



**COOLABAH**  
METALS



**BROKEN HILL**  
**MINES**

**Investor Presentation**

October 2024



**Rasp & Pinnacles Ag-Pb-Zn Mines**  
Consolidating one of Australia's great mining jurisdictions

# Important Notice & Disclaimer



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## Summary information

This presentation has been prepared by Coolabah Metals Limited (to be renamed 'Broken Hill Mines Ltd') (**Coolabah, BHM or the Company**) relating to the acquisition and development of the Rasp Mine and commercial transaction over the Pinnacles Mine in Broken Hill, NSW (the **Project**). The issue of this presentation is intended only for the person or entity to which it has been transmitted (**Recipient**).

## Not a disclosure document

The purpose of this presentation is to provide general information about the Company and Project mentioned herein only. This presentation is not a disclosure document for the purpose of Chapter 6D of the Corporations Act 2001 (Cth) (**Corporations Act**) and does not purport to include the information required of such a disclosure document. It has not been approved by any regulatory authority such as the Australian Securities and Investments Commission or the Australian Securities Exchange.

## Nature of Mineral Exploration & Development

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## No other material authorised

The Company (and each of its Related Entities) has not authorised any person to give any information or make any representation in connection with any proposed offer of securities. A prospective investor cannot rely upon any information or representations not contained in this presentation.

## JORC Disclosure

The mineral resources, exploration target and exploration results in this Presentation have been estimated in accordance with the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (the 'JORC Code'). Full details will be contained in the Prospectus to be lodged by the Company in connection with its capital raising and ASX listing. The information in this announcement that relates to Mineral Resources was first disclosed on 17 September 2024. The Company confirms that it is not aware of any new information or data that materially affects the information in the relevant market announcement, and confirms that the technical parameters and material assumptions underpinning the estimates continue to apply and have not materially changed.

## Exploration Targets

The potential quantity and grade of Exploration Targets are conceptual in nature, there has been insufficient exploration to estimate a Mineral Resource and it is uncertain if further exploration will result in the estimation of a Mineral Resource. The Exploration Target is derived from historical drilling which enabled extrapolation of the mineralised domains (Main Lead Lode and Immediate Footwall Zinc Lode only) beyond the limits of the Inferred Resource. This extrapolation is based on the latest geological modelling with an estimation of a potential grade range sourced from all the drilling data for the lode intersections. The Company intends to commence near mine exploration shortly after completion of the public offer, which will focus on extending the down dip and along strike extensions of the known deposit with the view to convert the Exploration Target into a Mineral Resource.

## Upcoming Public Offer

For the purposes of section 734(5)(b) of the Corporations Act, the Company notes the following:

- the Company intends to conduct a public offer to raise between A\$3 million and A\$4 million by an issue of ordinary shares under a prospectus;
- the prospectus will be made available when the shares are offered;
- anyone who wants to acquire shares under the public offer will need to complete an application form that will be in or will accompany the public offer prospectus (**Prospectus**); and
- a copy of the Prospectus will be available on the Company's website (<https://coolabahmetals.com.au/>) or from the Company's registered office.

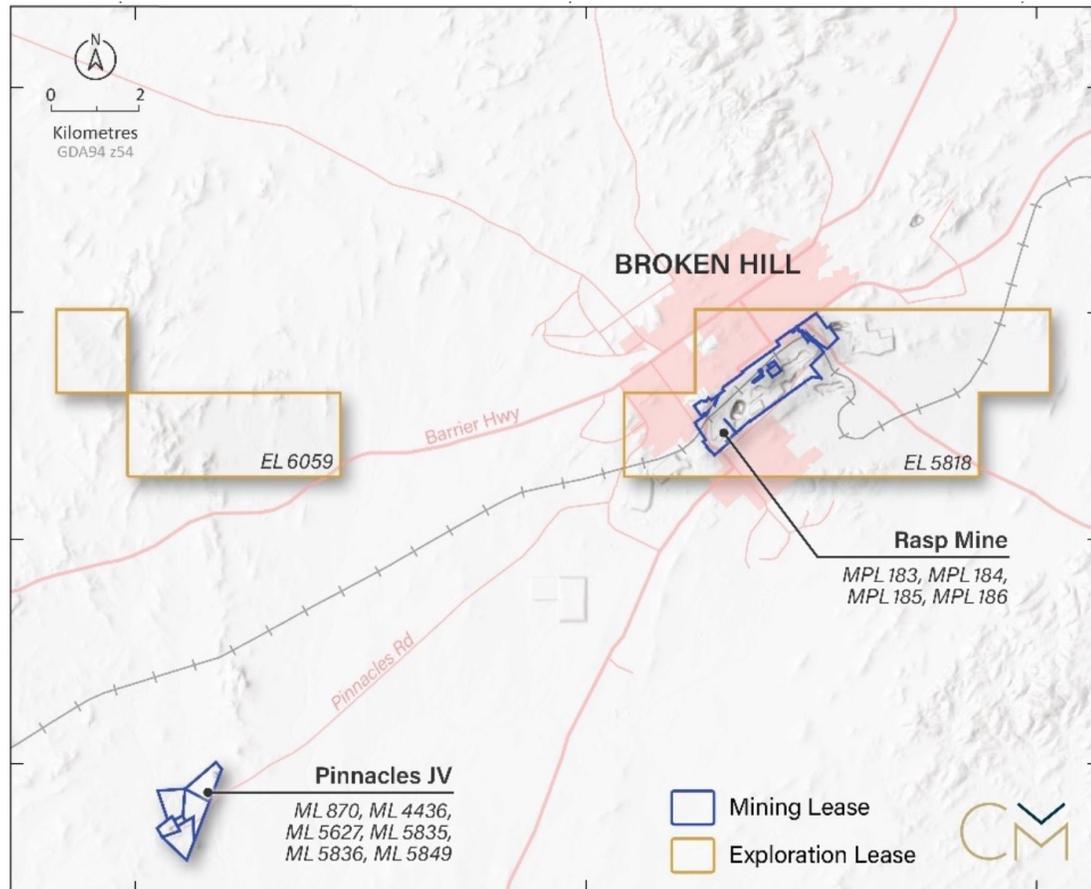
# Broken Hill Mines Strategy

Broken Hill Mines Pty Ltd is undertaking a public listing via the reverse takeover of ASX-listed Coolabah Metals Limited

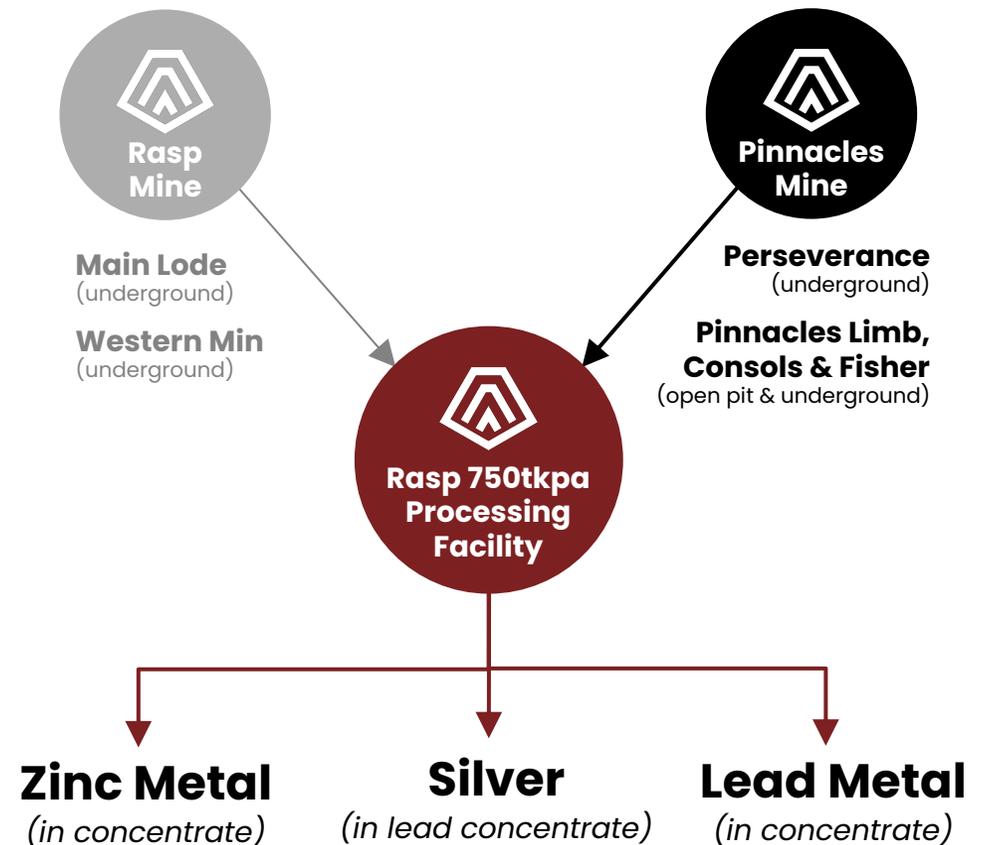


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## Broken Hill Tenement Map



## Consolidation of Rasp & Pinnacles Mines



# Capital Structure

Consolidating operational Rasp Mine infrastructure with Pinnacles Mine mineral resource base



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**Proposed ASX  
Code**

**BHM**

**Equity**

**~243m**

total Shares<sup>1</sup>

**~97m**

total Options<sup>1</sup>

**Cash & Facilities**

**A\$32.5m**

total cash & undrawn  
working capital facilities<sup>2</sup>

**A\$17m**

fully cash-backed  
environmental bond<sup>2</sup>

**Valuation**

**A\$48.5m**

market capitalisation  
(at \$0.20 recompliance)<sup>1</sup>

**A\$39.0m**

enterprise value  
(at \$0.20 recompliance)<sup>1</sup>

## Board & Management<sup>3</sup>

The BHM founding management team has a track record in acquiring, developing, and operating world-class mature-life mines



**Patrick Walta**  
Executive Chair

New Century Resources & Broken Hill Mines Co-Founder  
Experience in M&A & large-scale Ag-Pb-Zn operations  
Qualified metallurgist & mineral economist



**Mark Hine**  
Independent Non-Executive Director

35 years' experience in surface and underground mining  
COO of Griffin Mining, Focus Minerals, Golden West Resources & Exec GM Mining at Macmahon  
GM Pasmaenco (Broken Hill), CSA Cobar, Consolidated Rutile Ltd and Yilgarn Star.



**Brent Walsh**  
Independent Non-Executive Director

Experienced executive across mining & financial sectors  
Current GM of Strategy, Dev. & Projects at MMG Ltd  
Qualifications in Finance & Mineral Exploration Geoscience



**Steve Woodham**  
Non-Executive Director

30 years' experience in mining & exploration industry  
Founding director Aurelia Metals, Centaurus Metals & LFB Resources (merged with Alkane Metals)  
Multiple significant discoveries.

<sup>1</sup> See Prospectus to be lodged in November 2024 for updated details - inc. BHM Converting Note shares (25m), Recompliance raise shares (20m), Cash Conversion Consideration shares (20m), Facilitator shares (8.0m). Figures assume that the maximum subscription of A\$4,000,000 (before costs) is raised under the recompliance capital raising.

<sup>2</sup> See Prospectus to be lodged in November 2024 for updated details - inc. estimated cash inc: BHM (\$4m), Coolabah (\$3.5m), BHO (\$5m) & Recompliance raise (\$4m) & CBH Resources environmental bond contribution (\$10m), less enviro bond cash backing (-\$17m). Working capital facilities inc: Zinc Offtake Facility (US\$5.25m) which is fully committed & Lead Offtake Facility (US\$10m), which remains conditional on various conditions precedent, including entering long form documentation

<sup>3</sup> Proposed board subject to completion of public listing. See Coolabah Metals (ASX:CBH) Announcement dated 19 Sept 2024

# Rasp Mine

Overview & Strategy for Life Extension



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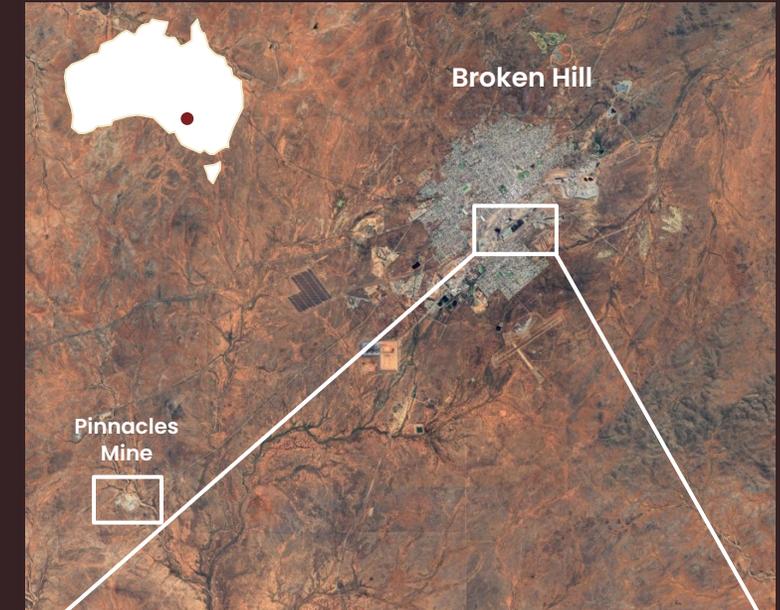


# Rasp Mine Overview



<b>Location</b>	Centrally within the city of Broken Hill, New South Wales
<b>Property</b>	Consolidated Mining Lease 7 (CML 7) inc. Mining Purpose Leases 183, 184, 185, 186, as well as MLI249, EL5818 and EL6059
<b>Mineral Resources</b>	<b>10.1 million tonnes at 9.4% ZnEq<sup>1</sup> (5.7% Zn, 3.2% Pb &amp; 48.5 g/t Ag)</b>
<b>Mineralisation</b>	Metamorphosed VMS (volcanic hosted massive sulphide) deposit
<b>Mining method</b>	Sub-level open stoping and up-hole stoping
<b>Processing method</b>	Grinding, flotation, thickening and filtration
<b>Plant capacity</b>	750,000tpa
<b>Other Infrastructure</b>	Operating plant, sealed road and rail services, grid power to mine (22kV transmission)
<b>Workforce</b>	Residential (~118 employees & contractors)

<sup>1</sup>ZnEq definition outlined in the Appendix

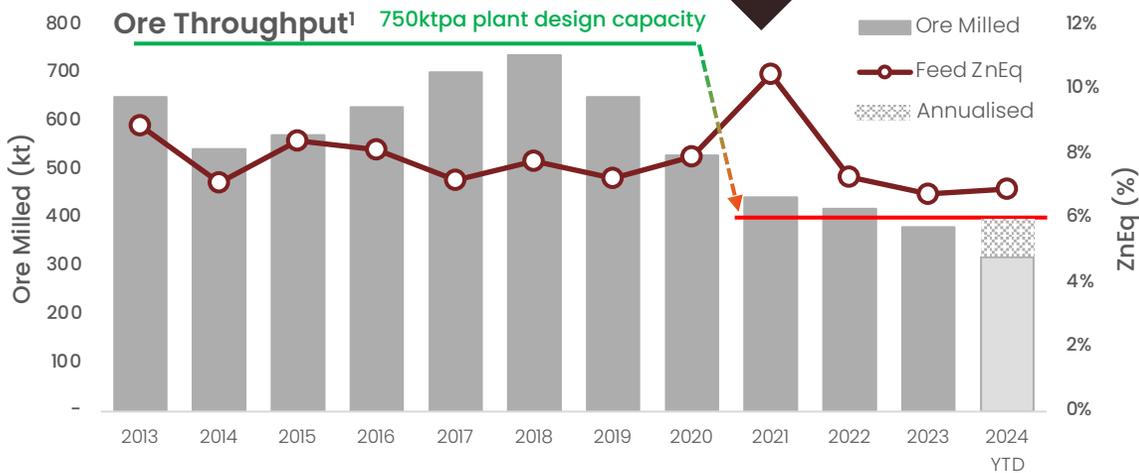


# Rasp Mine Historical Performance

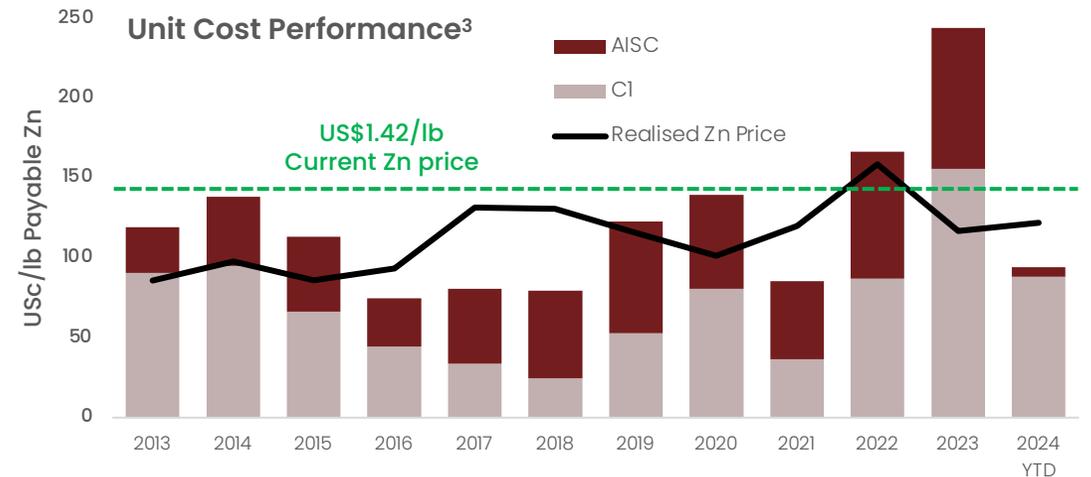
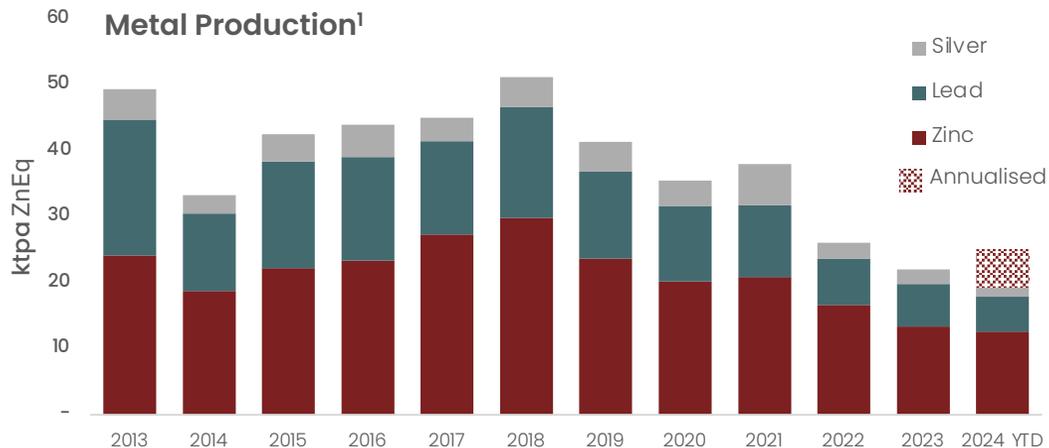
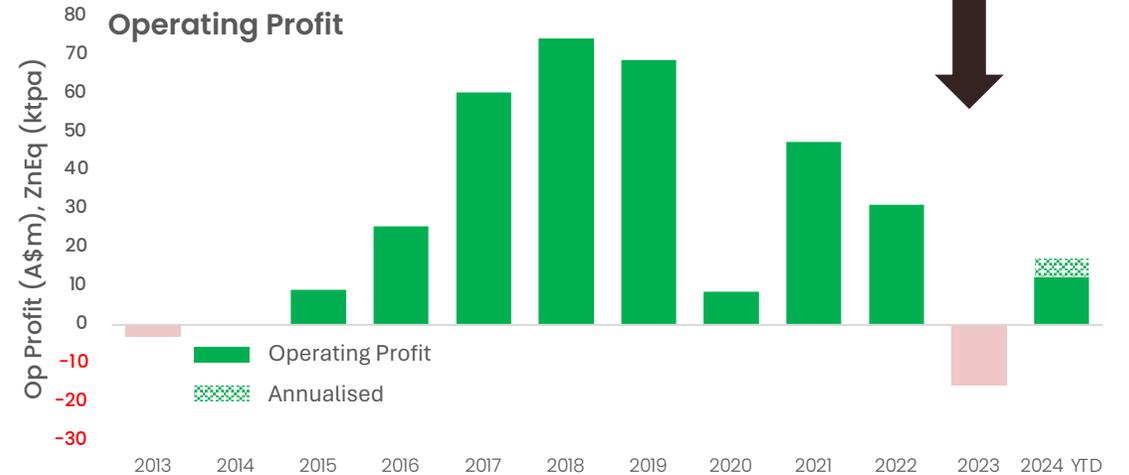


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Ore throughput constrained to ~400ktpa due to tailings management system (solar drying), with plant capacity of 750ktpa



2023 affected by: macro factors (~26% Zn price ↓ & ~93% TC ↑), one-month downtime & one-off costs inc. A\$8m in redundancies



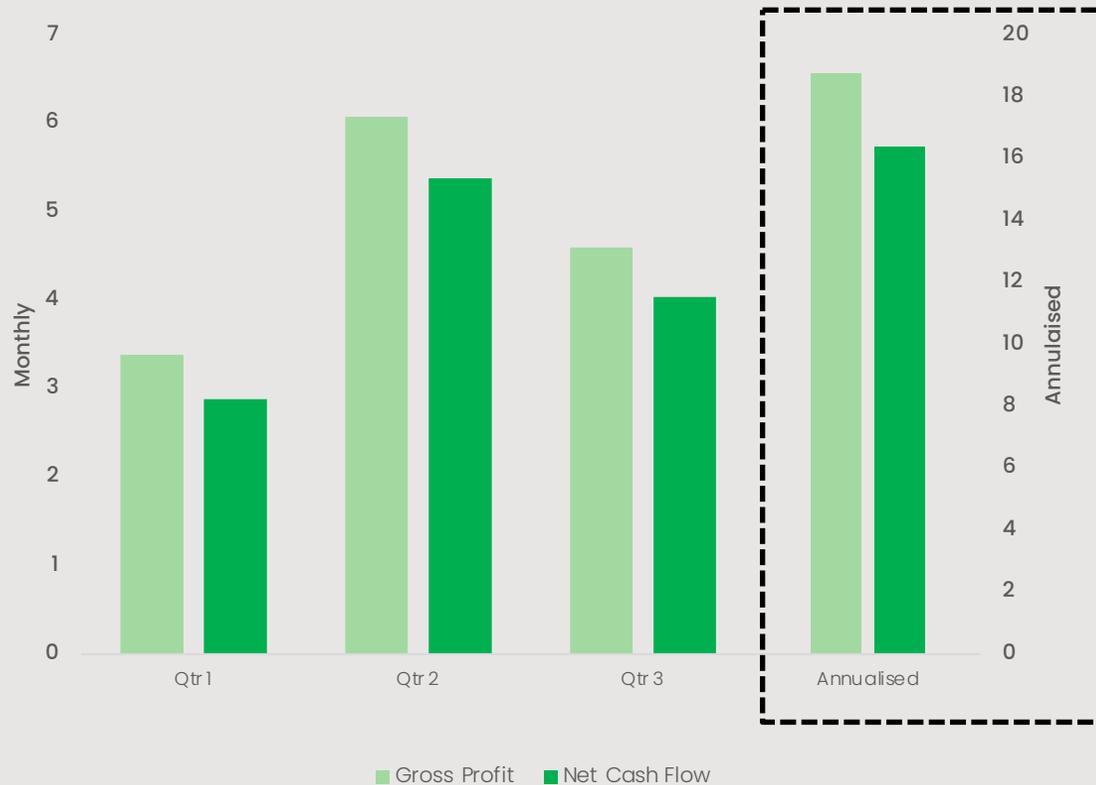
# Rasp Mine 2024 Performance

BHM to restart underground development in November 2024 to continue mine life



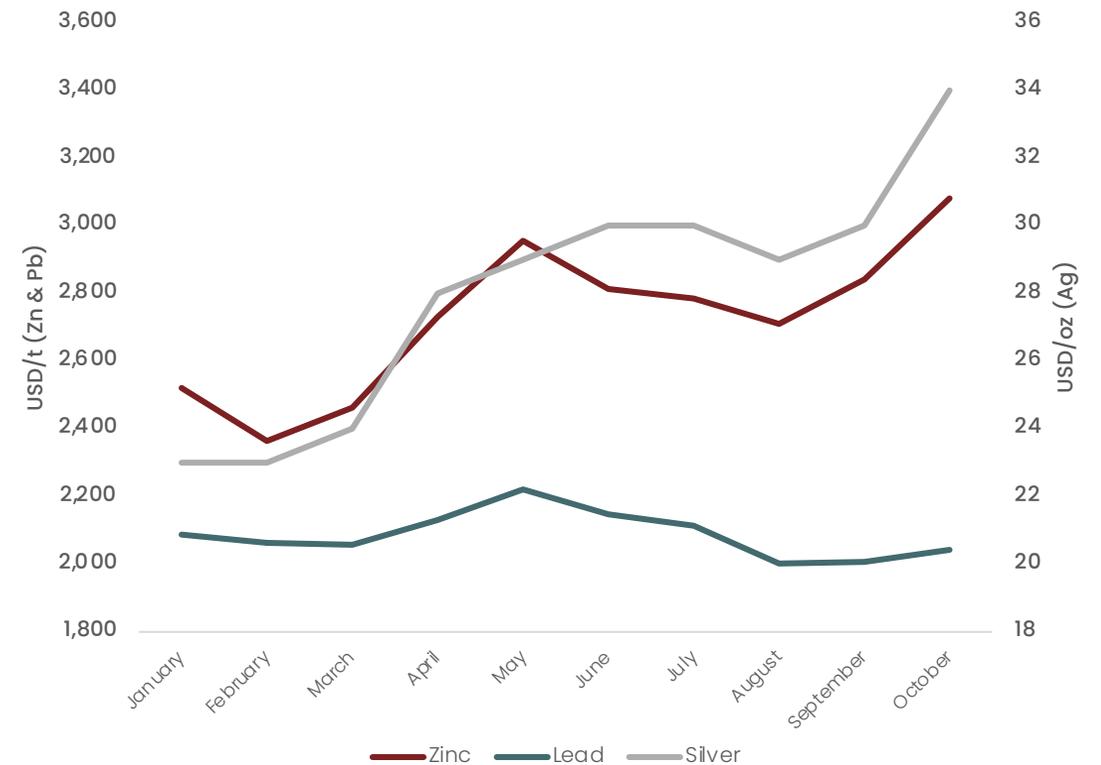
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## 2024 YTD Financial Performance (A\$m)<sup>1</sup>



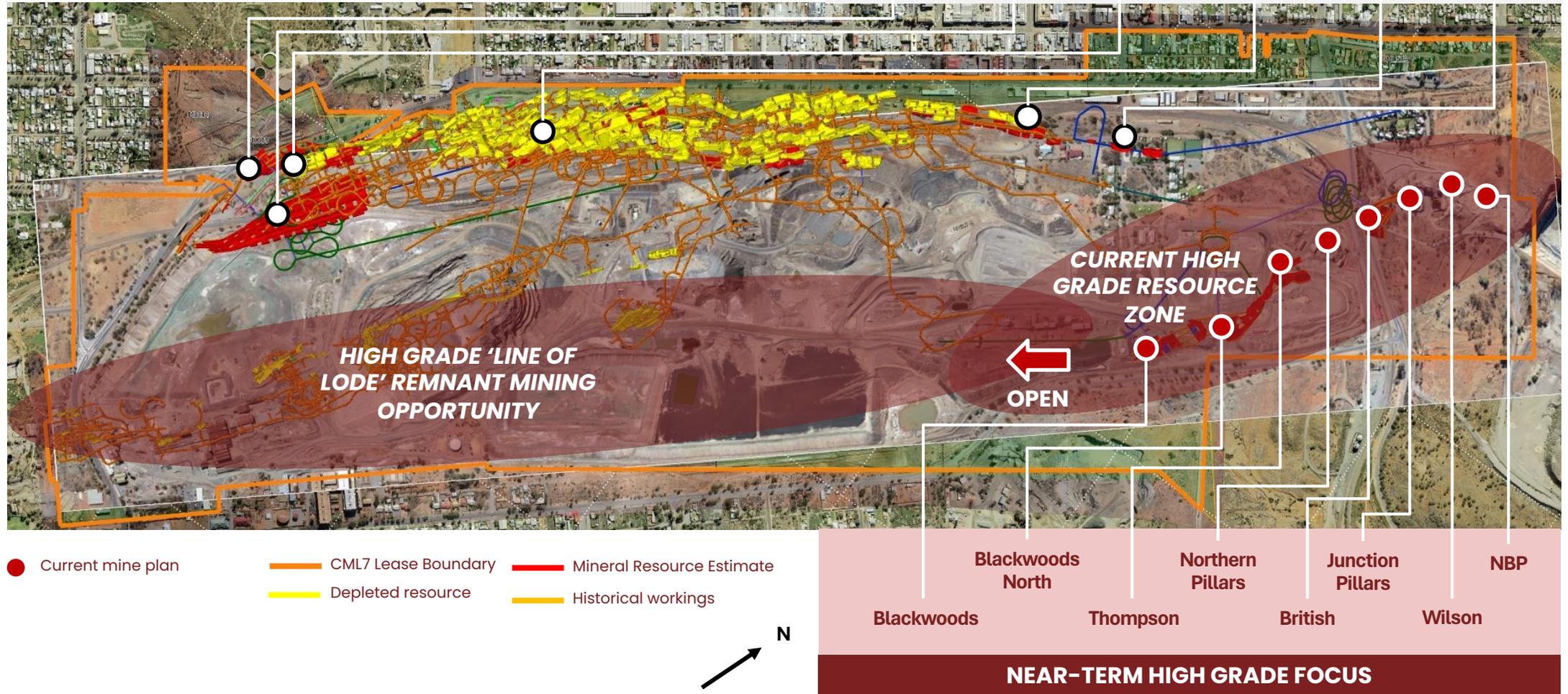
<sup>1</sup> Rasp Mine net cashflow from current operations 1H CY2024 A\$8.3 million. This figure is based on unaudited figures from BHOPL's monthly operational reports and comprises Cash Inflows less Cash Out Flows from Operations. The cashflow figures will be subject to an audit review which will be finalised prior to the lodgement of the Prospectus, and are therefore subject to changes that may arise as part of the review process. Annualised values are the average of January to July projected over a 12-month period.

## 2024 YTD Metal Prices<sup>2</sup>



<sup>2</sup> Based on Rasp Monthly Management Reports. October metal pricing is pricing on 18 October 2024: \$3,084/t Zn, \$2,043/t Pb, \$34/oz Ag

# Rasp Resources Overview



# Rasp: Clear Growth Strategy With Significant Optionality

Rasp MRE: 10.1Mt @ 9.4% ZnEq (5.6% Zn, 3.2% Pb, 48g/t Ag)



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## Near-Term: High-Grade Focus

### Main Lode

Initial focus of BHM development at Rasp, increasing grade and metal units for processing

Part of the original 'Line of Lode', Main Lode resources are high grade and shallow

High-grade Main Lode areas include:

- **Blackwoods:** 490kt @ 18.3% ZnEq (8.3% Zn, 7.5% Pb & 156g/t Ag)
- **British:** 180kt @ 15.5% ZnEq (7.2% Zn, 7.2% Pb & 101 g/t Ag)
- **NBP:** 140kt @ 21.6% ZnEq (8.3% Zn, 9.4% Pb & 222 g/t Ag)
- **Wilson:** 60kt @ 11.1% ZnEq (5.6% Zn, 3.9% Pb & 105 g/t Ag)

#### JORC 2012 Mineral Resource Estimate (Jan 2024)

Classification	Tonnes (kt)	ZnEq (%)	Zn (%)	Pb (%)	Ag (g/t)
Measured	245	18.0%	8.5%	7.0%	152.2
Indicated	355	19.9%	8.3%	8.6%	181.3
Inferred	270	14.6%	6.3%	6.8%	112.3
<b>Main Lode Total</b>	<b>870</b>	<b>17.7%</b>	<b>7.8%</b>	<b>7.6%</b>	<b>151.7</b>

## Medium-Term: Underpin Production

### Western Mineralisation

- The Western Mineralisation deposit has provided the bulk of the tonnes during Rasp's history
- Mine plan to continue mining in the Western Min Lowers South and open up the Siberia deposit
- Potential for resource extension in Lowers South and Siberia, with a large number high-grade intercepts outside the resource model

#### JORC 2012 Mineral Resource Estimate (Jan 2024)

Classification	Tonnes (kt)	ZnEq (%)	Zn (%)	Pb (%)	Ag (g/t)
Measured	940	9.0%	5.7%	3.1%	35.7
Indicated	2,260	7.9%	4.4%	3.2%	39.0
Inferred	1,165	8.2%	4.9%	3.0%	38.3
<b>Western Min Total</b>	<b>4,365</b>	<b>8.2%</b>	<b>4.8%</b>	<b>3.1%</b>	<b>38.0</b>

## Long-Term: Continued Resource Growth

### Centenary

- Centenary deposit remaining completely unmined to date
- Limited exploration drilling (13 holes), orebody requires more drilling & definition (open in all directions)
- Expected upside in grade and tonnage as orebody knowledge improves
- Exploration plan to use lower levels of Western Min to establish drill platforms for further resources characterisation

#### JORC 2012 Mineral Resource Estimate (Jan 2024)

Classification	Tonnes (kt)	ZnEq (%)	Zn (%)	Pb (%)	Ag (g/t)
Inferred	4,830	8.9%	6.0%	2.4%	39.3
<b>Centenary Total</b>	<b>4,830</b>	<b>8.9%</b>	<b>6.0%</b>	<b>2.4%</b>	<b>39.3</b>

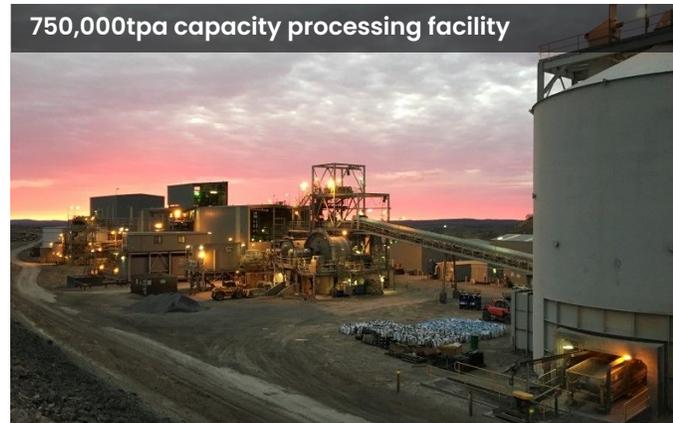
# Rasp: Vast Sunk Capital & >10 Years of Operations

## A fully operational mine and processing infrastructure:

- 750,000tpa capacity processing plant
- Operating mobile fleet
- ROM ore and UG broken feedstock
- Fully stocked stores
- Environmental bond fully cash backed: A\$16.9m

## Mining statistics since 2013:

- 5.7Mt ore extracted
- 9.5Mt total material movement
- 55km total development

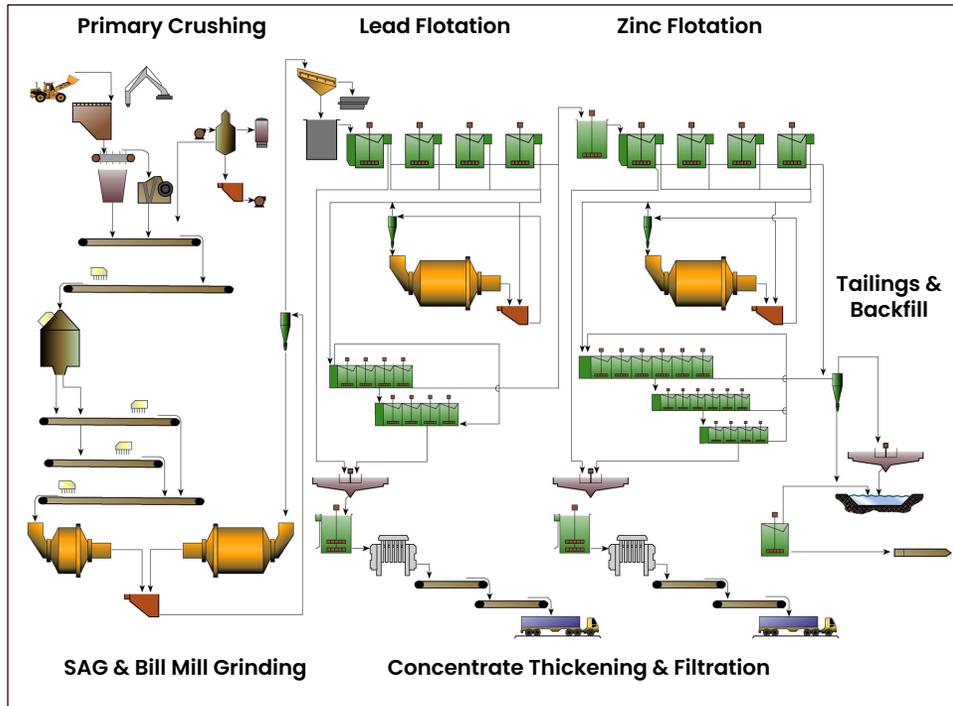


# Simple Processing of Zinc & Lead Concentrates



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Modern, 750ktpa capacity plant using conventional comminution (coarse 200um grind) & sequential flotation



## Processing statistics since 2013:

- Zinc recovery (avg.): 88%
- Lead recovery (avg.): 88%
- Silver recovery (into Pb conc., avg.): 75%



Modern Rasp Processing Plant (construction 2012)

# Established Production & Logistics Supply Chain

- **Zinc concentrate typical grade: 49-50% zinc**
- **Lead concentrate typical grade: 65% Pb & 800 - 1,000g/t Ag**

Lead concentrate is typically transported to Nyrstar Lead Smelter at Port Pirie and zinc concentrate is exported globally via Port of Adelaide. Much of the historical Rasp zinc concentrate has been sold to the Nyrstar Zinc Smelter in Hobart.

Rasp mine is conveniently located on the Broken Hill line connecting Sydney and major NSW ports with Port Pirie and Adelaide.

Ample concentrate handling capacity available on existing rail network.

Rasp owns a rail siding connecting to the line allowing it to load concentrate containers onto wagons.

Pinnacles owns an additional rail siding located proximal to the Mine.



# Pinnacles Mine JV

70% Operating Profit Share Arrangement Over the Pinnacles Mine



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# Pinnacles Mine Overview



<b>Location</b>	15km south-west of the city of Broken Hill, New South Wales
<b>Property</b>	Mining Leases ML 4436, ML 5627, ML 5835, ML 5836, ML 5849, ML 870 and Environmental Protection Licence EPL 5261
<b>Mineral Resources</b>	<b>6.0 million tonnes @ 10.9% ZnEq (4.7% Zn, 3.3% Pb &amp; 132g/t Ag)</b>
<b>Exploration Target<sup>1</sup></b>	<b>6.0 - 15.0 million tonnes @ 2.0 - 4.0% Zn, 3.0 - 6.0% Pb, 40 - 125g/t Ag)</b>
<b>Mineralisation</b>	Metamorphosed VMS (volcanic hosted massive sulphide) deposit
<b>Mining method</b>	Combination of underground and open pit proposed
<b>Ore Transport</b>	Via existing haul road and public roads to Rasp site <sup>2</sup>
<b>Processing Method</b>	Grinding, flotation, thickening and filtration (via Rasp Processing Plant) Similar recovery profile to Rasp ore <sup>2</sup>
<b>Other Infrastructure</b>	Residential (~118 employees & contractors)

<sup>1</sup> Exploration Target excludes Mineral Resources. The potential quantity and grade of Exploration Targets are conceptual in nature, there has been insufficient exploration to estimate a Mineral Resource and it is uncertain if further exploration will result in the estimation of a Mineral Resource.

<sup>2</sup> These modifying factors have not been considered in the Mineral Resource Estimate disclosed to date and are based on the current intention of the Company. The incorporation of these modifying factors into future calculations of the Mineral Resource Estimate may cause changes to the Mineral Resource Estimate.





**Considered to be one of the highest grade and shallowest deposits in Broken Hill, the Pinnacles Mine remains relatively undeveloped, with only small-scale historical mining targeting the rich Galena (lead ore) lodes**

## **Pinnacles Mining History:**

- Pinnacles mining started in 1884, to a **depth of 80m below surface only**
- Only the high-grade silver rich portions of the lead lodes were mined, with zinc rich ore and 'low grade' lead ore left in place or used as stope filling

## **Pinnacles Corporate History:**

- **Privately owned by the Williams family since 1954**
- Planned Pinnacles IPO in 2007, stopped due to global financial crisis
- Williams family has continued to define further potential of Pinnacles over the last 15 years, including **discovery of the Perseverance ore body**

## **Mineral Resource Upside:**

- Current Mineral Resources based on >55,000m of drilling to date
- **~3,000m of drill core awaiting assay**



Historical drill core at the Pinnacles Mine

# Pinnacles Exploration & Development



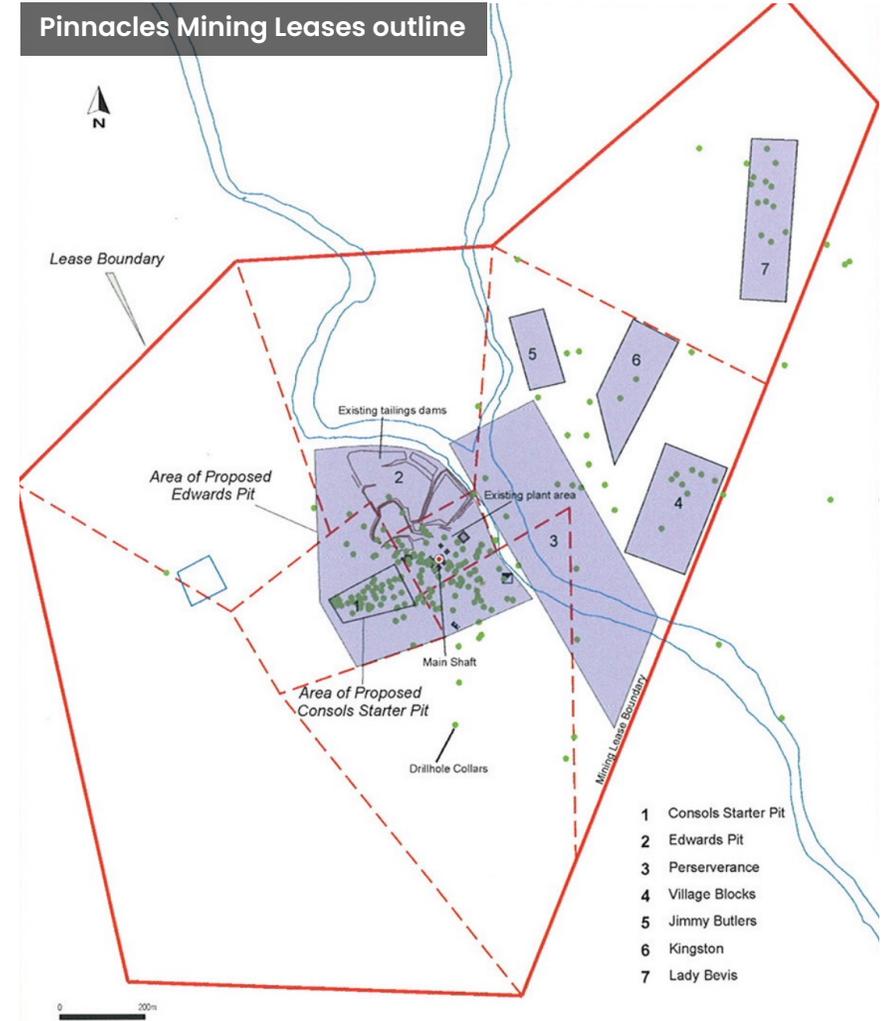
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## Growth of Perseverance:

- Initial focus on Mineral Resource growth at Pinnacles
- Unassayed core along strike from the existing Perseverance ore body, with strong potential for material tonnage increase
- **Targeting a near-term completion of assay work in conjunction with infill and extension drilling to increase both Mineral Resource size and confidence**

## Pinnacles Development:

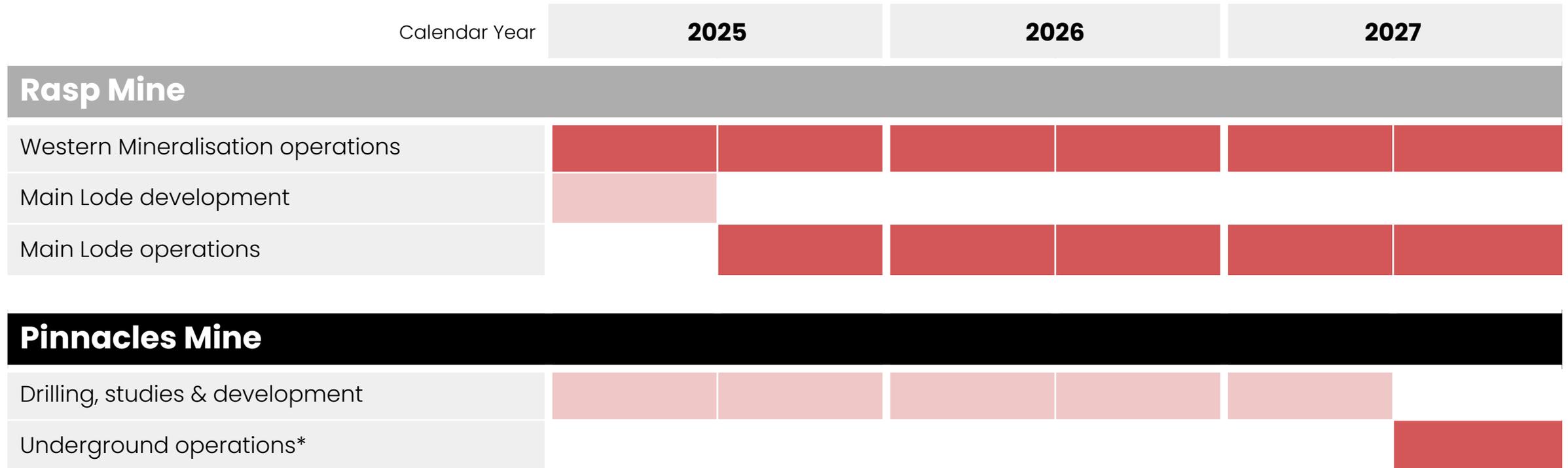
- On completion of drilling, BHM will immediately start a Mining Expansion Study to assess the incorporation of Pinnacles ore into the Rasp Processing Plant
- Similar mineralogical and metallurgical characteristics to Rasp ore based on historical exploration and production data



# Development Timeline



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\* BHM to assess opportunity for near term open pit operations at Pinnacles prior to the start of underground operations



# **BROKEN HILL MINES**

**Patrick Walta**  
**Executive Chairman**  
pwalta@brokenhillmines.com

**Shane Goodwin**  
**Head of Corporate Affairs**  
sgoodwin@brokenhillmines.com  
+61 434 039 106

# Unlocking the Full Potential of Broken Hill

BHM agreements over the Rasp and Pinnacles Mines



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## Rasp Mine Acquisition

### Acquisition Completed:

\$1 consideration, BHM contributing A\$6.9m to complete full cash backing of environmental bond

### Rasp Mine Key Assets:

- Vast sunk capital (plant & equipment) in place
- 750,000tpa modern operating processing plant
- Experienced residential workforce in place
- Consistent operational cashflow generator over more than a decade of operations
- **JORC Mineral Resource:** 10.1Mt @ 9.4% ZnEq (8.8% Pb+Zn & 48.5g/t Ag)
- **Inc. Main lode mineral resource ~0.9Mt @ 17.7% ZnEq (7.8% Zn, 7.6% Pb, 151.7g/t Ag)**
- A\$16.9m environmental bonding cash fully returnable to BHM (on replacement or reduction)

### Offtake and Offtake Financing:

- Long term lead offtake signed with global commodity trader, inc US\$10m facility (remains subject to various conditions)
- Zinc offtake signed inc ~US\$5m facility

## Pinnacles JV Mining Agreement

### Agreement Executed:

Option over a royalty-based mining agreement for the extraction of Pinnacles ore on a ~70 BHM / 30% Pinnacles profit share arrangement

### Pinnacles Mine Key Assets:

- Historical high-grade operations since 1880s
- Over 55,000m drilling completed at Pinnacles (~3,000m core awaiting assay)
- Located ~15km from Rasp, on established MLs
- **JORC Mineral Resource:** 6.0Mt @ 10.9% ZnEq (4.7% Zn, 3.3% Pb & 132g/t Ag)
- **Inc. Perseverance deposit 3.5Mt @ 12.3% ZnEq (4.5% Zn, 4.1% Pb & 166g/t Ag)**
- **JORC Exploration Target:** 6.0 - 15.0Mt @ 2.0 - 4.0% Zn, 3.0 - 6.0% Pb, 40 - 125g/t Ag

### BHM's Development Plan:

- Grow Mineral Resource size and confidence
- Mine Expansion Study to incorporate Pinnacles into existing Rasp operations
- Targeting Pinnacles operations in <3 years

## Broken Hill Consolation Strategy

### Infrastructure Advantage:

Combining modern processing infrastructure with high grade ore feed

### Proven Mineral Field:

Over 140 years of successful operating history in Broken Hill, continued resource discovery and high-quality concentrates

### Established Production:

Current Rasp operations utilising ~50% of plant capacity, clear upside in full plant utilisation

### Experienced Team:

BHM team has deep zinc/lead mine development and operational experience through Pasminco, Century Mine and Dugald River Mine operations in QLD

### Future Consolidation:

Opportunity for further collaboration and consolidation with other operations in the Broken Hill region

# Public Listing of Broken Hill Mines

BHM is undertaking a public listing via the reverse takeover of ASX listed Coolabah Metals Limited



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Capital Structure	Shares	Options
Current Coolabah Holders (post consolidation on 3 to 1 basis)	44,718,759	23,392,193
Broken Hill Mines RTO Vend	125,000,000	65,000,000
Other Share Issuances <sup>1</sup>	73,000,000	8,375,000
<b>TOTAL SHARES &amp; OPTIONS (post RTO)</b>	<b>242,718,759</b>	<b>96,767,193</b>

Cash at Bank	A\$
Total Cash (estimated on completion) <sup>2</sup>	\$9,500,000
Zinc Offtake Facility (US\$5.25m) – Committed (undrawn)	\$8,000,000
<b>TOTAL (cash &amp; working capital facilities)*</b>	<b>\$17,500,000</b>

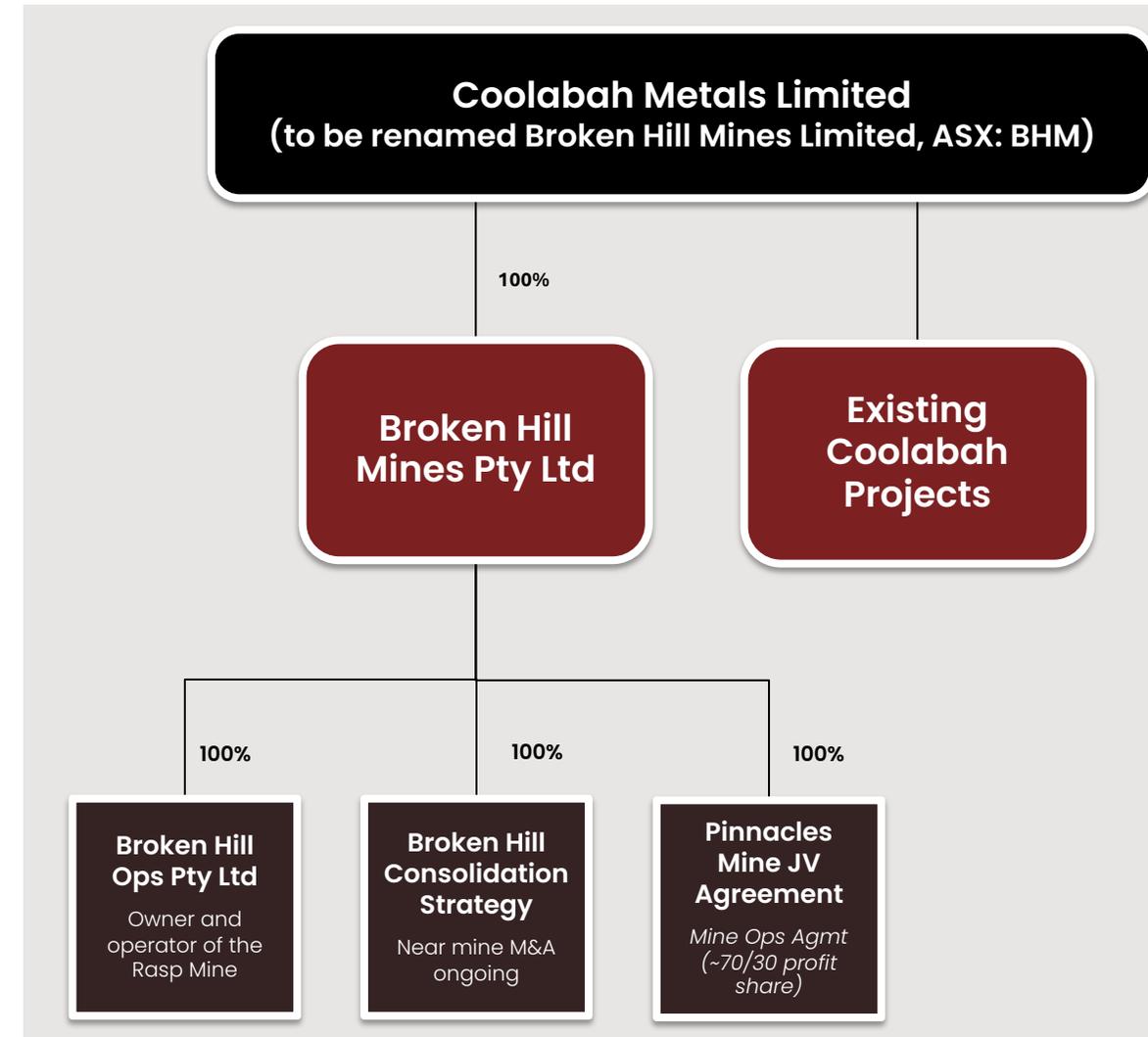
\* Excludes Lead Offtake Facility (US\$10m) – Conditional on various conditions precedent, including entering long form documentation \$15,000,000

Environmental Bond	A\$
Fully Cash Backed Environmental Bond	\$16,964,000

<b>Market Capitalisation (at \$0.20 recompliance)</b>	<b>A\$48.5 million</b>
<b>Enterprise Value (at \$0.20 recompliance)</b>	<b>A\$39.0 million</b>

<sup>1</sup> See Prospectus to be lodged in early November 2024 for details – inc. BHM Converting Note shares (25m), Recompliance raise shares (20m), Cash Conversion Consideration shares (20m), Facilitator shares (8.0m). The figures on this slide assume that the maximum subscription of \$4m is raised under Coolabah's capital raising.

<sup>2</sup> See Prospectus to be lodged in early November 2024 for details – inc. cash in BHM (\$4m), cash in Coolabah (\$3.5m), cash in BHO (\$5m), Recompliance raise (\$4m), CBH Resources enviro bond contribution (\$10m), less enviro bond cash backing (-\$17m)



# Zinc Metal Equivalents (ZnEq)



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**Metal recoveries used in the zinc equivalent (ZnEq) calculations for each element are based on the average metallurgical recoveries of Rasp achieved based on historical performance and applied to all ore types, including Pinnacles.**

## **ZnEq used in this Presentation**

**Metal recovery assumptions used in the zinc equivalent (ZnEq) calculations are shown below:**

- Rasp (Underground): Zinc 88.0%, Lead 88.0%, Silver into Lead Concentrate 75.0%
- Pinnacles (Open Pit): Zinc 88.0%, Lead 88.0%, Silver into Lead Concentrate 75.0%
- Pinnacles (Underground): Zinc 88.0%, Lead 88.0%, Silver into Lead Concentrate 75.0%

**Assumed metal prices used are also shown below:**

- Zinc US\$2,650/t
- Lead US\$2,000/t
- Silver US\$25/oz

**Metal equivalents were calculated according to the following formula:**

- Rasp Underground: Zinc Equivalent % =  $Zn\% + (Pb\% \times 0.754) + (Ag \text{ ppm} \times 0.028)$
- Pinnacles Open Pit: Zinc Equivalent % =  $Zn\% + (Pb\% \times 0.754) + (Ag \text{ ppm} \times 0.028)$
- Pinnacles Underground: Zinc Equivalent % =  $Zn\% + (Pb\% \times 0.754) + (Ag \text{ ppm} \times 0.028)$

*It is the company's opinion that all the elements included in the metal equivalents calculation have a reasonable potential to be recovered and sold.*