# ARGENT MINERALS LIMITED ASX:ARD RIU SYDNEY RESOURCES ROUND-UP MAY 2015





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All forward-looking statements made in this Presentation are qualified by the foregoing cautionary statements. In particular, the corporate mission and strategy of the Company set forth in this Presentation represents aspirational long-term goals based on current expectations. Investors are cautioned that forward-looking statements are not guarantees of future performance and accordingly investors are cautioned not to put undue reliance on forward-looking statements due to the inherent uncertainty therein.

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# ARGENT AT A GLANCE



Capital Structure	
Ordinary shares (ASX:ARD)	177.6M
Share price <sup>1</sup>	\$0.024
Market capitalisation <sup>1</sup>	\$4.26M
Cash <sup>2</sup>	\$381,000
Listed Options (ASX:ARDO) <sup>3</sup>	108M
ASX Listing	3 April 2008
Top 20 shareholders <sup>4</sup>	40%

1. As at cob 8/5/15 2. As at 31/3/15 3. \$0.175 strike, 31 March 2016 expiry 4. As at 29/9/14 (2014 Annual Report)



ARD Share price & daily \$ volume traded - 1 year

Board & Managemer	nt
Stephen Gemell	Chairman (Non-exec) B.Eng (Hons), FAusIMM (CP)
David Busch	Managing Director B.Eng, BSc, MAusIMM
Marcus Michael	Director (Non-exec) B.Bus, CA
Sarah Shipway	Company Secretary B.Com, CA
Dr. Vladimir David BSc (Hons, Geolog Registered Professio	Chief Geologist gy), PhD (Economic Geology), nal Geoscientist (RPG), MAIM

# WHY INVEST IN ARGENT MINERALS



## BOARD AND MANAGEMENT EXPERIENCE

- Depth of experience: mining, financial & commodities markets, corporate governance
- Exploration track record in Volcanogenic Massive Sulphide (VMS) discovery
  - Dr. Vladimir David (eg. Hera), aided by Professor Ross Large

## THREE PROJECTS IN HIGHLY PRODUCTIVE TERRANE

- Kempfield Polymetallic Project (Argent 100%)
  - High grade base and precious metals potential
  - Near term production potential (JORC 2012 Resource)
- West Wyalong (Argent 51%)
  - Large porphyry copper-gold target identified
  - 37 km from Lake Cowal mine infrastructure
- Sunny Corner (Argent 70%)
  - Historic rich polymetallic mine potential feedstock for Kempfield



# **BUSINESS MODEL**





### Solid foundation: JORC 2012 Resource + NSW State Significant Development

## ARGENT STRATEGY: THREE KEY ELEMENTS





# **KEMPFIELD POLYMETALLIC PROJECT**



# STRATEGICALLY POSITIONED IN WORLD-CLASS NEIGHBOURHOOD



**HIGHLY PRODUCTIVE GEOLOGICAL TERRANE** 

COMPELLING PEER GROUP: RICH VMS DEPOSITS AT BASIN MARGINS



# SUBSTANTIAL OPEN, HIGHLY PROSPECTIVE, UNTESTED AREAS





1. See ASX Announcement 2 Sep 2009

2. See Appendix A for details

# DEPOSIT MODEL VALIDATED BY DIAMOND DRILLING





# HIGH GRADE POTENTIAL TO THE WEST AND AT DEPTH









## Targeting high grade lead/zinc:

- Multiple exploration vectors indicate significant grade/tonnes potential
- Sufficient tonnes & grade could also unlock significant silver production
- Zinc price resurgence fuelled by compelling supply/demand outlook

## EXTENDED REACH DEEP DIAMOND DRILL PROGRAM TO START





# DRILL TESTING FOR LENS EXTENSIONS AT DEPTH (EXAMPLE)







# WEST WYALONG PROJECT

## WEST WYALONG PROJECT LEAPS FORWARD



## MAGNETIC SURVEY REVEALS LARGE PORPHYRY COPPER-GOLD TARGET ARGENT PROJECT EQUITY NOW 51% WITH RIGHT TO EARN 70%



- Porphyry copper-gold signature indicated: coincident magnetic low and IP chargeability high anomalies in Ordovician volcanics
- Strong copper-gold geochemistry intersected by shallow aircore drilling
- Similarities to Northparkes system observed



## SUMMARY



## KEMPFIELD – DRILL TESTING THE HIGH GRADE VMS POTENTIAL

- Significant (21.8 Mt) Mineral Resource JORC 2012 compliant (upgrade-ready)
- Extended reach deep diamond drilling program 7 holes for 3,200 metres
  - Targeting high grade base and precious metals
  - Drilling activity and discovery potential -> liquidity and share price
- Resurgent interest in zinc compelling supply/demand outlook
- Project quality has attracted:
  - Federal Government R&D funding (expected to continue)
  - NSW State Government drilling-specific grant (Top 5 project based on merit)
- Capital-efficiency optimised by Government co-funding alongside equity capital

## WEST WYALONG

- Large porphyry copper-gold target
- Only 37 km from Lake Cowal Mine infrastructure

## CONTACT DETAILS



- WEBSITE <u>www.argentminerals.com.au</u>
- MANAGING DIRECTOR
  - David Busch
  - Mobile 0419 613 800
  - Email <u>david.busch@argentminerals.com.au</u>



## **KEMPFIELD JORC 2012 RESOURCE STATEMENT SUMMARY**

Table 1.0 is a summary of the Kempfield mineral resource announced on 6 May, 2014. Table 2.0 shows the Resource tonnes and grades by Measured, Indicated and Inferred categories, whilst Table 3.0 provides details of tonnes and contained metal in the Measured and Indicated categories.

At cutoff grades 25 g/t Ag (Oxide/Transitional) and for 50 g/t Ag equivalent<sup>1</sup> (Primary):

Table 1.0 - Kempfield Resource Summary

		Silver (Ag)		Gold (Au)		Lead (Pb)		Zinc (Zn)		In-situ Contained Ag Equivalent <sup>2</sup>	
	Resource Tonnes (Mt)	Grade (g/t)	Contained Metal (Moz)	Grade (g/t)	Contained Metal (000 oz)	Grade (%)	Contained Metal (000 t)	Grade (%)	Contained Metal (000 t)	Grade (Ag Eq g/t)	Contained Ag Eq (Moz)
Oxide/ Transitional*	6.0	55	10.7	0.11	21	N/A	N/A	N/A	N/A	-	11.7
Primary**	15.8	44	22.3	0.13	66	0.62	97	1.3	200	-	40.5
TOTAL***	21.8	47	33.0 M	0.12	86	N/A	97	N/A	200	75	52 M

\* 90% \*\* 79% \*\*\* 82%: Percentage of Resource tonnes in Measured or Indicated Category. See Table 3.0 for details.

### Note 1 - 50 g/t Silver Equivalent Cutoff Grade

This Resource is only reported in Resource tonnes and contained metal (ounces of silver and gold, and tonnes for lead and zinc). The Resource estimation for the Primary material was based on a silver equivalent cutoff grade of 50 g/t.

A silver equivalent was not employed for the oxide/transitional material estimation and was based on a 25 g/t silver only cutoff grade.

The contained metal equivalence formula is based on the following assumptions made by Argent Minerals:

Silver price:	\$US 30/oz (\$US 0.9645/g)
Gold price:	\$US 1,500/oz
Lead & zinc price:	\$US 2,200/tonne
Silver and gold recoverable and payable:	80% of head grade
Lead & zinc recoverable & payable:	55% of head grade

Based on metallurgical testing to date, Argent Minerals is of the opinion that recoverable and payable silver and gold of 80% is achievable, and recoverable and payable lead and zinc at 55% of the head grade. Argent Minerals is also of the opinion that this is consistent with current industry practice. These metallurgical recoveries were included in the calculation of silver equivalent cutoff grades used for reporting of Mineral Resources. Please note that Ag Eq is reported as in-situ contained ounces and grade i.e. not recoverable & payable ounces and grade, and in accordance with the JORC Code 2012 Code for the Reporting of Exploration Results, Mineral Resources and Ore Reserves.



### Table 2.0 – Resource by Category

		Grade	e (g/t)	Grade (%)		In-situ Grade (Contained Ag Eq g/t)	
Category	Resource Tonnes (Mt)	Silver (Ag)	Gold (Au)	Lead (Pb)	Zinc (Zn)	Silver Equivalent (Ag Eq)	
Oxide/Transitional							
Measured	2.7	68	0.11	-	-	73	
Indicated	2.7	47	0.11	-	-	52	
Inferred	0.6	39	0.08	-	-	43	
Total Oxide/Transitional	6.0	55	0.11	-	-	60	
Primary							
Measured	4.1	57	0.12	0.66%	1.2%	93	
Indicated	8.4	41	0.13	0.58%	1.2%	76	
Inferred	3.2	35	0.13	0.66%	1.4%	74	
Total Primary	15.8	44	0.13	0.62%	1.3%	80	
Total Resource	21.8	47	0.12	N/A	N/A	75	

#### Note 2 - Contained Silver Equivalent ('Ag Eq') Calculation Details

- (i) A revenue figure was calculated for each metal by category and material class (r) as follows:
  - r = tonnes \* head grade \* recoverable and payable %.
  - Eg. For Measured Oxide/Transitional silver: r = 2.7Mt + 68 g/t + 80% / 31.1 g/oz + \$US 30/oz = \$US 142M.
  - Eg. For Measured Primary Zinc: r = 4.1Mt \* 1.2% \* 55% \*\$US 2,200/t = \$US 59.5M.
- (ii) Total revenue R was calculated for each resource category and material class as the sum of all the individual (r) revenues for that category and class.
- (iii) Contained silver metal equivalent ounces was then calculated as follows:
  - Ag Eq (oz) = R / Ag recoverable and payable % / Ag price = R / 80% /US 30.
- (iv) Contained silver metal grade was calculated as follows: Grade (Contained Ag Eq g/t) = Ag Eq (oz) \* 31.1 / tonnes.



Table 3.0 - Kempfield Resource tonnes and contained metal in Measured and Indicated categories

	Contained Metal							
	Resource Tonnes (Mt)	Moz Silver (Ag)	000 oz Gold (Au)	000 t Lead (Pb)	000 t Zinc (Zn)	In-situ Moz Silver Equivalent (Ag Eq)		
Oxide/Transitional								
Measured	2.7	5.8	9.3	-	-	6.3		
Indicated	2.7	4.1	9.9	-	-	4.6		
Measured + Indicated	5.4	10	19	-	-	11		
As % of Total Oxide/Transitional	90%	93%	93%	-	-	93%		
Primary								
Measured	4.1	7.5	16	27	51	12		
Indicated	8.4	11	36	49	103	21		
Measured + Indicated	13	19	51	76	154	33		
As % of Total Primary	79%	83%	79%	78%	77%	81%		
Oxide/Transitional + Primary								
Measured	6.8	13	25	27	51	19		
Indicated	11	15	46	49	103	25		
Total Measured + Indicated	18	28	71	76	154	44		
As % of Total Resource	82%	86%	82%	78%	77%	84%		

#### Note 3 – Rounding and Significant Figures

Figures in the tables in this Appendix may not sum precisely due to rounding; the number of significant figures does not imply an added level of precision.

# COMPETENT PERSON STATEMENTS

### COMPETENT PERSON STATEMENTS

### **Previously Released Information**

This Presentation contains information extracted from the following reports which are available for viewing on the Company's website <u>http://www.argentminerals.com.au</u> :

- 10 March 2014 Assays Confirm Third VMS Lens Group at Kempfield Revised;
- 16 Oct 2014 Base and precious metal grade zonation in Kempfield Resource;
- 22 Oct 2014 Conductive zones detected by MMR surveys at Kempfield;
- 29 Oct 2014 Kempfield Deep Diamond Drilling Program;
- 25 February 2015 Hole 1 intersects significant gold grades at Kempfield;
- 21 April 2015 Hole 2 increases potential size of the prize at Kempfield; and
- 29 April 2015 Extended reach for Kempfield Deep Diamond Drilling Program.

The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements, and, in the case of estimates of Mineral Resources or Ore Reserves, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcements 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 market announcements.