

Powering the green transformation

**Jane Morgan Management
Broker Briefing – Rare Earths and Critical Minerals**

27 July 2023



ASX: PEK

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Compliance Statement

Information contained in this presentation relating to financial forecasts, production targets, infrastructure, project execution, cost estimating, metallurgical test work, exploration results, Mineral Resource estimates, Ore Reserve estimates and studies are taken from the Company’s ASX announcement dated 24 October 2022 “Completion of Ngualla Project BFS Update” which is available to view on <https://www.peakrareearths.com/announcements/>. Further information relating to the Mineral Resource estimates is in the ASX announcements dated 22 February 2016 and 2 March 2017 which are also available to view on <https://www.peakrareearths.com/announcements/>. 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 announcement and that all material assumptions and technical parameters underpinning the estimates in the relevant announcement continue to apply and have not materially changed. The Company confirms that at this time the form and context in which the Competent Person’s findings are presented have not been materially modified from the original market announcements.

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

Peak Rare Earths ... focused on advancing the Ngualla Project

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

Share price history



Capital structure

Ordinary shares on Issue:

264.5m

Share Price (25 July 2023):

A\$0.505/sh

Market capitalisation:

A\$133.6m

Net cash:

A\$28.9m¹



Peak's proposition ... a compelling investment opportunity

A world class high-grade deposit with a supportive major shareholder and a de-risked sequenced strategy

1. Compelling market outlook for NdPr Oxide



- ✓ Strong nexus to global decarbonisation initiatives
- ✓ Rapid growth in EV and wind turbines to drive demand
- ✓ Near-term market tightness and strong price outlook

2. Nguala is a world-class asset



- ✓ High grade and low radionuclides
- ✓ Multi-generational (24 years¹ based on Reserves)
- ✓ BFS confirmed a post-tax NPV₈ of US\$1.5b¹

3. De-risked, staged approach to development



- ✓ All key agreements in place – Framework Agreement executed and Special Mining Licence granted
- ✓ Sequenced approach reduces upfront capex and technical risk

4. Future development upside



- ✓ Exploration upside and resource extension
- ✓ Multi-commodity potential
- ✓ Optionality around downstream development

5. Attractive mining jurisdiction



- ✓ Rapid transformation of Tanzanian economy
- ✓ Established mining sector
- ✓ FWA grants prioritised under the current President

6. Shenghe – supportive partner and potential offtaker



- ✓ Highly experienced across the rare earth value chain
- ✓ Peak's largest shareholder (~19.8%) and offtake MOU² for 75-100% of Nguala production
- ✓ Technical support and potential project investment

7. Proven leadership team



- ✓ Deep sector knowledge
- ✓ Track record in funding and delivering projects
- ✓ Tanzanian and emerging markets experience

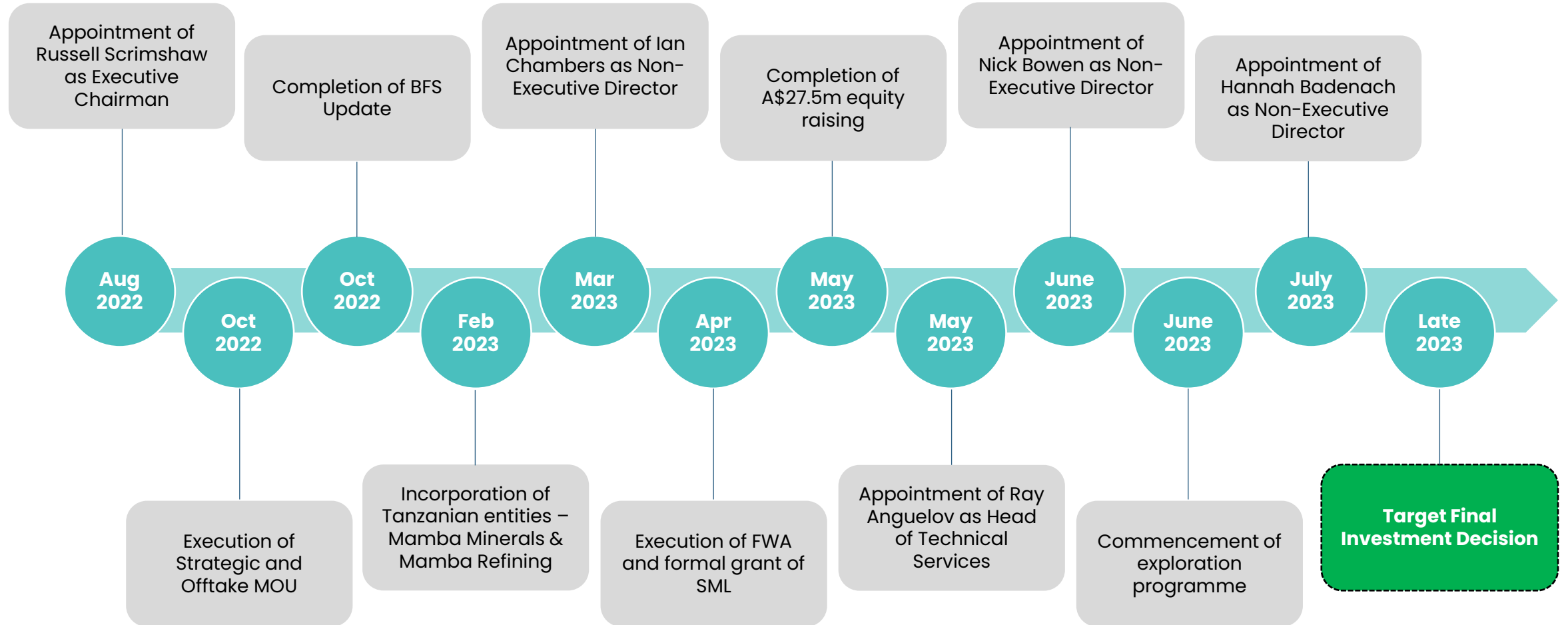
8. Strong ESG credentials



- ✓ Committed to ESG best practices
- ✓ Strong community investment and relationships
- ✓ Significant job creation and revenue generation

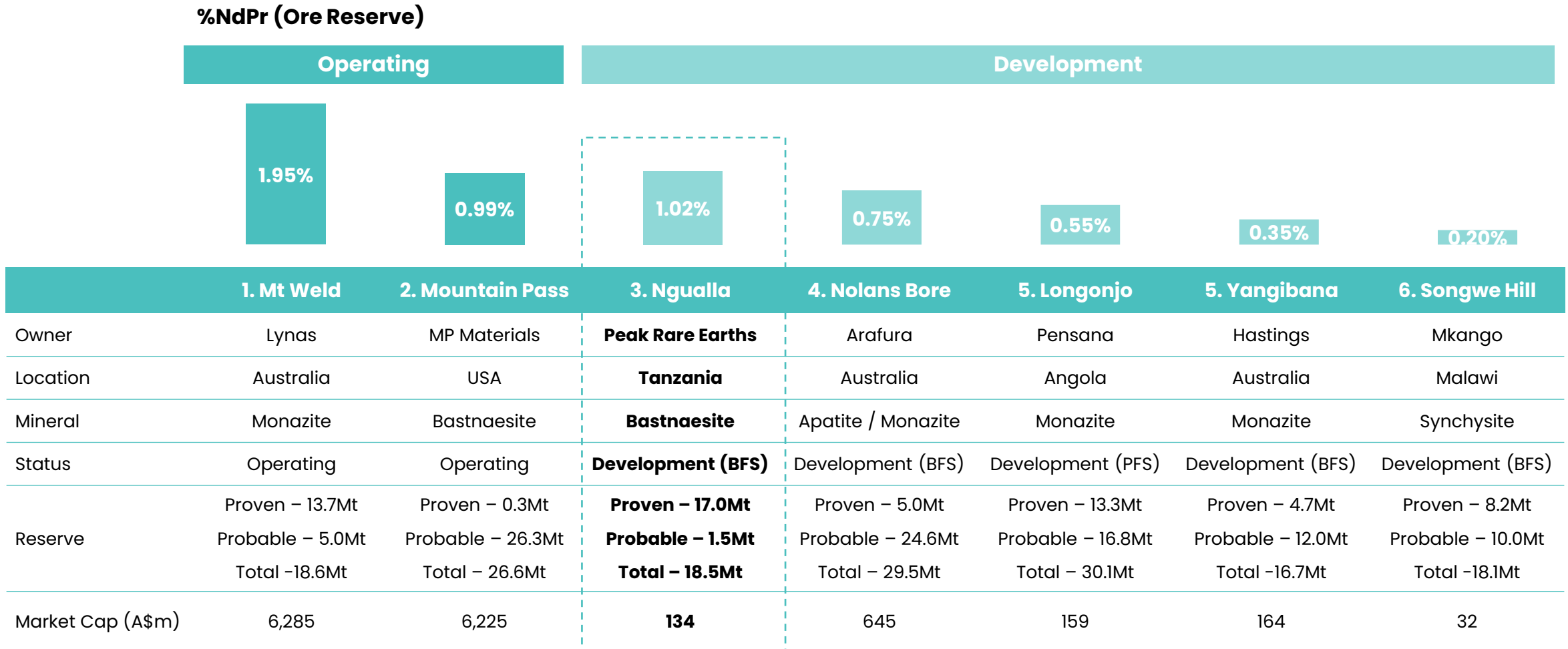
Achieved milestones ... progress and momentum

The Ngualla project is progressing rapidly towards development



Ore Reserves ... high-grade and supporting a long mine life

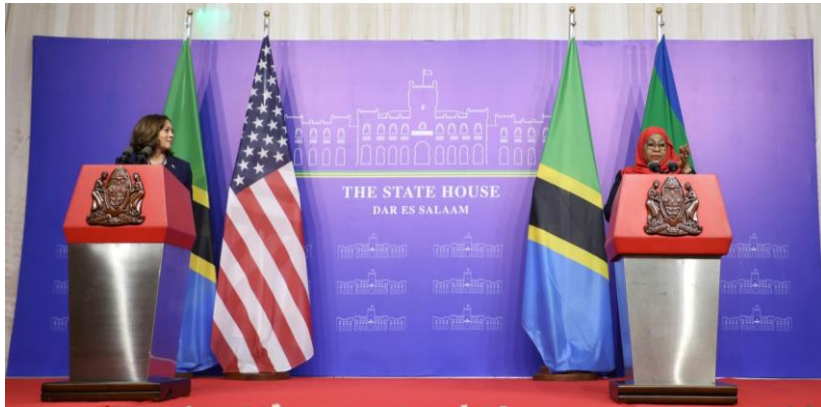
The Ngualla deposit is one of the world's highest grade undeveloped NdPr deposits



Tanzania ... open for business

Rising international visibility and a rapidly developing mining and resources sector

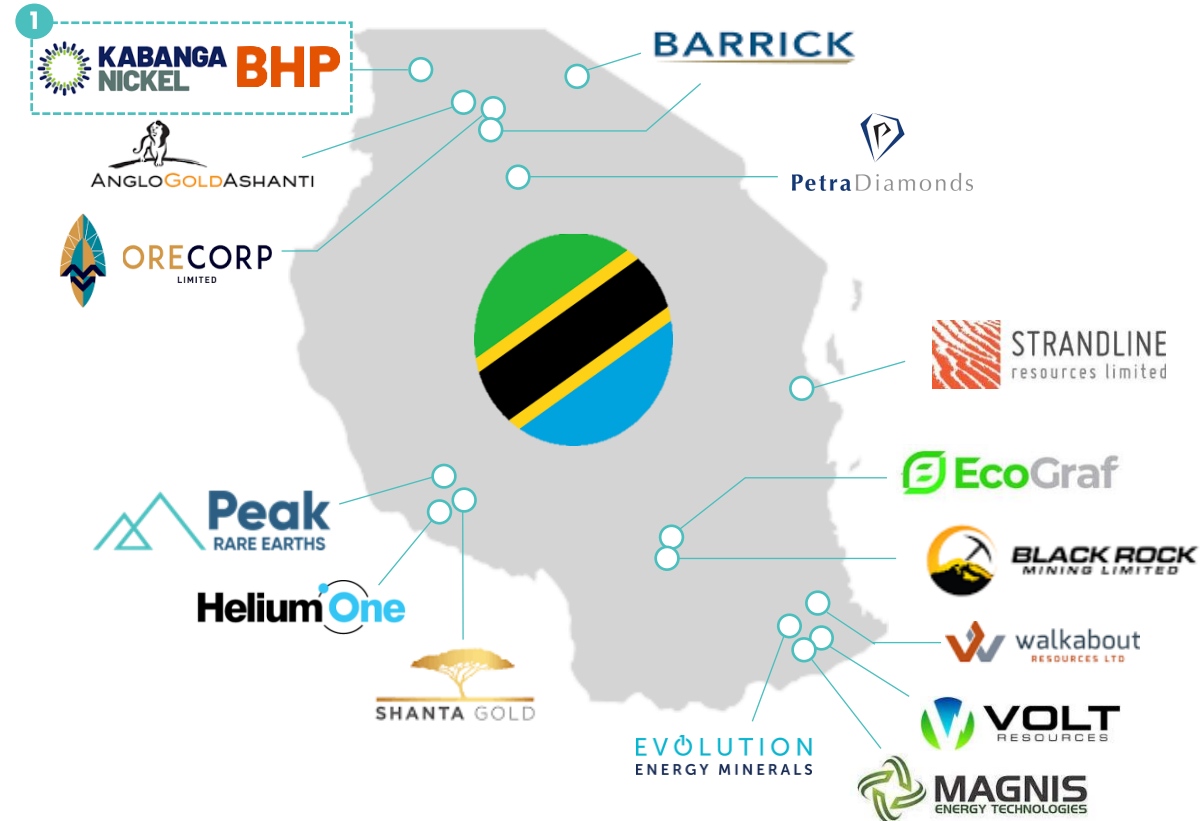
US Vice President – Tanzanian State Visit, March 2023



Execution of Framework Agreement, April 2023



Tanzanian mining operations and development projects



Framework Agreement¹ ... investment agreement formally executed

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



Framework Agreement ... key principles



Long-standing tenure

- Initial SML term lower of 33 years and mine life
- Ability to further extend



Right to export concentrate

- Ability to sell concentrate to third parties
- Supports staged development approach



Downstream optionality

- Independent study on a Tanzanian MREC refinery and other downstream options



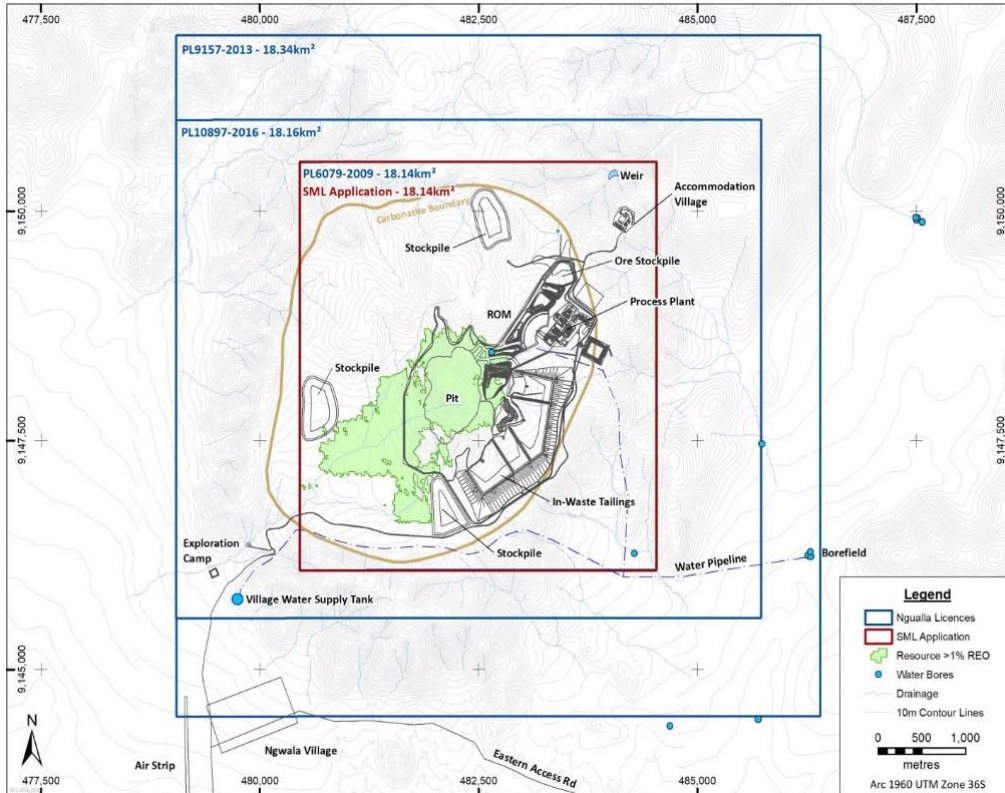
Enduring economic rights

- Equity ownership of 84%
- Fiscal stability provisions

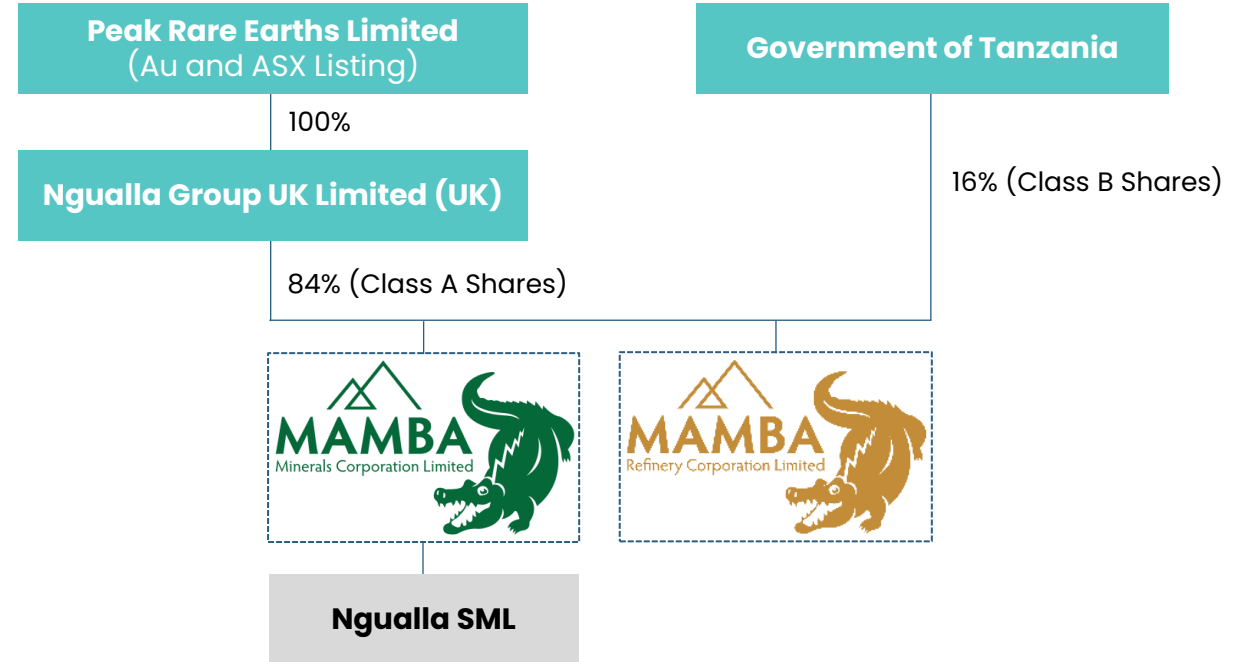
Special Mining Licence¹ ... large-scale area with a long-tenure

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

Ngualla Special Mining Licence (SML) and Prospecting Licence



Corporate structure



Shenghe partnership ... offtake, strategic and technical co-operation

The Shenghe MOU supports the accelerated development of the Ngualla Project¹



Offtake

- 75% – 100% of production from the Ngualla Project
- Initial 7 year term



Technical support

- Potential to cover both mining and beneficiation
- Leverage Shenghe's expertise across RE value chain



Project investment

- Potential project level investment by Shenghe
 - At a mutually agreed valuation



Other

- Standstill provisions in place
- Board seat subject to 10% shareholding
- Potential collaboration beyond Ngualla Project

Shenghe overview

- ✓ Peak's **single largest shareholder** with ~19.8% shareholding
- ✓ Large Chinese rare earth group with operations **spanning value chain**
- ✓ Shanghai listed non-SOE with ~**US\$3.0b** market capitalisation
- ✓ **Largest importer of rare earth concentrate** into China
- ✓ Internationally recognised expertise in mining and processing **bastnaesite mineralisation**
- ✓ Key strategic partner **and ~8% shareholding in MP Materials** (NYSE:MP; market cap ~US\$4.2b)
- ✓ Other overseas interests – **90% holding in Vietnam Rare Earth Company** and a **9% holding in Energy Transition Minerals (ASX:GGG)**

MP Materials ... also staging development

Shenghe a key strategic partner to MP through the restart of its Mountain Pass Mine

MP Materials overview

- NYSE listed with a market capitalisation of ~US\$4.2b
- Operates Mountain Pass – world's second largest rare earth mine
- Currently sells a bastnaesite mineral concentrate
 - Exporting ~40ktpa of concentrate to Shenghe
- Moving downstream into NdPr Oxide and magnet production

Shenghe's contribution to MP Materials

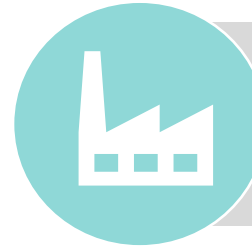
- ✓ Founding investor in restart of mine and 7.7% shareholding
- ✓ ~US\$80m in funding support (prepayment)
- ✓ Technical support for restart and ramp-up
- ✓ 100% offtaker of bastnaesite concentrate

Staged development approach



Stage I: Concentrate production (current)

- Restart of Mountain Pass Mine
- Production of bastnaesite concentrate



Stage II: NdPr Oxide production

- Restart of Mountain Refinery
- First production 2023 (~6ktpa NdPr Oxide)



Stage III: Permanent magnet production

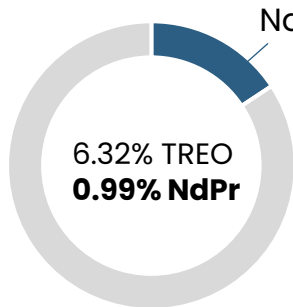
- Magnet facility currently under development
- Strategic development partnership with GM

MP Materials ... a comparison with Peak

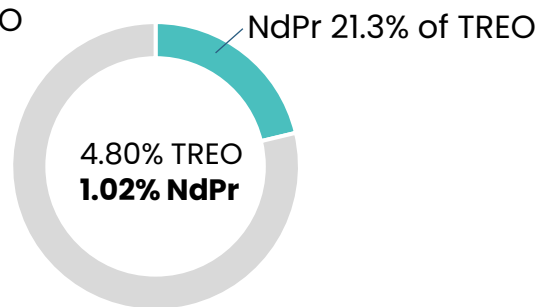
Peak compares favourably with MP Materials

1. Ore Reserve (grade)^{1,2}

Mountain Pass

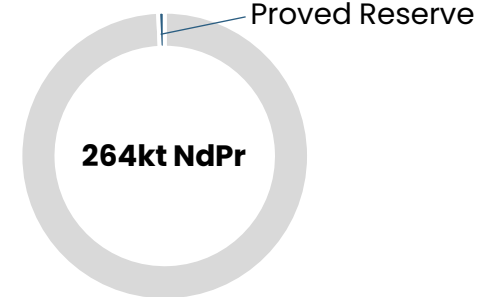


Ngualla

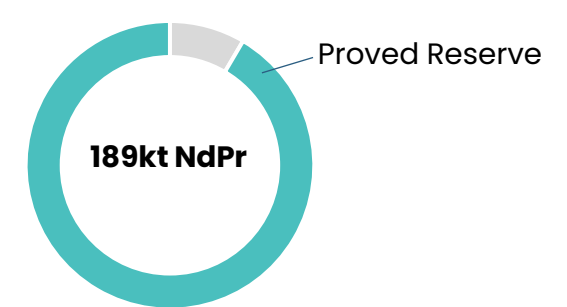


2. Ore Reserve (contained NdPr)^{1,2}

Mountain Pass



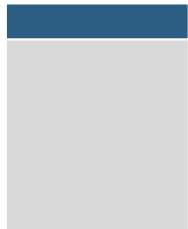
Ngualla



3. Bastnaesite concentrate production^{2,3}

Mountain Pass

6.7ktpa ct. NdPr



42.5ktpa TREO

Ngualla (targeted)

3.6ktpa ct. NdPr



16.2ktpa TREO

4. Trading – Reserve (EV / Ct. NdPr) multiples⁴

MP Materials (Operating)

US\$14,067/t NdPr



EV: US\$3,714m

Peak Rare Earths (Development)

US\$376/t NdPr



EV: US\$71m

Operating companies will generally trade on higher multiples than development companies. MP Materials has a track-record of profitable operations, while Peak remains a development company

Exploration ... offering additional upside

Commencement of exploration programme targeting highly prospective areas of the Ngualla deposit

Exploration overview

- No drilling undertaken at Ngualla since 2016 given focus on advancing rare earth project
- Commencement of exploration programme through H2 2023 targeting Northern Zone and Breccia Zone of Ngualla deposit
- Targeting 40 RC drill holes for ~4,000m of drilling
- SRK engaged to develop conceptual model of Northern Zone

1. Northern Zone

Phosphate

Niobium

Monazite

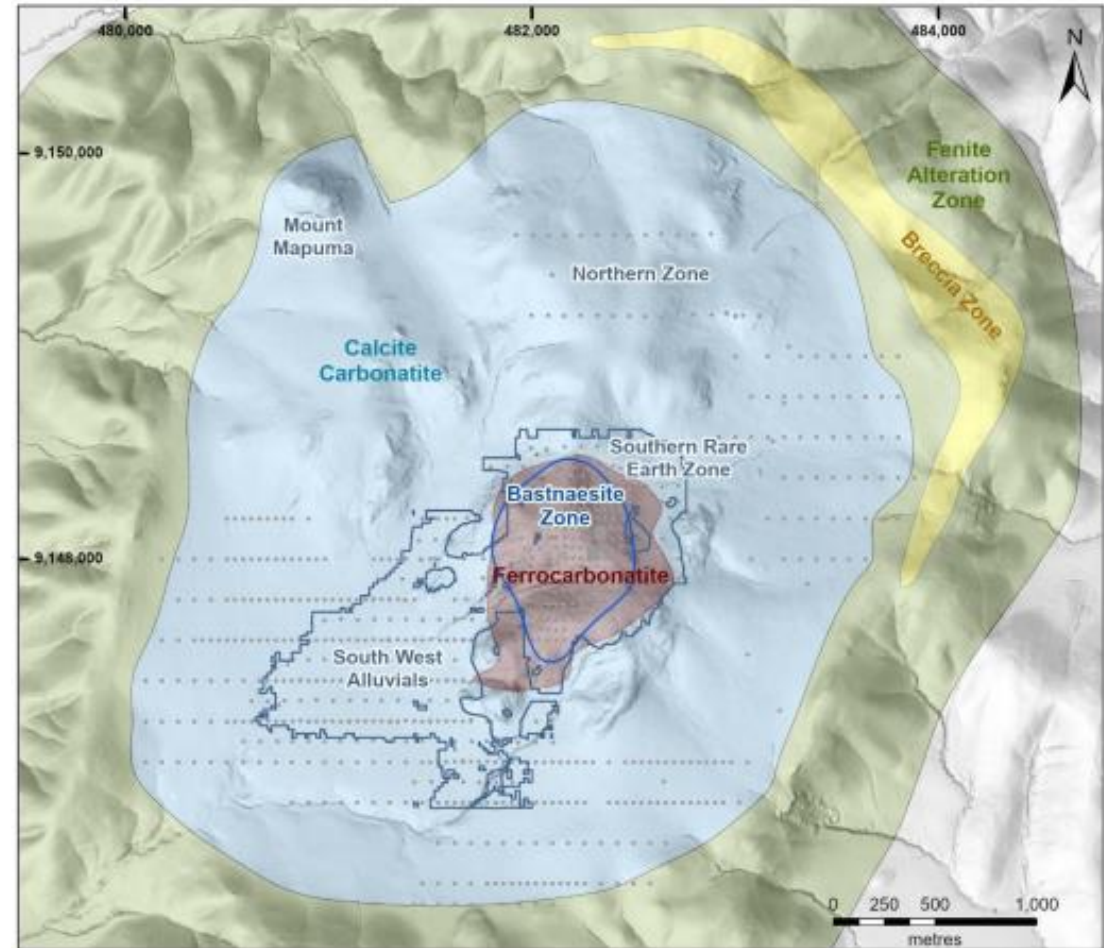
Heavy Rare Earths

2. Breccia Zone

Fluorspar (Fluorite)

Monazite

Other Commodities?



Ngualla ... up to and beyond FID

Targeted future milestones and potential newsflow through the next six months



Construction

Commencement of early works

Appointment of EPC / EPCM lead

Execution of construction contract



Technical

Completion of FEED and optimisation initiatives

Technical collaboration

Advancement of downstream options



Funding

Appointment of Mandated Lead Arranger (MLA)

Finalisation of term-sheets

Strategic partners / project-level investment



Exploration

Conceptual model and Exploration Target

Drilling and assay results

Reconnaissance work around other areas of Ngualla deposit



Offtake

Binding offtake

Partnerships targeting other commodities

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