

Minerals Corporation Limited

# The Next Major Player in Rare Earths

Africa Down Under Conference

September 2024



ASX:PEK www.peakrareearths.com

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#### **Compliance Statement**

Information in this presentation references the Company's ASX announcements dated 24 October 2022 "Completion of Ngualla Project BFS Update", 30 November 2023 "Completion of FEED Study", and for drilling and exploration results, 5 February 2024 'Breccia Zone Trench Samples – Assay Results', 26 February 2024 'Phosphate Bioavailability Test Results', 4 March 2024 'Further Northern Zone Assay Results', and 20 March 2024 'Major High-Grade Fluorspar Discovery' which are available to view on <u>https://www.peakrareearths.com/announcements/</u>. The Company confirms that at this time it is not aware of any new information or data that materially affects the information included in the relevant announcements and that all material assumptions and technical parameters underpinning the estimates in the relevant announcement continue to apply and have not materially changed, save that (i) the 30 November 2023 announcement "Completion of FEED Study" provides new information and updates to estimates in the 24 October 2022 "Completion of the Ngualla Project BFS Update" and (ii) the change to the rare earths price assumptions as set out in the December 2023 Quarterly Activities Report and Review of Operations Section of the December 2023 Half-Year Financial Report.

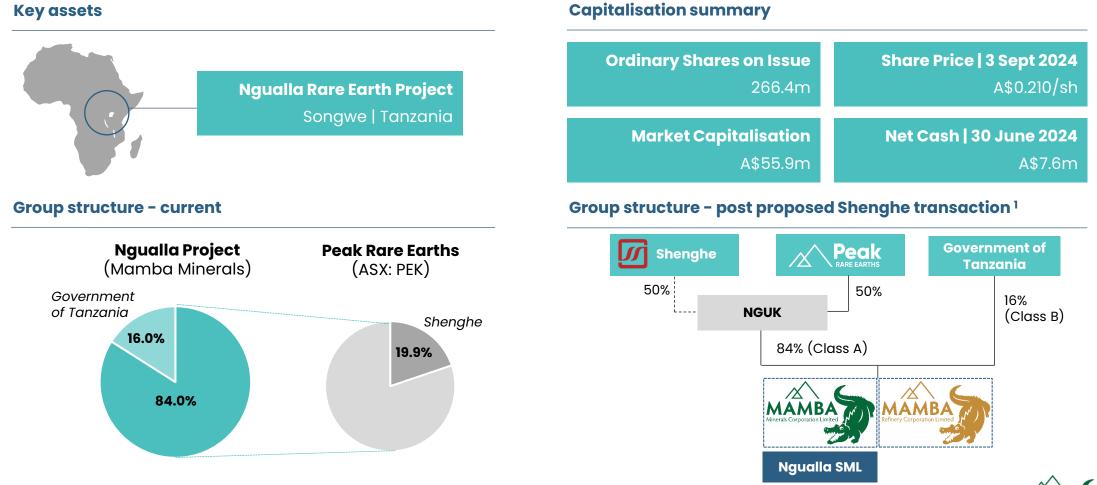
This presentation is authorised for release by the Company's Chief Executive Officer.





# Peak Rare Earths and Mamba Minerals ... snapshot

# Focused on the development of the Ngualla Rare Earth Project with the support of major shareholder, Shenghe, and the Government of Tanzania





1. Post completion of proposed transaction whereby Shenghe subscribes for a 50% interest in NGUK for ~A\$96m (as per a non-binding Term Sheet – see 24 July 2024 ASX Announcement 'Shenghe Investment & Funding Term Sheet')



# Ngualla Rare Earth Project ... a world-class project

One of the largest and highest grade undeveloped rare earth deposits in the world, with significant exploration and development upside

### High-grade Ore Reserve<sup>1</sup>

TREO - 4.80% and NdPr - 1.02%

### **Multi-generational**

• 214Mt Mineral Resource and initial 24 year life<sup>1</sup>

### Low radionuclides<sup>1</sup>

U - 15 ppm and Th - 53ppm

### World scale<sup>2</sup>

 16.2ktpa of high-grade rare earth concentrate containing 3.6ktpa of NdPr

## **Significant exploration upside**

Includes fluorspar, niobium and phosphate





Based on Ore Reserves. See 24 October 2022 ASX Announcement 'Completion of Ngualla Project BFS Update'
Based on FEED Study. See '30 November 2023 ASX Announcement 'Completion of FEED Study'



## The Ngualla Project ... the most advanced rare earth development project Recent non-binding Term Sheet with Shenghe positions Ngualla as the only rare earth project globally with a complete offtake, development and funding solution<sup>1</sup>



## Key licences in place

Special Mining Licence granted and Framework Agreement executed with the Government of Tanzania



### **Technically de-risked**

Completed BFS Update and FEED studies and further optimisation study underway



## **Binding offtake**

7-year take-or-pay agreement for 100% of concentrate and 50% of any future downstream products



### Full project funding solution

No requirement for Peak to contribute any additional development equity funding







## Tanzania ... open for business Rising international visibility and a rapidly growing economy

#### Tanzania economy ... at a glance

- Economic Freedom score of 60.0 4<sup>th</sup> highest in Africa
- Politically stable 60 years since independence
- One of the fastest growing economies in Africa average GDP growth over last 10 years of 6.1%
- Unemployment rate of ~3%
- Recent Moody **upgrade** to a **B2 positive** due to reduced political risk, community engagement and structural reform agenda
- Key logistics hub with proximity to Asia and the Middle East

#### **Recent developments**

**April 2023:** MOU between the Export-Import Bank of the United States (EXIM) and the Government of Tanzania for up to **US\$500m in export financing** 

**November 2023: US\$1b contract** executed with China Civil Engineering Construction Corporation (CCECC) to upgrade part of the existing TAZARA railway



Ongoing development of national standard gauge network



Recent completion of 2GW Julius Nyerere Hydropower Station



US Vice President Kamala Harris' Tanzanian visit (March 2023)





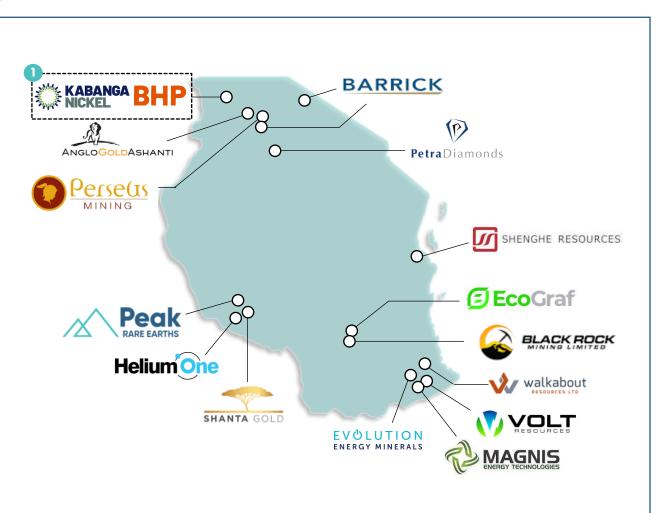
# Tanzania ... a rapidly growing mining sector

Mining development continues to be prioritised under the new Tanzanian Government

Recent Special Mining Licence grants					
Project	Commodity	Date granted			
Kabanga	Nickel	27 October 2021			
Nyanzaga	Gold	9 December 2021			
Fugoni	Mineral Sands	14 December 2021			
Williamson	Diamonds	9 December 2021			
Mahenge	Graphite	7 September 2022			
Ngualla	Rare Earths	26 April 2023			
Epanko	Graphite	18 April 2023			
Chilalo	Graphite	18 April 2023			



Peak Rare Earths' Framework Agreement signing (April 2023)





1. BHP has an option to earn up to 51% of the Kabanga Nickel Project. To date, BHP has invested a total of US\$90m in exchange for a 14% project interest



## Peak, Mamba and Shenghe ... a transformational partnership Offtake, investment and development agreements with Shenghe underpin an integrated development solution<sup>1</sup>

#### Shenghe partnership ... key elements



**Offtake** Binding offtake agreement in place



Funding

Full project funding solution via Shenghe's A\$96m investment into NGUK as well as project-level debt facility



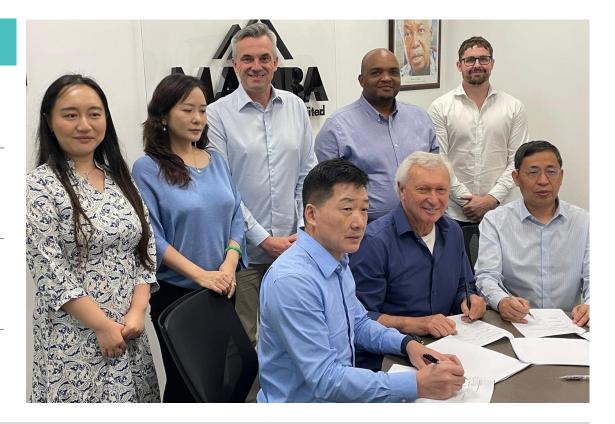
#### **Project construction and development**

Shenghe to participate in tender for project EPCM, EPC or EPS execution package



#### **Technical collaboration**

Ongoing optimisation of current flowsheet as well as collaboration around in-country downstream development





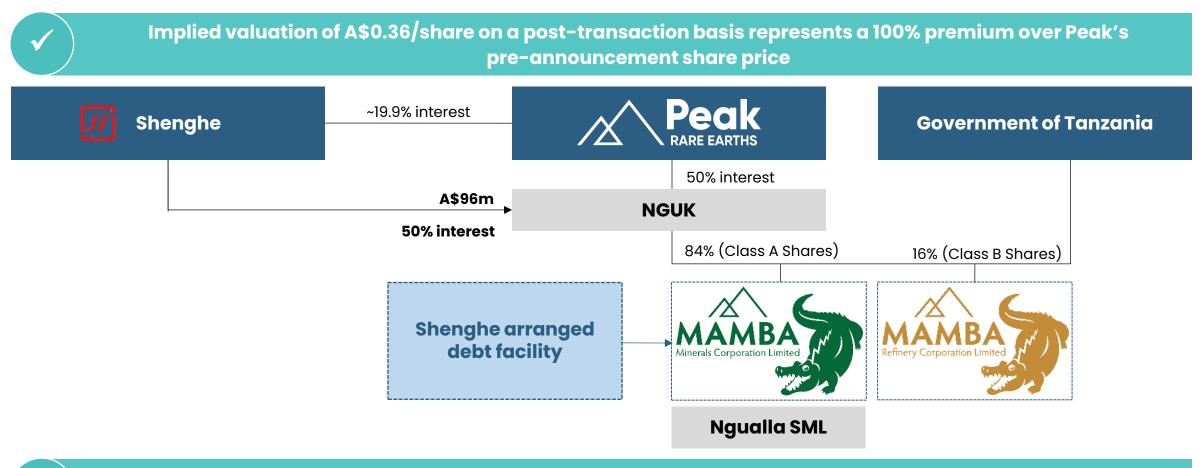
We continue to believe that the Ngualla Project is the premier undeveloped rare earth project in the world. This Term Sheet demonstrates our commitment to work with Peak and Mamba Minerals to further optimise the Ngualla Project and to expedite its development and funding

Mr. Huang Ping, Deputy Executive Chairman of Shenghe Resources Holding Co., Ltd





## **Investment and funding structure ... a fully funded solution** Shenghe to invest A\$96m to subscribe for a 50% stake in Ngualla Group UK Ltd (NGUK)



Supports a technically enhanced and lower cost Ngualla Project with a fully funded solution and no requirement for Peak to contribute development equity funding





# Integrated solution... supported by a well credentialed partner

# Shenghe is a well-capitalised and technically strong strategic partner and a key contributor to MP Materials' successful restart of the Mountain Pass Project

#### Shenghe overview

- Peak's largest shareholder with ~19.9% shareholding
- ✓ Shanghai listed non-SOE with ~**US\$1.9b** market capitalisation
- Largest importer of rare earth concentrate into China
- Internationally recognised expertise in mining and processing **bastnaesite mineralisation**
- Recent acquisition of Strandline Resources' Tanzanian mineral sands project portfolio

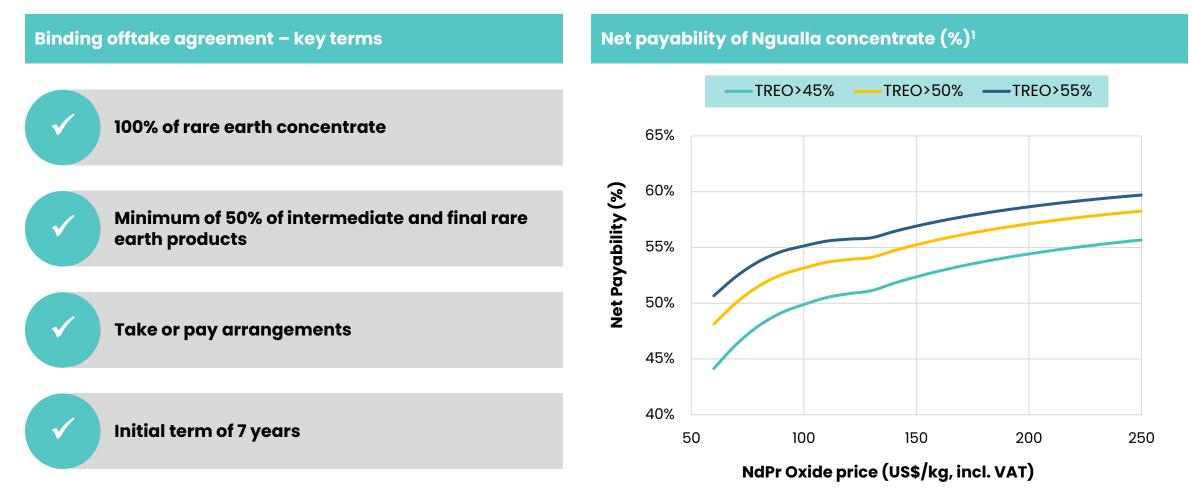
#### Shenghe overseas rare earths investments







# **Binding offtake agreement ... 'bankable' with high payability** Binding offtake agreement with Shenghe delivers attractive payabilities across rare earth pricing cycle





1. Based on a LaCe Carbonate price of US\$0.5/kg and a SEG concentrate price of US\$33.43/kg. Assumes Ngualla concentrate specifications of 22.3% NdPr, 44.2% Ce, 30.1% La and 2.9% SEG Heavy (LOM averages). Payabilities are inclusive of a VAT deduction (e.g., based on a final price payable to Peak). See 9 August 2023 ASX Announcement 'Execution of Offtake Agreement and Strategic MOU with Shenghe'



# **Enlargement of SML area at Ngualla**

# With support from the Government of Tanzania, SML area successfully expanded from ~18km<sup>2</sup> to ~51km<sup>2</sup>

#### Ngualla SML expansion ... key benefits



#### Additional footprint for development of the Ngualla Rare Earth Project



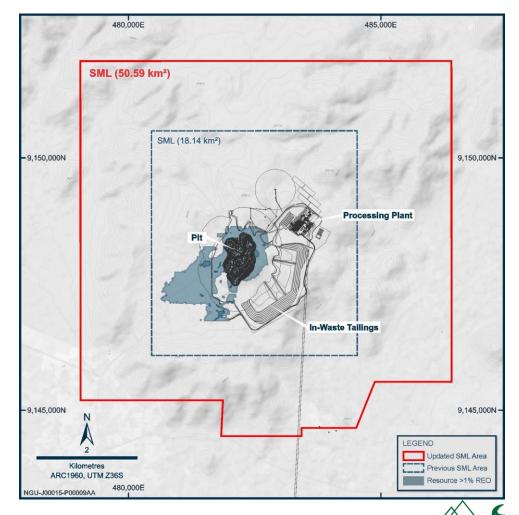
Supports future exploration of the broader Ngualla deposit and neighbouring area



Offers a potential site for future development of an MREC facility and other downstream operations



Supported by SML tenure of 30 years with the ability for further extensions



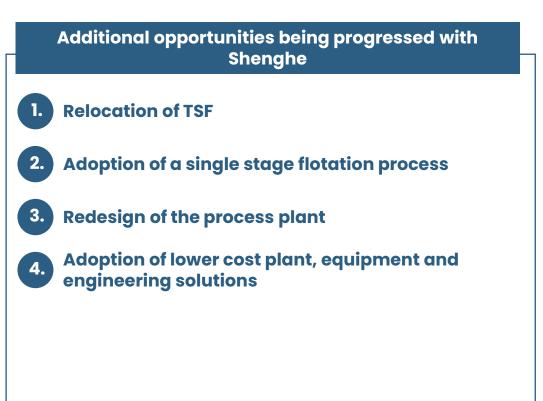


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## Ngualla Project optimisation opportunities and schedule Collaboration with Shenghe on cost and optimisation opportunities



- Building relocation and layout optimisation
- 2. Optimisation and contract packages
- 3. Deferral of new airstrip
- 4. Increased plant availability
- 5. Re-scope buildings and storage facility
- 6. More competitive tendering solutions







## Indicative timeline ... supports a Final Investment Decision of 31 December 2024

### Collaboration by Peak, Mamba and Shenghe on further optimising the Ngualla Project and expediting its development

	2024				2025		
	Jul	Aug	Sept	Oct	Nov	Dec	Jan
Signing of non-binding Term Sheet	~						
Transaction documentation and execution			✓				
Shareholder meetings to approve transaction				✓			
Cost and layout optimsiation				✓			
EPCM tender							
Award of EPCM contract						~	
Early and Enabling Works							
Final Investment Decision						~	
Commencement of construction							✓





# Early and enabling works

## Advancement of Ngualla pre-development activities in preparation for FID

#### **Recently completed work**

- ✓ Expansion of Camp capacity (to 50 x pax)
- ✓ Maintenance and enhancement of Southern Access Road
- $\checkmark$  Upgrade of IT, communications and safety systems at site
- ✓ Development of new office building at site
- ✓ Geotechnical drilling , water bore testing and development
- ✓ Ore testing and variability analysis
- ✓ TANESCO power connection to Camp

#### Work in progress

- Extension of existing airstrip
- Development of borrow pits / quarries
- Commencement of pre-strip and early mining activities
- Geophysical survey



Connection to the TANESCO power grid and ongoing maintenance of the Southern Access Road



Songwe Regional Commissioner visit to the Ngualla Camp





# 'Kazi Wajibu Utu' ... Work, Responsibility and Humanity

# Mamba continues to prioritise an active engagement process with nearby communities which underpins social development priorities

#### Social engagement planning

#### Historical and ongoing initiatives

- Construction of teachers houses and classrooms
- Reconstruction of Ngwala-Kininga Road
- Funding to local community clinic and provision of resident paramedic
- Sponsorship of the Mamba Minerals football league, Farmers Day (Nanenane) Tournament and inter-school examination competition
- ✓ First aid and snake antivenom training for community

#### New initiatives for the next 12 months

- Construction of two classrooms for the new Ngwala Secondary School
- ✓ Development of a police post
- Commencement of a tree planting campaign aimed at planting 300 trees around schools, health centres and public areas



Annual Ngwala inter-school examination competition



First aid training held at the Ngualla Camp



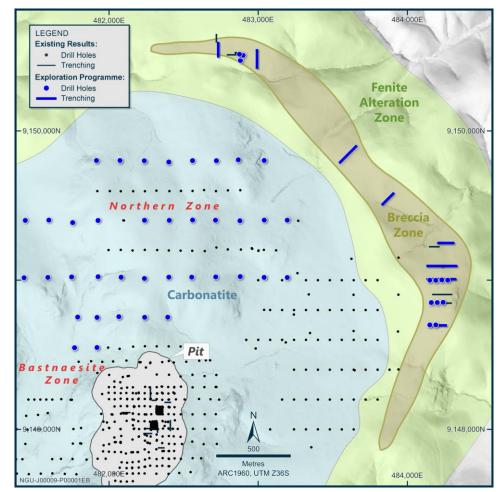


# **Critical minerals exploration programme ... highly successful** Exploration activities advanced at both the Breccia Zone and Northern Zone including 4,200m of additional RC and DD drilling

#### **Progress to date**

- Development of geological model for Northern Zone
- Assay of 344 trench samples from Breccia Zone<sup>1</sup>
  - o Confirmation of widespread fluorspar mineralisation at surface
- 57 drill holes for 4,200m completed and assayed<sup>2</sup>
  - Widespread phosphate mineralisation across Northern Zone
  - Major high-grade fluorspar discovery within Breccia Zone
- Bioavailability analysis of phosphate from Northern Zone<sup>3</sup>
  - o Confirms potential use as direct-application fertiliser

	Northern Zone	Breccia Zone	Total
RC	44 holes / 3,104m	11 holes / 885m	55 holes / 3,989m
DD	-	2 holes / 211m	2 holes / 211m
Total	44 holes / 3,104m	13 holes / 1,096m	57 holes / 4,200m

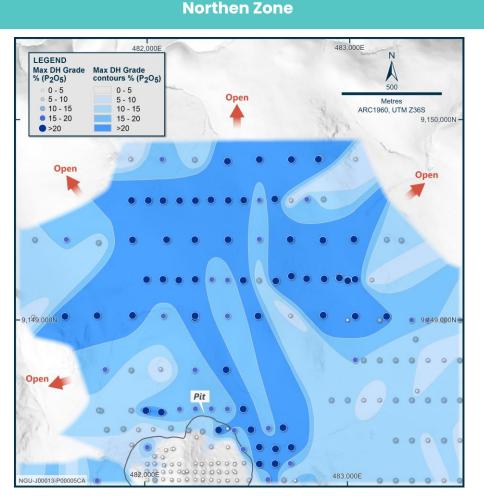


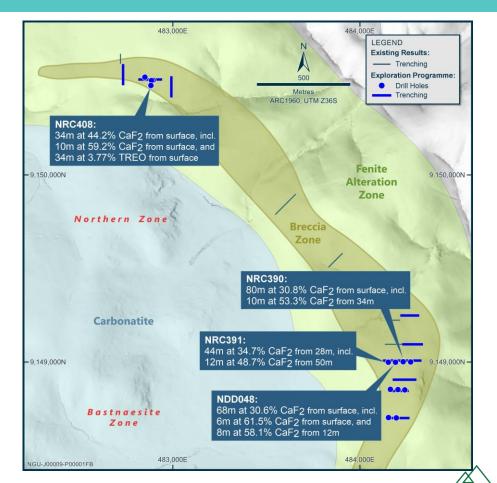


 See 5 February 2024 ASX Announcement 'Breccia Zone Trench Samples – Assay Results'
See 20 March 2024 ASX Announcement 'Major High-Grade Fluorspar Discovery' and 4 March 2024'Further Northern Zone Exploration Assay Results' for overview of drilling results
See 26 February 2024 ASX Announcement 'Phosphate Bioavailability Test Results'



## **Critical minerals exploration ... Northern and Breccia zones** Widespread and high-grade phosphate mineralisation in the Northern Zone and the potential for potential of a globally significant fluorspar deposit in the Breccia Zones<sup>1,2</sup>





**Breccia** Zone



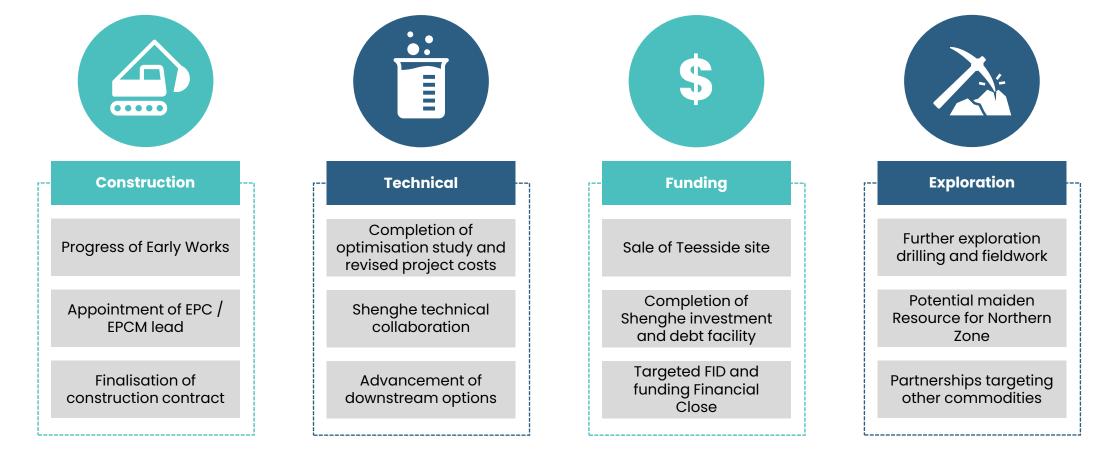
1. See 20 March 2024 ASX Announcement 'Major High-Grade Fluorspar Discovery' and 4 March 2024 'Further Northern Zone Exploration Assay Results' for an overview of drilling results

2. See 5 February 2024 ASX Announcement 'Breccia Zone Trench Samples - Assay Results' for an overview of trenching results

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## Advancing Ngualla ... up to and beyond a Final Investment Decision

Supportive partnerships with Shenghe and the Government of Tanzania, a fully funded development solution and multi-commodity optionality







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