# The next power in the next pow

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**Corporate Presentation:** Annual General Meeting – Nov 2023





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#### **Compliance Statement**

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Information contained in this presentation relating to financial forecasts, production targets, infrastructure, project execution, cost estimating, metallurgical test work, exploration results, and studies are taken from the Company's ASX announcements dated 24 October 2022 "Completion of Ngualla Project BFS Update" and 30 November 2024 "Completion of FEED Study" 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 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".

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



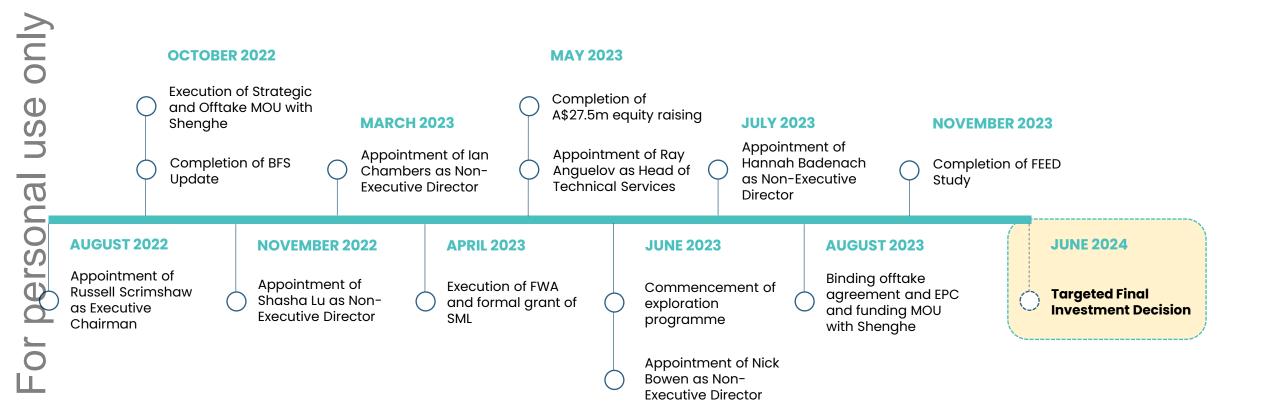
# Peak ... a compelling investment opportunity

#### A supportive partner, a full offtake solution and a pathway to funding and development





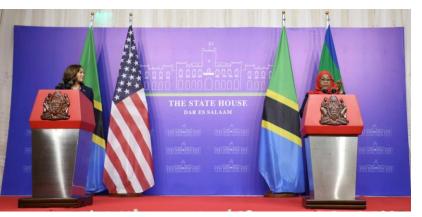
### Achieved milestones ... progress and momentum The Ngualla Project is progressing rapidly towards development





## Tanzania ... open for business

Rising international visibility and a rapidly developing mining and resources sector

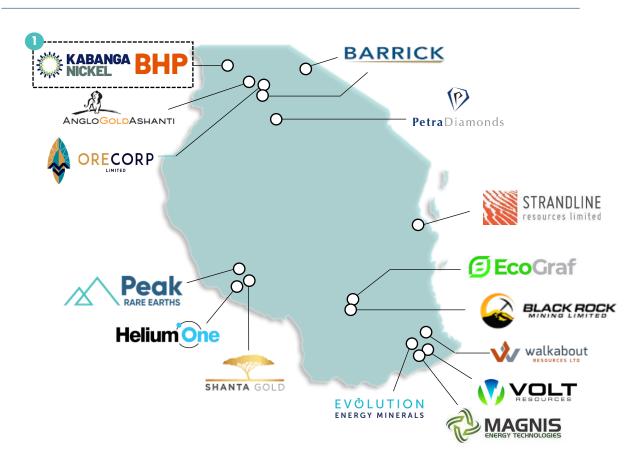


US Vice President – Tanzanian State Visit, Mar 23

**Execution of Framework Agreement, April 2023** 



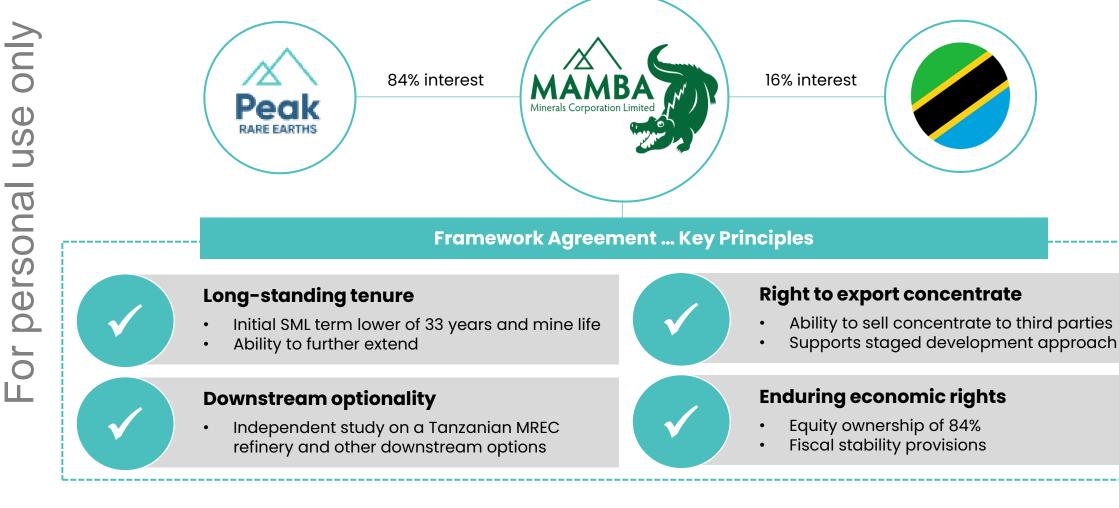
Tanzanian mining operations and development projects





### Framework Agreement<sup>1</sup> ... formally executed

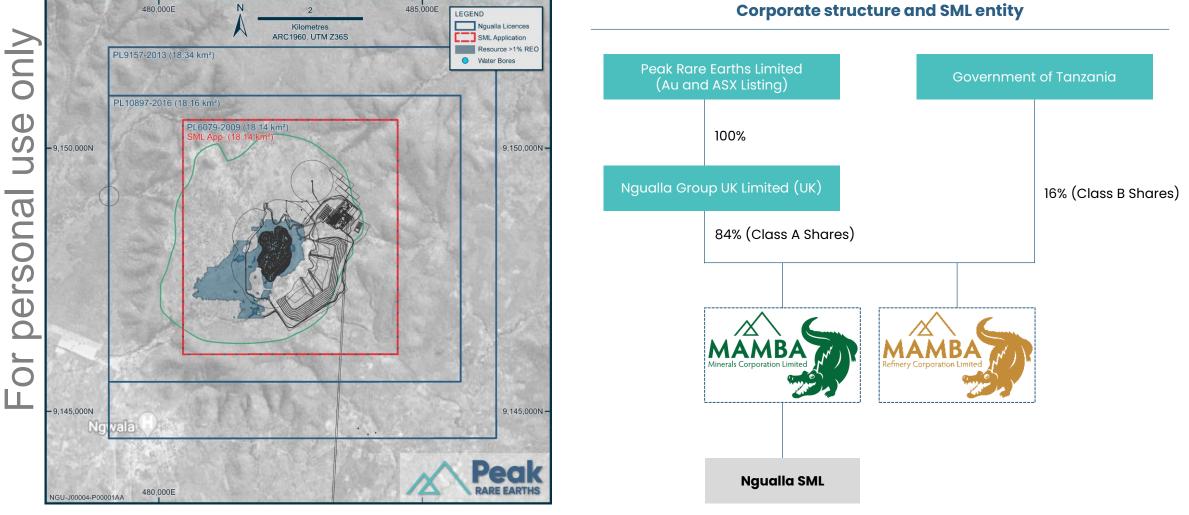
Milestone agreement supporting robust returns and strong alignment of interests with the Government of Tanzania





1. See ASX announcement 18 April 2023

# **SML** provides Peak long-standing rights to develop and operate the Ngualla Project





### 'Kazi Wajibu Utu' ... our approach to Work, Responsibility and Humanity

The Ngualla Project will be developed in partnership with the Government of Tanzania and the local community







## Peak and Shenghe ... a defining partnership

Binding offtake and non-binding EPC and funding MOU with Shenghe underpins pathway to a complete development solution for Ngualla

#### Shenghe agreements ... key elements

#### OFFTAKE<sup>1</sup>

- ✓ Binding 7-year offtake agreement with take-or-pay obligations
- $\checkmark\,$  Covers 100% of concentrate production and 50% of downstream production

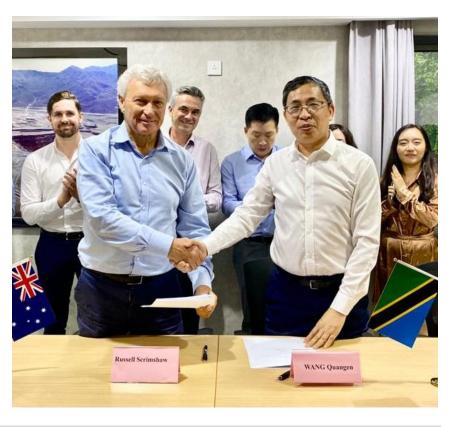
#### **PROJECT DEVELOPMENT**

- ✓ Shenghe to deliver an EPC solution for project
- ✓ Potential to appoint BGRIMM as EPC sub-contractor

#### FUNDING

- $\checkmark\,$  Shenghe to deliver complete funding solution for the project
- ✓ Potential for Shenghe to subscribe for a significant non-controlling project stake

### Peak maintains right to terminate agreements if financial close has not been achieved within 6 month of completion of FEED





"Shenghe regards the Ngualla Project as the premier undeveloped rare earth project in the world. We are excited to be partnering with Peak, and its Tanzanian entity Mamba Minerals, in the development of this world-class project through the provision of offtake, technical and funding support." **Mr. Huang Ping, Deputy Executive Chairman of Shenghe Resources Holding Co., Ltd** 



l. Remains subject to a series of conditions precedent including approvals from Peak shareholders, Mamba board, Shenghe's board and/or shareholders and the Tanzanian Mining Commission. See ASX announcement 'Peak and Shenghe Sign a Binding Offtake Agreement and a Non-Binding Strategic EPC and Funding MOU for Ngualla' (9 August 2023) for further detail around offtake agreement

### 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 Mine



### FEED Study outcomes ... an optimised world class project<sup>1</sup>

#### Material reductions achieved in both upfront and operating costs

#### Key changes / initiatives

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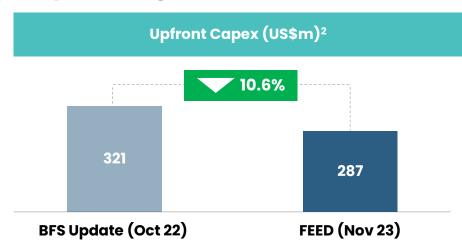
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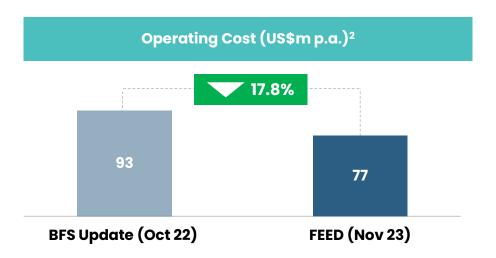
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- ✓ Adoption of contract mining
- ✓ Removal of second TSF cell for barite collection
- ✓ Optimisation of power plant design (and BOO contract model)
- ✓ Budgetary proposal updates for logistics & reagents
- ✓ Scope rationalisation for roads, camp and airstrip
- ✓ Plant operations labour change from 3 to 4 shift panels

#### Other workstreams progressed

- ✓ Development of vendor packages
- ✓ Commencement of tender for long-lead items
- ✓ Advancement of Early and Enabling Works
- $\checkmark~$  Further schedule and critical path refinement
- ✓ Expansion of Owner's technical team

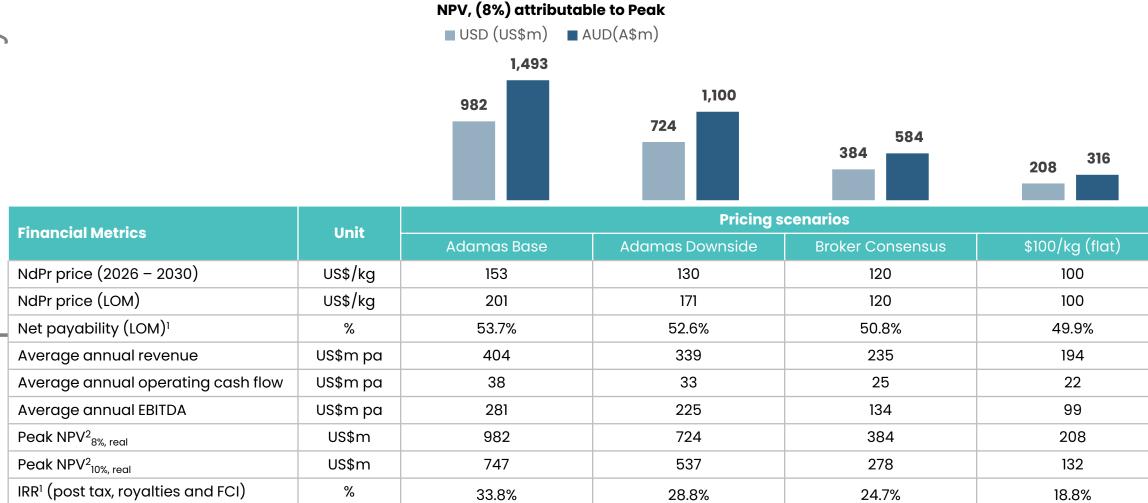






# FEED Study outcomes ... attractive project economics

Project stands to deliver significant value delivered to Peak shareholders





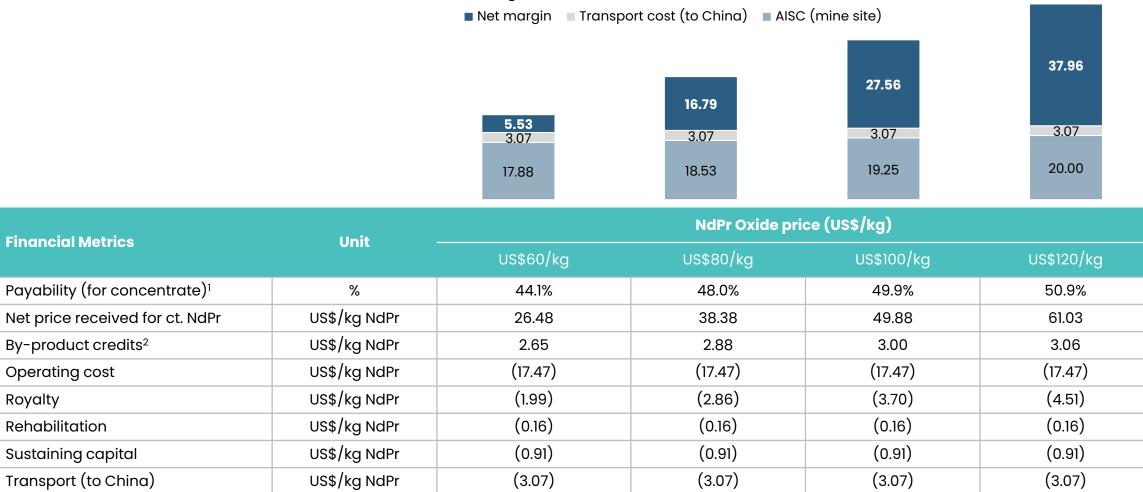
The payability factor is based on the binding offtake agreement signed with Peak's strategic partner, Shenghe on 9 August 2023

<sup>2</sup>Financial outputs shown are net of distributions to the Government of Tanzania which include corporate taxes, royalties and other fees, and dividends attributable the Government's 16% free-carried interest

## FEED Study outcomes ... highly robust cost structure

US\$/kg NdPr Oxide

#### Attractive margins delivered across pricing cycle





<sup>1</sup>Based on a concentrate grade of >45% TREO. Pricing of concentrate based on binding offtake agreement with Shenghe as announced on 9 August 2023 <sup>2</sup>Based on current spot prices for by-product credits including an LaCe Carbonate price of US\$0.5/kg and a SEG concentrate price of US\$33/kg. Assumes Ngualla concentrate specifications of 22.3% NdPr, 44.2% Ce, 30.1% La and 2.9% SEG Heavy (LOM averages)

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# Exploration ... offering additional upside

Commencement of exploration programme targeting highly prospective areas of the Ngualla deposit<sup>1</sup>

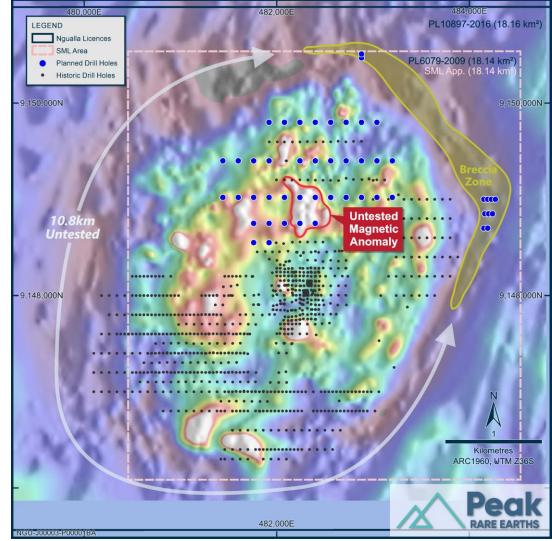
#### Exploration overview

- No drilling undertaken at Ngualla since 2016
- Recent commencement of exploration programme through H2 2023
  - Targeting highly prospective Northern Zone and Breccia Zone
  - o Covers untested magnetic anomaly within Northern Zone
  - SRK engaged to develop conceptual model of Northern Zone

#### **Status update**

- Conceptual model of Northern Zone completed
- ✓ Exploration drilling on site nearing completion
  - o 52 holes (for 3,731m) of RC drilling completed
  - o Diamond drilling within Breccia Zone underway
- ✓ First batch of samples currently being assayed at Nagrom (Perth)
  - o Includes Breccia Zone trench samples

#### First exploration results imminent





## **Exploration ... Northern Zone**

### Historical drilling supports prospectivity for rare earths, niobium and phosphate

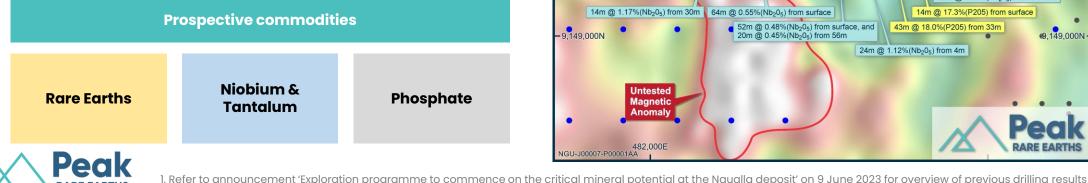
#### Northern Zone overview

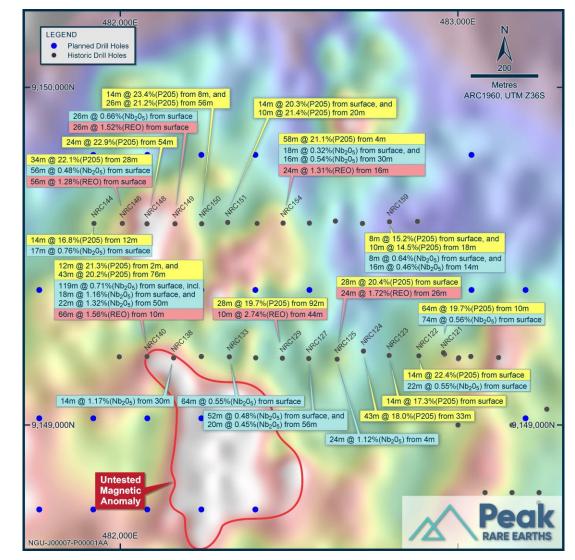
- ~0.7km<sup>2</sup> area, located 2km North of the Bastnaesite Zone
- 2,500m of drilling previously completed through 2011-2012<sup>1</sup>:
  - $\circ$  31 RC drill holes (for ~2,500m)
- Mineralisation currently open in all directions
- Rare earths primarily hosted within monazite & apatite

#### Current exploration programme:

RARE EARTHS

- ✓ Conceptual geological model of the Northern Zone completed
- ✓ All RC drilling completed on site (44 holes for 3,094m)
- ✓ RC samples currently being assayed at Nagrom (Perth)





### **Exploration ... Breccia Zone**

#### Historical trenching supports rare earths and fluorite prospectivity

#### Breccia Zone overview

- ~0.4km<sup>2</sup> area, located 2km North-east of the Bastnaesite Zone
- No previous drilling, although several trenches excavated as part of soil sampling campaign in 2017<sup>1</sup>
- Mineralisation currently open in all directions

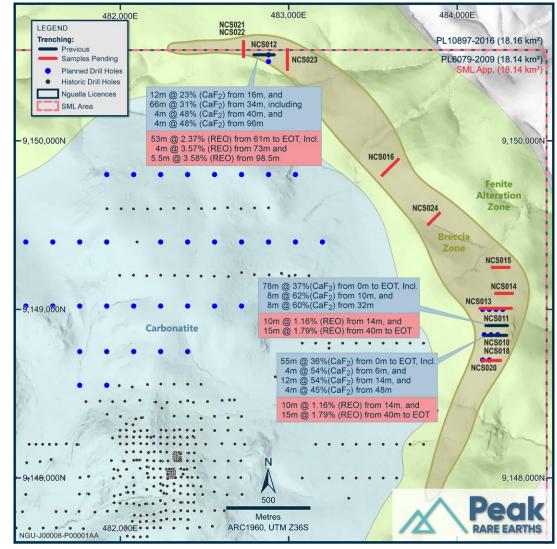
#### **Current exploration programme:**

✓ RC drilling nearing completion:

RARE EARTHS

- 8 holes for 637m completed and awaiting assays
- o 2 holes (160m) in Northern Breccia Zone remaining
- ✓ 356 samples from previous trenching campaign currently being assayed at Nagrom (Perth)



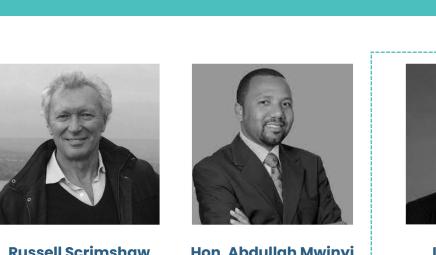


1. Refer to announcement 'Exploration programme to commence on the critical mineral potential at the Ngualla deposit' on 9 June 2023 for overview of previous drilling results

### Delivery overseen by ... an experienced and multi-disciplined board

Recent additions to Board provide deep sector, development and funding experience

**Board of Directors** 



Russell Scrimshaw Executive Chairman

Peak

Hon. Abdullah Mwinyi Non-Executive Director



lan Chambers Non-Executive Director Shasha Lu Non-Executive Director

Recent additions (have joined in the last year)

Nick Bowen Non-Executive Director Hannah Badenach Non-Executive Director



### Execution led by ... an experienced team with a proven track-record Management has extensive experience funding and developing mining projects

**Key management** 





Lello Galassi **Head of Operations** 



Ismail Diwani Head of Tanzania & **Director MML<sup>1</sup>** 

**Previous experience** 

Recent additions (have joined in the last year)



Patrick Rutabanziba Senior Tanzania Advisor & Chairman MML<sup>1,2</sup>



**Ray Anguelov Head of Technical** Services



**ABN·AMRO** 

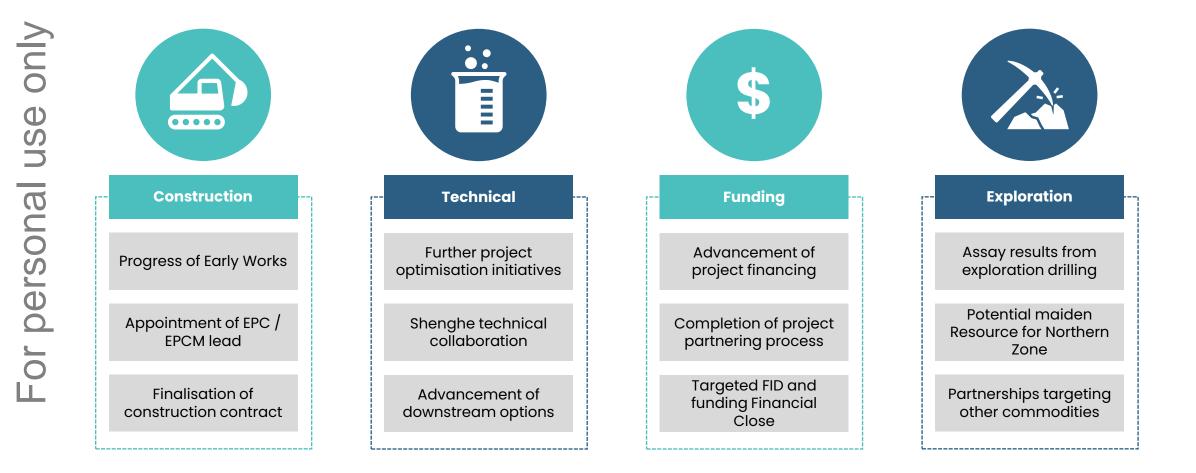




MML – Tanzanian entity Mamba Minerals Corporation Limited, a JV between Peak Rare Earths (84%) and the Government of Tanzania (16%) Patrick Rutabanziba has been nominated by Peak for the role of Chair of MML

### Ngualla ... up to and beyond FID

Targeted future milestones and potential newsflow over coming months





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