ASX: **ARD** argentminerals.com.au

Gold and copper exploration upside



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# **ARD**

Silver Kempfield (NSW)

Gold Trunkey, Pine Ridge, Mt Dudley & West Wyalong (NSW)

Copper Copperhead (WA)

# **Established Resources:**

## Silver:

Kempfield Main Resource, second largest undeveloped Australian deposit sitting at:

**142.8Moz AgEq** inc 125,200 oz Au

## Gold:

Pine Ridge & Mt Dudley: 51,360 kOz Au

# **Exploration Upside:**

### Silver:

Kempfield remains open at depth with untested areas of surface geochemical anomalism

### Gold:

4.7 km of untested strike at Trunkey

## Copper:

Large scale, high-grade surface sampling at Copperhead

# Development Upside:

### Silver:

Kempfield scoping study and metallurgical work to de-risk potential development

Investigating viability of early cash flow via of a heap leach starter (oxide) to fund a carbon-in-leach (CIL)/flotation hub.

**SNAPSHOT** 

# Argent Minerals is advancing Australia's second largest undeveloped silver deposit.

## Kempfield Project

100% ownership Orange, New South Wales

JORC Resource\* July 2024

63.7Mt

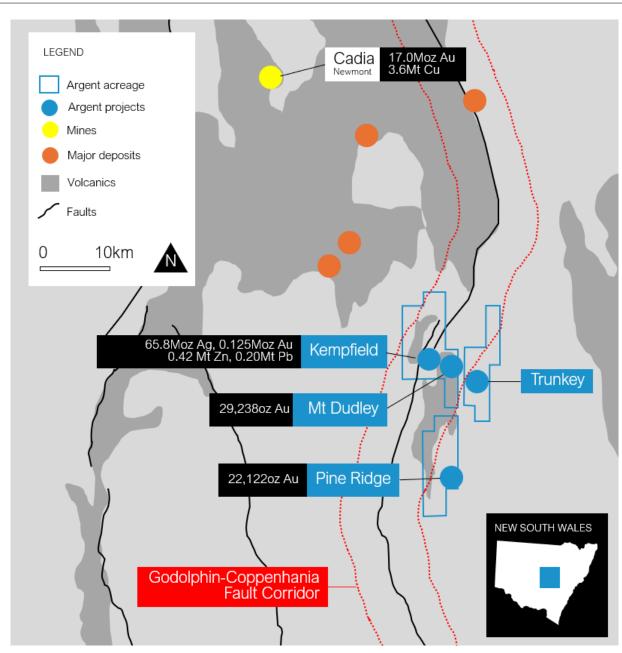
63.7Mt @ 32.15 g/t Ag, 0.66% Zn, 0.33% Pb and 0.06 g/t Au (at a >15g/t Ag cut-off & >0.9% Zn)

\*Refer ASX Announcement 25 July 2024: Significant Silver Resource Upgrade over Kempfield Deposit and Appendix 1.

Contains

142.8Moz

AgEq of silver, gold, lead and zinc



## Nearby gold projects

Trunkey Project 100% ownership 9km from Kempfield Project

Mt Dudley Project 100% ownership 4km from Kempfield Project

Pine Ridge Project 100% ownership 20km from Kempfield project

### FLAGSHIP PROJECT

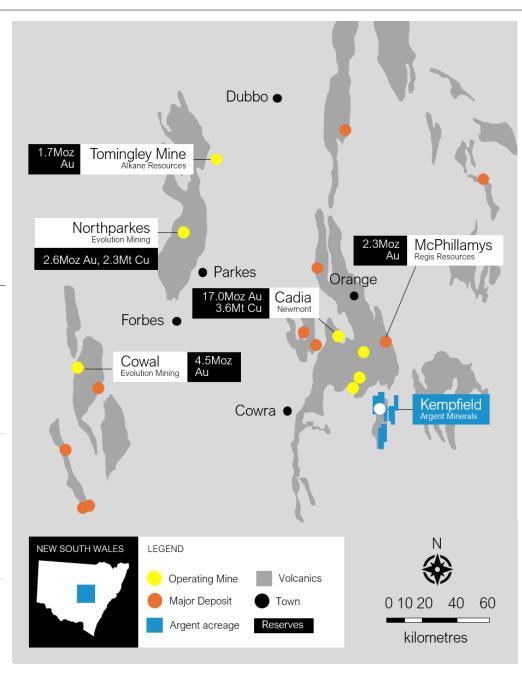
# The Kempfield Project lies within one of Australia's premier mining districts.

# IN THE RIGHT PLACE FOR MINING

Kempfield is located within the prolific Lachlan Fold Belt, host to some of Australia's largest gold and copper mines including Northparkes (2.6Moz Au & 2.3Mt Cu) and Cadia (17Moz Au & 3.6Mt Cu).

Kempfield shares characteristics with the Eastern Australian Palaeozoic volcanic-hosted massive sulphide deposits which have, produced substantial base metals over the past century.

Reserves figures: alkane.com.au/projects/tomingley-gold-project/ evolutionmining.com.au/reservesresources operations.Newmont.com/australia/cadia



\*Refer ASX Announcement 25 July 2024: Significant Silver Resource Upgrade over Kempfield Deposit) and Appendix 1.

KEMPFIELD JORC RESOURCE\*

Silver

65.8Moz

Gold

125.2Koz

Lead

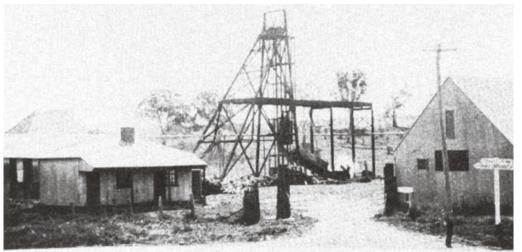
207.4Kt

7inc

420.3Kt

# KEMPFIELD PROJECT

# Easy access to a skilled workforce, established mining services and infrastructure.



The Wentworth Mine in Orange was established in 1851 and yielded around 14,000kg of gold until its closure in the 1950s.

## PREMIER LOCATION

Kempfield is 35km south-west from the town of Orange whose mining history stretches back to 1851.

Central West New South Wales boasts robust transport corridors and direct airport links plus a varied workforce of professionals and tradespeople.

New South Wales Government is pushing a Critical Minerals and High-Tech Metals Strategy, providing royalty deferrals and coinvestment funding.



Newmont's Cadia Mine is 25km from Orange. It is one of Australia's largest gold mining operations producing 597Koz of gold in FY2023\*.

\*Refer operations.Newmont.com/australia/cadia

KEMPFIELD PROJECT

# Scale and quality of Kempfield deposit supports clear path to early production.



02

# Commercialise resource.

Planned Scoping Study to consider early cash flow via of a heap leach starter (oxide) to fund a carbon-inleach (CIL)/flotation hub (sulphide).

Exposure to a polymetallic system that could offer lower operating costs and increased revenues.

Current drilling and test work to serve Study.

03

# Establish scalable, multi-deposit mine.

Progress exploration drilling and surveys to realise district potential beyond the current Resource.

Kempfield diamond drilling testing depth extensions.

Kempfield NW, NE and Sugarloaf Hill extensions, and nearby Trunkey Creek gold corridor offer major gold and copper upside.

# KEMPFIELD PROJECT

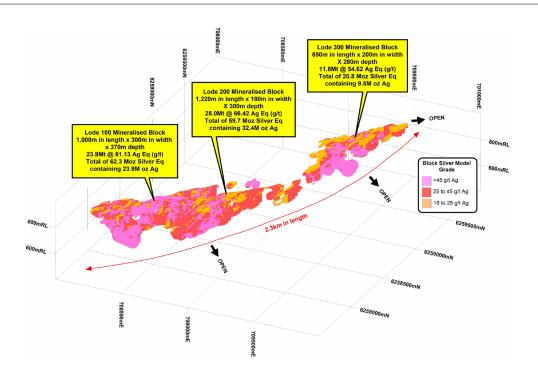
# The Kempfield deposit has strong potential to be deeper, longer and broader.

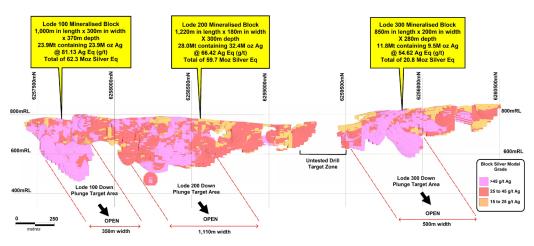
### AUGUST 2025 DRILLING

Current Kempfield resource dimensions are 2.3km in strike by 400m in width with mineralisation extending from surface to 370 vertical metres.

Two deep diamond drill holes totalling 650m are being drilled over Lode 100 and Lode 200 to determine true depth of deposit.

Drilling results will serve planned metallurgical study.





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KEMPFIELD DISTRICT PLAY

# Previous drilling and surveys show Kempfield's district potential beyond the current Resource

Polymetallic extensional exploration upside includes highgrade Kempfield NW & NE zones, as well as the Henry's, Golden Wattle and Sugarloaf Hill zones.

Kempfield NW Zone: 1.7km length x 100m width

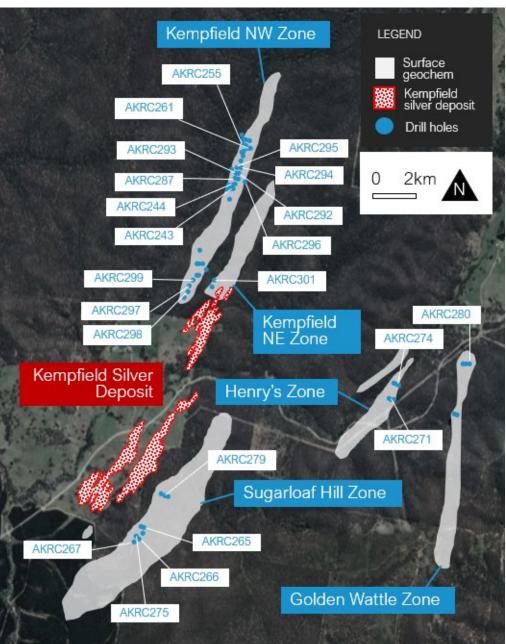
Kempfield NE Zone: 1km length x 170m width

Sugarloaf Hill Zone: 2.1km length x 300m width

Golden Wattle Zone: 1.5km length x 400m width

Refer ASX Announcements:

6 March 2025 Expansion of Mineralisation at Kempfield NW Zone. 5 Feb 2025 VMS Mineralisation extended at Kempfield NW Zone 20 Jan 2025 VMS discovered ay Henry's & Sugarloaf Prospects 27 Nov 2024 New Mineralisation discovered at Kempfield Project



### **BEST DRILL INTERCEPTS**

17m @ 20g/t Ag, 0.83% Cu+Pb+Zn fr 8m

14m @ 27g/t Ag, 0.32% Cu+Pb+Zn fr 21m inc 4m @ 57g/t Au, 0.41% Cu+Pb+Zn fr 22m

23m 12.6g/t Ag, 0.42% Cu+Pb+Zn fr 3m inc 7m @ 18.7g/t Ag, 0.51% Cu+Pb+Zn fr 3m

31m @ 0.29% Cu+Pb+Zn fr 1m

### AKRC266

44m @ 0.31% Cu+Pb+Zn fr 1m

56m @ 0.22% Cu+Pb+Zn fr 24m

24m @ 11.8g/t Ag, 1.44% Cu+Pb+Zn fr 1m inc 7m @ 37.8g/t Ag, 4.13% Cu+Pb+Zn fr 13m

21m @ 7.3g/t Ag, 0.85% Cu+Pb+Zn fr 31m inc 12m @ 10.2g/t Ag, 1.26% Cu+Pb+Zn fr 13m

10m@ 11.7g/t AG, 0.07% Cu+Pb+Zn fr 45m inc 4m@ 18.1g/t Ag, 0.08% Cu+Pb+Zn fr 50m

46m @ 0.31% Cu+Pb+Zn fr 0m inc 23m @ 0.48% Cu+Pb+Zn

19m @ 0.84% Cu+Pb+Zn fr 34m inc 7m @ 1.45% Cu+Pb+Zn fr 34m

34m@ 13.6g/t Ag, 0.91% Cu+Pb+Zn fr 22m inc 13m@ 27g/t Ag, 1.37% Cu+Pb+Zn fr 43m 18m@ 22.3g/t Ag, 0.6% Cu+Pb+Zn fr 62m inc 14m@ 27.2g/t Ag, 0.69% Cu+Pb+Zn fr 62m

57m @ 0.47% Cu+Pb+Zn fr 7m

17m @ 0.29% Cu+Pb+Zn fr 7m

30m @ 0.88% Cu+Pb+Zn fr 13m

### 3m @ 30.5g/t Ag, 0.55% Cu+Pb+Zn fr 31m

5m @ 40.5g/t Ag, 0.58% Cu+Pb+Zn fr 48m inc 1m @ 146g/t Ag, 0.62% Cu+Pb+Zn fr 52m

83m @ 10/1g/t Ag, 0.20% Cu+Pb+Zn fr 16m inc 4m @ 20.2g/t Ag, 0.83% Cu+Pb+Zn fr 37m 6m @ 33.6g/t Ag fr 60m inc 1m @ 91.6g/t Ag fr 63m

4m @ 22.7g/t Ag fr 71m 5m @ 20.1g/t Ag fr 82m

24m @ 16g/t Ag, 0.40% Cu+Pb+Zn fr 8m inc 13m @ 24.9g/t Ag, 0.43% Cu+Pb+Zn fr 55m

6m @ 25.2g/t Ag fr 13m inc 1m @ 79.7g/t Ag, 0.29% Cu+Pb+Zn fr 14m 1m @ 4.44g/t Ag fr 24m

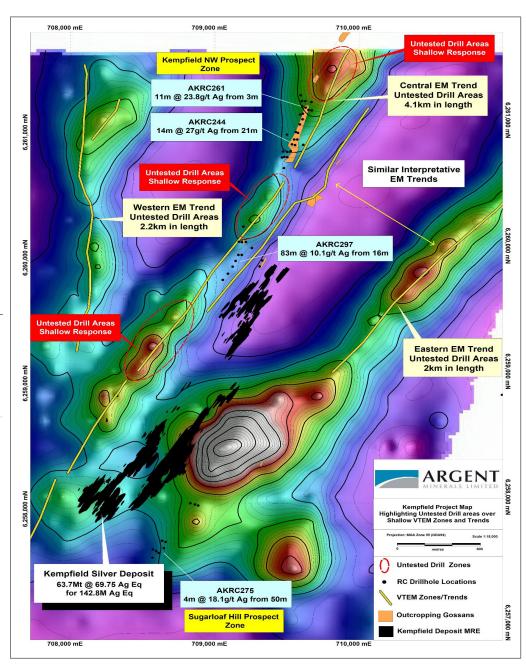
# KEMPFIELD PROJECT

# VTEM data review highlights potential for new untested mineralised zones along strike from Kempfield deposit\*.

JUNE 2025 RELEASE

A high-level interpretation of the Versatile Time Domain Electromagnetic Survey (VTEM) data review has identified multiple new drill targets.

Three extensive and distinct VTEM anomalies have been delineated and interpreted as potential controlling structures and/or favourable locations for Au-Ag-Cu-Pb-Zn mineralisation along the eastern and western flanks of the Kempfield Deposit.



\*Refer ASX Announcement 10 June 2025: Extensive Untested EM trends located at Kempfield

VTEM interpreted map highlighting potential shallow mineralised zones.

The 2025 geophysical review focused on the historical airborne electromagnetic (AEM) survey flown by Argent in 2008.

SUPPORTIVE MARKET

# The Kempfield Project has high leverage to silver's price appreciation.

### KEY HIGHLIGHTS

Global silver demand exceeded silver supply for the fourth consecutive year, resulting in a structural market deficit of 148.9 Moz in 2024.

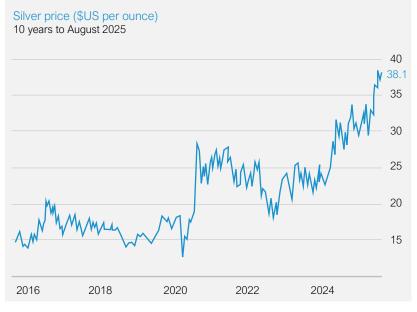
Demand may be traced to the green economy, including investment in grid infrastructure, vehicle electrification, and photovoltaic uses.

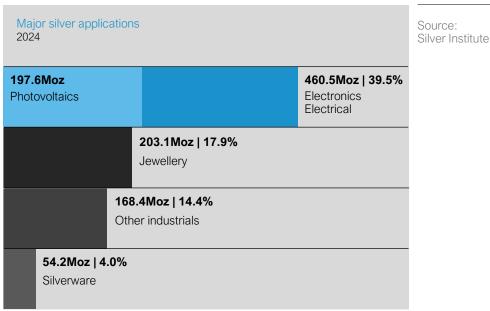
010

Silver industrial demand rose 4 percent in 2024 to 680.5 Moz, reaching a new record high for the fourth consecutive year.

Demand was further boosted by end-uses related to artificial intelligence (AI), which drove growth in consumer electronics shipments.

Source: Trading Economics





NEW SOUTH WALES POLYMETALLIC PROJECTS

# The Trunkey Creek Project offers major gold upside with 4.7 km of untested gold mineralisation.

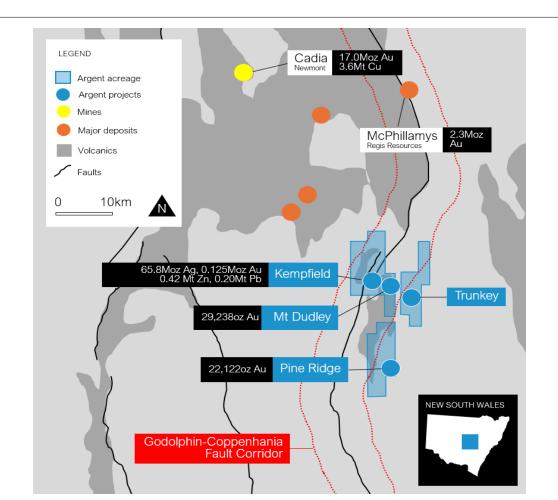
### KEY HIGHLIGHTS

Project lies within the Trunkey Creek Mineral Field approx. 9km west of Kempfield

Consists of hundreds of historical gold workings across several NNE trending quartz veins over a zone <u>4.7 km in length by 500 m wide</u>, which produced over 2,900oz of gold.

Six high-priority untested Induced Polarisation (IP) targets **identified for immediate drilling**.

Re-interpretation of historical IP traverse has identified significant chargeable (indicative of sulphides) and resistive (associated with quartz/silica zones) anomalies.



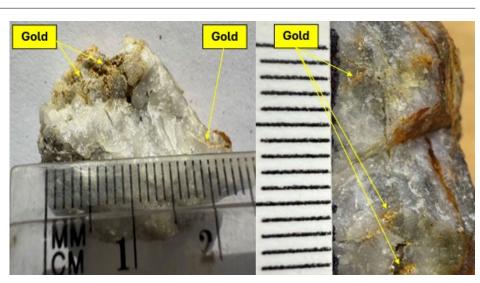
## TRUNKEY CREEK PROJECT

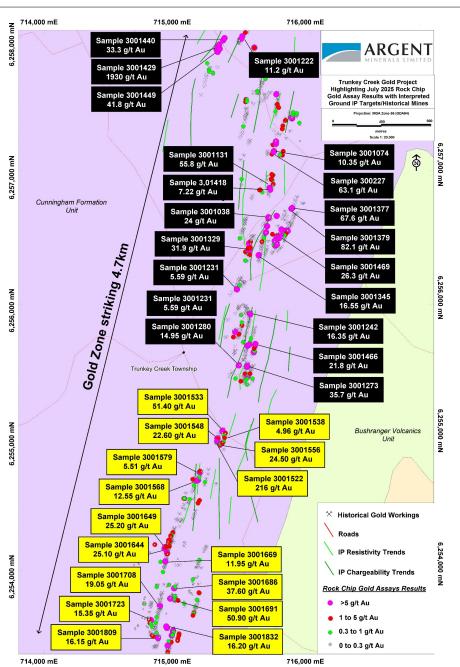
# High-grade gold rock chips over historical workings at Trunkey confirm gold mineralisation over 4.7km strike.

4.7 km of > 10 g/t Au gold surface samples largely untested by drilling:

Coarse visible gold within sulphide-quartz vein yielding 1,930 g/t Au (62 oz Au) from sample 3001429.

Refer ASX Announcement: 31 March 2025 Bonanza Gold Grades at Trunkey Creek





# BEST ROCK CHIP SAMPLES

Sample 3001429 **1,930g/t Au** 

Sample 3001522 **216g/t Au** 

Sample 3001464 **82.7g/t Au** 

Sample 3001379 **82.1q/t Au** 

Sample 3001377 **67.6g/t Au** 

Sample 3001227 **63.1g/t Au** 

Sample 3001131 **55.8g/t Au** 

Sample 3001533 **51.4g/t Au** 

Sample 3001691 **50.9g/t Au** 

Refer ASX Announcement: 9 July 2025 Surface Gold Mineralisation Confirmed over 4.7km at Trunkey Creek Prospect in NSW

Refer ASX Announcement: 14 Jan 2025 Further Gold Mineralisation Located at Trunkey Creek Project ARGENT MINERALS SILVER | GOLD | COPPER 13

NEW SOUTH WALES POLYMETALLIC PROJECTS

# The Pine Ridge Gold Project produced 6,864t via historic mining.

KEY HIGHLIGHTS Historic alluvial gold discovery in 1851

Exploration potential analogous to McPhillamys (2.31 Moz Au)

Gold Extensions remain untested towards the north and south of the main Gold Deposit

JORC Inferred Resource\* July 2024

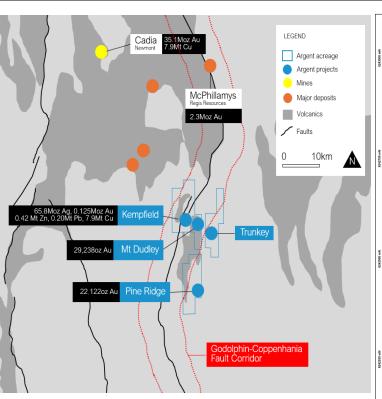
419.8Kt

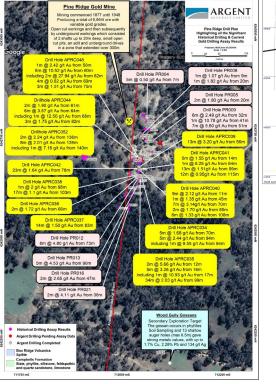
@ 1.65g/t Au

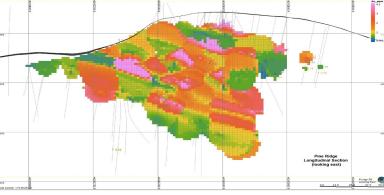
Containing

**22.1Koz Au** 

\*Refer ASX Announcement 20 April 2022 Pine Ridge Inferred Resource and Appendix 1









NEW SOUTH WALES POLYMETALLIC PROJECTS

# The West Wyalong Project is only 35km south of Cowal and offers major gold-copper upside.

### KEY HIGHLIGHTS

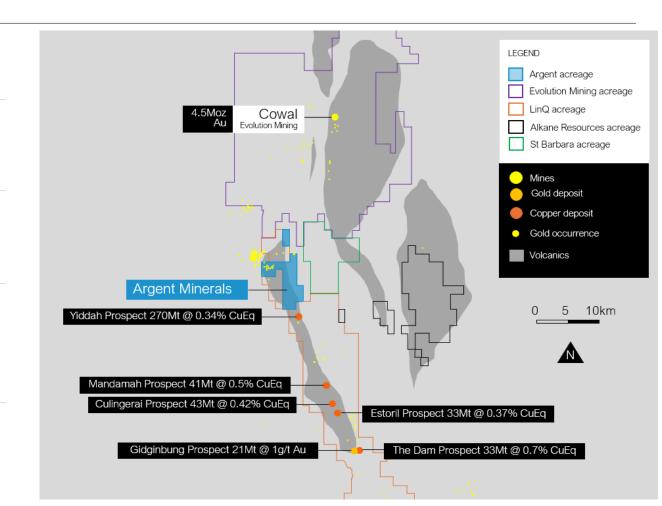
Project lies within 35km southwest from Cowal Gold Deposit (4.5Moz Au)

West Wyalong Goldfields reported total gold production of 445,000 ounces (average grade 1.31 oz/t or 40 g/t Au).

Exploration Target includes two different styles of Mineralisation. Orogenic Au & Porphyry Cu-Au.

Extensive mineral occurrences, including gold and copper resources, are located along strike, in proximity to major resource and exploration companies actively operating in the region

Extensive high-priority untested Induced Polarisation (IP) and magnetic targets **identified for immediate drilling**.



WESTERN AUSTRALIAN PROJECT

# The Copperhead Project is prospective for copper, silver and zinc, with significant upside from strike extensions.

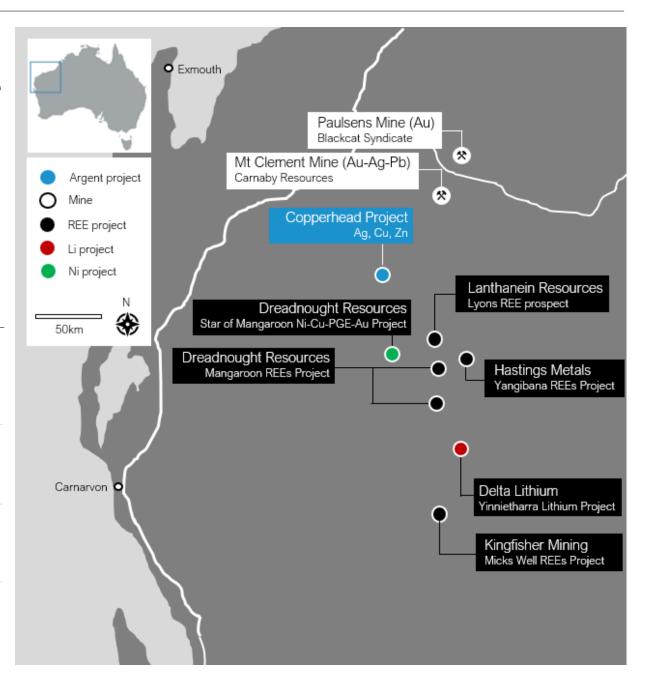
KEY HIGHLIGHTS

Potential Ag-Cu-Zn mineralisation over 84km in length within the 100% owned Project Area

Signs of multiple large systems considered highly prospective for:

Sedimentary Exhalative (SEDEX style) Lead-Zinc deposits

Sediment-hosted Stratiform Copper deposits



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COPPERHEAD PROJECT

# Advancing high-grade copper potential across Illirie North, Henry East, and Barlee South prospects.

### KEY HIGHLIGHTS

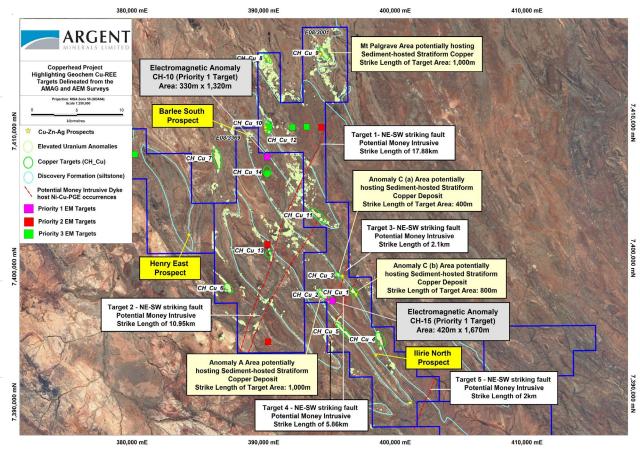
Geophysical targeting, structural mapping and shallow-to-intermediate geochemical programs aimed at defining near-surface Cu-Ag resources.

Ilirie North Prospect: high-grade copper and silver assays up to 25.6% Cu and 291 g/t Ag (9.35 oz silver)^.

Barlee South Prospect: rock chip assays include 10.2% Cu, 6.27% Cu, 1.79% Cu, 2.34% Zn, 0.2% Co and 3.67 g/t Ag & 0.75% Ni\*.

Henry East Prospect: high-grade copper and silver assays up to 21.7% Cu, 2.34% Zn, 0.75% Ni, 0.2% Co and 8.86 g/t Ag\*.

<sup>\*</sup>Refer ASX Release 30 January 2024: Outstanding Copper-Zinc-Silver Grades Uncovered at Henry East & Barlee South Prospect within Copperhead Project.



<sup>^</sup>Refer ASX Release dated 23 November 2023 Outstanding Copper-Silver Grades Uncovered at Illirie North Prospect within Copperhead Project

**LEADERSHIP** 

# Our experienced team has a long track record of bringing projects to life.

CORPORATE BIOGRAPHIES



Pedro Kastellorizos Managing Director & CEO

A professional geologist with over 25 years' experience in the exploration, mining and the corporate sectors across a number of commodities including uranium, REE, bauxite, base and precious metals. Worked within senior technical and executive board positions within Australia and UK. Founder of Genesis Resources Ltd (ASX: GES) and has served on the boards of Eclipse Metals (ASX: EPM). Batavia Mining (ASX: BTV). Javelin Minerals Ltd (ASX:JAV) & Regency Mines (LON: RGM). Current roles include Western Yilgarn NL (ASX: WYX), Mt Ridley Mines Ltd (ASX: MRD) and Argent Minerals Ltd (ASX: ARD)



Peter Michael
Non-Executive Chairman

Over 20 years' experience in the property sector encompassing the arrangement and execution of commercial and residential property transactions, land development, construction and joint venture agreements. Currently a Non-Executive Director of Western Yilgarn NL, Non-Executive Director of Envoke Property Group Pty Ltd



Phillip Hall
Non-Executive Director

A qualified engineer with over 15 years' experience developing resource and infrastructure projects across Australia and Asia. He brings diverse experience including project technical and commercial analysis, project strategy, infrastructure and civil contracting, project management and development. Specialising in risk and opportunity identification and management, he brings strong commercial skill and business acumen.



Warrick Hazeldine Non-Executive Director

More than 20 years of capital markets experience from working with a range of ASX-listed companies on investor relations activities, predominately in the natural resources sector. Currently a Non-Executive Director of Evion Group (ASX:EVG) and has held Chair roles with lithium and high purity alumina companies. Council Member on the Curtin University Business and Law School and holds a range of advisory and board positions with not-for-profit organisations including Surfing WA. A founding director of investor and communications firm Purple.



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Steven Wood Exploration Manager

A professional geologist with over 25 years' experience in exploration. A member of the Australian Institute of Mining and Metallurgy. Worked as geologist at Wiluna Mines for exploring for gold, nickel and base metals, for Agincourt Resources in Brazil, exploring the Para region of Brazil for gold and iron and for the Territory Uranium Company exploring for gold, uranium and base metals. Was the Exploration Manager for five years at Venturex Resources, a VMS base metals and gold exploration company.

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**CONCLUSION** 

# Clear pathway to a valuation step-change.



BY THE NUMBERS

# Corporate snapshot

Share price

A\$0.024

Closing price 2 September 2025

52 week high \$0.038, low \$0.014

Market capitalisation

A\$40.2m\*

\*Proforma Post 5 September Capital Raise Shares on issue

1,677.09m\*

\*Proforma Post 5 September Capital Raise

Listed Options 230.5m Unlisted Options 74.9m Performance Rights 40.75m Cash

A\$5.05m\*

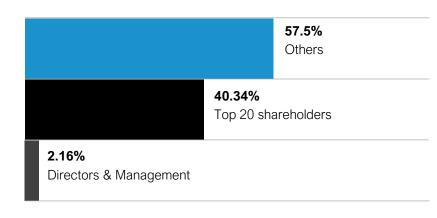
Nil

Debt

\*Proforma Post 5 September Capital Raise

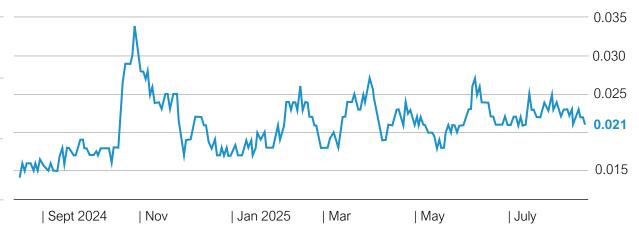
## Share Registry

As at 18 August 2025



### ASX Share price performance (\$A)

12 months to 18 August 2025







# Invest in our potential.

Pedro Kastellorizos

Managing Director & CEO
pedro@argentminerals.com.au

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APPENDIX 01

# Kempfield Project Mineral Resource Estimate

The Kempfield Silver Deposit Mineral Resource estimate for all categories was upgraded to 63.7Mt @ 69.75 g/t silver equivalent for 142.8 million ounces Ag Eq, containing of 65.8Moz silver, 125,192 oz gold, 207,402t lead & 420,373t zinc using >15 g/t Ag cut-off, >0.9% Zn cut-off (ASX Announcement 25 July 2024: Significant Silver Resource Upgrade over Kempfield Deposit).

### Notes:

- 1. The silver equivalent formulas were determined using the following metal prices based on a five-year monthly average: US\$22.02/oz silver, US\$1,776.93/oz gold, US\$2,774.16/tzinc, US\$2,066.73/t lead.
- 2. The silver equivalent formulas were determined using different metallurgical recoveries for each weathering zone from test work commissioned by Argent Minerals Limited. For oxide zone metallurgical recoveries of 86% silver and 90% gold. For transitional zone metallurgical recoveries of 86% silver, 67% zinc and 21% lead, 90% gold. For primary zone metallurgical recoveries of 86% silver, 92% zinc and 53% lead, 90% gold.
- 3. The silver equivalent formulas were determined using the metal prices and recoveries listed in Notes 1 & 2 for each weathering zone:

Oxide Zone silver equivalent: Ag Eg (a/t) = a/t Ag + a/t Au x 85.4

Transitional Zone silver equivalent: Ag Eq (g/t) = g/t Ag + g/t Au x 85.4 + % Zn x 30.53 + % Pb x 7.13 Primary Zone silver equivalent: Ag Eq (g/t) = g/t Ag + g/t Au x 85.4 + % Zn x 41.92 + % Pb x 17.99

In the Company's opinion, the silver, gold, lead and zinc included in the metal equivalent calculations have a reasonable potential to be recovered and sold

The Company is not aware of any new information or data that materially affects the information included in the original market announcement and all material assumptions and technical parameters underpinning the Mineral Resource for Kempfield, announced on 25 July 2024, continue to apply and have not materially changed.

The information in this report / ASX release that relates to Mineral Resources Estimation is based on information compiled and reviewed by Mr. Alfred Gillman, Director of independent consulting firm, Odessa Resource Pty Ltd. Mr. Gillman, a Fellow and Chartered Professional of the Australasian Institute of Mining and Metallurgy (the AusIMM) and has sufficient experience relevant to the styles of mineralisation under consideration and to the activity being reported to qualify as a Competent Person as defined in the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Exploration Targets and Mineral Resources. Mr Gillman is a full-time employee of Odessa Resource Pty Ltd, who specialises in mineral resource estimation, evaluation, and exploration. Neither Mr Gillam nor Odessa Resource Pty Ltd holds any interest in Argent Minerals Ltd, its related parties, or in any of the mineral properties that are the subject of this announcement. Mr Gillman consents to the inclusion in this report / ASX release of the matters based on information in the form and context in which it appears. Additionally, Mr Gillman confirms that the entity is not aware of any new information or data that materially affects the information contained in the ASX releases referred to in this report. Mr Gillman has completed all the Mineral Resource Estimations for Kempfield, Mt Dudley and Pine Ridge.

The information in this report that relates to Exploration Targets and Exploration Results are based on information compiled by Pedro Kastellorizos. Mr. Kastellorizos is the Managing Director/CEO of Argent Minerals Limited and is a Member of the AuslMM of whom have sufficient experience relevant to the styles of mineralisation under consideration and to the activity being reported 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. Mr. Kastellorizos has verified the data disclosed in this release and consent to the inclusion in this release of the matters based on the information in the form and context in which it appears.

Kempfield Silver Deposit Mineral Resource Estimate by Classification as at July 2024											
(at a >15 g/t Ag cut-off & >0.9% Zn)											
Category	Million Tonnes (Mt)	Volume (m²)	Silver Eq. (g/t)	Silver (g/t)	Gold (g/t)	Lead (%)	Zinc (%)	Million Ounces Silver	Million Ounces Silver Eq.		
Indicated	23.7	8,051,549	79.61	40.04	0.08	0.36	0.67	30.5	60.6		
Inferred	40.0	13,589,739	63.92	27.49	0.05	0.31	0.64	35.4	82.3		
Total	63.7	21,641,287	69.75	32.15	0.06	0.33	0.66	65.8	142.8		

Kempfield Silver Deposit Mineral Resource Estimate by Weathering Zone as at July 2024 (>15 git Ag cut-off, >0.9% Zn cut-off												
Weathering Zone	Million Tonnes (Mt)	Grade					Contained Metal					
		Silver Eq. (g/t)	Silver (g/t)	Gold (g/t)	Lead (%)	Zinc (%)	Million Ounces Silver	Thousand Ounces Gold	Thousand tonnes Zinc	Thousand tonnes Lead	Million Ounces Silver Eq.	
Oxide	8.3	45.14	38.48	0.08			10.3	20.9			12.1	
Transitional	8.8	60.27	38.87	0.09	0.38	0.37	11.0	24.6	32.5	33.6	17.1	
Fresh	46.6	75.93	29.75	0.05	0.37	0.83	44.5	79.7	387.9	173.8	113.7	
Total	63.7	69.75	32.15	0.06	0.33	0.66	65.8	125.2	420.4	207.4	142.8	

Kempfield Silver Deposit Mineral Resource Estimate by Lode as at July 2024											
(>15 g/t Ag cut-off, >0.9% Zn cut-off)											
Lode	Million Tonnes (Mt)	Silver Eq. (g/t)	Silver (g/t)	Gold (g/t)	Lead (%)	Zinc (%)	Million Ounces Silver	Million Ounces Silver Eq			
100	23.9	81.13	31.19	0.12	0.49	0.79	23.9	62.3			
200	28.0	66.42	36.03	0.03	0.21	0.57	32.4	59.7			
300	11.8	54.62	24.93	0.01	0.26	0.61	9.50	20.8			
Total	63.7	69.75	32.15	0.06	0.33	0.66	65.8	142.8			