



*Annual General Meeting*

*30<sup>th</sup> November 2023*

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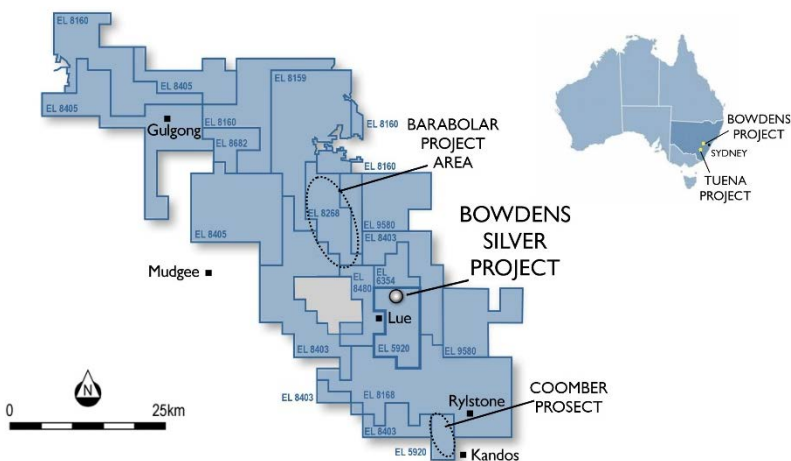
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# Silver Mines Limited: Introduction

## Key Assets

- ✓ **The Bowdens Silver Project** is located in central New South Wales, Australia.
- ✓ The consolidated project is 100% held and the area comprises **2,115km<sup>2</sup> (521,000 acres)** of titles covering approximately 80km of strike of the highly mineralised Rylstone Volcanics.
- ✓ The Bowdens Silver Project is the **largest undeveloped silver deposit in Australia** with substantial resources and a considerable body of high quality technical work completed.
- ✓ **The Project has recently received mine development approvals.**
- ✓ Initial production 6Moz silver per annum with significant growth potential.
- ✓ New Managing Director appointed commencing January 2024.\*



## Capital Structure (ASX: SVL)

	AUD	USD
Shares on Issue (m)	1,404.3	1,404.3
Share Price (\$)	0.18	0.11
<b>Undiluted Market Capitalisation (\$m)</b>	<b>252.8</b>	<b>166.8</b>
Cash (\$m, as at end September 2023)	7.3	4.8
<b>Enterprise Value (\$m)</b>	<b>245.5</b>	<b>162.0</b>
<b>Options</b>		
ESOP @ A\$0.30 Dec 2024	9.0m	
ESOP @ A\$0.30 Mar 2026	2.5m	
ESOP @ A\$0.50 Mar 2028	2.5m	
3 Year Milestone @ A\$0.20	5.0m	

## Directors

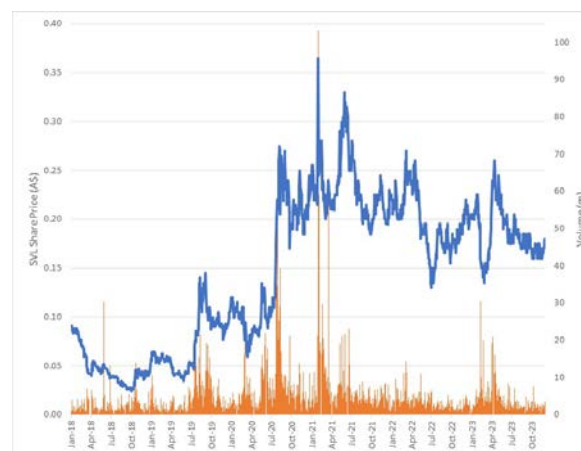
<b>Keith Perrett</b>	Non-Executive Chairman
<b>Anthony McClure</b>	Managing Director
<b>Jonathan Battershill</b>	Non-Executive Director
<b>Kristen Podagiel</b>	Non-Executive Director

# Silver Mines Limited: Progress

## Highlights

- ✓ **State Government (Independent Planning Commission) mine development approvals received in April 2023.**
  - ✓ Initial production 6Moz silver per annum plus zinc and lead as by-products from an open-pit development.
  - ✓ Recent upgrade to the Mineral Resource now standing at 396 Moz AgE and growing.
  - ✓ Optimisation program advanced and is expected to deliver a substantial upgrade to mine economics.
  - ✓ Definitive Feasibility Study to be complete early calendar 2024.
  - ✓ Subject to internal approvals, development commencement targeted ~late 2024.
- 
- ✓ Continued outstanding drilling results. The vast Bowdens Silver mineralised system remains open.
  - ✓ 97km seismic survey completed, interpretation in progress.
  - ✓ Two diamond drilling rigs continue onsite.
  - ✓ Well positioned for continued momentum in a positive silver price environment.

## Silver Mines Limited Share Price Graph





# Bowdens Silver Project: Overview

## Highlights

- ✓ The **largest silver development project in Australia** with a current JORC-compliant Mineral Resource base of 396Moz<sup>1</sup> silver equivalent.
- ✓ 100% owned asset located in a **low sovereign risk jurisdiction** of New South Wales for mining development with ready access to existing infrastructure.
- ✓ **State Government (Independent Planning Commission) development approval received April 2023.**
- ✓ Subject to internal approvals, development targeted to **commence in circa late 2024.**
- ✓ Feasibility optimisation program advanced.
- ✓ Mineral Resource recent increase by 56% in total tonnes.
- ✓ Mine planning shows that **Ore Reserve will increase.**
- ✓ **2.0 Mtpa processing** to deliver silver/lead and zinc concentrates.
- ✓ **6 Moz Ag over the first 3 years of production at an average cash cost <US\$10.00/oz**, underpinning strong EBITDA and cash flow.
- ✓ **Considerable exploration potential** at the Bowdens Silver Project and surrounds with further exploration and drilling continuing.

## Timeline of Major Milestones

- September 2017**  
Open-Cut Mineral Resource completed (275 Moz AgE)
- May 2018**  
Ore Reserve completed (97 Moz AgE)
- June 2018**  
Feasibility Study completed
- May 2020**  
EIS completed, Development Application Submission
- March 2023**  
Mineral Resource upgrade (396 Moz AgE)<sup>1</sup>
- April 2023**  
State Government mine development approvals received

## Reserves and Resources<sup>(1 & 2)</sup>

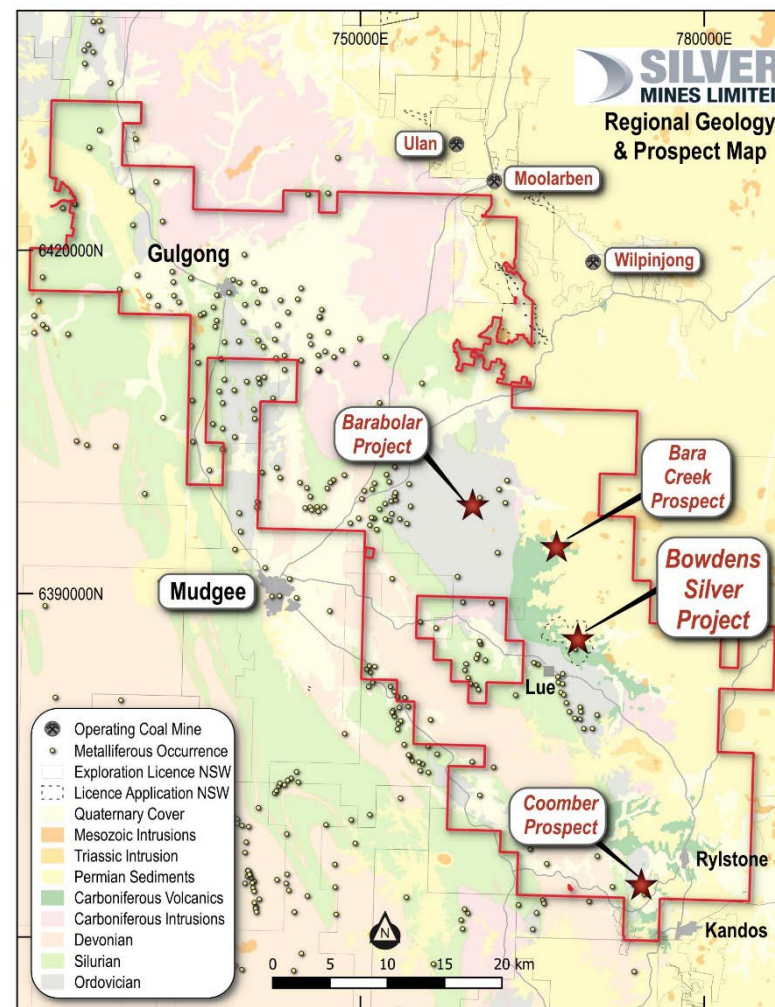
	Tonnes		Grade			Contained Metal				
	Mt	Ag g/t	Zn %	Pb %	AgE g/t	Ag Moz	Zn kt	Pb kt	Au koz	AgE Moz
<b>Ore Reserve</b>	30	69	0.44	0.32	101	66	131	95	-	97
<b>Mineral Resource</b>	200	29	0.37	0.26	62	189	486	333	190	396

1. Refer to Appendices 1 & 2.

2. Bowdens silver equivalent: Ag Eq (g/t) = Ag (g/t) + 33.48\*Pb (%) + 49.61\*Zn (%) + 80\*Au (g/t) calculated from prices of US\$20/oz silver, US\$1.50/lb zinc, US\$1.00/lb lead, US\$1600/oz gold and metallurgical recoveries of 85% silver, 82% zinc and 83% lead, 85% gold estimated from test work commissioned by Silver Mines Limited.

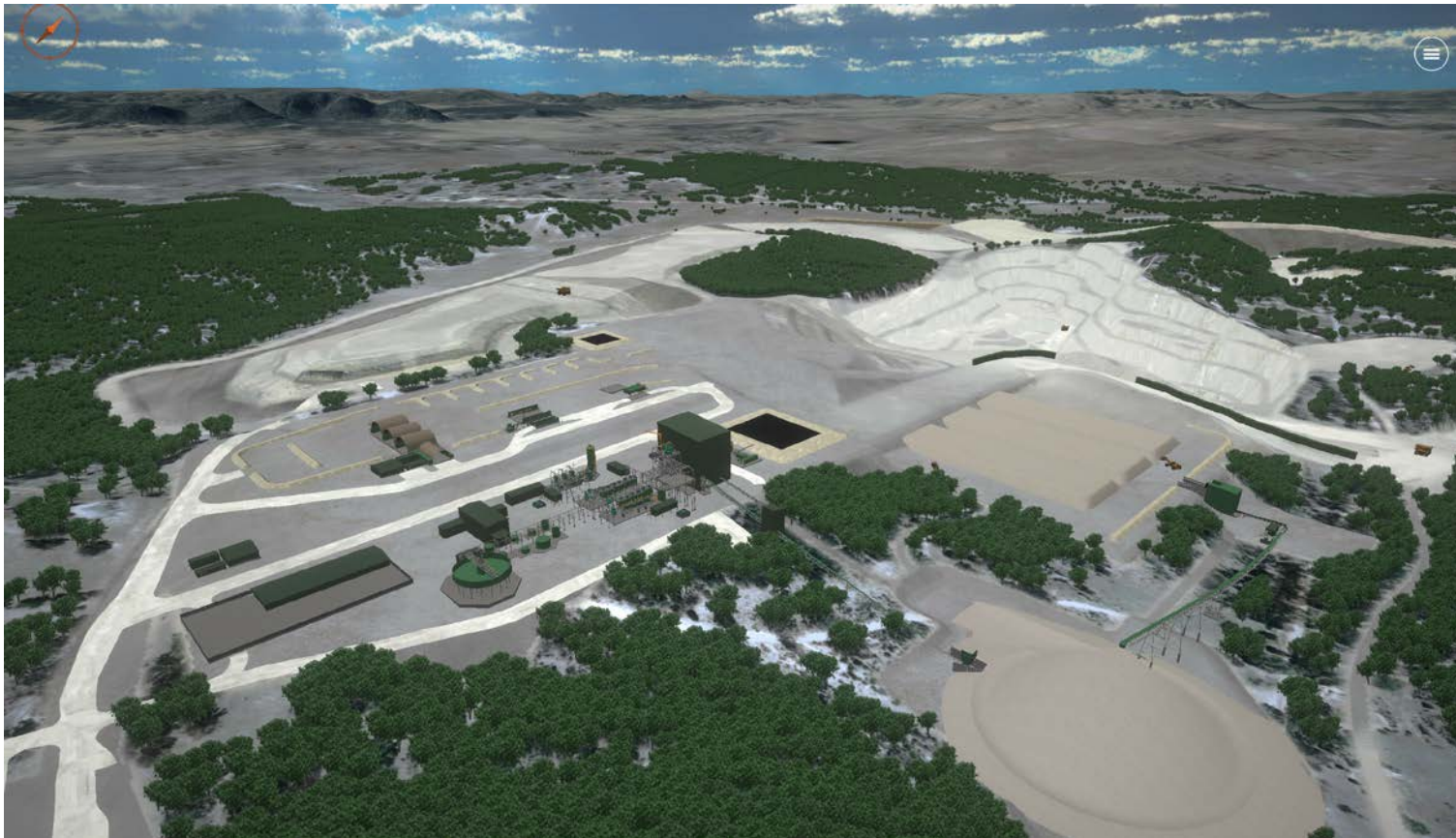
# Bowdens Silver Project: Regional Geology

- **Extensive tenement holding** (2,115 km<sup>2</sup> = 521,000 acres) 100% controlled by Silver Mines.
- **Wide range of prospective deposit types** over different time periods (Ordovician, Siluro-Devonian, Carboniferous and Permian).
- Eastern limb of the Macquarie Arc has the potential for discovery of significant mineralisation.
- Mid-Carboniferous **Rylstone Volcanics** (~325Ma) consisting of rhyolitic to dacitic pyroclastics, epiclastics and lavas with recently defined porphyritic intrusion within the deposit.
- Overlain by the Permo-Triassic Sydney Basin sediments ( < 270 Ma).
- The Bowdens deposit is a **low to intermediate sulphidation, carbonate silver-base metal-gold epithermal system**.
- Vein types include – **breccia, stringer, dissemination, banded and colloform** textured veins.
- Mineralisation age is ~321 Ma.
- March 2023 Mineral Resource increased by 56% in total tonnes and 44% total silver equivalent ounces (compared to 2017 Mineral Resource).



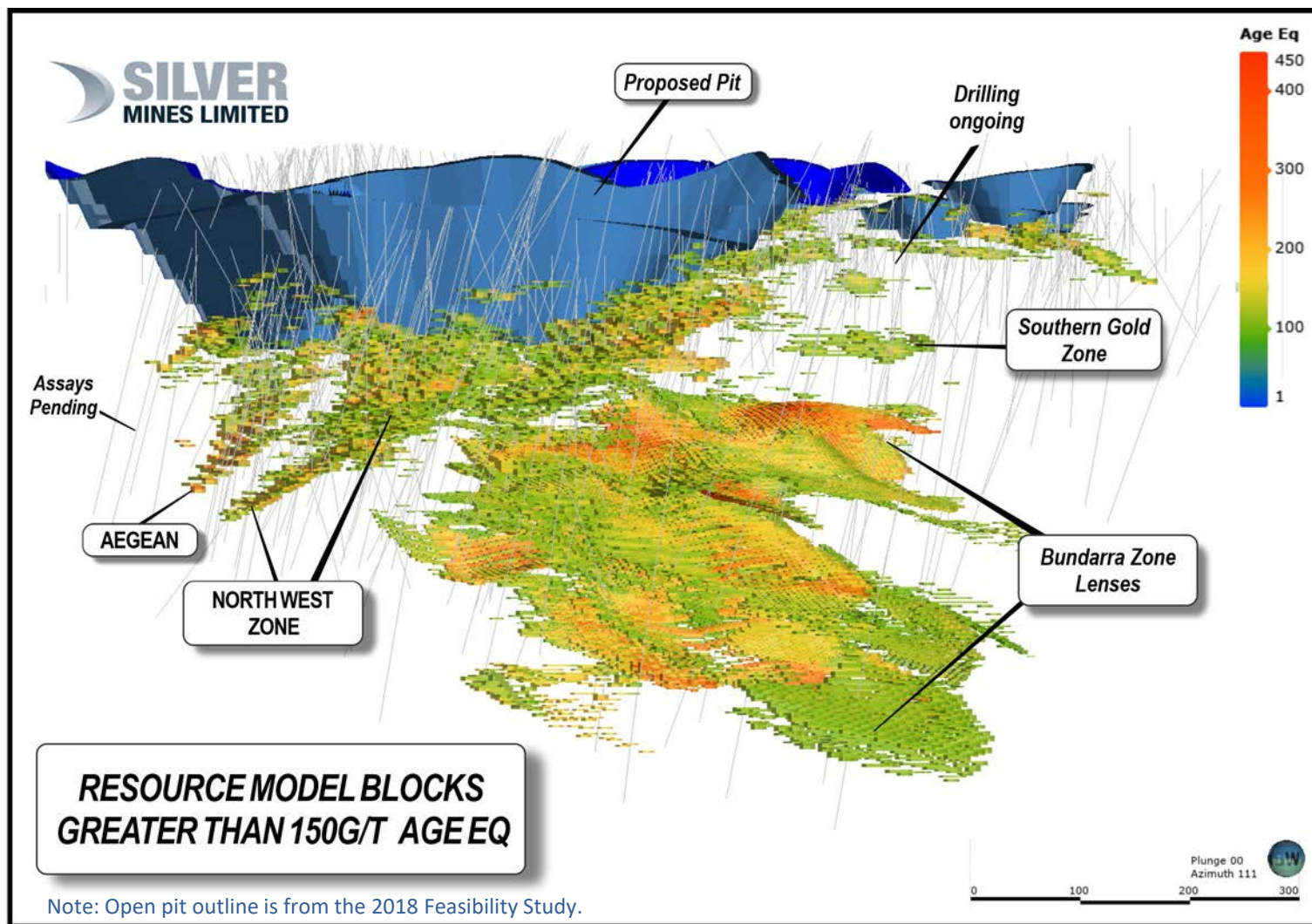
# Bowdens Silver

## *Mine Development*





# Bowdens Silver Project: Open Pit and Extensions



Note: Open pit outline is from the 2018 Feasibility Study.



# Bowdens Silver: Optimisation Program

## 2018 Feasibility Study

Production Life	<i>Years</i>	<b>16.5</b>
Ore Mined	<i>Mt</i>	29.9
Waste Mined	<i>Mt</i>	48.2
W:O Strip Ratio	<i>x</i>	1.60
Ag Recovered in Concentrate	<i>Moz</i>	52.91
Zn Recovered in Concentrate	<i>kt</i>	108.0
Pb Recovered in Concentrate	<i>kt</i>	79.3

## 2023 Optimisation Program

- ✓ An additional 50,000 metres of drilling in and around the pit completed since the Feasibility was completed.
- ✓ Mineral Resource upgrade completed in March 2023 added a further 120Moz AgE (total 396 Moz AgE).
- ✓ Updated mine optimisation and design expected to result in proportional increase Ore Reserve.
- ✓ LOM strip ratio is expected to decrease from already low 1.6 : 1.
- ✓ Metallurgical flotation optimisation program expected to result in increased payable Ag recovery.
- ✓ Feasibility Study optimisation program targeted for completion early-2024.
- ✓ FID expected mid-2024 with development commencement ~late-2024.

<sup>1</sup> For further information refer to ASX release of 14<sup>th</sup> June 2018.

# Bowdens Silver: Optimisation Program

## Optimisation Program

- ✓ Mine Optimisation and updated Ore Reserve advanced – expansion likely.
- ✓ Process design advanced – crushing, milling and flotation circuits with possible ore sorting.
- ✓ Power supply options study advanced.
- ✓ Tailings Storage Facility optimisation advanced.
- ✓ Water supply program advanced.
- ✓ Management Plans well advanced.
- ✓ Local baseline program planning in process.
- ✓ Optimisation program completion expected early 2024.
- ✓ EPBC (Federal) approvals in final stages.



# Environmental, Social and Governance

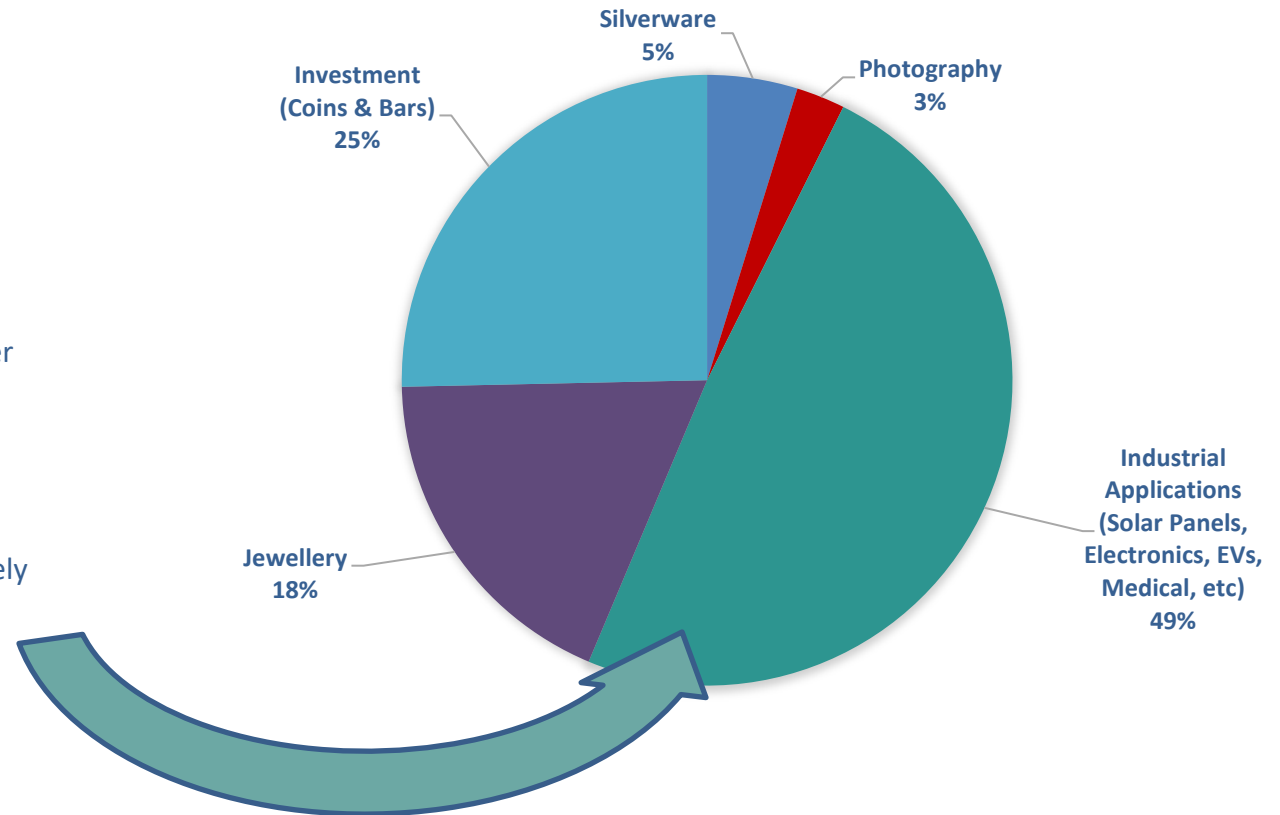
- ✓ Silver Mines Limited now Digbee ESG Certified.
- ✓ Digbee ESG is the industry standard disclosure framework for the mining industry.
- ✓ Inaugural highly credible score of BBB reflecting a robust process of technical design, environmental and social impact studies, assessment and consultation.
- ✓ Governance policies ensure compliance with ASX corporate standards and promote a safe, non-discriminatory, diverse and inclusive workplace.
- ✓ The Company has demonstrated strong commitments to ESG through the collection of detailed baseline environmental and social information.





# Silver Demand

- Substantial demand for silver in a growing market.
- Used in most electronics, for water purification, robotics, industrial automation, aerospace, pharmaceuticals, and biosciences.
- Solar power, 5G electronics and EVs investment agendas are a major driver going forward.
- Antibacterial, antiviral and antifungal properties.
- Physical silver demand is approximately 1,200 million ounces per year.
- **Recent study from School of Photovoltaic and Renewable Energy Engineering, UNSW, Australia...**
  - **Photovoltaic industry will consume 20% of silver supply by 2027;**
  - **By 2050, 85-98% of current global reserves will be consumed by photovoltaic technologies.**



# High Tech Metals

## Bowdens Silver falls under the New South Wales Government's *Critical Minerals and High-Tech Metals Strategy*

- *"Establishing NSW as a world leader for investment in sustainable mining is a key priority for the NSW Government."*
- *"...identify critical minerals as an emerging sector and represents a new future for the NSW mining sector"*
- State mining royalties from mining are significant (FY2023 = \$6.0 billion) and are budgeted to decrease to \$2.8 billion in FY2026. NSW mining royalties are mostly coal.



# Bowdens Silver Exploration

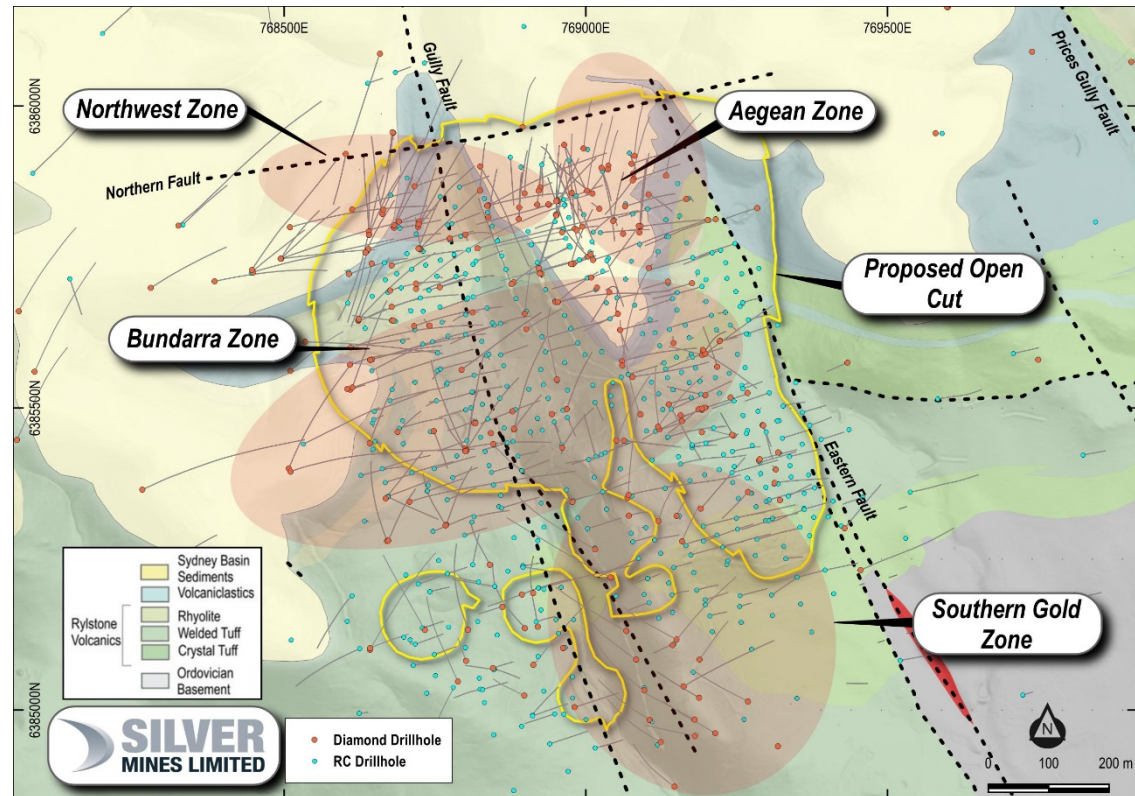
## *A Major Silver System*





# Bowdens Silver Project: Extensions

- ✓ Northwest Zone, Aegean and Bundarra Zones contains high-grade silver directly under the planned open-cut pit.
- ✓ Drilling demonstrates that the Northwest and Aegean Zones are likely to be connected.
- ✓ Bundarra Zone with greater base metal (zinc & lead) plus gold.
- ✓ Each of the three discoveries open in several directions.
- ✓ Greater gold tenor as drilling moves south and east of open-cut area.
- ✓ Potential open-pit expansion and potential underground development.
- ✓ Total Mineral Resource now 396 Moz AgE.
- ✓ Mineral Resource in Southern Gold Zone contains 190,000 ounces gold.



# Bowdens Silver Project: Exploration

## Barabolar

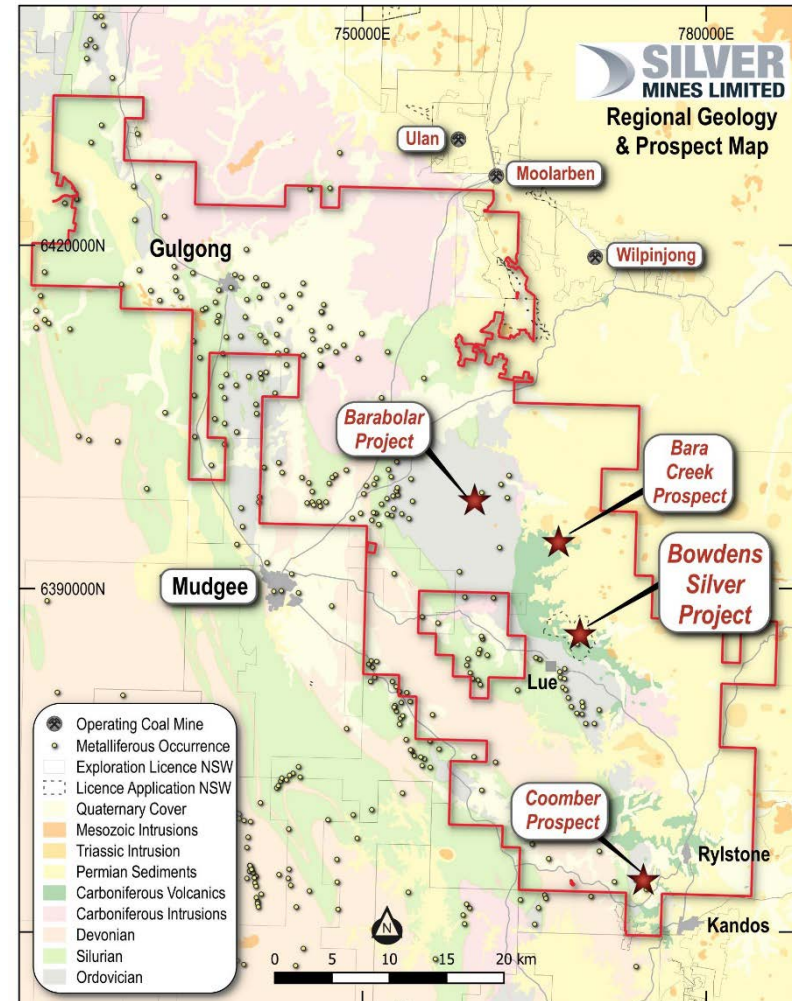
- ✓ Extensive copper-gold anomalism including mineralised skarn over 5000 X 800 metres.
- ✓ Porphyry system type alteration assemblages.
- ✓ Pyrophyllite demonstrates surface is above the porphyry system.
- ✓ Seismic program complete, interpretation in process.

## Coomber

- ✓ From surface mineralisation - Bowdens Silver analogue.
- ✓ Historical drilling by CRA in 1997
  - ✓ 58m @ 89 g/t AgE
  - ✓ 50m @ 53 g/t AgE
- ✓ Seeking land access.

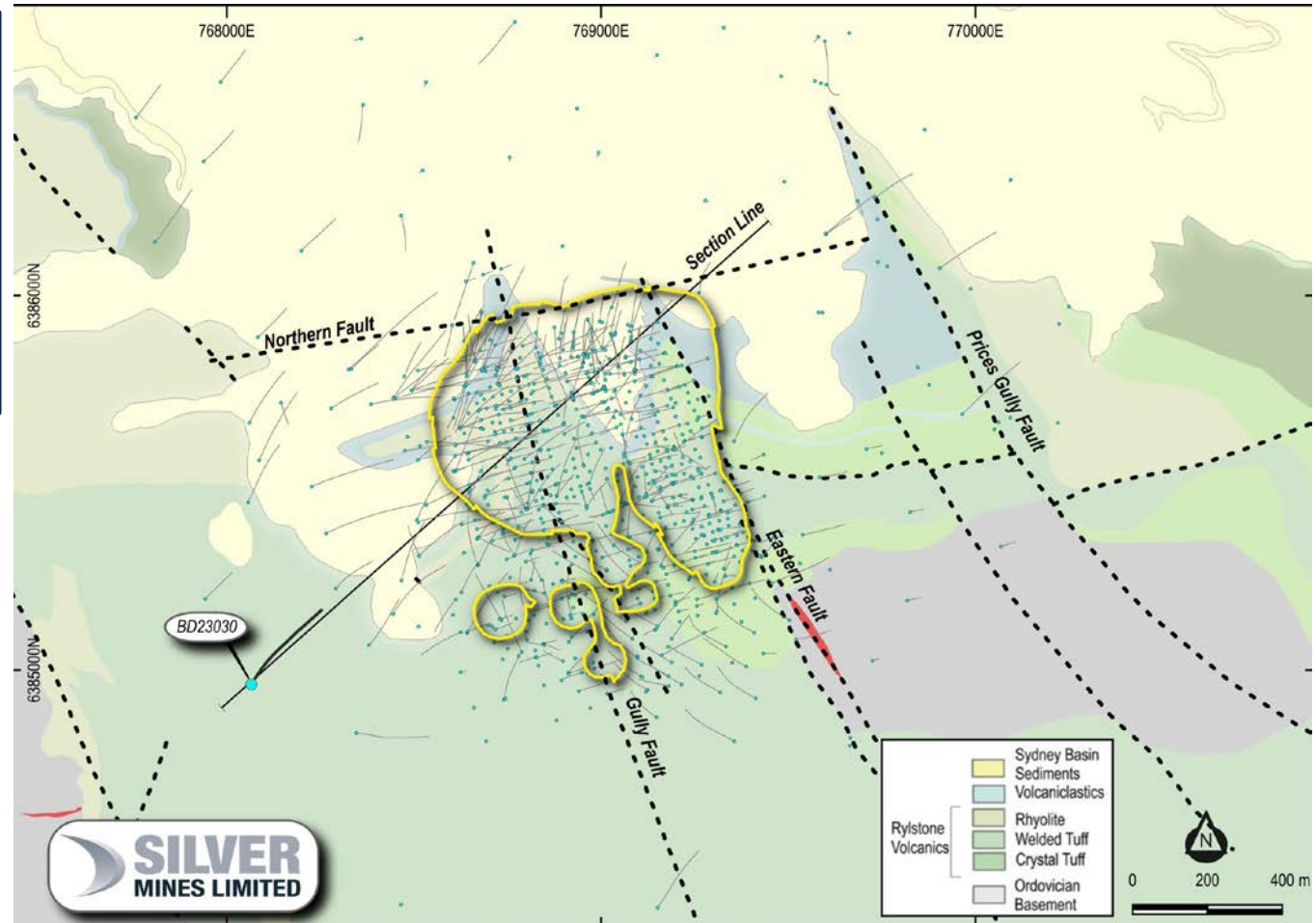
## Bara Creek

- ✓ Situated on the caldera northern rim.
- ✓ Original stream sediment discovery in 1989 by CRA.
- ✓ Gold, copper, silver anomalism source unknown.



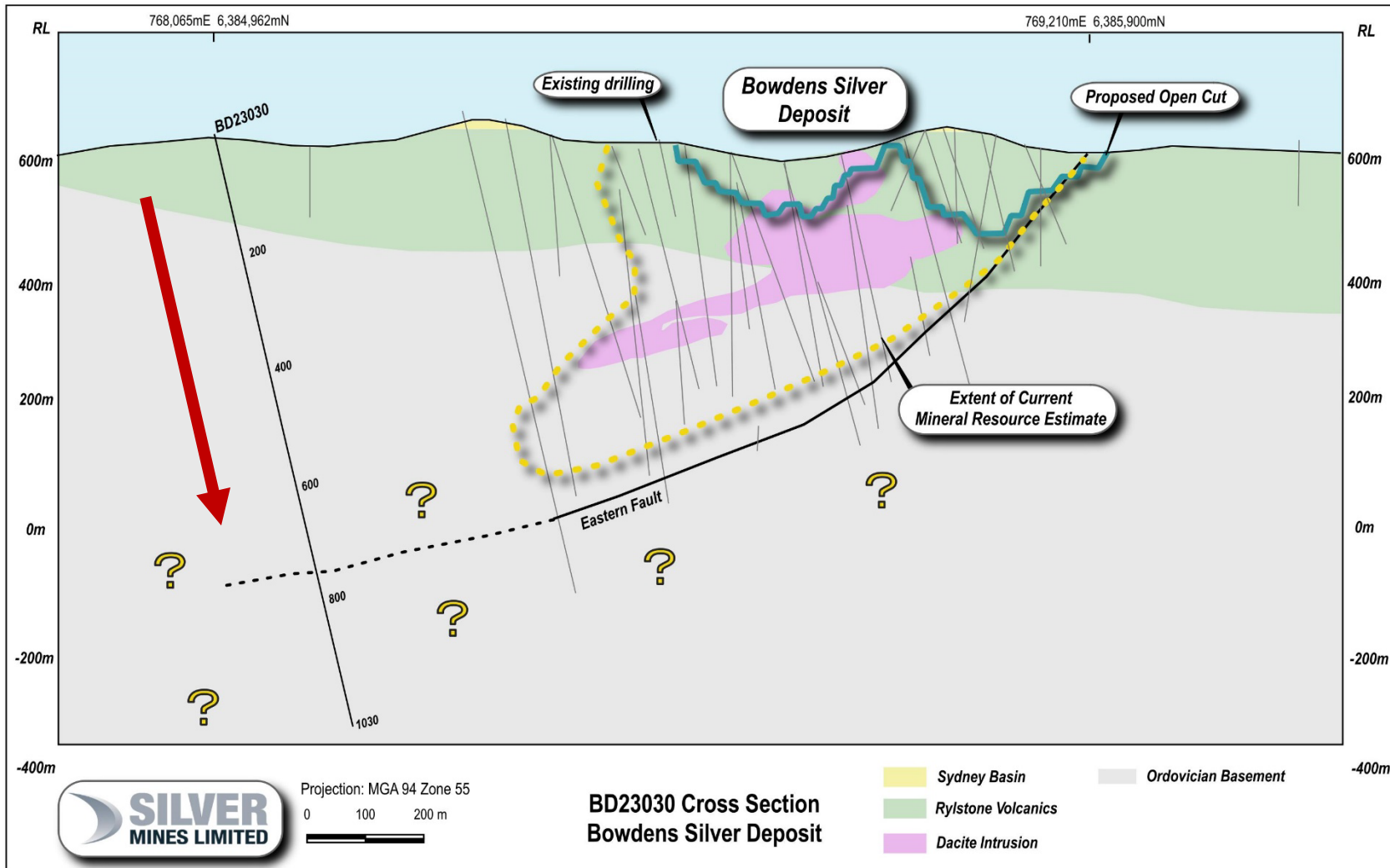
# Bowdens Silver Project: Deep Drilling Program

- ✓ Deep (> 450 metres) southwest exploration of the Bowdens Silver Resource.
- ✓ Bowdens Silver Mineral Resource remains open at a depth of 850 metres below surface.
- ✓ Results pending.





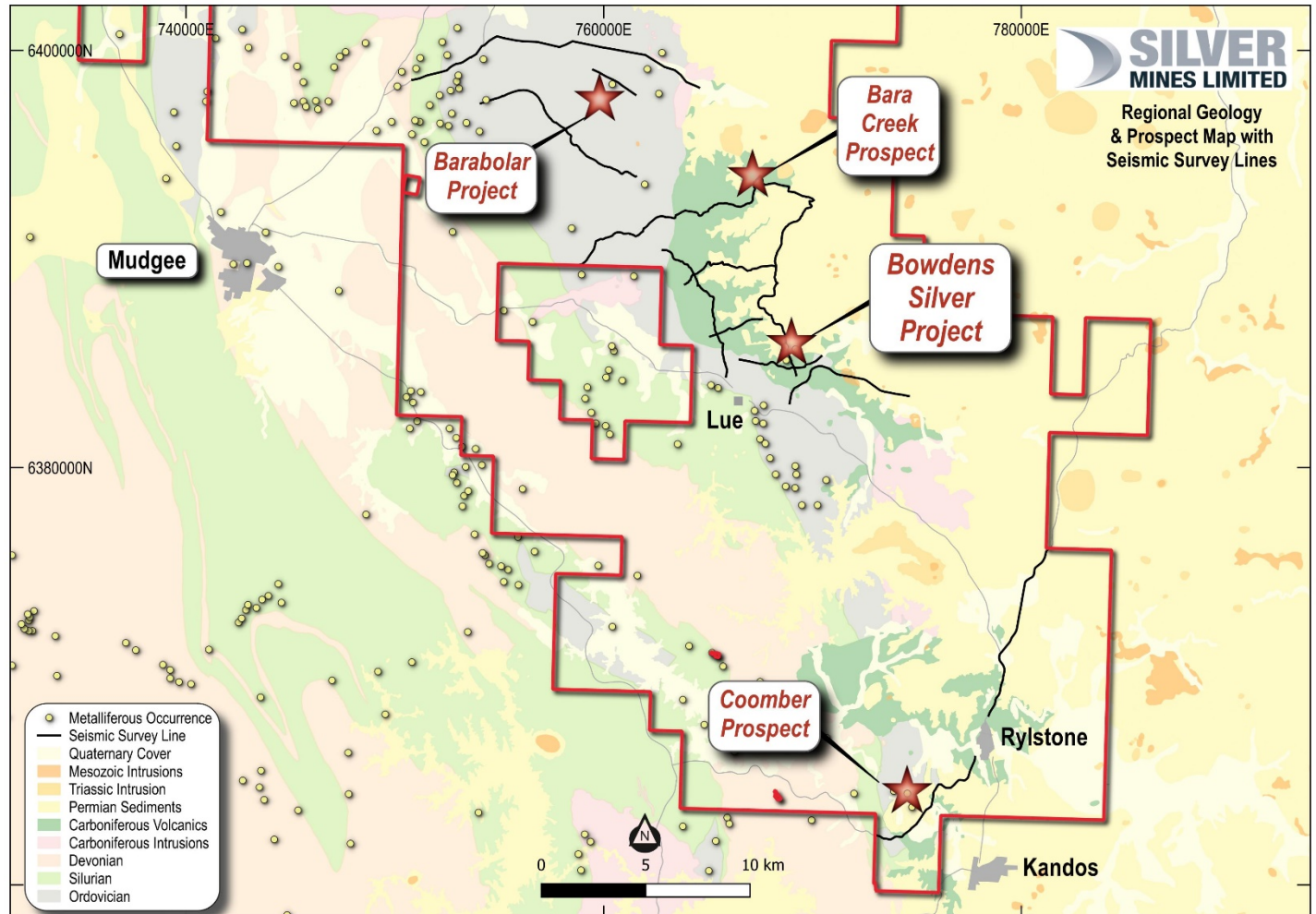
# Bowdens Silver Project: Deep Drilling Program



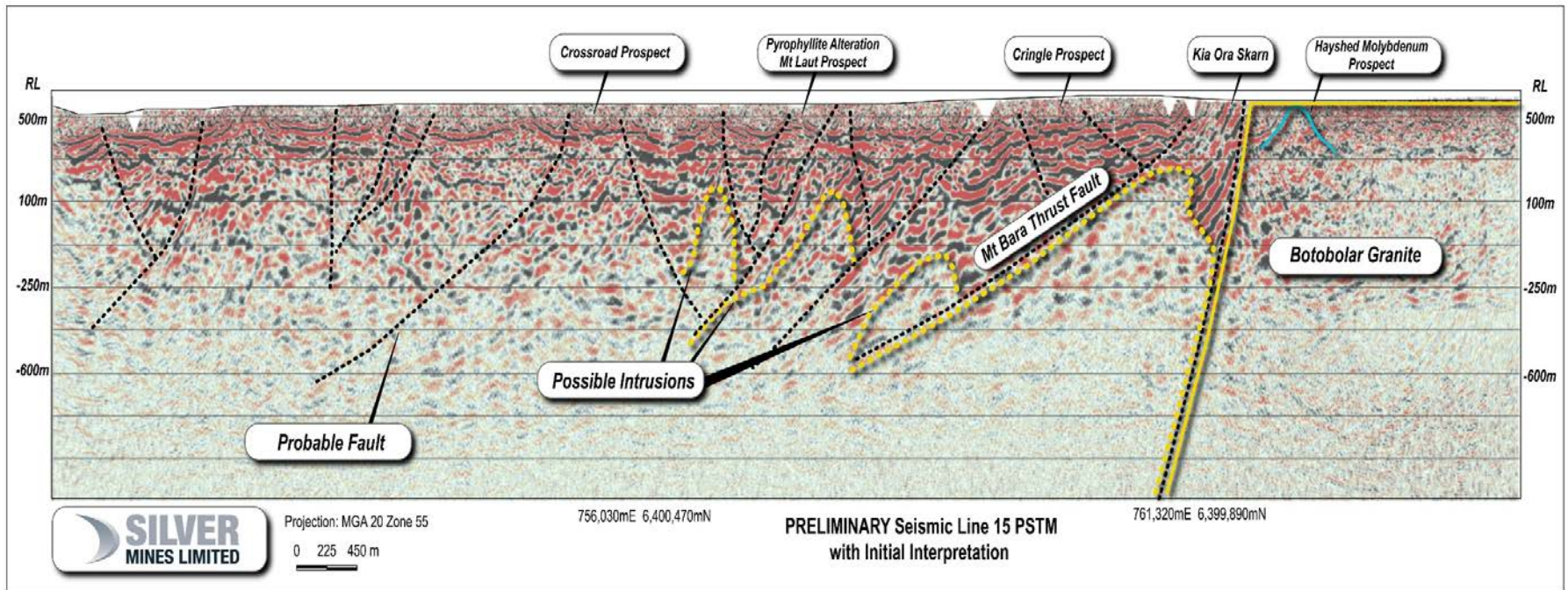
# Bowdens Silver Project: Expanded Seismic Survey

## Expanded Seismic Program

- ✓ 97 kilometres of data across high priority exploration prospects.
- ✓ Survey to provide targets within highly prospective Rylstone Volcanics at Bowdens, Bara Creek and Coomber, and basement units at Barabolar.
- ✓ Seismic program complete, interpretation in process.

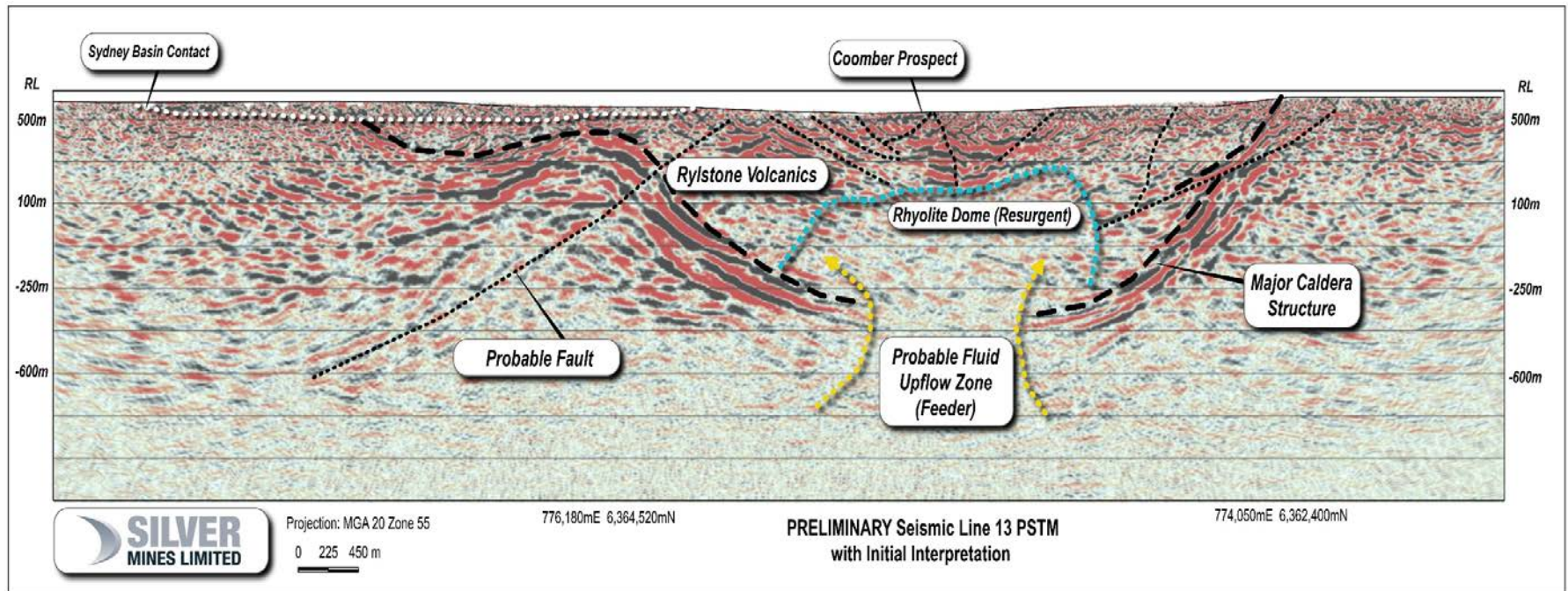


# Bowdens Silver Project: Preliminary Data Barabolar (Line 15)



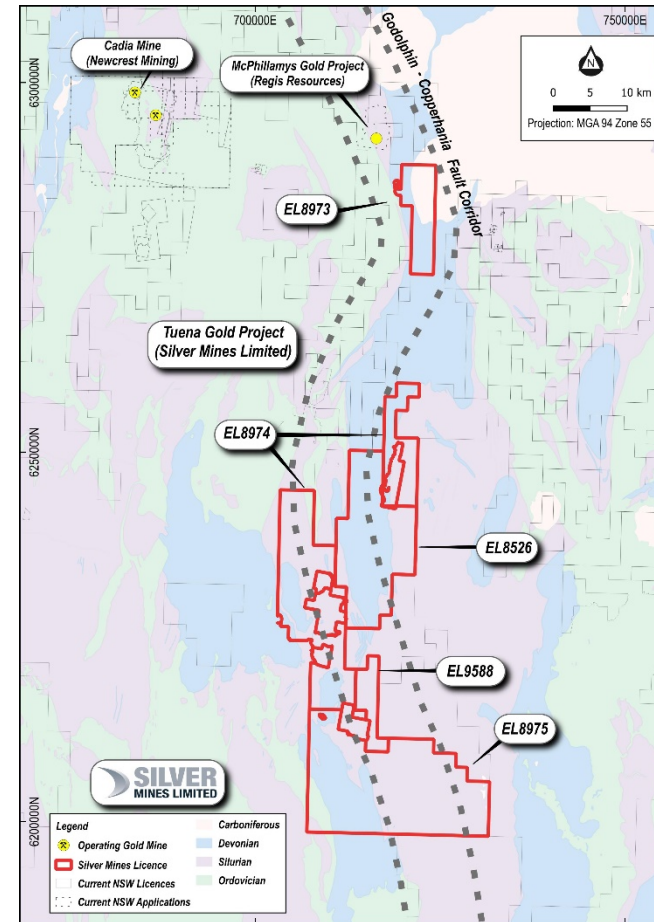


# Bowdens Silver Project: Preliminary Data Coomber (Line 13)



# Tuena Gold Project

- Located south of Blayney in New South Wales.
- Historic goldfield with minimal exploration work in the modern era.
- Clear geological analogies to the McPhillamys Gold Project (2.0 Moz gold).
- Mineral system and old gold workings extend over at least 6 kilometres of strike.
- Reconnaissance mapping is identifying previously unrecorded historic workings and shear zones with substantial width.
- Airborne magnetics and radiometrics survey completed.
- Tenement position expanded with 747 km<sup>2</sup> of exploration licenses, all granted, all 100%.



# Bowdens Silver Project: Key Conclusions



The **largest silver development project in Australia** with a current JORC-compliant Resource base of 396 Moz AgE.

**State Government (Independent Planning Commission) mine development approvals received in April 2023**



**Bowdens well-advanced, with development expected ~late 2024** – Feasibility Study completed with optimisation program to be complete early 2024.



2Mtpa project, producing an average of 6Moz Ag per annum over the first 3 years of production at an average cash cost of <10.00/oz, underpinning **strong EBITDA and cash flow**.



**Considerable exploration potential** with extensive drilling continuing. Confirmed significant high-grade extensions to mineralisation close to mine.



Assets located in a **low sovereign risk jurisdiction** for mining development with **ready access to existing infrastructure**.



**Single open-cut mine** with uncomplicated mining, a low strip ratio and metallurgy with an initial mine life of 17 years.

**Potential expansion** with open pit and underground operations.





*Silver Mines Limited*  
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# Appendix 1 – Bowdens Silver Mineral Resource

(as at March 2023)

30 g/t Ag Eq Cut	Tonnes (Mt)	Silver Eq. (g/t)	Silver (g/t)	Zinc (%)	Lead (%)	Gold (g/t)	Million Ounces Silver	Million Ounces Silver Eq.
Measured	107	68	40	0.36	0.25	0.03	137	235
Indicated	50	55	20	0.38	0.26	0.09	33	88
<b>Measured &amp; Indicated</b>	<b>157</b>	<b>64</b>	<b>33</b>	<b>0.36</b>	<b>0.25</b>	<b>0.05</b>	<b>169</b>	<b>323</b>
Inferred	43	54	14	0.39	0.29	0.13	19	73
<b>Total</b>	<b>200</b>	<b>62</b>	<b>40</b>	<b>0.37</b>	<b>0.26</b>	<b>0.07</b>	<b>189</b>	<b>396</b>

The Bowdens Mineral Resource Estimate has been compiled by H&S Consultants Pty Ltd using Multiple Indicator Kriging and the reporting is compliant with the 2012 JORC Code and Guidelines. For full disclosures refer to the Silver Mines Limited announcement of 31<sup>st</sup> March 2023.

1. Bowdens silver equivalent:  $\text{Ag Eq (g/t)} = \text{Ag (g/t)} + 33.48 * \text{Pb (\%)} + 49.61 * \text{Zn (\%)} + 80 * \text{Au (g/t)}$  calculated from prices of US\$20/oz silver, US\$1.50/lb zinc, US\$1.00/lb lead, US\$1600/oz gold and metallurgical recoveries of 85% silver, 82% zinc and 83% lead, 85% gold estimated from test work commissioned by Silver Mines Limited.
2. Bowdens Silver Mineral Resource Estimate reported to a 30g/t Ag Eq cut off extends from surface and is trimmed to above 300 metres RL, approximately 320 metres below surface, representing a potential target volume for future open-pit mining and expansion.
3. In the Company's opinion, the silver, zinc, gold and lead included in the metal equivalent calculations have a reasonable potential to be recovered and sold.
4. Stated Mineral Resources are partially inclusive of areas of the total Underground Mineral Resource Estimate at 150 g/t Silver Equivalent (Ag Eq) Cut-off Grade above 300mRL. See ASX announcement dated 5<sup>th</sup> September 2022.
5. Variability of summation may occur due to rounding.

# Appendix 2 – Bowdens Silver Ore Reserve

(as at May 2018)

	Tonnes (Mt)	Silver Eq. (g/t)	Silver (g/t)	Zinc (%)	Lead (%)	Silver Eq. Million Ounces	Silver Million Ounces	Zinc Kilo- tonnes	Lead Kilo- tonnes
Proved	28.6	102.2	69.75	0.44	0.32	93.85	64.05	125.11	91.43
Probable	1.3	84.4	53.15	0.43	0.29	3.60	2.27	5.74	3.91
<b>Total</b>	<b>29.9</b>	<b>101.4</b>	<b>69.01</b>	<b>0.44</b>	<b>0.32</b>	<b>97.45</b>	<b>66.32</b>	<b>130.84</b>	<b>95.33</b>

The Bowdens Reserve has been compiled by AMC Consultants Pty Ltd and is based on the September 2017 Mineral Resource Estimate generated for Silver Mines by H & S Consultants Pty Ltd (see ASX announcement 19 September 2017). For full disclosures refer to the Silver Mines Limited announcement of 30 May 2018.

- Calculations have been rounded to the nearest 100,000 t, 0.1 g/t silver and 0.01% zinc and lead grades respectively. The Ore Reserve is reported by economic cut-off grade with appropriate consideration of modifying factors including costs, geotechnical considerations, mining and process recoveries and metal pricing.
- Bowdens' silver equivalent:  $\text{Ag Eq (g/t)} = \text{Ag (g/t)} + 33.48 \cdot \text{Pb (\%)} + 49.61 \cdot \text{Zn (\%)}$  calculated from prices of US\$20/oz silver, US\$1.50/lb zinc, US\$1.00/lb lead and metallurgical recoveries of 85% silver, 82% zinc and 83% lead estimated from test work commissioned by Silver Mines Limited.



# Competent Persons Statements

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## Mineral Resources

The information in this report that relates to Mineral Resources is based on work compiled by Mr Arnold van der Heyden who is a Director of H & S Consultants Pty Ltd. Mr van der Heyden is a Member and Chartered Professional (Geology) of the Australian Institute of Mining and Metallurgy and has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration, and to the activity being undertaken, 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' (JORC code). Mr van der Heyden consents to the inclusion in this report of the matters based on the information in the form and context in which it appears.

## Ore Reserve

The information in this report that relates to Ore Reserves within the Bowdens Silver Project is based on information compiled or reviewed by Mr Adrian Jones of AMC Consultants Pty Ltd who is a consultant to the Company. Mr Jones is a member of the Member of the Australasian Institute of Mining and Metallurgy and has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration, and to the activity being undertaken, 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' (JORC code). Mr Jones consents to the inclusion in this report of the matters based on the information in the form and context in which it appears.

Mr Jones visited the Bowdens mine site during April 2017 to review the operations, consider the conditions of the site, and assess the data collection methods and techniques used by site personnel.

The Ore Reserve has been prepared by Mr Adrian Jones, AMC Consultants Pty Ltd, after peer review of the mining section of the Feasibility Study. Other experts relied upon include H & S Consultants Pty Ltd, GR Engineering Services Limited, ATC Williams Pty Limited. and Jacobs Australia Pty Limited, for Mineral Resources, Metallurgy & Process Design and Tailing Storage Facility design. Work on environmental, marketing and logistics and the financial modelling were undertaken by other consultants on behalf of the Company and certified by representatives of Silver Mines.

## Exploration and Drill Results

The information in this report that relates to mineral exploration drill results from the Bowdens Silver Project and Tuena Gold Project is based on information compiled or reviewed by Dr Darren Holden who is an advisor to the company. Dr Holden is a Fellow of the Australasian Institute of Mining and Metallurgy and has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration, and to the activity being undertaken, 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' (JORC code). Dr Holden consents to the inclusion in this report of the matters based on the information in the form and context in which it appears.