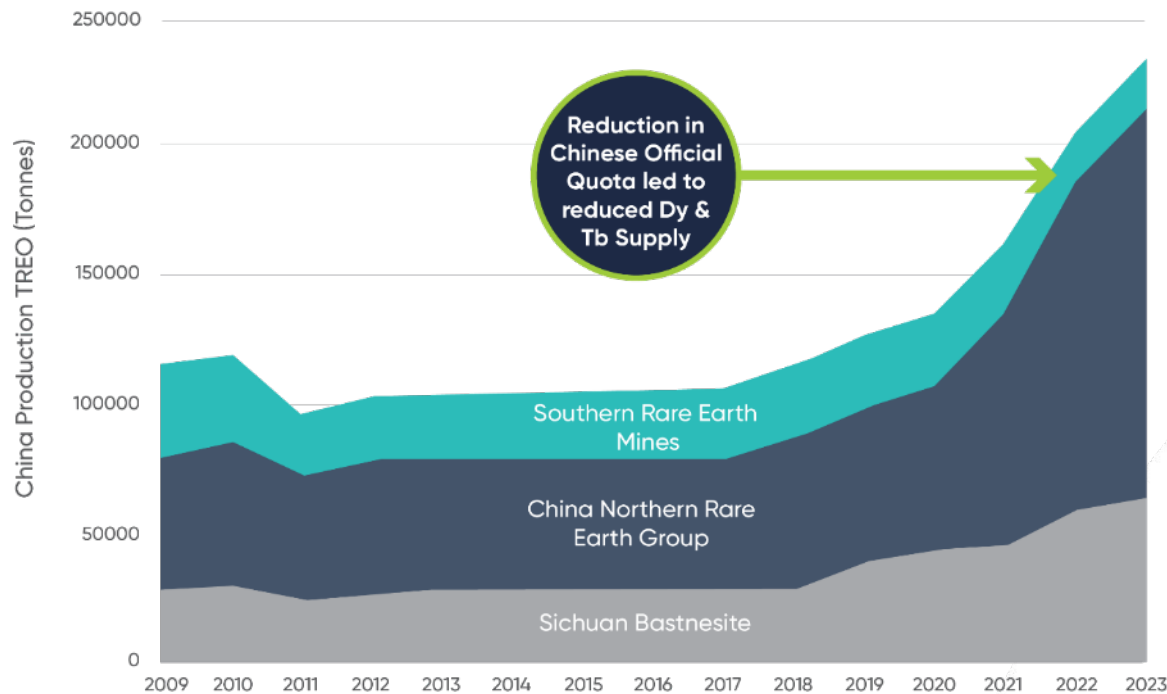
Market Opportunity



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- China and Myanmar currently responsible for >90% of global Dy and Tb mine production and >99% is refined in China

ADDITIONAL STABLE HREE SUPPLY REQUIRED TO REDUCE DEPENDENCY



- Government-led crackdown on unsustainable mining operation is shrinking domestic production
- 40% of all HREE are sourced from Myanmar
- Chinese miners are developing new overseas supplies to maintain their grip on the global market
- Dy and Tb supply will not keep up with forecast demand and new sources of supply will be needed!



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Next Steps

1

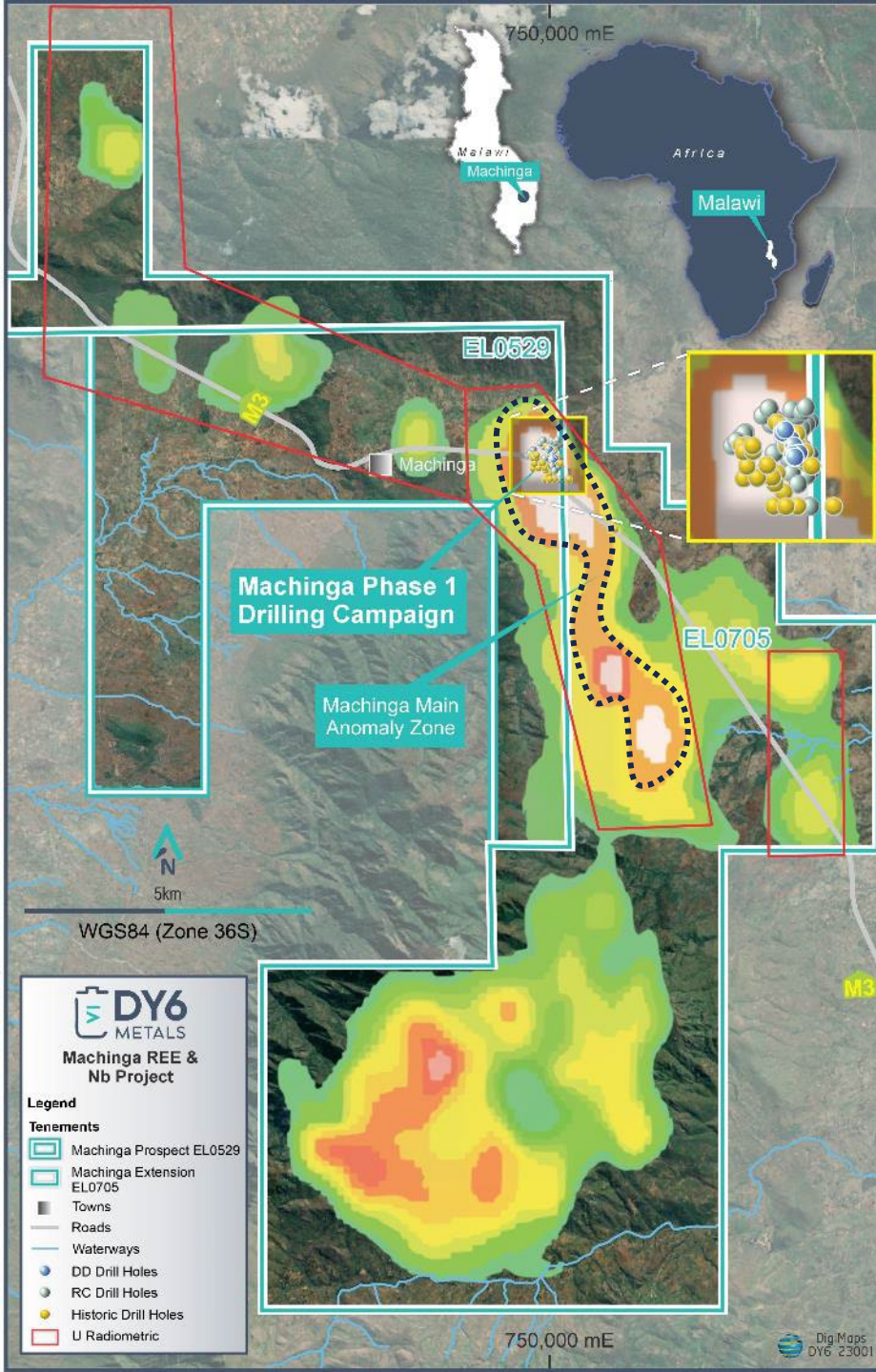
MACHINGA

- 8 diamond drilling (“DD”) assay results expected in early December
- Integration of historic and RC assay drill results into geological model
- Soil sampling plan in extended EL - targeting the southern anomaly zone
- Identification of future drill targets for implementation of Phase 2
- Mineralogy assessment and Metallurgy begins Q4

2

SALAMBIDWE


- Completion of geochemical sampling program and Airborne Radiometric Survey in December





DY6 Future Work Program

MAIDEN DRILLING PROGRAM

	Q3 2023		Q4 2023			Q1 2024			Q2 2024			Q3 2024	
	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
MACHINGA		Phase 1 – RC & DD Drilling Results					Phase 2 - Drilling			Phase 2 – Drilling Results			
					Soil Sampling & Assays								
			Mineralogy, Composite Sample & Testwork Preparation					Metallurgical Testwork and Pilot Program					
SALAMBIDWE			Mapping, Radiometrics, Soil & Rock Chip Sampling			Assay Results			Maiden Drilling			Drilling Results	
NGALA HILL											Geophysics, Mapping, Soil & Rock Chip Sampling		

Board & Management



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Mr Dan Smith

Non-Executive Chairman

Mr Smith is currently non-executive director for several companies on AIM/ASX operating in the resources sector, with a focus on critical minerals, and has been heavily involved in project origination and evaluation. Mr Smith holds a Bachelor of Arts, is a Fellow of the Governance Institute of Australia, and has over 15 years' primary and secondary capital markets expertise.

Mr Myles Campion

Non-Executive Director

Mr Campion has over 30 years' experience in the natural resources sector, including exploration geology, resource analysis, fund management, equities research and project and debt financing. He is currently Executive Chairman and Interim CEO of Europa Metals Ltd (AIM:EUZ).

Mr John Kay

Non-Executive Director

Mr Kay has more than 15 years' experience in equity capital markets, M&A and resources gained through both private practice and inhouse roles in Australia and the UK. He has previously held a number of non-executive and company secretarial roles for ASX listed mining and energy companies and has advised on over a dozen IPOs/RTOs on the ASX.

Dr Nannan He

Non-Executive Director

Dr He has over 10 years' experience in geosciences, chemical material trading, exploration and resources investment. Dr He holds a PhD in Geochemistry from Curtin University, a MS in Geochemistry from Hokkaido University, and a BS in Mineral Resource Exploration from Jilin University.

Mr Lloyd Kaiser

Chief Executive Officer

Mr Kaiser has cumulated 30 years' experience in the resources industry and has a long track record in senior executive marketing roles with extensive international trade of a range of mineral commodities. Lloyd has spent the last 10 years with Arafura Rare Earths where he held multiple GM roles in process technology, project engineering & Sales and Marketing.

Mr Troth Saindi

Senior Exploration Geologist

Mr Saindi holds a Master of Science degree in Economic Geology and a Bachelor of Science honours degree in Geology. He has 17 years' experience in the mineral resource sector. From 2013 to August 2023, Mr Saindi worked as Group Geologist with AIM listed Bushveld Minerals Ltd managing several exploration and mining projects.

Mr Allan Younger

Technical Consultant

Geologist with 40+ years' experience in all facets of the resources industry and most commodities. Specialist explorer highly experienced in target generation and project generation. Advanced expertise in multi-element geochemistry application and Interpretation.



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Contact Details

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CEO

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Non-Executive Director & Company Secretary

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