



Briefing Book

February 2023

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Non-IFRS financial information: We supplement our financial information reporting determined under International Financial Reporting Standards (“IFRS”) with certain non-IFRS financial measures, including cash operating costs. Details of these are set out in the Supplement.

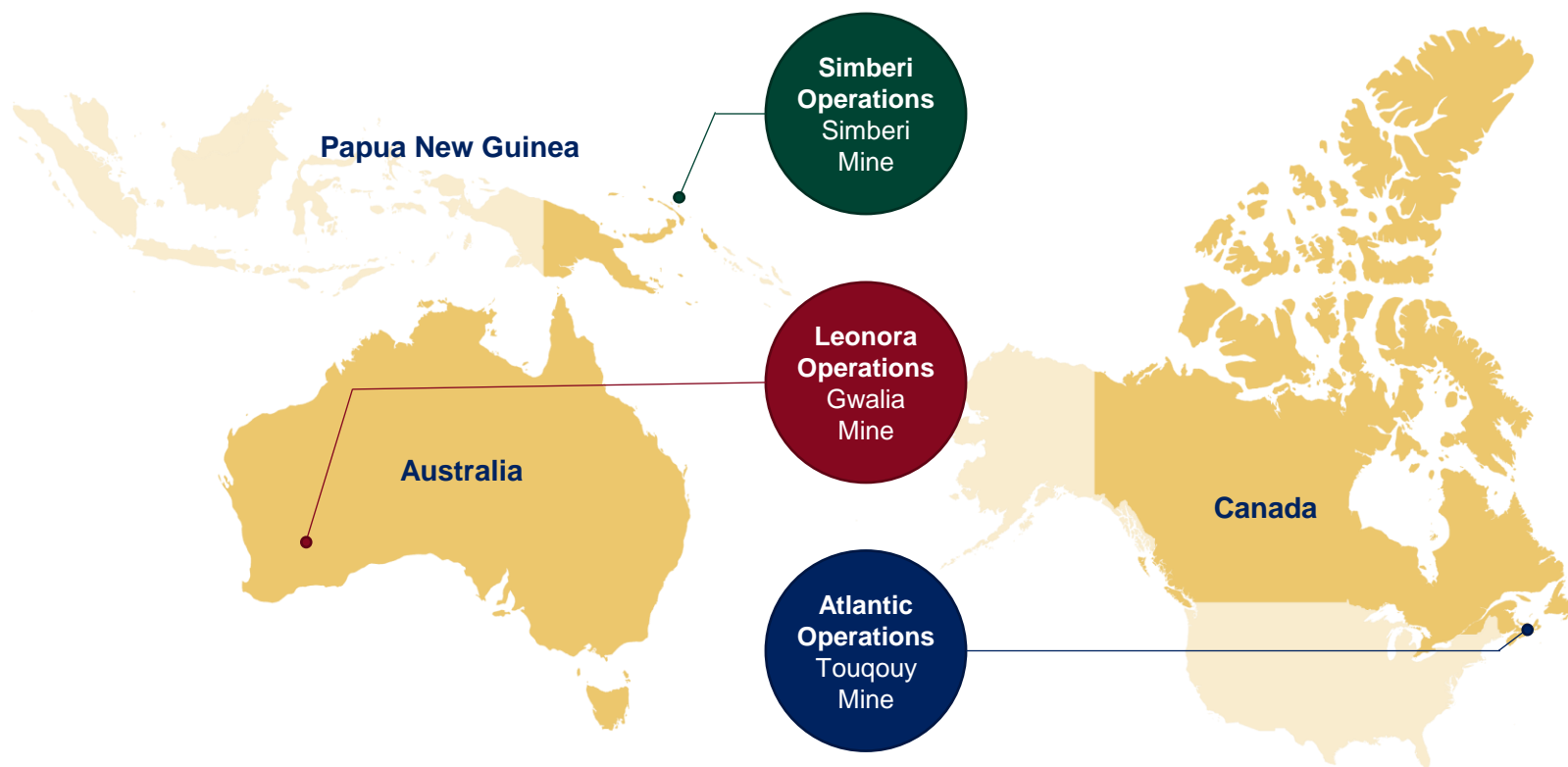
Financial figures are in Australian dollars unless otherwise noted. Financial year is 1 July to 30 June. This presentation is not audited.

Australian Securities Exchange (ASX) Listing code “SBM”
American Depositary Receipts (ADR OTC code “STBMY”) through BNY Mellon,
www.adrbnymellon.com/dr_profile.jsp?cusip=852278100

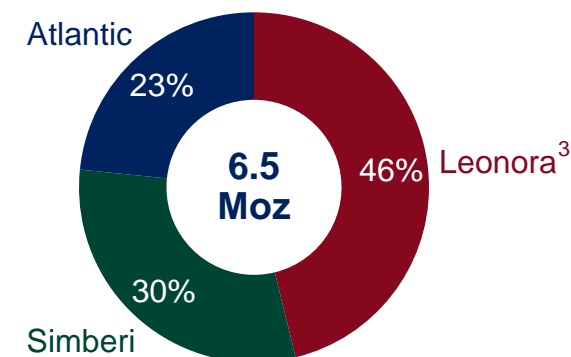
Published 22 February 2023



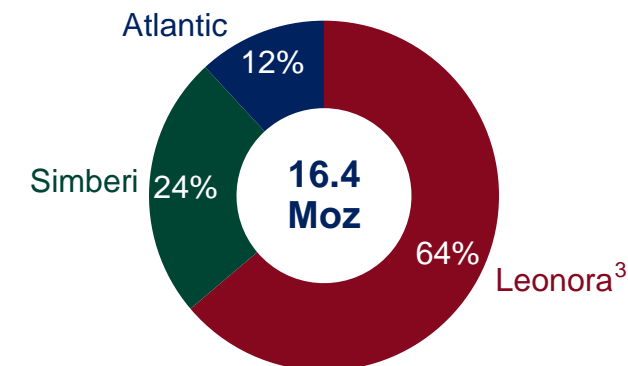
St Barbara's operations



GOLD ORE RESERVES



GOLD MINERAL RESOURCES

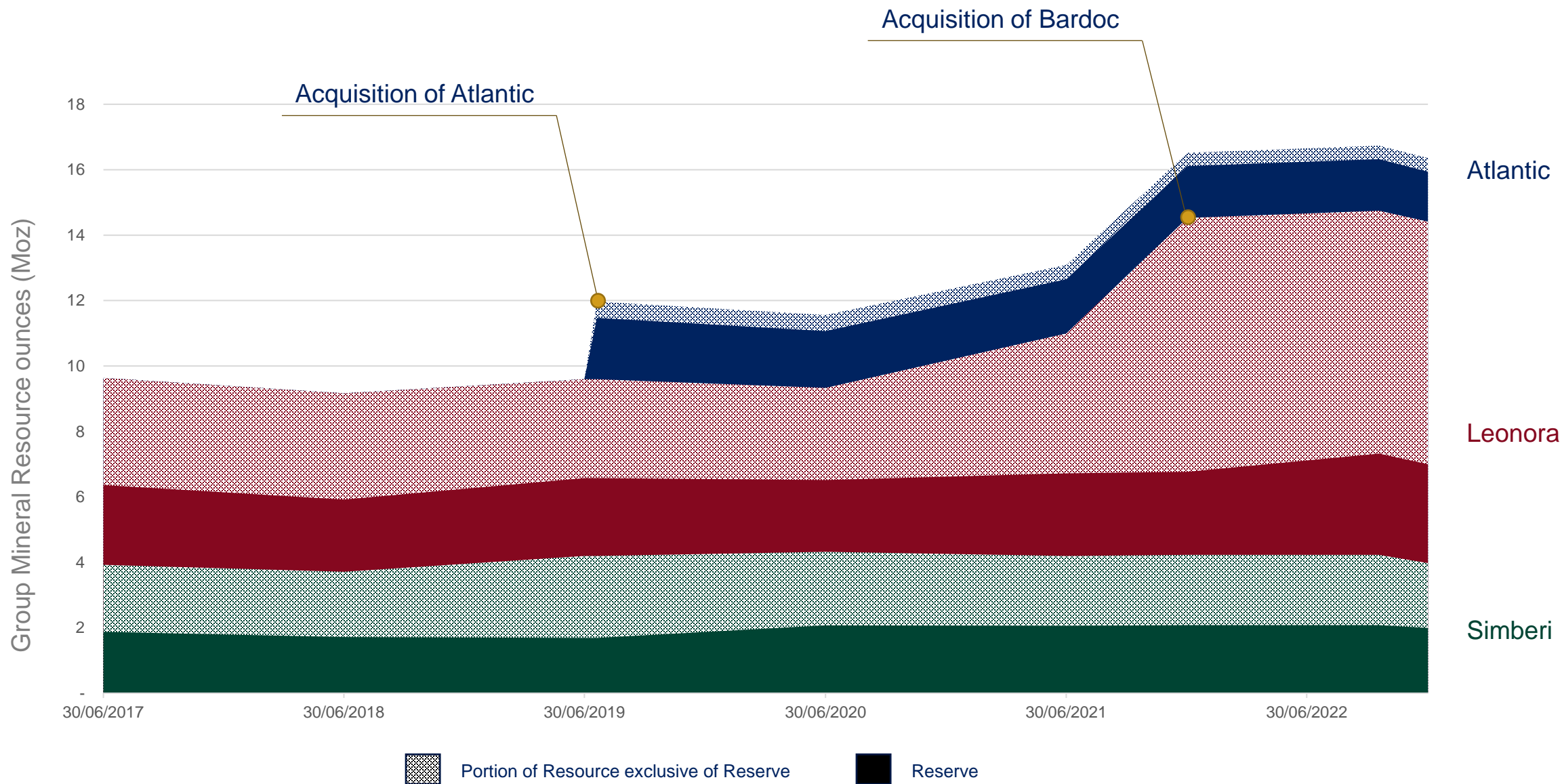


FY23 Guidance	Gold production (koz)	AISC (A\$/oz)	Sustaining capex (A\$M)	Growth capex (A\$M)
Atlantic Operations	40 - 50	2,075 - 2,315 ¹	5 - 10	20 - 25
Leonora Operations	145 - 160	2,250 - 2,450	60 - 70	10 - 15
Simberi Operations	70 - 80	2,300 - 2,540 ²	5 - 10	3 - 5
Consolidated	260 - 290	2,250 - 2,500	70 - 90	33 - 45

1. C\$1,800 to C\$2,014 per ounce at AUD/CAD of 0.87
2. US\$1,450 to US\$1,600 per ounce at AUD/USD of 0.63
3. Includes Bardoc operations



Resource addition through acquisition¹



1. Sourced from Company Ore Reserve and Mineral Resource statements



We are taking action across our sustainability commitments



Safety Always

Target is **Zero Harm**

TRIFR¹ - 4.7 in Q2 FY23

Embedded CARE behaviours across all operations

A workplace **safe from injury, harassment, bias, discrimination and harm**

Gender Safety audits



Empowered People Diverse Teams

We are the only mining company to be a **WGEA**² **Employer of Choice** (2015-2022)

Included in **Bloomberg Gender Equality Index** (2021 & 2022) - 100% score for sexual harassment policies

Continue to **meet and exceed diversity objectives**



Stronger Communities

Delivering on action plan to **address risks of Modern Slavery**

Extend '**CARE**' to **community**: mental health, domestic violence, community wellbeing pillars incl. vaccine programs

Supporting **next generation of Indigenous leaders** through consultation and education



Respecting the Environment

Carbon neutral by 2050 and by 2025 at **Atlantic Operations**

Reporting on **Scope 3 emissions** and new data on **waste management**

Operations **do not compete with agricultural or domestic needs** for water



Growing Sustainably

Growing our business sustainably, where it makes sense, and with strong governance practices, means we can add value for everyone: our shareholders, our people and our communities

MSCI
ESG RATINGS



Companies rated A and above represent the top 35% of Precious Metals companies surveyed



Ranked 38 of 122 precious metals companies rated



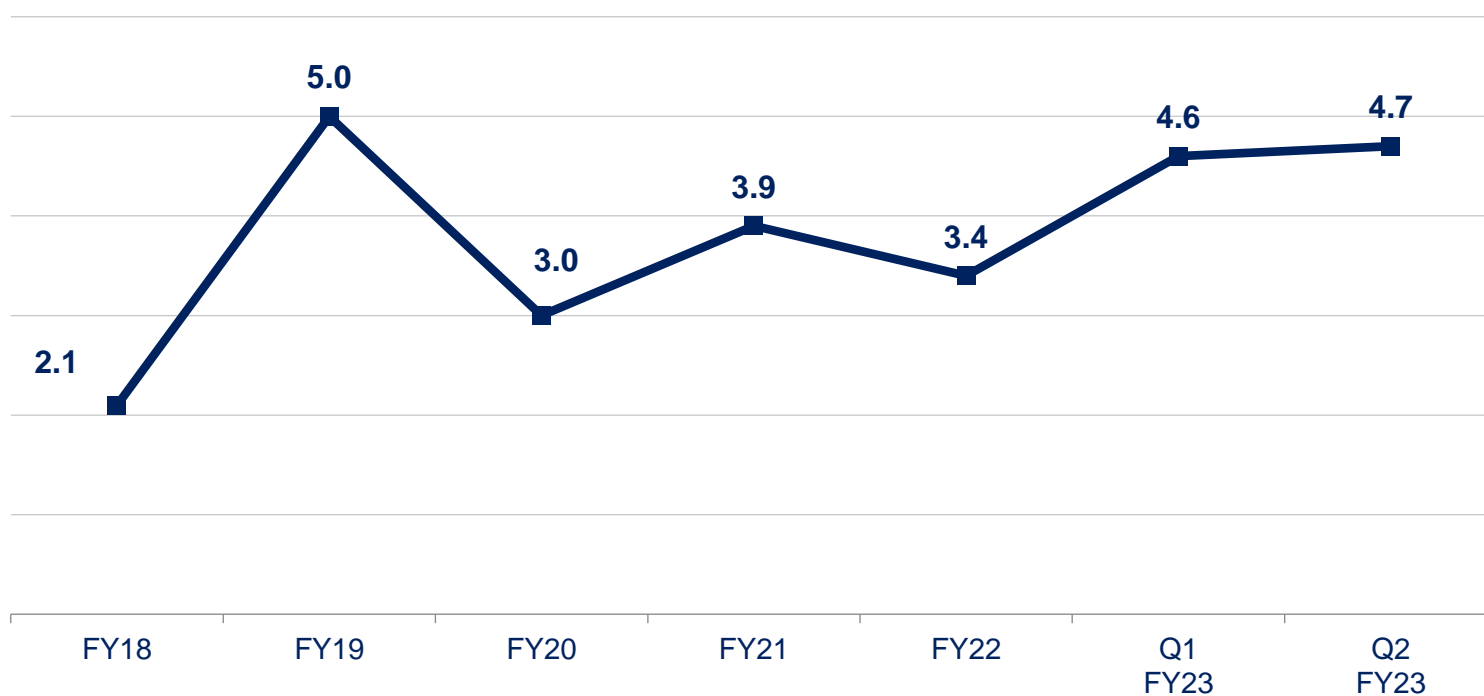
Rated at a leading level of ESG reporting within the Materials-Miners sector

1. Total Recordable Injury Frequency Rate (12 month average, total recordable injuries per million hours worked)
2. Australian Workplace Gender Equality Agency (www.wgea.gov.au)



Safety always

TOTAL RECORDABLE INJURY FREQUENCY RATE (TRIFR)¹



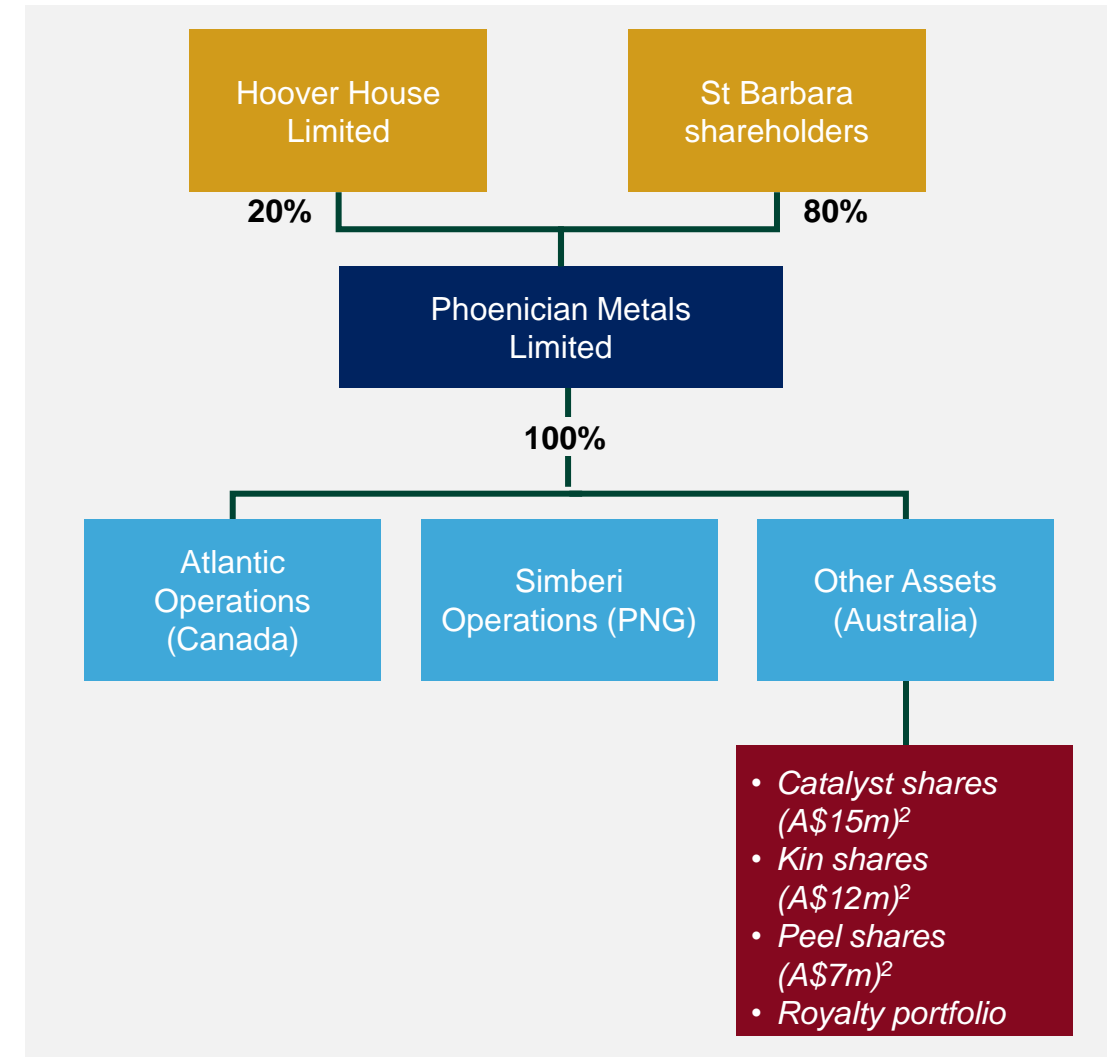
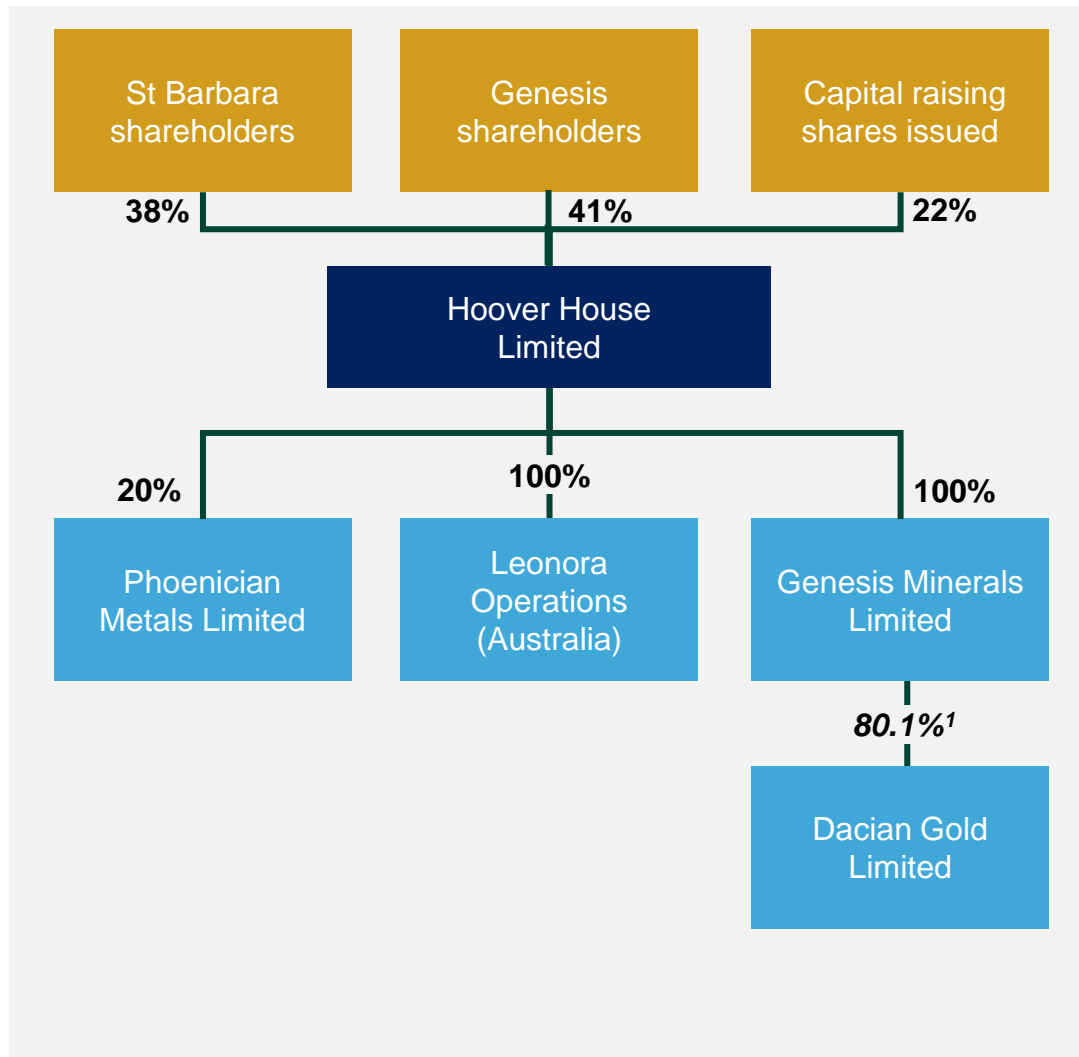
Safety Always

Zero harm is always our target. Zero harm to all people as we responsibly operate our assets to their full potential. This focus on safety guides everything we do.

1. Total Recordable Injury Frequency Rate (12 month average, total recordable injuries per million hours worked)



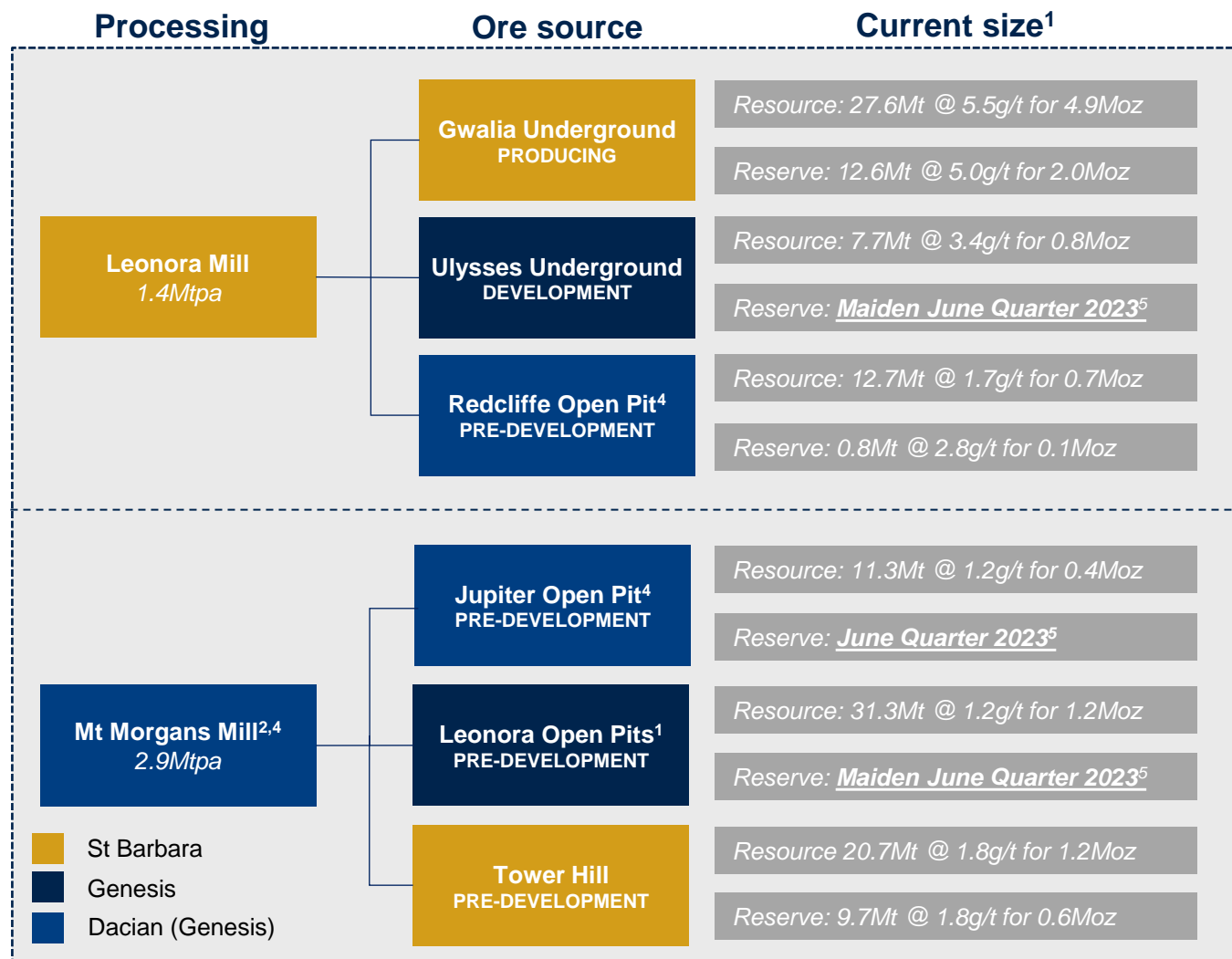
Post Merger and Demerger transaction structure



1. See Appendix B for further information
 2. Based on ASX closing share prices as at 9 December 2022



Focus on Leonora – right ores in the right mills



Benefits to Hoover House shareholders

The addition of Ulysses Underground enables “quality > quantity” mining strategy
Reduced mining rate to 0.7 - 0.8Mtpa of higher grade ore

Target mining rate of 0.6 - 0.7Mtpa

Potential to enhance metallurgical recovery (optimum grind size) and reduced transport costs by milling at Leonora

Low risk, high grade, open pit “sweetener”, risk management lever, closer to Gwalia
Includes 3.4g/t Hub open pit with underground upside

Time (milling stockpiles) and capital to drill and expand Mineral Resources and Ore Reserves

Time to install leaner owner operator model (Genesis Mining Services)

Addition of open pit volumes to fully utilise Mt Morgans mill capacity

Capital saving, eliminates time required to construct new mill

Re-evaluate Ore Reserves with larger / lower cost milling solution

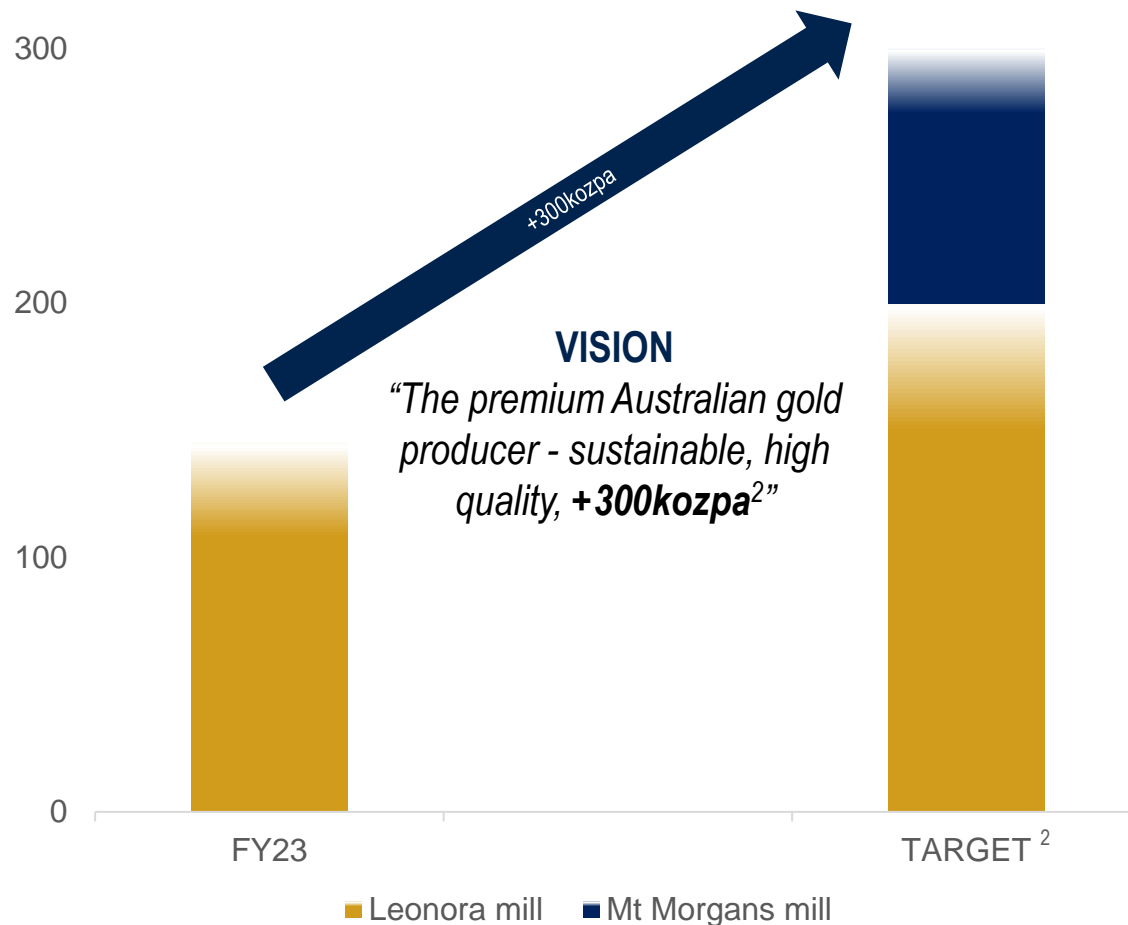
1. See Appendices C & D
2. See Appendix B
3. Leonora Gold Project Open Pits include Admiral, Puzzle and Orient Well
4. Genesis has a 80.1% holding in Dacian. See Appendix B for further information.
5. Subject to Feasibility study outcomes

Subject to optimisation
New strategic plan post merger September quarter 2023



Leonora organic growth opportunities

Growth to +300kozpa; 3.1Moz of Ore Reserves¹



+300kozpa assumes delivery of near term growth options:

Leonora mill (St Barbara) - 1.4Mtpa

- Gwalia underground (St Barbara) - future-proofing / quality > quantity
- Ulysses underground (Genesis) - right ore for the right mill

Mt Morgans mill (Genesis)³ - 2.9Mtpa

- Jupiter open pit (Dacian) - applying ex-Saracen owner operator open pit mining
- Tower Hill open pit (St Barbara) - new high grade open pit mine
- Admiral open pit (Genesis) - new high grade open pit mine

Note – outcome of the Mt Morgans strategic review will be deferred until the September quarter 2023, timed with the new Hoover House strategic plan⁴

Excludes longer-term upside

Leonora open pits (Genesis)

- Maiden Reserve FY23

Refractory ore capability (St Barbara)

- Abundance of free milling ore enables deferral and optimisation of sulphide ore strategy for Harbour Lights and Aphrodite deposits

Portfolio-wide exploration upside (St Barbara, Genesis)

1. See Appendix C for breakdown of Ore Reserves

2. See Appendix E for the material assumptions relating to the production target. This production target must be read in conjunction with the cautionary statement on Appendix E that “there is a low level of geological confidence associated with inferred mineral resources included in the Production Target and there is no certainty that further exploration work will result in the determination of indicated mineral resources or that the production target itself will be realised”

3. See Appendix B

4. Refer to Genesis ASX announcement dated 28 November 2022, “Managing Director’s Presentation to Shareholders”



Phoenician Metals overview

Phoenician Metals to realise the value of non-core assets for St Barbara shareholders

Phoenician Metals is to be established with:

- High calibre management team dedicated to extracting value from Phoenician Metals
- 5.9Moz in Mineral Resources / 3.5Moz in Ore Reserves in two proven mining jurisdictions¹
- FY23E production of 110-130koz at A\$2,200-2,450/oz²
- ASX-listed investments of ~A\$34m³ and inheriting St Barbara's royalty portfolio
- An exciting and extensive exploration portfolio
- Strong and flexible balance sheet - A\$85m⁴ cash / nil debt⁵
- Hoover House to retain 20% stake in Phoenician Metals

Intention to apply to list on the ASX

Phoenician Metals to be headquartered in Perth

1. See Appendix C & D for information related to Mineral Resources and Ore Reserves

2. Refer to announcement titled "Quarterly Report Q1 FY23" released to ASX on 18 October 2022. FY23 AISC guidance based on US\$1,450 to US\$1,600 per ounce at AUD/USD of 0.63 for the Simberi Operations and C\$1,800 to C\$2,014 per ounce at AUD/CAD of 0.87 for the Atlantic Operations

3. Based on St Barbara's holding and closing prices as at 24 January 2023.

4. See Appendix E

5. Excludes lease liabilities



Phoenician Metals strategic focus

Corporate

Establish a distinctive corporate culture and identity focused on value

Actively manage investment portfolio to enhance value

Exploration of Back Creek (NSW) project

Atlantic

Prioritise development of Fifteen Mile Stream and target development in FY26

Investigate repurposing Touquoy plant for use at Fifteen Mile Stream

Complete processing of stockpiles at Touquoy by end of 2024

Pause permitting process for Beaver Dam

Continue exploration at Mooseland, South-West and Goldboro East

Simberi

Extend oxide production through FY25 and into FY26

Sulphides Mineral Resource and Ore Reserve extension drilling

Revisit Sulphides Expansion development plan by FY26

Prepare for investment decision with Mining Lease renewal by FY28

Atlantic operations



Gwalia – the heart of the province

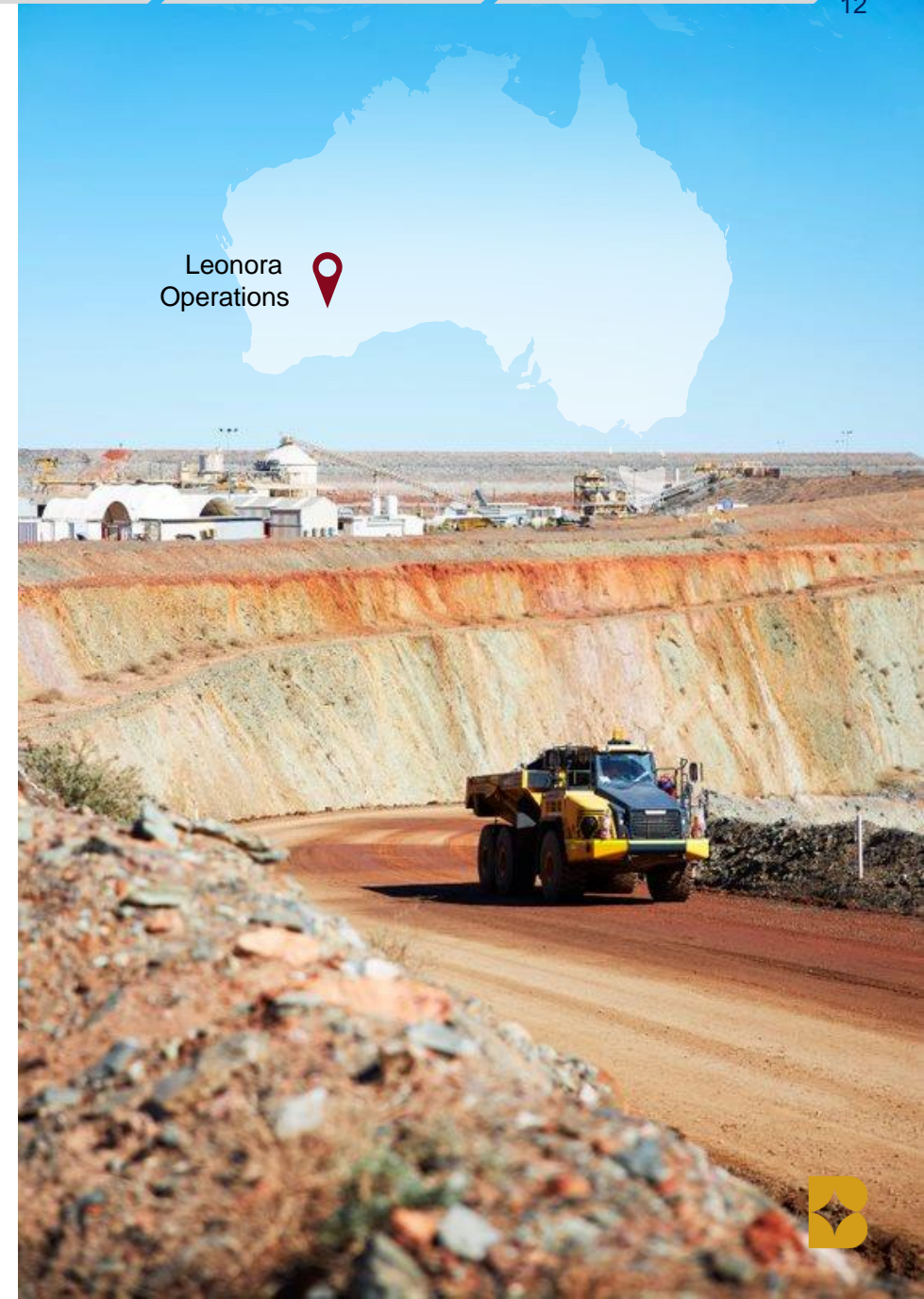
Ore Reserve 2.0Moz

Reserve Grade 5.0g/t

Mineral Resource 4.9Moz

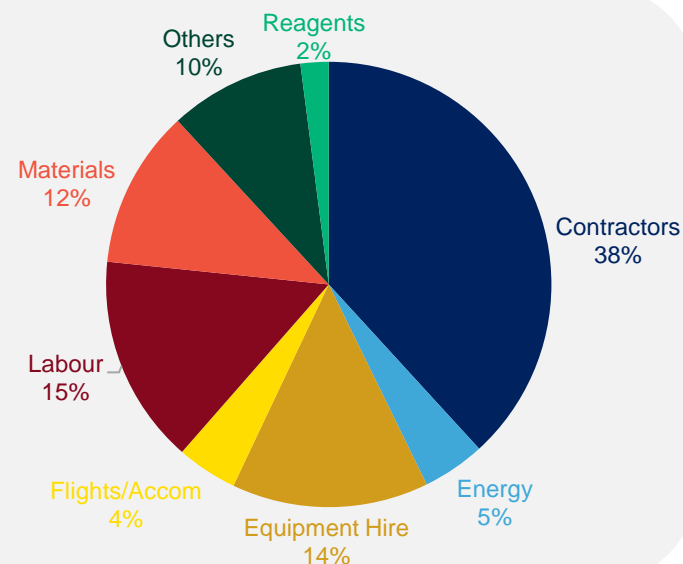
FY23 Guidance

- Production of between 145 to 160koz
- AISC of \$2,250 to \$2,450/oz
- Sustaining capex of \$60 to \$70M
- Growth capex of \$10 to \$15M



Leonora
Operations

Operating cost breakdown¹



1. Indicative operating costs based on FY22



Gwalia - “heart of gold”

World-class deposit with the enviable trifecta - grade, width and continuity

Prolific high-grade, long-life deposit

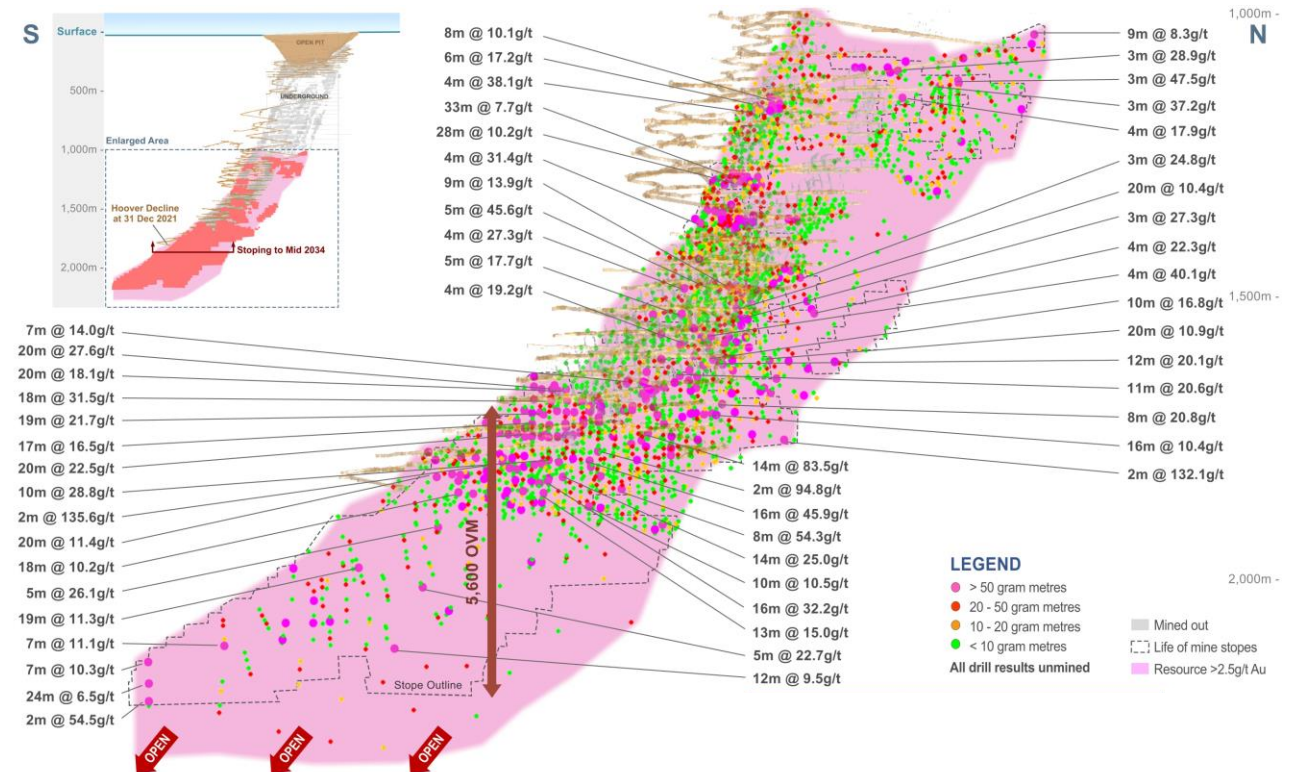
Life of mine plan underwritten by a heart of gold - 5,600oz per vertical metre

- All drill intercepts on long section are currently unmined

Addition of Ulysses enables “quality over quantity” “margin over ounces” strategy:

- Future-proofing / de-risking initiatives
- More conservative production
- Reduce costs
- Prioritise development and waste haulage
- Smaller, higher grade stopes; reduced geotechnical risk

New strategic plan September quarter 2023 - including production / AISC / capital cost outlook



Gwalia long section



Delivering Gwalia's true potential

Ulysses is a unique opportunity to restore Gwalia up to 200kozpa^{1,5} with lower costs and lower risk

Gwalia / Ulysses to be operated as one mine:

- Neighbouring deposits just 35km apart
- Shared fixed costs / lower group costs
- Ulysses haulage time is less than that from underground heading to Leonora mill

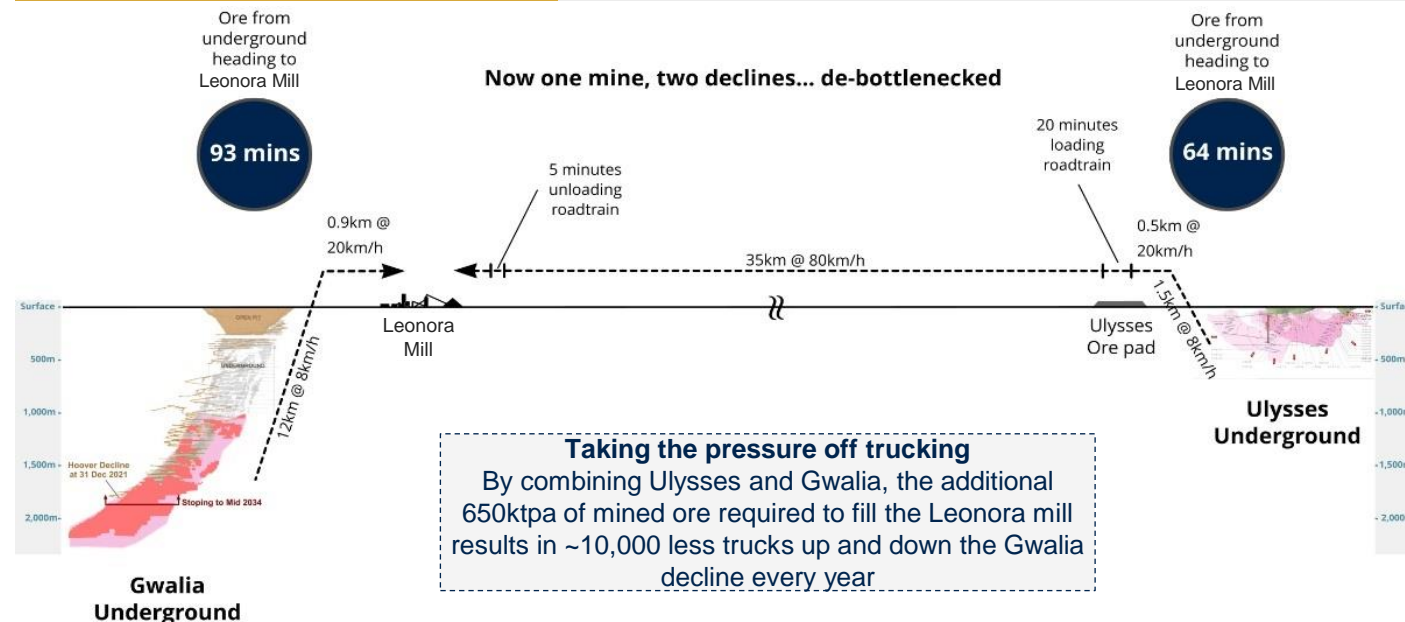
Ulysses enables optimisation of Leonora mill:

- “Quality > quantity” mining strategy
- Reconfigure to a lower mining rate ~0.7-0.8Mtpa (v 1.1Mtpa FY23 plan²; v 5-year actual average 0.7Mtpa³)
- Lower vertical advance rate - mitigates geotechnical risk

Ulysses provides a second baseload ore source that de-risks / diversifies Gwalia underground and fills the Leonora mill

Two becomes one⁵

		Gwalia	Ulysses full scale ⁴	Combined
Annual mining rate	Mtpa	0.7 - 0.8	0.6 - 0.7	1.3 - 1.5
Annual gold production	kozpa ¹	120 - 130	60 - 70	180 - 200



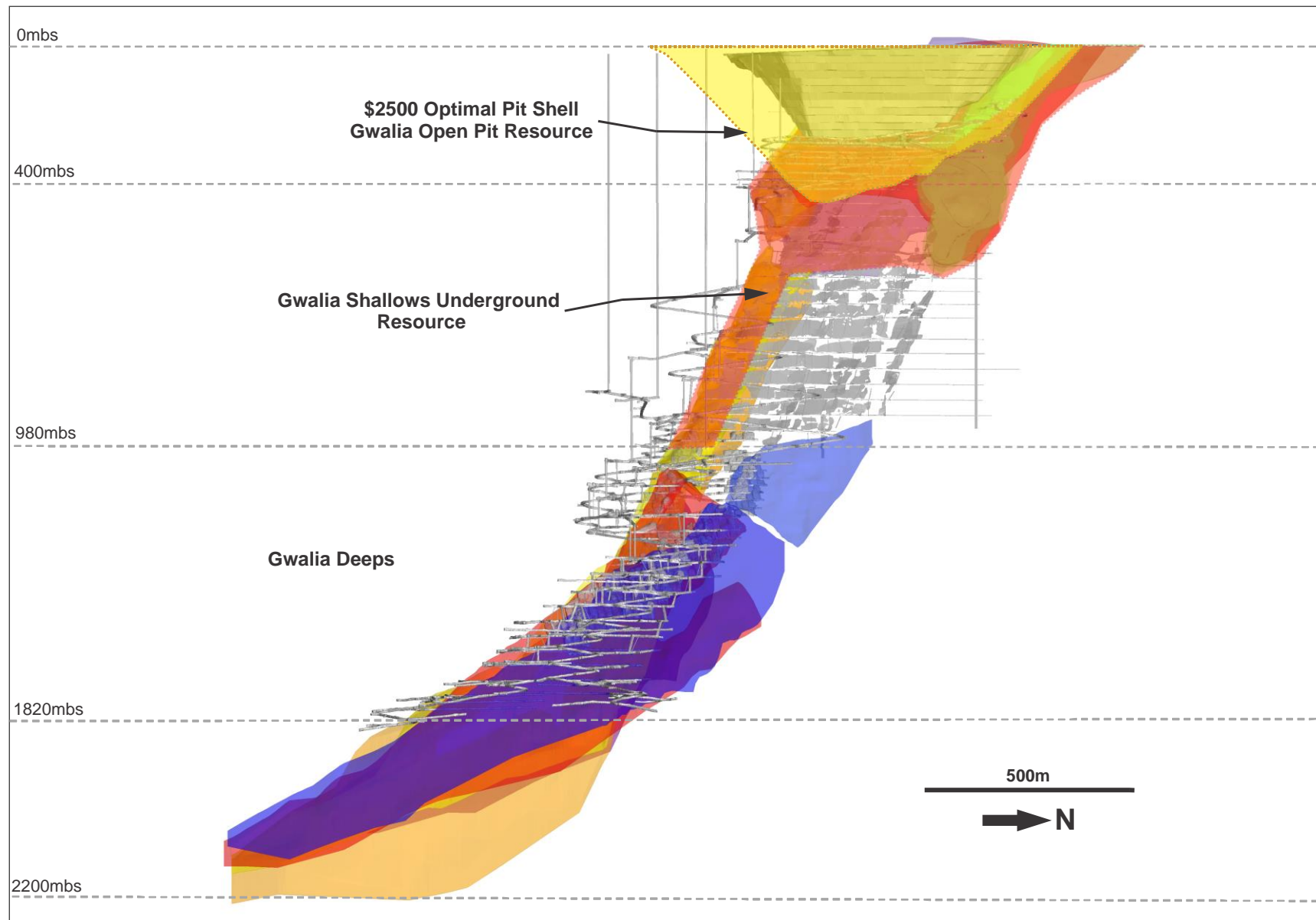
1. See Appendix E for the material assumptions relating to the production target. This production target must be read in conjunction with the cautionary statement on Appendix E that "there is a low level of geological confidence associated with inferred mineral resources included in the Production Target and there is no certainty that further exploration work will result in the determination of indicated mineral resources or that the production target itself will be realised".
2. Refer to St Barbara ASX announcement dated 19 September 2022, "Presentation to 2022 Denver Gold Forum".
3. St Barbara quarterly reports.
4. Full scale ramp-up by FY26; Admiral open pit ore available as required to fill the mill FY24-25;
5. 200kozpa is a subset of the 300kozpa Production Target.



Gwalia Shallows

Gwalia Shallows Mineral Resource
3.4mt @ 3.5g/t

Gwalia Shallows (includes Old South Gwalia) has the potential to become a new, shallower mining front at Gwalia



Tower Hill - high grade pit lost in time

Location, location, location

Shallow 1.2Moz Mineral Resource / 560koz Ore Reserve just 2km north of Gwalia¹

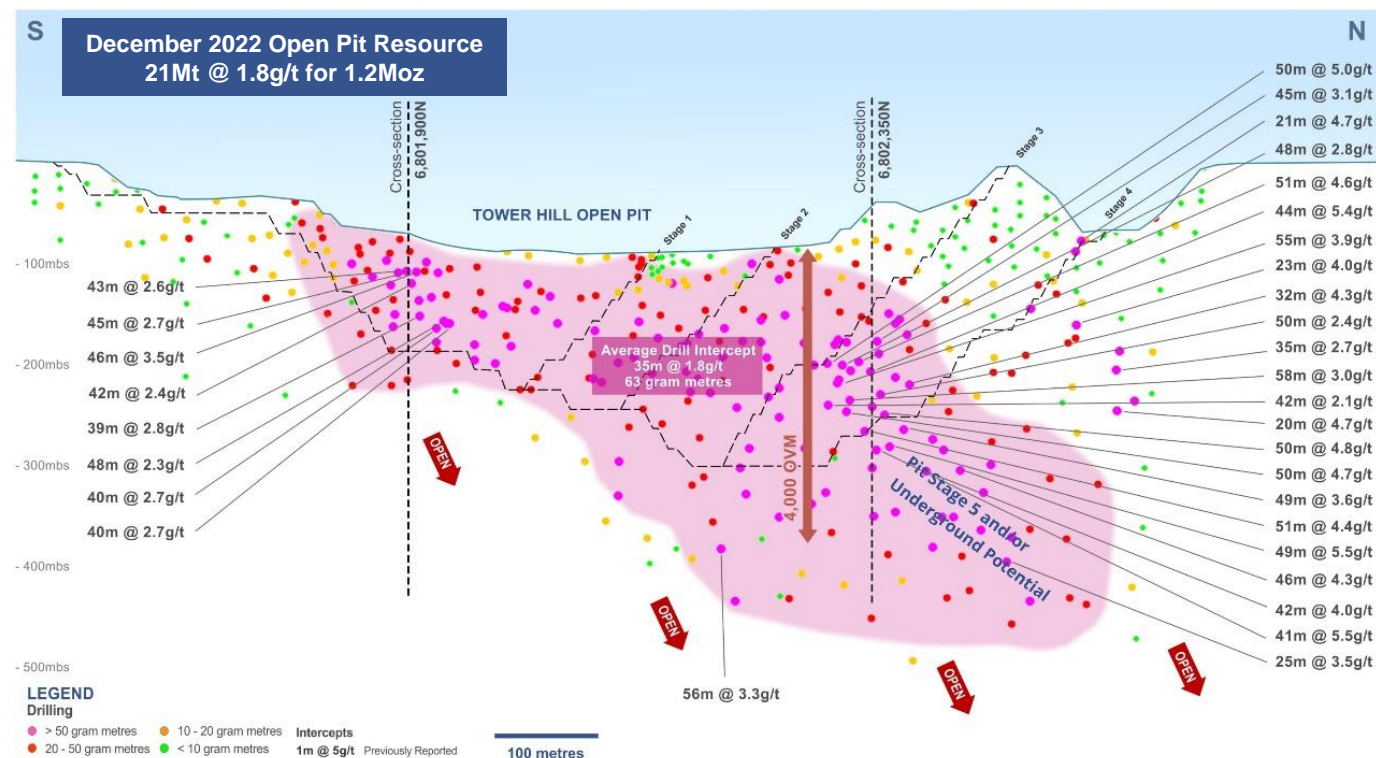
Bulk, high grade open pit opportunity planned strike length +1km

- 4,000oz per vertical metre

Persistent thick, high grade drill hits

Further growth opportunities:

- Open down plunge (“Karari-style” underground mining below pit shell)
- Ongoing infill and extensional drilling



Tower Hill - long section

1. See Appendices C & D for information related to Mineral Resources and Ore Reserves



Inaugural Tower Hill Open Pit Ore Reserve adds 560koz

Tower Hill Open Pit Ore Reserve

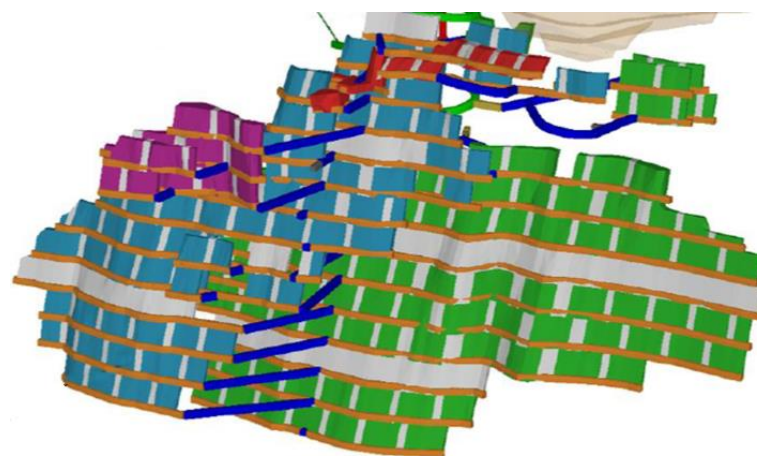
- 9.7mt @ 1.8g/t Au

Tower Hill is ~2km from the Leonora Processing Plant

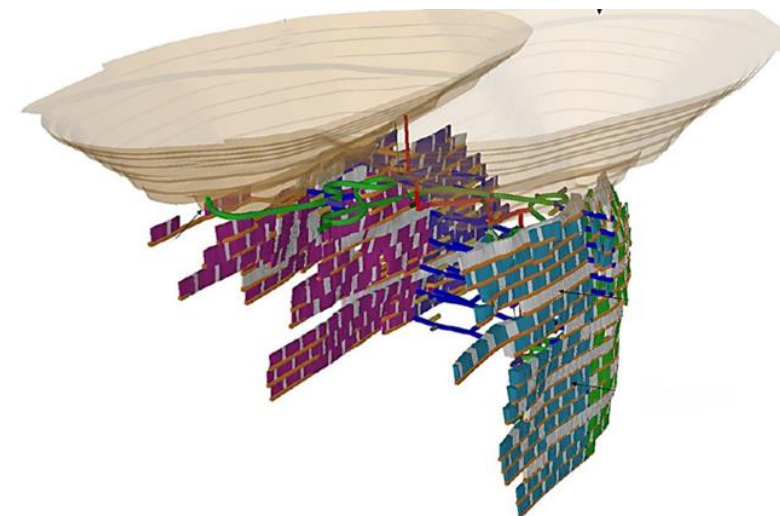


High quality future expansion options

Zoroastrian underground mine



Aphrodite underground mine



Total Mineral Resources	1.6Mt @ 4.0 g/t Au	6.7Mt @ 3.6 g/t Au
Capital cost to develop ¹	Estimated A\$30M	Estimated A\$30M
Ore type	Free-mill	Refractory
Mining method	Longhole open stoping	Longhole open stoping
Permitting	Mining Proposal and Closure Plan Approved	Mining Proposal and Closure Plan Submitted

1. Preliminary estimate only, to be the subject to further detailed study



Simberi Operations

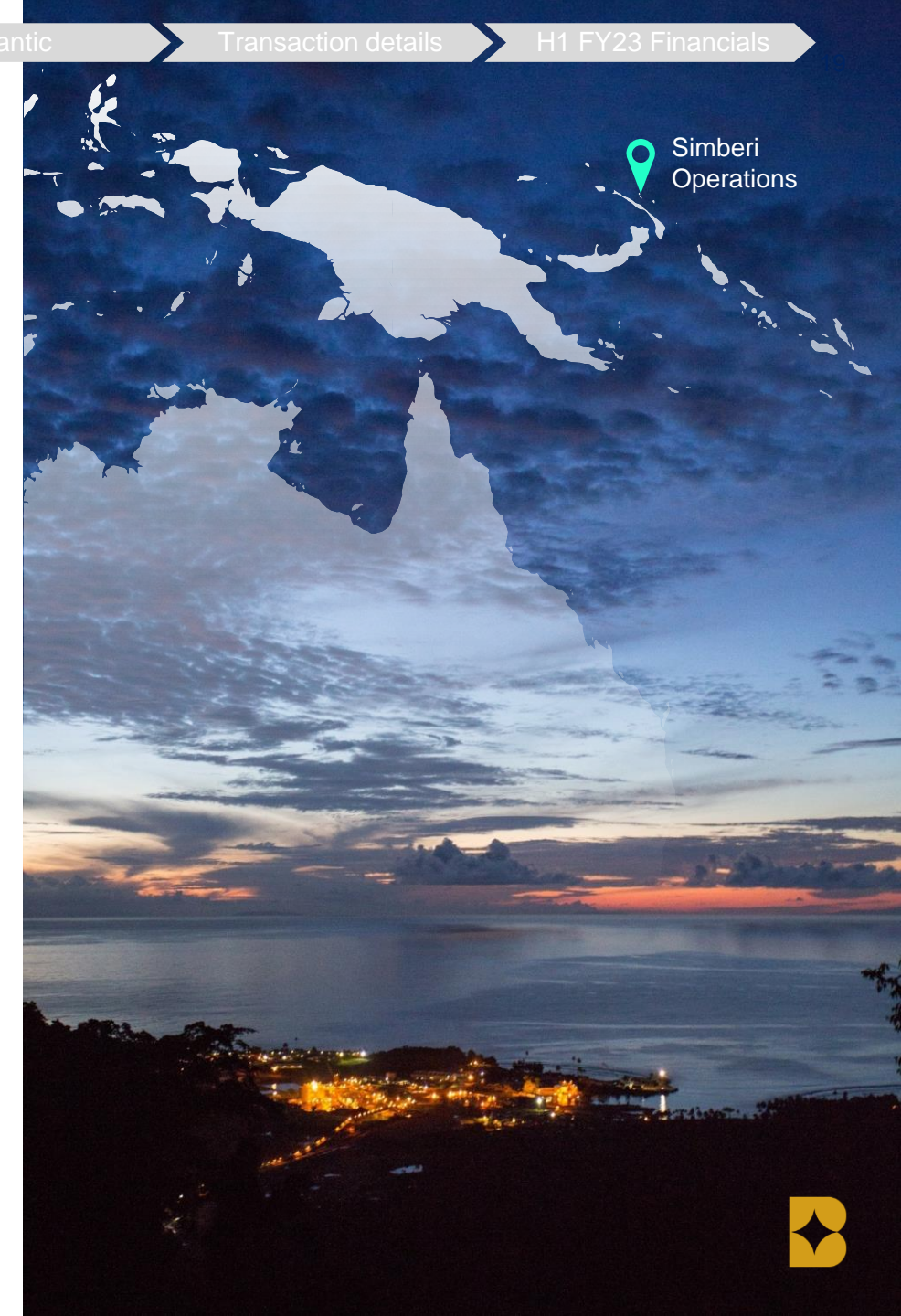
Ore Reserve 2.0Moz

Reserve Grade 1.8g/t

Mineral Resource 4.0Moz

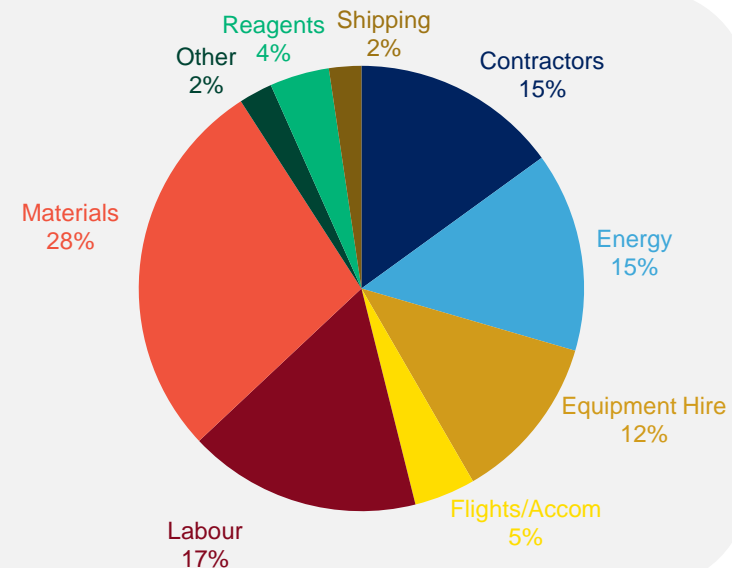
FY23 Guidance

- Production of between 70 to 80koz
- AISC of \$2,300 to \$2,540/oz¹
- Sustaining capex of \$5 to \$10M
- Growth capex of \$3 to \$5M



Simberi Operations

Operating cost breakdown²



1. US\$1,450 to US\$1,600 per ounce at AUD/USD of 0.63
 2. Indicative operating costs based on Q4 FY22



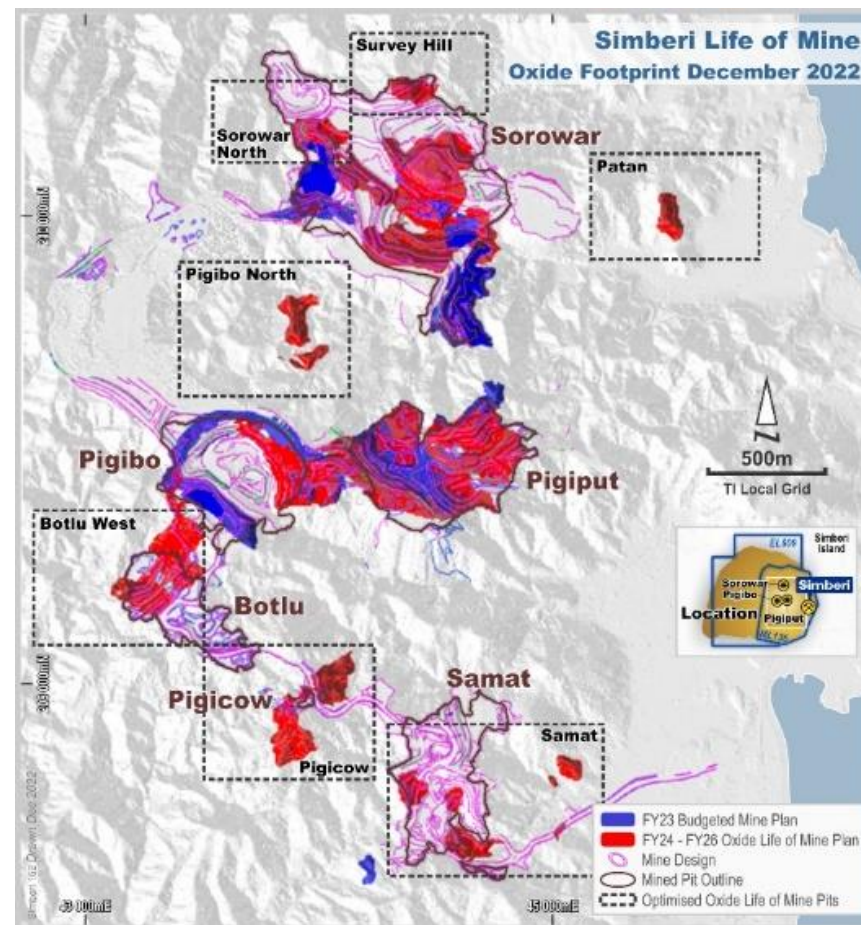
Simberi

Outstanding option value with 4.0Moz in Mineral Resources and 2.0Moz in Ore Reserves

Simberi consists of an open cut mine on the northernmost island in the Tabar group of islands in the province of New Ireland in Papua New Guinea

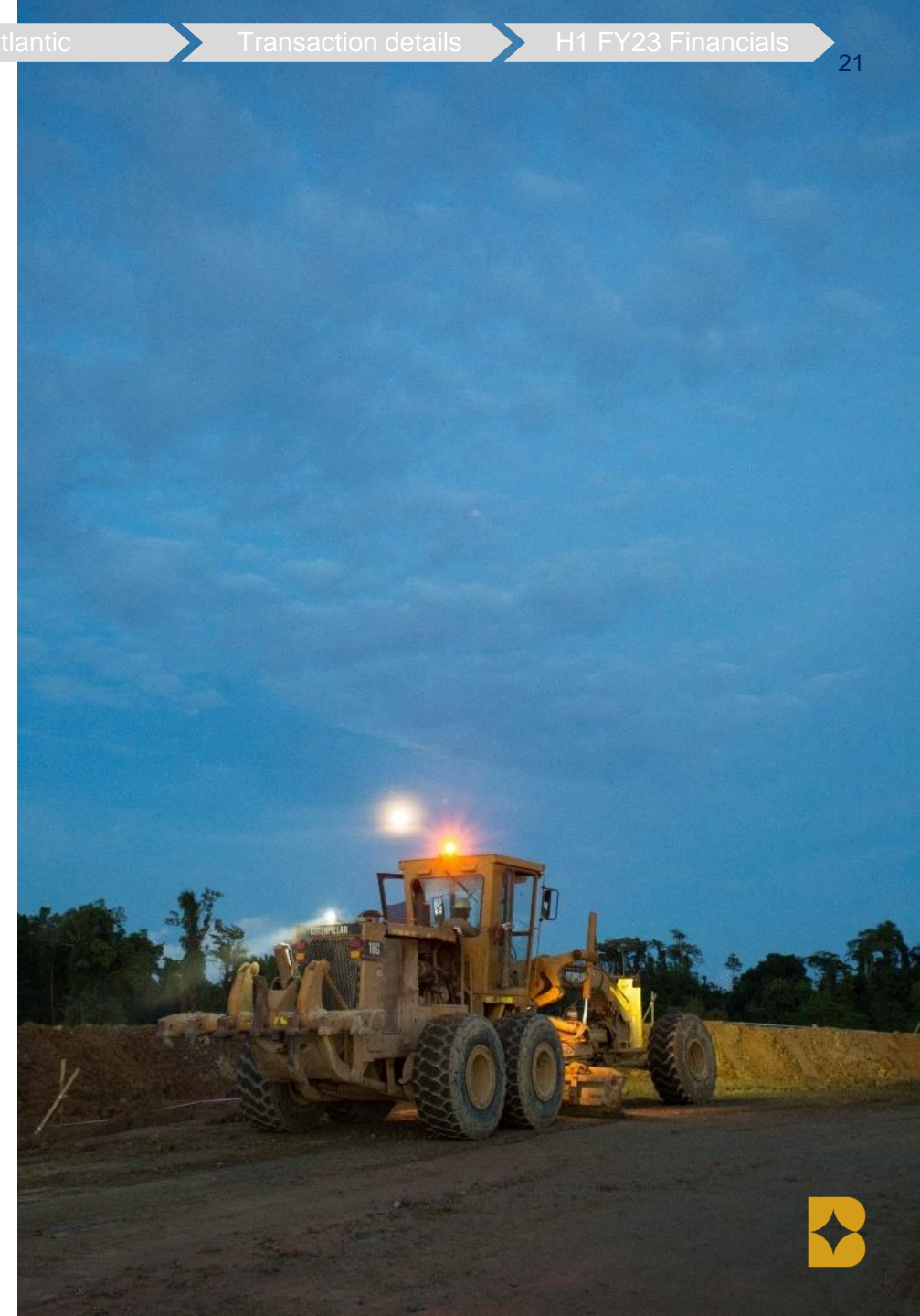
Success of Strategic Review has improved the long-term outlook for Simberi

- Significant oxide life extension potential identified with several new pits previously not in the budget (shown on the right)
- Potential for sulphide project to extend the life of mine by at least another 10 years beyond this



Phoenician Metals' Simberi strategy reset

- Resource development drilling in FY24 to resume expansion of Mineral Resource and Ore Reserve (current Mineral Resource bottoms on drilling)
- Extend oxide production through FY25 from Ore Reserve optimisation
- Target further extensions of oxide production through FY26 from Mineral Resource conversion
- Revisit Sulphide Expansion development plan
- Prepare for investment decision with ML renewal by FY28



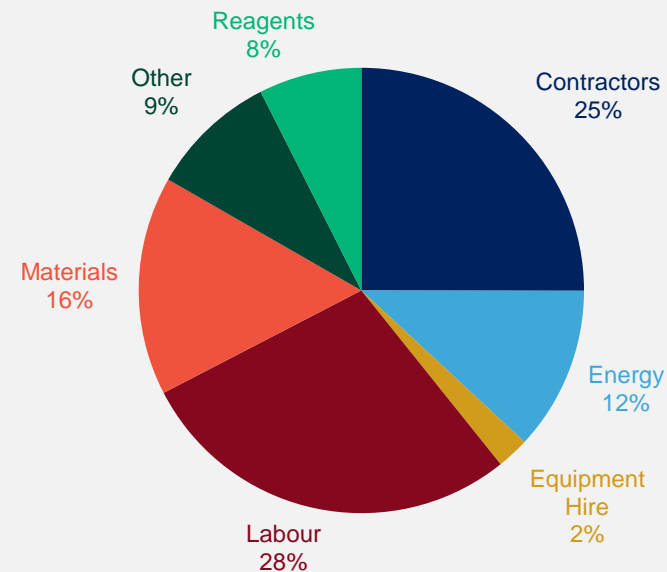
Atlantic Operations

Ore Reserve	1.5Moz
Reserve Grade	1.0g/t
Mineral Resource	1.9Moz

FY23 Guidance

- Production of between 40 to 50koz
- AISC of \$2,075 to \$2,315/oz¹
- Sustaining capex of \$5 to \$10M
- Growth capex of \$20 to \$25M

Operating cost breakdown²



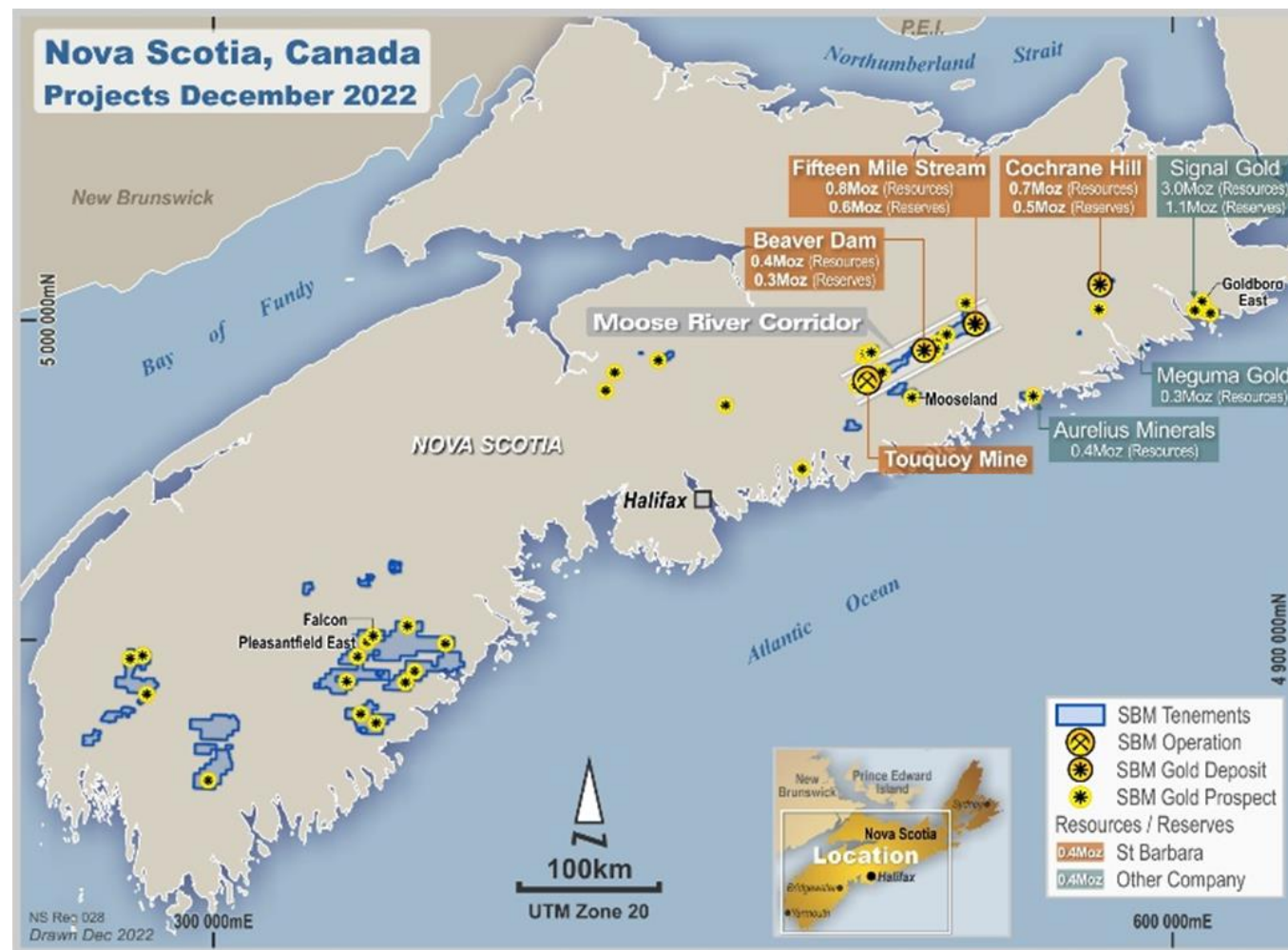
1. C\$1,800 to C\$2,014 per ounce at AUD/CAD of 0.87
 2. Indicative operating costs based on FY22



Atlantic

Outstanding option value with 1.9Moz in Mineral Resources / 1.5Moz in Ore Reserves

- Located ~80 kilometres north-east of Halifax, Nova Scotia, Canada
- Mining of the current open pit commenced in Touquoy in 2017
- Conventional carbon in leach circuit with 2.8Mtpa capacity



Phoenician Metals' Atlantic strategy reset

Prioritise Fifteen Mile Stream and target development in FY26

Investigate repurposing of Touquoy processing facility for use at Fifteen Mile Stream

- Lower capital cost and construction time
- Transport concentrate – reduced trucking activity

Pause permitting process for Beaver Dam

- Additional time to engage with First Nations and DFO to determine path forward

Advance Cochrane Hill

Exploration of Mooseland (acquired in FY22), South-West and Goldboro East



Overview of merger, equity raising and demerger

Creating a leading Australian gold house - long-life, high-quality, substantial organic growth

Transaction structure	<ul style="list-style-type: none"> • Merger of St Barbara and Genesis, forming Hoover House (Merger), to be effected via a Genesis scheme of arrangement (Scheme) under which St Barbara will acquire 100% of the fully paid ordinary shares in Genesis • Genesis shareholders to receive 2.0338 new fully paid ordinary shares in St Barbara for each Genesis share held representing a nil premium to respective 30-day VWAPs¹ • Genesis to raise A\$275m in new equity at Genesis' last closing price, via placement commitment of A\$164m from AustralianSuper (with scale-back of up to A\$39m, in the event of take-up by other investors), A\$75m from Resource Capital Funds VII L.P. (RCF VII) (Capital Raising), and A\$36m from other institutional investors, conditional on the Scheme and Demerger becoming effective, and other conditions
Demerger of Atlantic, Simberi and other assets	<ul style="list-style-type: none"> • St Barbara to demerge Atlantic, Simberi and other assets (including St Barbara's shares in various ASX-listed entities) in conjunction with the Scheme, into a new company (Phoenician Metals), which intends to apply to list on the ASX (Demerger) • The Demerger and Scheme will be inter-conditional and St Barbara shareholders will receive an in-specie distribution of shares in Phoenician Metals • Hoover House to retain 20% shareholding in Phoenician Metals
Board and senior management	<ul style="list-style-type: none"> • Hoover House's Board will comprise 4 directors from St Barbara, 2 directors from Genesis and 1 new director. Tony Kiernan proposed to be Non-Executive Chair; Raleigh Finlayson to be Managing Director. Board and management will own ~A\$24m² of combined equity • Phoenician Metals' Board will comprise 4 directors from St Barbara. David Moroney proposed to be Non-Executive Chair; Andrew Strelein to be Managing Director
Approvals, conditions and timing	<ul style="list-style-type: none"> • The Scheme has been unanimously recommended by the Genesis Board, subject to no superior proposal emerging and an Independent Expert concluding that the Scheme is in the best interests of Genesis shareholders • The issue of St Barbara shares under the Scheme and the Demerger will be unanimously recommended by the St Barbara Board, subject to an Independent Expert concluding that the Demerger is in the best interests of St Barbara shareholders, and the operation of fiduciary duties of the St Barbara Board • The Scheme is subject to approval by Genesis shareholders (75% of votes cast / 50% of shareholders) and the Scheme is also subject to approval by the Federal Court. The capital raising is also subject to approval by Genesis shareholders (50% approval threshold) • The Demerger and issue of St Barbara shares under the Scheme are subject to approval by St Barbara shareholders (both 50% approval threshold) at an extraordinary general meeting (EGM) • Transaction completion targeting May 2023

1. Based on Genesis and St Barbara 30-day VWAP calculated up to and including 9 December 2022

2. Based on ordinary shares owned by Board (including incoming Board) and management in Genesis and includes commitments to the current capital raising, valued at capital raising price of \$1.20 .



Equity raising - use of funds

Sources and Uses

Sources	A\$m	Details
Conditional Placement	275	Fully subscribed
TOTAL	275	

Uses	A\$m	Details
Gwalia re-set / future-proofing	50	Progressing organic growth opportunities across Gwalia, supporting the path to +300koz pa from Leonora
Tower Hill development	20	Early works to establish Tower Hill open pit
Phoenician Metals working capital	65	General working capital, oxide mine life extensions at Simberi, permitting at Atlantic and exploration
Reduce debt / improve financial flexibility	90 ¹	Repayment of C\$80m of debt drawn under St Barbara's syndicated debt facility
Other transaction costs	50	Stamp duty, and other costs associated with the Scheme and Demerger of Phoenician Metals
TOTAL	275	

1. Based on spot AUD:CAD of 0.92 as at 9 December 2022, with small contingency for FX movement.



Transaction timetable

Scheme implementation expected to be completed by May 2023

Key Dates	Date
Conditional Placement	
Dispatch Notice of Meeting	March 2023
Extraordinary General Meeting	May 2023
Settlement and issue of shares under the Conditional Placement	May 2023
Scheme Timetable	
First Court Hearing	March 2023
Dispatch of Scheme Booklet and Notice of Meeting	March 2023
Scheme Meeting	May 2023
Second Court Hearing	May 2023
Effective Date	May 2023
Scheme Record Date	May 2023
Implementation Date	May 2023
Demerger Timetable	
Dispatch of Demerger Booklet and Notice of Meeting	March 2023
Lodgement of Information Memorandum	April 2023
Extraordinary General Meeting	May 2023
Effective Date	May 2023
Record Date	May 2023
Implementation Date	May 2023

Note: This timetable is indicative and subject to change.



Financial overview of H1 FY23

Statutory NPAT

(A\$ M)

(407)

Underlying NPAT¹

(A\$ M)

(9)

Underlying EBITDA¹

(A\$ M)

44

**Underlying
EBITDA Margin¹**

(%)

14

**Cash flow from
operating activities**

(A\$ M)

6

Net Debt^{1,2}

(A\$ M)

117

1. Non-IFRS financial measures, the details of these are set out in the Supplementary Slide 39. Excludes significant items.

2. Net Debt is cash and cash equivalents less interest bearing liabilities excluding right of use asset liabilities



Significant Items

Significant Items (\$M)	H1 FY23
Call option fair value movements	(1)
Business development costs	(2)
Expected credit loss	(23)
Impairment loss on assets	(494)
Total significant items – pre tax	(519)
Tax Effect	
Tax effect of impairment loss	122
Tax effect of other significant items	8
Deferred tax assets not brought to account	(8)
Total significant items – post tax	(399)

Atlantic impairment (\$420M pre-tax)

- Pause in permitting for Beaver Dam for further discussion and consequent care and maintenance costs at Touquoy
- Increase in discount rate
- Cost inflation in operating and capital costs
- Change in Beaver Dam and Cochrane Hill valuation methodology
- Exploration valuation has been assessed using latest market multiples

Simberi impairment (\$74M)

- Deferral of Sulphide project and increase in discount rate

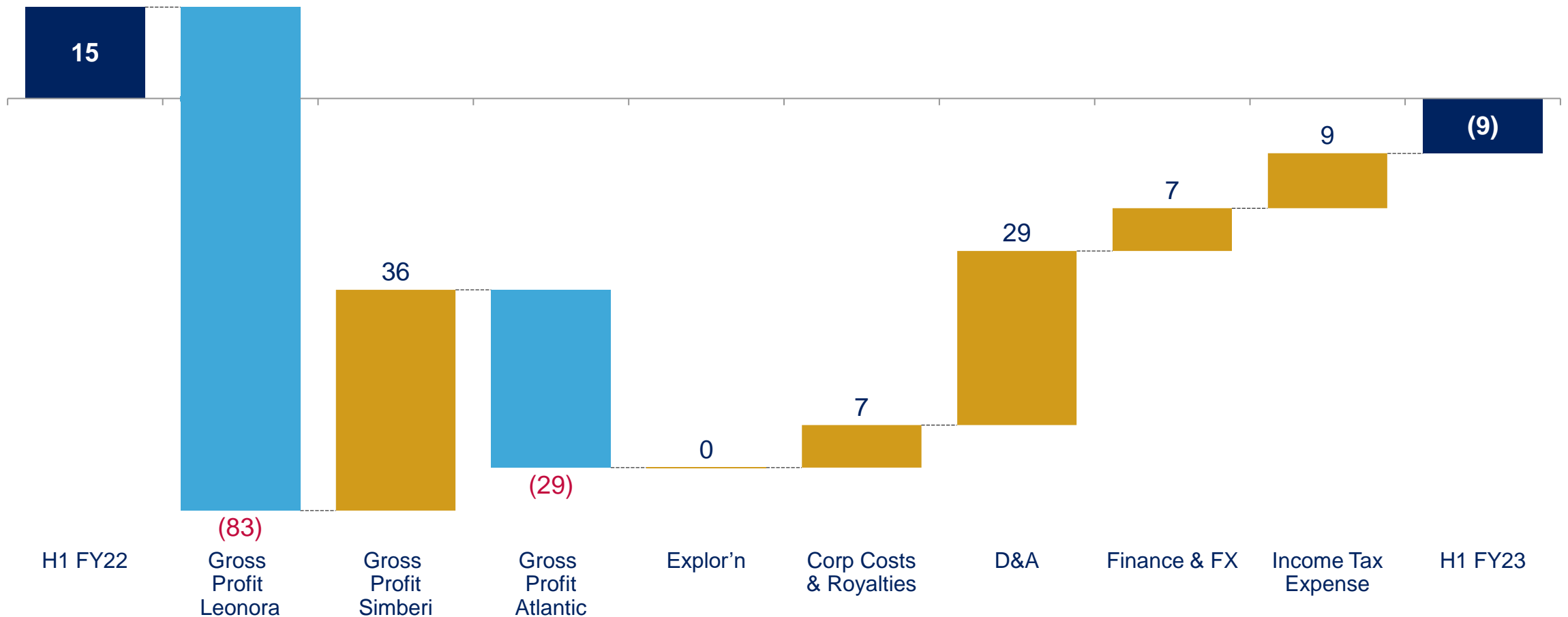
Expected credit loss (\$23M)

- Pending greater certainty on recapitalisation of the counterparty provision raised to cover
 - \$18M outstanding loan
 - \$5M toll treatment income



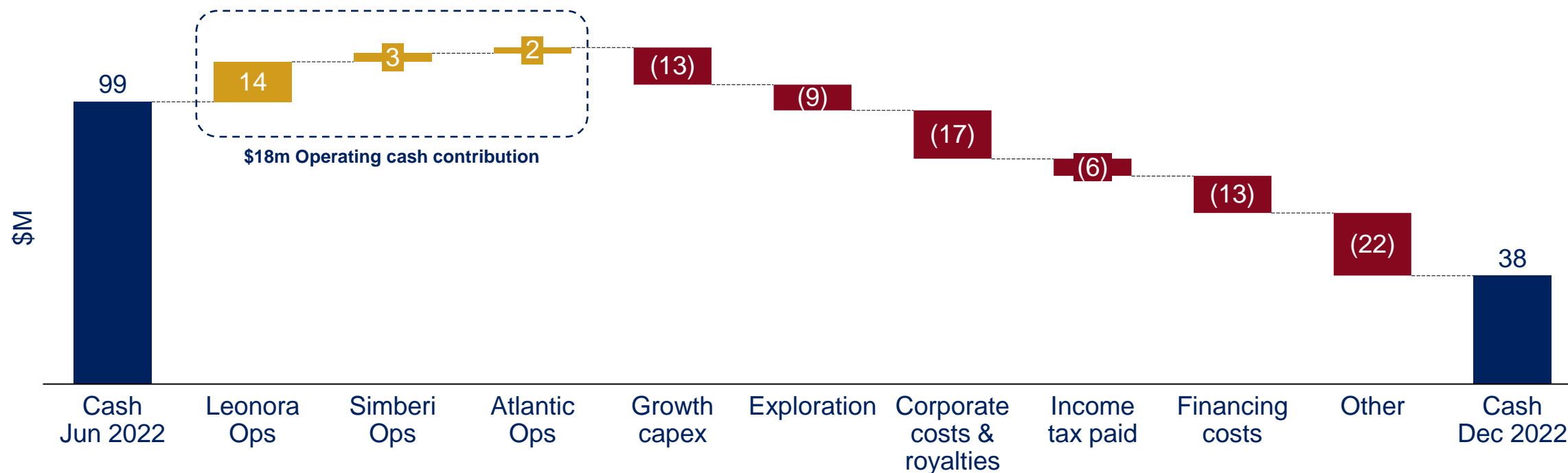
Lower production at Leonora driving underlying net profit result

Movement in underlying net profit (\$M)



Cash position impacted by lower production

- \$4.7M Operating cash contribution after growth capex
- Operating cash flows impacted by lower production at Leonora and Atlantic
- \$20M drawn down from debt facility during January 2023 in light of lower than expected production from Gwalia





St Barbara

Consolidated production, costs and guidance summary

Production Summary Consolidated		Q2 Dec FY22	Q3 Mar FY22	Q4 Jun FY22	Q1 Sep FY23	Q2 Dec FY23	Half Year FY23	Guidance FY23
<i>St Barbara's financial year is 1 July to 30 June</i>		<i>Qtr to 31 Dec 2021</i>	<i>Qtr to 31 March 2022</i>	<i>Qtr to 30 June 2022</i>	<i>Qtr to 30 Sep 2022</i>	<i>Qtr to 31 Dec 2022</i>	<i>6 months to 31 Dec 2022</i>	<i>Year to 30 June 2023</i>
Production								
Atlantic	oz	16,887	11,006	18,015	11,492	10,054	21,546	40 to 50koz
Leonora	oz	48,637	40,559	50,506	34,078	32,175	66,253	145 to 160koz
Simberi	oz	-	10,254	17,882	18,130	18,747	36,877	70 to 80koz
Consolidated	oz	65,524	61,819	86,403	63,700	60,976	124,676	260 to 290koz
Mined Grade								
Atlantic	g/t	0.76	0.52	0.70	0.49	0.55	0.52	n/a
Leonora	g/t	6.8	6.1	7.83	5.3	4.8	5.0	n/a
Simberi	g/t	1.29	1.21	1.07	0.99	1.09	1.04	n/a
Total Cash Operating Costs								
Atlantic	A\$/oz	1,234	1,799	1,751	1,714	2,268	1,963	n/a
Leonora	A\$/oz	1,164	1,341	1,323	1,850	2,065	1,954	n/a
Simberi	A\$/oz	-	3,829	2,276	2,708	2,183	2,360	n/a
Consolidated	A\$/oz	1,184	1,861	1,632	2,085	2,140	2,084	n/a
All-In Sustaining Cost								
Atlantic	A\$/oz	1,396	2,013	2,027	2,085	2,867	2,450	2,075 to 2,315 ¹
Leonora	A\$/oz	1,653	1,916	1,854	2,487	2,796	2,637	2,250 to 2,450
Simberi	A\$/oz	-	4,064	2,416	2,754	2,335	2,540	2,300 to 2,540 ²
Consolidated	A\$/oz	1,587	2,290	2,007	2,490	2,666	2,576	2,250 to 2,500

1. C\$1,800 to C\$2,014 per ounce at AUD/CAD of 0.87
2. US\$1,450 to US\$1,600 per ounce at AUD/USD of 0.63



AISC Cost breakdown by operation

All-In Sustaining Cost ¹ (A\$/oz produced)	Atlantic Operations					Leonora Operations					Simberi Operations				
	Q2 Dec FY22	Q3 Mar FY22	Q4 Jun FY22	Q1 Sep FY23	Q2 Dec FY23	Q2 Dec FY22	Q3 Mar FY22	Q4 Jun FY22	Q1 Sep FY23	Q2 Dec FY23	Q2 Dec FY22	Q3 Mar FY22	Q4 Jun FY22	Q1 Sep FY23	Q2 Dec FY23
Mining	442	869	953	826	847	756	930	913	1,270	1,437	1,270	1,231	1,171	1,098	
Processing	493	729	515	758	874	176	238	179	322	356	1,096	717	820	750	
Site Services	245	412	298	381	460	104	127	116	193	200	1,130	589	517	446	
Stripping and ore inventory adj	-7	-256	-60	-319	33	44	-8	38	2	10	284	-307	-15	-171	
	1,173	1,754	1,706	1,646	2,214	1,080	1,287	1,246	1,787	2,003	3,780	2,230	2,493	2,123	
By-product credits	-1	-2	-2	-1	-1	-3	-3	-3	-4	-6	-14	-14	-7	-6	
Third party refining & transport	4	3	2	3	4	1	1	1	1	1	-	4	4	8	
Royalties	58	44	45	47	51	86	56	79	66	67	63	56	55	58	
Total cash operating costs	1,234	1,799	1,751	1,695	2,268	1,164	1,341	1,323	1,850	2,065	3,829	2,276	2,545	2,183	
Corporate and administration	75	134	71	107	94	94	130	77	95	113	61	76	105	98	
Corporate royalty ²	-	-	-	-	-	48	61	54	44	59	-	-	-	-	
Rehabilitation	28	43	26	43	49	7	8	7	10	11	54	31	34	33	
Capitalised mine development	-	-	-	-	-	203	273	252	431	548	-	-	-	-	
Sustaining capital expenditure	59	37	179	240	456	50	48	41	49	32	120	33	70	21	
All-In Sustaining Cost (AISC) (Gwalia) ²						1,566	1,861	1,754	2,479	2,828					
Ore purchased ²						87	55	100	8	-32					
All-In Sustaining Cost (AISC)	1,396	2,013	2,027	2,085	2,867	1,653	1,916	1,854	2,487	2,796	4,064	2,416	2,754	2,335	

1. Non-IFRS measure, refer to slide 39

2. These items only relevant to Gwalia



Hedging summary as at 31 December 2022

Financial Year	Volume Ounces	Price \$/oz	Type	Delivery	Delivery schedule
Jul 22 to Jun 23	3,012	C\$2,060	Vanilla forwards	Feb 2023	Monthly



Ore Reserves Summary as at 31 December 2022

Region	Project	Proved			Probable			Total		
		Tonnes ('000)	Gold (g/t)	Ounces ('000)	Tonnes ('000)	Gold (g/t)	Ounces ('000)	Tonnes ('000)	Gold (g/t)	Ounces ('000)
Australia	Gwalia, (WA)	2,121	5.1	345	10,525	5.0	1,696	12,647	5.0	2,041
	Tower Hill, (WA)	-	-	-	9,700	1.8	560	9,700	1.8	560
	Aphrodite, (WA)	-	-	-	2,782	3.6	322	2,782	3.6	322
	Zoroastrian, (WA)	-	-	-	795	3.8	97	795	3.8	97
PNG	Simberi Oxide, (PNG)	2,091	1.3	86	5,488	1.1	194	7,579	1.2	280
	Simberi Sulphide, (PNG)	2,161	1.8	122	24,396	2.0	1,558	26,557	2.0	1,680
	Simberi Stockpiles, (PNG)	-	-	-	710	1.3	31	710	1.3	31
Canada	Atlantic Operations, (NS)	20,420	1.1	753	20,120	1.1	696	40,550	1.1	1,449
	Atlantic Operations Stockpiles, (NS)	5,420	0.5	80	-	-	-	5,420	0.5	80
Total All Projects		32,213	1.3	1,386	74,516	2.2	5,154	106,740	1.9	6,540

Notes

- Ore Reserves are based on a gold price of: Gwalia (A\$2,000/oz), Simberi (US\$1,500/oz) and Atlantic Gold (C\$1,875/oz for Touquoy, C\$1,948/oz for Beaver Dam and C\$1,688/oz for Fifteen Mile Stream & Cochrane Hill)
- Cut-off Grades Gwalia (4.0 g/t Au), Simberi Oxide (0.4 g/t Au), Atlantic Mining (0.3 g/t Au – 0.4 g/t Au).
- Mineral Resources are reported inclusive of Ore Reserves.
- Rounding may result in apparent summation differences between tonnes, grade and contained metal content.



Mineral Resources Summary as at 31 December 2022

Region	Project	Measured			Indicated			Inferred			Total		
		Tonnes ('000)	Gold (g/t)	Ounces ('000)	Tonnes ('000)	Gold (g/t)	Ounces ('000)	Tonnes ('000)	Gold (g/t)	Ounces ('000)	Tonnes ('000)	Gold (g/t)	Ounces ('000)
Leonora, WA	Gwalia Deeps	3,573	5.5	633	18,208	5.7	3,326	2,417	6.6	515	24,198	5.8	4,473
	Gwalia Shallows	1,129	3.5	128	1,492	3.7	178	771	3.3	81	3,391	3.5	386
	Gwalia Open Pit	5,864	2.3	434	3,150	2.0	200	-	-	-	9,014	2.2	634
	Harbour Lights	-	-	-	12,569	1.7	674	1,158	2.0	73	13,726	1.7	747
	Tower Hill	-	-	-	20,682	1.8	1,177	-	-	-	20,682	1.8	1,177
Bardoc, WA	Aphrodite Open Pit	-	-	-	13,458	1.5	666	5,321	1.3	229	18,780	1.5	895
	Aphrodite Underground	-	-	-	4,156	3.7	497	2,571	3.3	271	6,726	3.6	768
	Zoroastrian Open Pit	-	-	-	3,702	1.9	228	1,730	1.6	87	5,432	1.8	315
	Zoroastrian Underground	-	-	-	800	4.7	120	817	3.4	90	1,617	4.0	209
	Excelsior	-	-	-	9,645	1.0	313	1,685	0.8	41	11,330	1.0	354
	Bardoc Satellite Open Pits	152	2.3	11	4,314	1.6	217	4,950	1.6	251	9,417	1.6	480
PNG	Simberi Oxide	2,501	1.3	106	8,207	1.0	275	4,866	1.0	160	15,575	1.1	541
	Simberi Sulphide	2,704	1.5	133	46,116	1.6	2,417	18,705	1.5	884	67,524	1.6	3,434
Canada	Atlantic Operations	22,135	1.1	800	28,461	1.0	922	6,428	1.1	221	57,024	1.1	1,942
	Total All Projects	38,058	1.8	2,244	174,960	2.0	11,209	51,419	1.8	2,903	264,436	1.9	16,355

Notes

1. Mineral Resources are reported inclusive of Ore Reserves.
2. Cut-off Grades Gwalia (2.5 g/t Au), Gwalia Open Pit (0.4 g/t Au), Harbour Lights (0.4 g/t Au Oxide / 0.8 g/t Au Sulphide), Tower Hill (0.4 g/t Au), Simberi Oxide (0.4 g/t Au), Simberi Sulphide (0.6 g/t Au), Atlantic Operations (0.3 g/t Au), Aphrodite Open Cut (variable), Aphrodite Underground (1.7g/t Au), Zoroastrian Open Cut (0.5 g/t Au), Zoroastrian Underground (1.6g/t Au), Excelsior (0.3 g/t Au), Bardoc Satellite Open Pits (0.4 – 0.6 g/t Au)
3. Gwalia Open Pit, Harbour Lights and Tower Hill Mineral Resources are reported constrained by a A\$2,500/oz pit shell. Simberi Mineral Resources are reported constrained by a US\$1,875/oz pit shell. Atlantic Mineral Resources are reported constrained by a C\$2,388/oz pit shell.
4. Rounding may result in apparent summation differences between tonnes, grade and contained metal content.



Competent persons statement

Exploration Results

The information in this presentation that relates to Exploration Results is based on information compiled by Dr Roger Mustard, who is a Member of The Australasian Institute of Mining and Metallurgy. Dr Mustard is a full-time employee of St Barbara and has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Dr Mustard consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

Full details of recent exploration results in ASX release titled 'Quarterly Report Q2 December FY23' released to the Australian Securities Exchange (ASX) on 25 January 2023 which is available to view on www.stbarbara.com.au.

Mineral Resources and Ore Reserve Estimates

The information in this presentation that relates to Mineral Resources or Ore Reserves is extracted from the report titled 'Ore Reserves and Mineral Resources Statements as at 31 December 2022' released to the Australian Securities Exchange (ASX) on 22 February 2023 (Original Report) and available to view at stbarbara.com.au and for which Competent Persons' consents were obtained. Each Competent Person's consent remains in place for subsequent releases by the Company of the same information in the same form and context, until the consent is withdrawn or replaced by a subsequent report and accompanying consent.

The Company confirms that it is not aware of any new information or data that materially affects the information included in the Original Report and, in the case of estimates of Mineral Resources or Ore Reserves, that all material assumptions and technical parameters underpinning the estimates in the Original Report continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the Original Report. Full details are contained in Original Report available at stbarbara.com.au.



Non-IFRS Measures

We supplement our financial information reporting determined under International Financial Reporting Standards (IFRS) with certain non-IFRS financial measures, including cash operating costs. We believe that these measures provide meaningful information to assist management, investors and analysts in understanding our financial results and assessing our prospects for future performance.

All-In Sustaining Cost (AISC)	All-In Sustaining Cost is based on Cash Operating Costs, and adds items relevant to sustaining production. It includes some, but not all, of the components identified in World Gold Council's Guidance Note on Non-GAAP Metrics - All-In Sustaining Costs and All-In Costs (June 2013). Refer most recent quarterly report available at stbarbara.com.au for example.
Cash contribution	Cash flow from operations before finance costs, refer reconciliation of cash movement in the most recent quarterly report available at stbarbara.com.au
Cash operating costs	Calculated according to common mining industry practice using The Gold Institute (USA) Production Cost Standard (1999 revision). Refer most recent quarterly report available at stbarbara.com.au for example
EBIT	Earnings before interest revenue, finance costs and income tax expense
EBITDA	EBIT before depreciation and amortisation
EBITDA margin	$EBITDA \div Revenue$
Underlying EBITDA / NPAT	EBITDA or NPAT after excluding identified significant items. Refer Interim Financial Report for half year ended 31 December 2021 Financial Report (p3) for details.
Earnings Per Share (EPS)	Profit attributable to equity holders (excluding any costs of servicing equity other than ordinary shares) / weighted average number of ordinary shares outstanding during the reporting period



Appendix A – Pro-forma snapshot as at 9 December 2022

Pro-forma entities

		St Barbara	Genesis	Equity raising	Hoover House	Phoenician
Share price	A\$	\$0.65	\$1.20	\$1.20		
30-day VWAP	A\$	\$0.61	\$1.24			
No. ordinary shares ¹	M	817	410	229		
Market Capitalisation	A\$M	531	490	275		
% shareholding in MergeCo	%	37.8%	40.6% ²	21.6%	100.0%	
Cash and equivalents (30 Nov 2022)	A\$M	47	88	275	237	85
Debt (30 Nov 2022) ^{3,4}	A\$M	137	-		50	-
Enterprise Value	A\$M	621	402			
Gold Ore Reserves ⁵	Moz	6.5	0.1		3.1	3.5
Gold Mineral Resources ⁵	Moz	16.4	4.2		14.7	5.9

Notes: Market data as at 9 December 2022

1. Refer to latest Appendix 2A ASX announcements from St Barbara (30 November 2022) and Genesis (9 December 2022);
2. Factors in an additional ~20.3m Genesis shares based on conversion of some Genesis options and performance rights under the SID
3. Syndicated debt facility of A\$50m and C\$80m (A\$87m) at AUD/CAD 0.92 at 9 December 2022 close.
4. Excludes lease liabilities.
5. See Appendix C and D of this presentation in relation to Ore Reserves and Mineral Resources



Appendix B – Dacian update

Genesis owns approximately 80.1% of Dacian

Dacian owns strategic 2.9Mtpa processing plant in the heart of the Leonora district

Dacian strategic review continues with Dacian seeking expressions of interest for access to Mt Morgans Mill from ~March quarter of CY2023 through to ~September quarter of CY2024¹

Genesis will continue to have input into Dacian strategic review subject to compliance with the Corporations Act and (so long as Dacian remains listed) ASX Listing Rules²

Genesis' Takeover Bid is unconditional and final as to price, was extended to 20 February 2023.

In seeking to realise such synergies, Hoover House will at all times comply with the relevant provisions of the Corporations Act and (so long as Dacian remains listed) ASX Listing Rules

1. Refer Dacian ASX Announcement 16 November 2022 - opportunity for third-parties to access the Mt Morgans Processing Plant
2. Refer Genesis Bidder's Statement dated 29 July 2022 for further information on the strategic review
3. Refer to DCN ASX announcement dated 27 July 2022, "2022 Mineral Resources and Ore Reserves Update"



Appendix C – Combined Ore Reserves

Hoover House

Ore Reserves by deposit

Deposit	Proved			Probable			Total		
	Tonnes (000's)	Grade (g/t Au)	Ounces (000's)	Tonnes (000's)	Grade (g/t Au)	Ounces (000's)	Tonnes (000's)	Grade (g/t Au)	Ounces (000's)
St Barbara¹									
Gwalia	2,121	5.1	345	10,525	5.0	1,696	12,647	5.0	2,041
Aphrodite	-	-	-	2,782	3.6	322	2,782	3.6	322
Zoroastrian	-	-	-	795	3.8	97	795	3.8	97
Tower Hill	-	-	-	9,700	1.8	560	9,700	1.8	560
Total Leonora Operations	2,121	5.1	345	23,802	3.5	2,675	25,924	3.6	3,020
Dacian²									
Mine Stockpiles	-	-	-	371	0.8	9	371	0.8	9
LG Stockpiles	-	-	-	1,249	0.6	23	1,249	0.6	23
Total Mt Morgans	-	-	-	1,620	0.6	32	1,620	0.6	32
Hub OP	-	-	-	256	4.1	34	256	4.1	34
GTS OP	-	-	-	499	2.2	35	499	2.2	35
Total Redcliffe Project	-	-	-	755	2.8	69	755	2.8	69
Total Dacian	-	-	-	2,375	1.3	101	2,375	1.3	101
Hoover House Total	2,121	5.1	345	26,177	3.3	2,776	28,299	3.4	3,121

- Ore Reserves for St Barbara are extracted from the report titled 'Ore Reserves and Mineral Resources Statements as at 31 December 2022' released by St Barbara to the ASX on 22 February 2023.
- Ore Reserves for Dacian are extracted from the report titled '2022 Mineral Resources and Ore Reserves update' released to the ASX on 27 July 2022 and presented on 100% basis. Dacian Ore Reserve and Mineral Resource estimate inclusive of stockpile depletion of 21koz as at 30 November 2022.



Appendix C – Combined Ore Reserves

Phoenician Metals

Ore Reserves by deposit

Deposit	Tonnes (000's)	Proved Grade (g/t Au)	Ounces (000's)	Tonnes (000's)	Probable Grade (g/t Au)	Ounces (000's)	Tonnes (000's)	Total Grade (g/t Au)	Ounces (000's)
St Barbara¹									
Simberi Oxide	2,091	1.3	86	5,488	1.1	194	7,579	1.2	280
Simberi Sulphide	2,161	1.8	122	24,396	2.0	1,558	26,557	2.0	1,680
Simberi Stockpile	-	-	-	710	1.3	31	710	1.3	31
Total Simberi Operations	4,252	1.5	208	30,594	1.8	1,783	34,846	1.8	1,991
Touquoy	250	0.7	6	320	0.6	7	570	0.7	13
Beaver Dam	4,340	1.4	195	3,490	1.3	150	7,840	1.4	345
Fifteen Mile Stream	5,580	1.1	196	11,180	1.1	381	16,760	1.1	577
Cochrane Hill	10,250	1.1	356	513	1.0	158	15,380	1.0	514
Atlantic Operations Stockpile	5,420	0.5	80	-	-	-	5,420	0.5	80
Total Atlantic Operations	25,840	1.0	833	20,120	1.1	696	45,970	1.0	1,529
Phoenician Total	30,092	1.1	1,041	50,714	1.5	2,479	80,816	1.4	3,520

1. Ore Reserves are extracted from the report titled 'Ore Reserves and Mineral Resources Statements as at 31 December 2022' released by St Barbara Limited to the ASX on 22 February 2023.



Appendix D – Combined Mineral Resources

Hoover House

Mineral Resources by deposit

Deposit	Measured			Indicated			Inferred			Total		
	Tonnes (000's)	Grade (g/t Au)	Ounces (000's)	Tonnes (000's)	Grade (g/t Au)	Ounces (000's)	Tonnes (000's)	Grade (g/t Au)	Ounces (000's)	Tonnes (000's)	Grade (g/t Au)	Ounces (000's)
St Barbara¹												
Gwalia Deeps	3,573	5.5	633	18,208	5.7	3,326	2,417	6.6	515	24,198	5.8	4,473
Gwalia Open Pit	5,864	2.3	434	3,150	2.0	200	-	-	-	9,014	2.2	634
Gwalia Shallows	1,129	3.5	128	1,492	3.7	178	771	3.3	81	3,391	3.5	386
Harbour Lights	-	-	-	12,569	1.7	674	1,158	2.0	73	13,726	1.7	747
Tower Hill	-	-	-	20,682	1.8	1,177	-	-	-	20,682	1.8	1,177
Aphrodite Open Pit	-	-	-	13,458	1.5	666	5,321	1.3	229	18,780	1.5	895
Aphrodite Underground	-	-	-	4,156	3.7	497	2,571	3.3	271	6,726	3.6	768
Zoroastrian Open Pit	-	-	-	3,702	1.9	228	1,730	1.6	87	5,432	1.8	315
Zoroastrian Underground	-	-	-	800	4.7	120	817	3.4	90	1,617	4.0	209
Excelsior	-	-	-	9,645	1.0	313	1,685	0.8	41	11,330	1.0	354
Bardoc Satellite Open Pits	152	2.2	11	4,314	1.6	217	4,950	1.6	251	9,417	1.6	480
Total Leonora Operations	10,718	3.5	1,206	92,176	2.6	7,596	21,420	2.4	1,638	124,313	2.6	10,438
Genesis²												
Ulysses	795	5.3	135	4,341	3.1	434	2,607	3.2	269	7,743	3.4	838
Admiral	-	-	-	5,081	1.5	242	8,741	1.1	318	13,822	1.3	560
Orient Well	-	-	-	4,304	1.0	138	4,496	1.1	164	8,800	1.1	302
Puzzle	-	-	-	5,765	1.1	204	2,950	1.1	107	8,715	1.1	310
Genesis Stockpile	-	-	-	226	0.8	6	-	-	-	226	0.8	6
Total Genesis	795	5.3	135	19,717	1.6	1,025	18,794	1.4	857	39,306	1.6	2,017
Dacian (100% basis)³												
Greater Westralia Mining Area	200	4.2	27	3,150	4.1	412	5,570	3.1	561	8,920	3.5	1,001
Jupiter Mining Area	1,960	1.6	100	8,420	1.1	289	970	1.2	37	11,340	1.2	426
Cameron Well project Area	-	-	-	170	0.9	5	500	0.8	12	660	0.8	17
Mt Morgans Stockpiles	1,620	0.6	32	-	-	-	3,630	0.4	48	5,250	0.5	79
Redcliffe Southern Zone	-	-	-	1,640	2.9	155	7,500	1.3	302	9,130	1.6	458
Redcliffe Central Zone	-	-	-	880	2.9	82	2,650	1.7	142	3,530	2.0	224
Total Dacian	3,780	1.3	159	14,250	2.1	943	20,820	1.6	1,102	38,840	1.8	2,204
Hoover House Total	15,293	3.1	1,500	126,143	2.4	9,564	61,034	1.8	3,597	202,459	2.3	14,659

Note: Mineral Resources are reported inclusive of Ore Reserves.

1. Mineral Resources for St Barbara are extracted from the report titled 'Ore Reserves and Mineral Resources Statements as at 31 December 2022' released by St Barbara to the ASX on 22 February 2023.
2. Mineral Resources for Genesis are extracted from the report titled 'Leonora Resource Increases By More Than 400,000oz to 2Moz' released to the ASX on 29 March 2022.
3. Mineral Resources for Dacian are extracted from the report titled '2022 Mineral Resources and Ore Reserves update' released to the ASX on 27 July 2022 and presented on an 100% basis. Dacian Ore Reserve and Mineral Resource estimate inclusive of stockpile depletion of 21koz as at 30 November 2022.



Appendix D – Combined Mineral Resources

Phoenician Metals

Mineral Resources by deposit

Deposit	Measured			Indicated			Inferred			Total		
	Tonnes (000's)	Grade (g/t Au)	Ounces (000's)	Tonnes (000's)	Grade (g/t Au)	Ounces (000's)	Tonnes (000's)	Grade (g/t Au)	Ounces (000's)	Tonnes (000's)	Grade (g/t Au)	Ounces (000's)
St Barbara¹												
Simberi Oxide	2,501	1.3	106	8,207	1.0	275	4,866	1.0	160	15,575	1.1	541
Simberi Sulphide	2,704	1.5	133	46,116	1.6	2,417	18,705	1.5	884	67,524	1.6	3,434
Total Simberi Operations	5,205	1.4	239	54,323	1.5	2,692	23,571	1.4	1,044	83,099	1.5	3,975
Touquoy	-	-	-	1,249	0.6	23	100	0.5	1	1,349	0.6	24
Beaver Dam	5,126	1.3	210	4,757	1.2	185	1,177	1.4	52	11,060	1.3	447
Fifteen Mile Stream	6,305	1.1	215	14,755	1.0	477	2,594	1.1	89	23,654	1.0	781
Cochrane Hill	10,704	1.1	375	7,700	1.0	236	2,557	1.0	79	20,961	1.0	690
Total Atlantic Operations	22,135	1.1	800	28,461	1.0	922	6,428	1.1	221	57,024	1.1	1,942
Phoenician Total	27,340	1.2	1,039	82,784	1.4	3,614	29,999	1.3	1,265	140,123	1.3	5,917

Note: Mineral Resources are reported inclusive of Ore Reserves.

1. Ore Reserves are extracted from the report titled 'Ore Reserves and Mineral Resources Statements as at 31 December 2022' released by St Barbara Limited to the ASX on 22 February 2023.



Appendix E – Production target material assumptions

Pursuant to Listing Rule 5.16, Genesis and St Barbara (as applicable) provide the following information in respect of the material assumptions on which the “300koz pa” production target is based. This information also applies in respect of the “180-205koz pa” production target in respect of Gwalia and Ulysses, which forms part of the “300koz pa” production target.

Composition of production target

- For the purposes of Listing Rule 5.16.3, the 300koz pa production target is comprised of 56% Ore Reserves (comprised further of 49% of material in the Probable category and 7% of material in the Proved category) and 44% Mineral Resources (comprised further of 10% of material in the Measured category, 25% of material in the Indicated category and 9% of material in the Inferred category). The 300koz pa production target is expected to be achieved in FY26.
- A further breakdown is presented as follows:

	Gwalia	Tower Hill	Ulysses	Admiral	Jupiter ¹	TOTAL
Production target ounces ²	124koz pa	60koz pa	81koz pa	9koz pa	27koz pa	301koz pa
	41%	20%	27%	3%	9%	100%
Ore Reserves Underpinning the Production Target	124koz pa	45koz pa	-	-	-	169koz pa or 56%
Proved	17%	0%	-	-	-	12%
Probable	83%	100%	-	-	-	88%
Mineral Resources Underpinning the Production Target ³	-	15koz pa	81koz pa	9koz pa	27koz pa	132koz pa or 44%
Measured	-	0%	21%	0%	55%	24%
Indicated	-	96%	50%	85%	43%	56%
Inferred ⁴	-	4%	29%	15%	2%	20%
Merged Company interest in project	Underground 100%	Open pit 100%	Underground 100%	Open pit 100%	Open pit 77% ⁵	

- Notwithstanding the percentage ownership of the Merged Company in Jupiter, the figures in the table are stated on a 100% ownership basis.
- The estimated Ore Reserves and Mineral Resources underpinning the 300koz pa production target have been prepared by a competent person or persons in accordance with the requirements of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Please refer to the JORC compliance statements on slide 4 and the Competent Persons Statements on slide 5 of the presentation “Creating a leading Australian Gold House” lodged on the ASX 12 December 2022 for more information.
- The Mineral Resources stated are exclusive of Ore Reserves.
- Please note that there is a low level of geological confidence associated with inferred mineral resources and there is no certainty that further exploration work will result in the determination of indicated mineral resources or that the production target itself will be realised.
- Genesis’ takeover bid is extended to 30 January 2023, and Genesis’ interest in Jupiter may increase further under that bid.



• Mining – Open pit

For the open pit production targets, conventional mechanised open pit mining equipment utilising hydraulic excavators and rear dump trucks remains and continues to be the selected mining method.

In terms of open pit wall angles and geotechnical conditions, all open pit mining areas have existing exposure as well as geotechnical drilling, core logging and rock property test work that has been utilised to provide geotechnical parameters regarding overall slope angles, berm widths, locations, and batter angles. These parameters have been incorporated into designs.

The Jupiter open pit production target is based on a detailed pit design generated using mining software with 2% of ounces in the Inferred Mineral Resource category. Mining recovery and dilution was modelled through conversion of the Mineral Resource block model to a regularised Mining Model (5 x 5 x 2.5 blocks) and estimated by taking into consideration ore body geometry (width and dip), excavator size and the grade of the diluent material.

The Tower Hill open pit production target is based upon the previously published St Barbara Ore Reserve estimate published in the report titled “Quarterly Report Q1 September FY23” released to the ASX on 18 October 2022. Additional ore contribution to the target was based on pit optimisations generated using mining software and modifying factors for mining dilution and ore loss were applied at rates of 8% and 4% respectively, taking into consideration ore body geometry (width and dip), excavator size, and the grade of the diluent material. 1% of the Tower Hill ounces are in the Inferred Mineral Resource category.

The Admiral open pit production target is based upon a detailed pit design and includes 15% of ounces in the Inferred Mineral Resource category. Modifying factors for mining dilution and ore loss were applied at rates of 18% and 6% respectively, taking into consideration ore body geometry (width and dip), excavator size, and the grade of the diluent material.

Mining – Underground

The Ulysses Underground production target is based on mining shapes generated using the Ulysses Mineral Resource block model and includes 29% of ounces in the Inferred Mineral Resource category.

Ulysses Underground is planned to be mined using conventional underground mining methods. The mining will consist of Longhole Open Stopping (LHOS) on 10m level spacing with voids remaining open and insitu rock rib and sill pillars used for stability. Mining operations will be undertaken by a conventional fleet of twin boom jumbos, 76mm production drills, 10-15t loaders and 60t trucks.

Stope shapes have a minimum mining width of 2.5 metres and a minimum stope dip angle of 35 degrees. Dilution skins were applied at 0.5 metres in the hanging wall and 0.15 metres in the footwall. A mining recovery factor of 90% has also been applied to the stopes, representing ore loss through the course of mining. Stope strike lengths have been designed in accordance to geotechnical studies in consideration to Hydraulic Radius and Effective Radius Factor (ERF) with placement of rib and sill pillars. No dilution or ore loss has been applied to ore development shapes.

The Gwalia Underground production target is based on mining shapes generated using the Gwalia Deeps Mineral Resource block model. Stopes shapes have a minimum mining width of 3m and a minimum stope dip angle of 40 degrees. Stope dilution factors vary by ore lode. South West Branch (SWB) and South Gwalia Series (SGS) have an average estimated dilution of 13% and 17%, respectively. Mining dilution of 20% has been applied to all West Lode stopes. Mining dilution of 22% has been applied to Main Lode stopes. A mining recovery factor is also applied to all stopes. The mining recovery factor is 92% for triple-lift and double-lift stopes and 90% for single-lift stopes. The profiles of development excavations are designed inclusive of 10% overbreak. No further dilution factors or mining recovery factors are applied to development ore.

Processing & Metallurgical – Open pit

The mined material from the Admiral, Tower Hill, and Jupiter open pits will be treated through the Mt Morgans 2.9 Mtpa Processing Plant, which is a standard crushing, milling and CIL circuit, with the throughput rate being confirmed by plant performance and process throughput modelling.

Variable metallurgical recovery factors, based on grind size, throughput, metallurgical test work, and historic plant performance data have been applied through the production target with the weighted average recovery being 91.5%.

Average recoveries for each of the production target areas are 91.5%, 91.6% and 91.0% with these being achieved by a blended ore feed from Admiral, Tower Hill and Jupiter mining areas respectively.

No deleterious elements have been observed in the metallurgical or geological test work, or since commissioning of the Processing Plant in March 2018.

Processing & Metallurgical – Underground

The mined material from the Ulysses and Gwalia underground mines will be treated through the Gwalia 1.4 Mtpa Processing Plant, which is a standard crushing, milling and CIL circuit, with the throughput rate being confirmed by plant performance and process throughput modelling.

Variable metallurgical recovery factors, based on grind size, throughput, metallurgical test work, and historic plant performance data have been applied through the production target with the average weighted recovery being 94.9%.

Average recoveries for each of the production target areas are 96.0% and 89.3% with these being achieved by a blended ore feed from Gwalia Underground and Ulysses Underground mining areas respectively. No deleterious elements have been observed in the metallurgical or geological test work.



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Scheduled ASX Announcements

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Q3 March 2023 Quarterly Report

