

# Kameelburg Niobium-REE Flagship Project

Targeting Maiden Niobium Drilling End of Q3 2024

ASX:ARN



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#### **Competent Persons' Statements**

The information in this presentation that relates to Exploration Results and other technical information complies with the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code). It has been compiled and assessed under the supervision of Mark Mitchell, technical director for Aldoro Resources Ltd. Mr Mitchell is a Member of the Australasian Institute of Geoscientists (No.10049) and 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 JORC Code. Mr Mitchell consents to the inclusion in this presentation of the matters based on his information in the form and context in which it appears.



Capital Structure	
Shares on issue	134,623,743
Options on issue	28,405,714
Share Price (at 22 <sup>nd</sup> July 2024)	\$0.084
Market Capitalisation (undiluted)	\$11.3M
Cash Balance (at 31 March 2024)	\$0.738M
Enterprise Value	\$10.56M

Board of Directors	
Quinn Lee	Non-Executive Chairperson
Mark Mitchell	Technical Director
Lincoln Ho	Non-Executive Director
Sarah Smith	Company Secretary

#### Share Price and Volume



## **Projects Overview**



Kameelburg Niobium-REE Flagship Project (Namibia, Africa)



- Western Australian Projects
  - Wyemandoo Li-Rb Project
  - Niobe Li-Rb-Ta Project
  - Narndee Au-Ni-Cu Project

## Kameelburg Project Snapshot





#### Significant Carbonatite Size

Giant Carbonatite - 1.4km in diameter, rising 270m above ground



#### **Extensive Project Area for Exploration**

Three Exclusive Prospecting Licenses (EPLs) spanning 1,017km<sup>2</sup>



#### **High Value Critical Mineral Potential**

Niobium and REE highly leveraged to growth & energy transition



#### **Mining Friendly Jurisdiction**

Namibia: one of lowest sovereign risk countries in Africa



#### **Excellent Project Infrastructure**

Road, Rail & Power all running through Kameelburg Project area



## **Carbonatite Geology & Project Area**









## **Outstanding Infrastructure**



Power, rail & road all running through Kameelburg Project location

✓ 220mW Powerline

✓ Operating Railway to Walvis Bay Port
 ✓ Main Sealed Road

Excellent Infrastructure Support





# Namibia – An Attractive Mining Jurisdiction



#### Long established mining history

Significant producer of uranium, diamonds, gold and base metals

**Politically stable** Strong rule of law and clear, transparent mining code

Population – 2.53 Million (2021)

A large local workforce opportunity

#### Mining in Namibia represents 10% of GDP

GDP USD\$12.31 billion (2021)

#### **Large Mining Producers in Namibia**

BHP, Bannerman Resources, Paladin Energy



# Strategy For Kameelburg



- Incorporate Aldoro Namibian Subsidiary to fully undertake local mining exploration & development JV Agreement (85% Aldoro Resources Namibia, 15% Namibian Vendor)
- > Intention to Unlock Full Value of the giant Kameelburg carbonatite
- > Stage 1: Core focus on setting up Foundation
- > Stage 2: Initial Drilling Programme with primary focus on targeting Niobium rich regions
- > Stage 3: Up to 20,000m in Drilling with goal to define a world class Niobium & REE Resource
- > Stage 4: Niobium & REE JORC Resource Estimate, full metallurgy report & Feasibility Study
- Stage 5: Development of the Kameelburg Project through strategic partnership with existing & potential parties



### What's Been Accomplished So Far

### Large Scale Mapping & Rock Chip Sampling

> To date, over 120 samples have been collected

Notable Niobium sample assays<sup>1</sup> include:

- > 10.38% Nb<sub>2</sub>O<sub>5</sub>
- ≻ 6.22% Nb<sub>2</sub>O<sub>5</sub>

Notable REE sample assays<sup>1,2</sup> include:

- > 9.89% TREO
- > 6.30% TREO
- > 6.27% TREO
- Mapping & sampling continues to optimise upcoming drill target locations

### **Metallurgical Testing**

- Latest open cycle Niobium recovery of
  62% achieved by Bureau Veritas<sup>3</sup>, Perth
- Result in line with recovery levels by developing mining explorers and producers in the global niobium space
- Provides ample confidence leading up to maiden drilling mainly targeting niobium-rich dykes (Stage 2)
- Full metallurgical report for Niobium & REE expected in coming months

<sup>&</sup>lt;sup>1</sup> https://announcements.asx.com.au/asxpdf/20240620/pdf/064rwxnx33fw75.pdf

<sup>&</sup>lt;sup>2</sup> https://announcements.asx.com.au/asxpdf/20240418/pdf/062mnhnysgj4tc.pdf

<sup>&</sup>lt;sup>3</sup> https://announcements.asx.com.au/asxpdf/20240715/pdf/065l6x04fh0q36.pdf

### **Ongoing Test Work by Highly Experienced Metallurgists**

- Multiple diamond cores drilled from selected Kameelburg sites using Hilti portable drill <sup>1,2</sup>
- Cores shipped to China and Australia for comprehensive metallurgical testwork

### **Four Streams of Metallurgical Testing**

#### China

- Professor Zhiguo He, Central South University<sup>1</sup>
- Shenghe Resources Holdings Co.

#### Australia

- Bureau Veritas Minerals, Perth<sup>2</sup>
- > Auralia Metallurgy, Perth

Nb Core





**REE Core** 

# **Stage 2: Planning in Progress**



### Kameelburg – What's Next

#### **Maiden Diamond Drilling**

- Initial planned 2000m diamond drilling mainly targeting Kameelburg's Niobium-rich dykes
- Magnetic Survey targeting significant area of interest for Nb around the drill area
- Total of 10 diamond drill holes planned at 200m lengths
- Drill target area located at south-west periphery of Kameelburg Carbonatite
- Simple track access given peripheral location

#### **Preparations Rapidly Advancing**

- Access tracks cleared from main road to niobium drill target site
- Underground water supply drilled and ready for diamond drill rig
- Diamond drill rig preparation underway
- Relevant personnel, logistics & crew accommodation preparation on hand

### Maiden Diamond Drilling targeted for end of Q3, subject to regulatory approvals

# **Stage 2: Planning in Progress**



### **Niobium Target Drill Areas Mapped – Excellent Results to Date**



- Mapping results so far<sup>1</sup> at the Niobium-rich dyke areas ranged from 1.78% - 10.38% Nb<sub>2</sub>O<sub>5</sub>
- Niobium Dyke Swarm Corridor located at south-west peripheral region of carbonatite = simple track access
- Provides strong rationale for maiden drilling target to test niobium enrichment at depth



# **Stage 2: Planning in Progress**



### **Kameelburg – Further Niobium Distribution?**

- Kameelburg Project area spans ~4km<sup>2</sup>
- Historic sampling data shows over 25% of project area contain samples that are 0.3% Nb<sub>2</sub>O<sub>5</sub> or higher
- Speaks potential high volumes of contained niobium at Kameelburg, with current price<sup>1</sup> US\$61/kg Nb<sub>2</sub>O<sub>5</sub>
- Historic sampling also shows niobium presence in the soils being more widespread than that in rock samples
- Suggests high probability of further open niobium rich dykes
- Re-affirms rationale for continued mapping & sampling





## **Kameelburg - Forward Strategy**

#### Large Scale 20,000m Diamond Drilling

- Magnetic Survey targeting significant area of interest for Nb around the whole giant carbonatite
- Targeting significant area of interest for REE covering major portion of the giant carbonatite
- > Up to 150 diamond drill holes being planned
- Large scale access track clearance currently in progress
- Multiple Nb & REE targets to be confirmed







### **Rare Earth Mapping – Impressive REE Results To Date**

- Large scale REE mapping spanning south to east regions of the large carbonatite
- Most recent notable assays<sup>1</sup> include:
  - ✓ 9.89% TREO
  - ✓ 6.30% TREO
  - ✓ 6.27% TREO
- Prior sampling results<sup>2</sup> ranging from
  1.29% to 6.60% TREO







### Kameelburg – Quality Historical REE Data!

- > Large historical REE data set on file
- > Over 700 historic REE samples
- > 100m grid samples, total of 1900m by 1600m
- Rock chip sampling not biased, based on outcrop availability

#### Kameelburg Historic Sampling – TREO Results

	Soil	Rock Chip	Area, km²
TOTAL GRID			3.04
No. of samples	410	312	
Highest Value %	2.66	5.56	
Average %	0.78	0.76	
CARBONATITE			1.606
No. of samples	211	152	
Highest Value %	2.66	5.56	
Average %	1.09	1	
>1% CONTOUR			0.838
No. of samples	107	79	
Highest Value %	2.66	5.56	
Average %	1.44	1.27	





### **Kameelburg – Further Distribution of REE?**



- Historic 100m spacing for rock & soil samples suggests not all REE rich dykes are tested
- Multiple dykes reportedly visible between historic sample locations
- Suggests high probability of further REE on site
- Re-affirms rationale to continue mapping & sampling



# Kameelburg – Stage Development vs Timeline



		2024			2025				
Stage	Activity	Q1   Q:	2   Q3	Q4	Q1	Q2	0	23	Q4
Stage 1	Large scale geological mapping and sampling			-•					
	Preparations for access tracks (for Stage 2 & 3)								
Stage 2	Diamond Drill Rig Preparation			-					
	Relevant Personnel Preparation			•					
	Planned initial 10 diamond holes at 200m lengths for 2000m targeting niobium-rich dykes				)				
	Assay Results								
Stage 3	Planned up to 150 diamond holes for 20,000m targeting REE								
Stage 4	Nb & REE Maiden Resource Estimation, full metallurgy report &	& Feasibility St	udy						
Stage 5	Targeting development of Kameelburg Project through strategi	c partnership w	vith existing	& potenti	al parties	6			



### **Thank You**

For more information please email: contact@aldororesources.com



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