# Ardea Resources Limited

Ardea Resources is an Australia - focused developer and explorer

### DEVELOPING

the Goongarrie Nickel Cobalt Project

### **EXPLORING**

for Western Australian Gold and Nickel Sulphides

### DIVESTING

our New South Wales Gold and Base Metal Projects

### RIU Sydney Resources Round-Up May 2019

Presented by Andrew Penkethman

### Disclaimer

#### Important notice

This presentation contains general information only and is, or is based upon, information which has been released to ASX or is contained in the Company's prospectus dated 9 November 2016 (including supplementary prospectuses dated 18 November 2016 and 6 January 2017), the Goongarrie Nickel Cobalt Project Pre-Feasibility Study (dated 28 March 2018) the Goongarrie Expansion Study (24 July 2018), Goongarrie Pilot Plant trial produces battery grade crystals (31 October 2018), Lewis Ponds met testwork produces high grade concentrates (26 November 2018), Goongarrie Nickel Cobalt Project Update (8 April 2019), Drilling at Gale identifies large scale gold system (11 April 2019), Ardea advances NSW Gold and Base Metals IPO (29 April 2019) and Ardea Quarterly Operations Report, for the quarter ended 31 March 2019 (30 April 2019). This presentation is not an invitation, offer or recommendation (express or implied) to subscribe for, or apply for the purchase of, or to take any other action in respect of securities of any entity described herein and is not a prospectus, product disclosure statement or disclosure document for the purposes of the Corporations Act 2001 (Cth) and has not been lodged with ASIC. None of Ardea Resources Limited (Ardea or the Company) or its representatives are providing or offering investment advice or services by making this presentation.

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The Goongarrie Project has completed the Pre-Feasibility Study phase and has commenced programs that are part of the Definitive Feasibility Study. Though reasonable care has been taken to ensure that the facts are accurate and/or that the opinions expressed are fair and reasonable, no reliance can be placed for any purpose whatsoever on the information contained in this document or on its completeness. Actual results and developments of projects and the market development may differ materially from those expressed or implied by these forward looking statements depending on a variety of factors. A key conclusion of the Pre-Feasibility Study and Expansion Study, which is based on forward looking statements, is that the Goongarrie Project is considered to have positive economic potential.

No stock exchange, regulation services provider, securities commission or other regulatory authority has approved or disapproved the information contained in this news release.



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### **DEVELOPING**

the Goongarrie Nickel Cobalt Project



Nickel Sulphate crystals from ARL pilot plant work



### **EXPLORING**

for Western Australian Gold and Nickel Sulphides

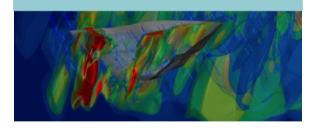


Gold nuggets recovered from ARI WA tenements



### **DIVESTING**

our New South Wales Gold and Base Metal Projects



3D model of Mt Aubrey epithermal gold system



# Corporate Snapshot

Capital Structure	
Shares on Issue	106,145,424
Share Price (30 April 2019)	\$0.435
52 week high / low	\$1.195 / \$0.41
Cash (31 Mar 2019)	\$10.7 million
Market Cap (30 April 2019)	\$46.2 million
Unlisted Stock \$0.25 options (IPO)	11.155 million
Staff performance rights	3.390 million

lan Buchhorn and associates	11.3%
Citicorp Nominees	8.4%
Brian O'Shannassy and associates	8.5%
BNP Paribas Nominees	4.8%
JP Morgan Nominees	4.7%
Top 20 shareholders hold: 55%	

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Experienced management team with global experience in the resources sector, from corporate fundraising, exploration, discovery, feasibility studies, development and operations. Ardea has a quality project portfolio and the team to make their projects succeed



Share price performance and volume since listing (9 February 2017)

### Ardea Project Portfolio Goongarrie Nickel Cobalt Project Australia's premier nickel-cobalt project -DFS programs, Metallurgy and Approvals underway Porphyry & Epithermal Copper-Gold Projects & VMS Base Metal Projects, NSW Ardea 3.500km<sup>2</sup> Tenure in IPO preparation current, focus on Nickel Sulphide Projects, WA WESTERN Lewis Ponds, Mt Aubrey and Yeoval **AUSTRALIA** Literature review complete, surface EM and soil geochemistry planned Ardea 2.000km<sup>2</sup> Tenure in KALGOORLIE **NEW SOUTH WALES** PERTH O OSYDNEY ESPERANCE Gold Projects, WA First drilling at Mt Zephyr & Bardoc Tectonic Zone confirmed the exploration models & intersected gold mineralisation.



# **DEVELOPING**

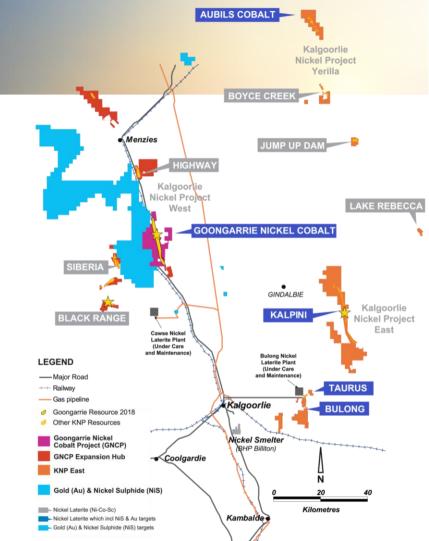
the Goongarrie Nickel Cobalt Project

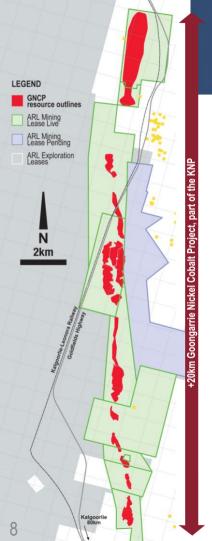
Ardea's flagship is Australia's premier Nickel Cobalt Project



# The Kalgoorlie Nickel Project

- The Goongarrie Nickel Cobalt Project (GNCP) is part of the broader Kalgoorlie Nickel Project (KNP)
- KNP has a globally significant nickel and cobalt resource of 773Mt at 0.7% Ni and 0.05% Co\*
  - 5.6 million tonnes contained Nickel
  - 405,000 tonnes contained Cobalt
- Potential for multiple processing hubs and multi-decade mine life
- Ethical, low environmental impact (no valley fill or submarine tails disposal) and long life source of nickel-cobalt from a stable, infrastructure rich jurisdiction
- A targeted plan will be utilised to firm up resources at the following projects:
  - Siberia/Highway/Ghost Rocks
  - Black Range
  - Aubils/Boyce Creek
  - Kalpini
  - These projects provide potential feed options for the GNCP plant or an additional processing hub





# Goongarrie Nickel - Cobalt Project Highlights

The 100% owned GNCP is part of the largest Nickel Cobalt Resource in the developed world\*

- Potential multi-decade producer of high-quality nickel and cobalt sulphate
- 100% nickel and cobalt offtake available
- 1.0Mtpa base case PFS low CAPEX start-up with robust project economics
- 2.25Mtpa expanded case mill feed grades 0.88% Ni and 0.10% Co
- Low technical risk project to provide nickel and cobalt for the growing battery (Electric Vehicle and Static Storage Battery) market
- DFS programs underway
- Strategic partner interest is high as concerns rise around secure long-term supply of battery grade nickel and cobalt

Cobalt sulphate produced from Goongarrie ore

# A High Quality Nickel and Cobalt Sulphate Project

# Outstanding results delivered from PFS\* and Expansion Studies completed in 2018:

	1.0Mtpa	1.5Mtpa	2.25Mtpa
Status	PFS	PFS	ES
No. Trains	1	1	1
Pre Tax NPV <sub>8</sub>	US\$ 1.13 billion	US\$ 1.52 billion	US\$ 2.4 billion
Pre Tax IRR	29 %	29 %	31%
CAPEX	US\$ 472 million	US\$ 588 million	US\$918 million
C1 cash cost	US\$ 0.42 / lb	US\$ 0.45 / lb	US\$ (0.34) / lb
Payback	5.3 years	5.6 years	5.1 years
Cobalt sulphate	5,500tpa	6,900tpa	10,000tpa
Nickel sulphate	41,500tpa	55,300tpa	81,000tpa

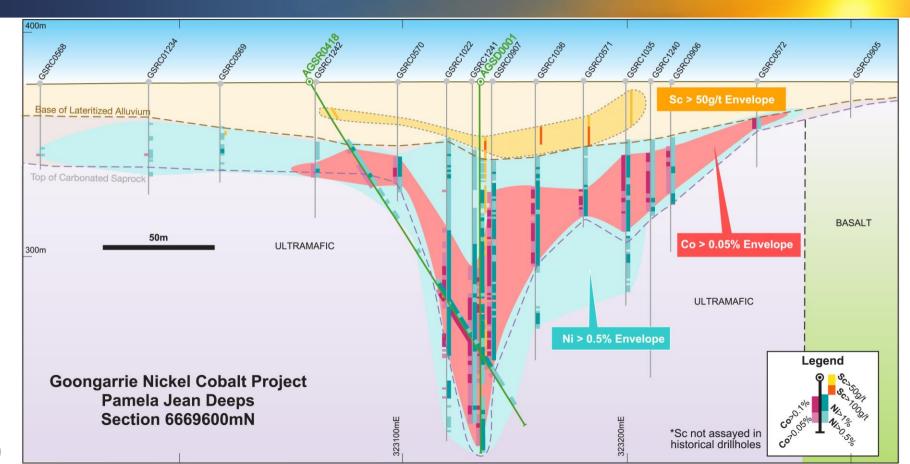
- ✓ PFS of 1Mtpa and 1.5Mtpa base case over a 25-year mine life completed
- ✓ Expansion study of 2.25Mtpa with a 25-year mine life completed
- ✓ 94.5% nickel and 95.5% cobalt recovery life of mine
- Pre-cobalt credit C1 costs in line with current worldwide operators
- ✓ Pressure Acid Leach (PAL) 5th generation plant is a proven design, successfully operated in other laterite projects globally
- √ 2.25Mtpa case based on only 26% of Goongarrie Resource



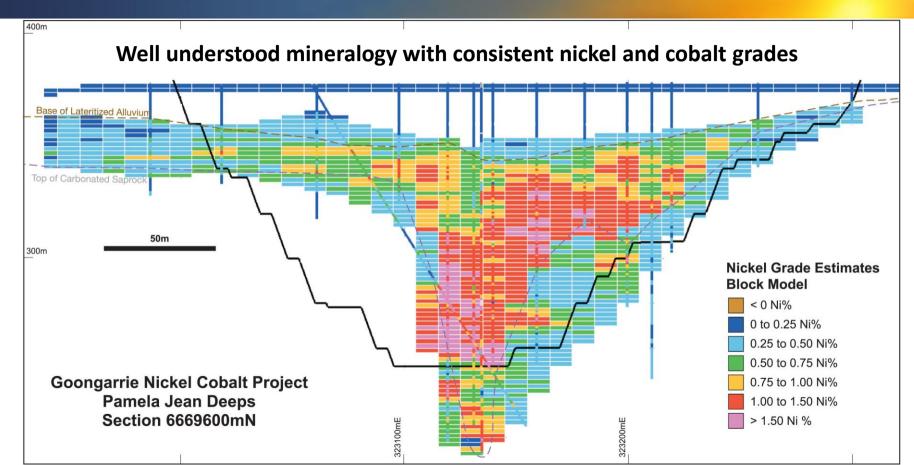
<sup>\*</sup> Goongarrie Nickel Cobalt Project, PFS study, 28 March 2018

<sup>+</sup>Goongarrie Expansion Study, 24 July 2018

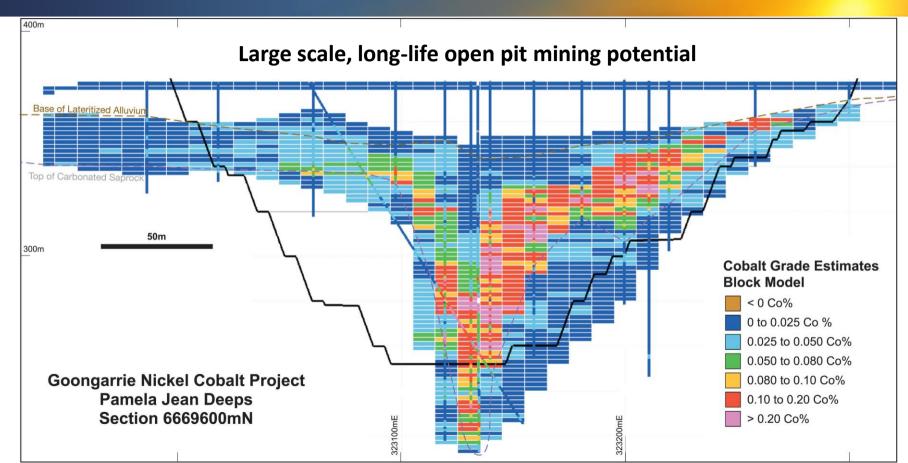
# Thick, high-grade, single ore type, low strip ratio



## Nickel Block Model – Cross Section 6669600mN



## Cobalt Block Model – Cross Section 6669600mN



# Developing Goongarrie into a Successful Long-Term PAL Operation



- The high quality of Goongarrie ore is key to the project's success:
  - uniform in composition
  - laterally continuous over kilometres
  - high levels of nickel, cobalt and scandium credit potential
  - overwhelmingly goethitic (unlike many other laterite deposits)
  - highly soluble in PAL acid, low acid consumption
  - no screen upgrade required (commonly a stumbling block for non-goethitic deposits)
- Mineralised neutralizer recovered during mining provides a cost-effective alternative to importing limestone with no recoverable Ni and Co
- Environmentally friendly, water resources adjoin the orebody
- Comparable capital intensity with successful nickel operations
- A thorough and detailed understanding of ore types and processing operations from PFS work



# Significant Progress since Ardea listed in 2017

### Geology

- ✓ Resource upgrade at Goongarrie
- ✓ Maiden reserve announced for Goongarrie
- ✓ **50,561m of drilling** to date by Ardea since listing
- Comprehensive geomet studies completed and underway

### Metallurgy

- ✓ Variability and Rheology test work to date favourable
- ✓ Pilot Plant successfully produced nickel and cobalt sulphate crystals
- Crystals meet specifications of several battery industry off-takers
- ✓ Marketing samples being evaluated by off-takers and battery end-users

### **Project Studies**

- ✓ Pre-Feasibility Study completed for 1.0 and 1.5Mtpa processing options
- ✓ **Expansion Case** (Scoping Study) completed for **2.25Mtpa** option
- ✓ Definitive Feasibility Study programs underway



Nickel sulphate (I) and cobalt sulphate (r) produced from Goongarrie.



# World-Class Mining Standards, Location & Infrastructure



View of Hannan St, Kalgoorlie, looking west, City of Kalgoorlie-Boulder

- Kalgoorlie, Western Australia offers world-class infrastructure in an established mining district
  - Over 125 years of mining in the region
  - Low sovereign risk
  - World-leading workplace practices enshrined in law
  - Goongarrie is 80 km north on the main Goldfields Highway
  - Railway lines, power lines cross Goongarrie tenements
  - Gas pipeline close by
- Western Australia's safety, health and environmental standards are world's best practice
- An Australian source for battery metals removes supply line concerns
- Goongarrie offers an ethical, secure, long-life source of nickel and cobalt







## **EXPLORING**

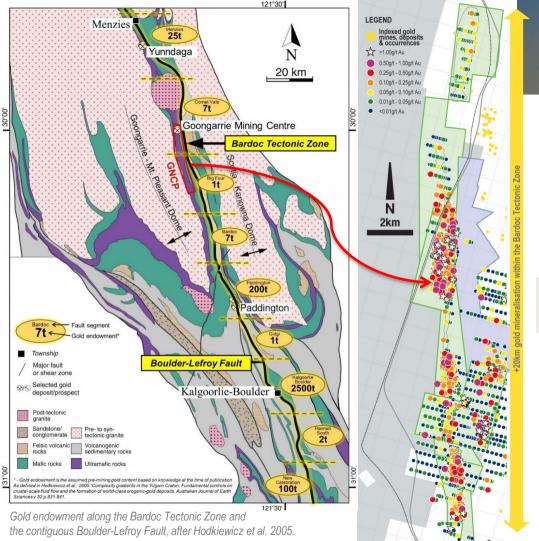
for Western Australian Gold and Nickel Sulphides



## 2019 Exploration Program

- √ 3,500km² of 100% controlled tenure in one of Australia's premier gold and nickel sulphide provinces
- ✓ Drilling recently completed at Bardoc Tectonic Zone (BTZ)
- ✓ Drilling confirms gold mineralisation at Gale and nickel sulphide gossan at Jones A, within the Mt Zephyr project
- ✓ Gold exploration programs active on Taurus, Bedonia, and Ghost Rocks (on the BTZ)
- ✓ Bedonia, Perrinvale, and Emu Lake nickel (-copper-PGE) sulphide projects being assessed
- ✓ Systematic assessment and ranking of all non-nickel cobalt laterite projects during 2019
- Extensive tenure position provides multiple strategic options





# Bardoc Tectonic Zone (BTZ)

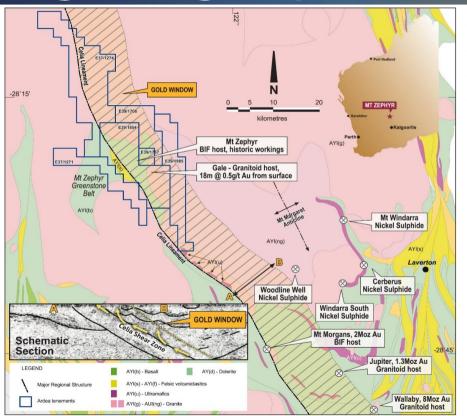
- ✓ One of the major gold-bearing structures of the Eastern Goldfields runs through the GNCP
  - √ 80 km long gold-producing regional shear / fault system
  - ✓ Hosts Paddington gold mine, Goongarrie, Menzies, and Comet Vale historic gold mining centres
  - ✓ Contiguous with Boulder-Lefroy Fault, hosts Kalgoorlie, St Ives mining centres.

# Laterite cover has obscured the BTZ's true potential at Goongarrie

- ✓ Program of exploration drilling tied in with GNCP site layout sterilisation drilling
  - ✓ First phase sterilisation drilling completed, further work planned
  - ✓ Holes to penetrate laterite to fresh rock to test for gold
  - Structural gold targets being refined and to be tested



# Mount Zephyr Drilling at Gale Prospect identifies large scale gold system



- First pass drill programs completed
- ✓ Gold at Gale, Dunn's North, Dunn's Line and Paul's Find
- Ni-Cu sulphides (+ gold) at Jones Area A
- First-pass, wide-spaced (160mx160m) drilling confirms granite hosted gold mineralisation, at Gale\*

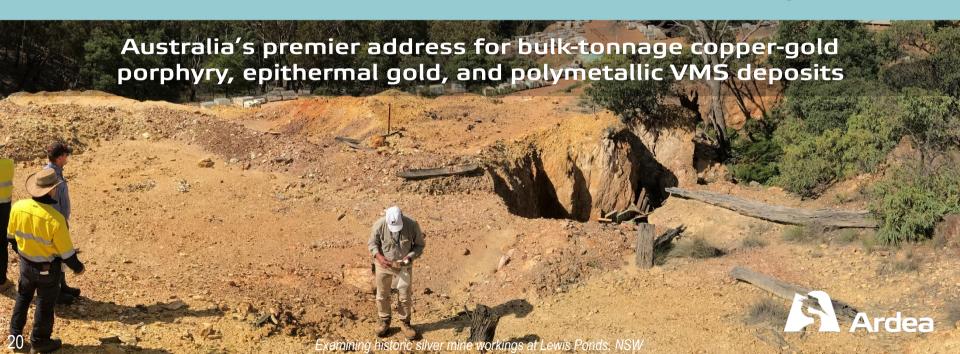
Intercepts include:

- AMZR0006: 96.00 m @ 0.28 g/t Au from 2 m
  - including 22.00 m @ 0.48 g/t Au from 10 m
- AMZR0002: 22.00 m @ 0.25 g/t Au from 6 m
  - including 4.00 m @ 0.79 g/t Au from 6 m
- Open in all directions with additional targets defined
- Near 100m intercepts are a rarity from a first pass exploration program and are interpreted as the outlying halo of a significant gold mineralising system
- Parallels with Dacian's Jupiter mine & Gold Field's Wallaby mine.

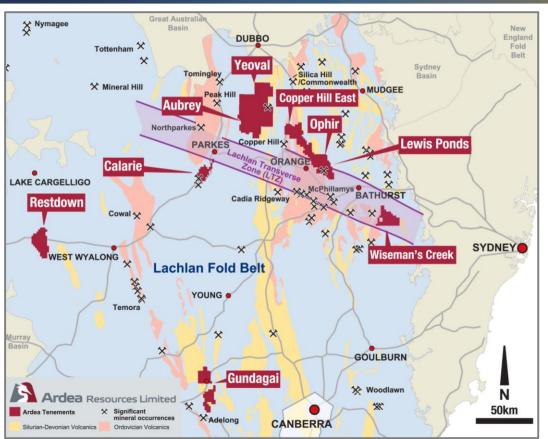


## **DIVESTING**

our New South Wales Gold and Base Metal Projects



# Spinning out the NSW assets



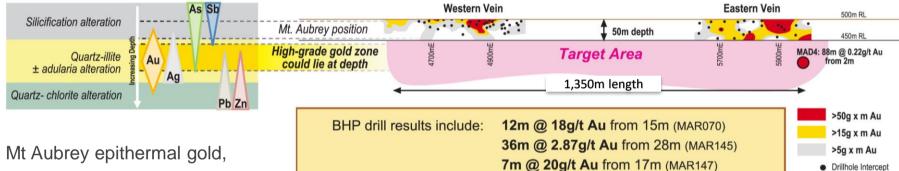
# 2,000km<sup>2</sup> of 100% ARL controlled, highly-prospective tenure within Lachlan Fold Belt, NSW

- Resource upgrade underway at **Lewis Ponds** (polymetallic Zn-Ag-Pb-Au-Cu VMS deposit)
- Data review underway for all projects
- First phase mapping and auger geochemical sampling undertaken with a focus on Mt Aubrey, (high-grade Au-Ag epithermal), Yeoval & Copper Hill East (porphyry systems) and Gundagai (orogenic gold).
- Divestment timeline:
  - prospectus expected to be issued in H2 2019
  - Aiming to list within the next 12 months
- Also considering project sale opportunities

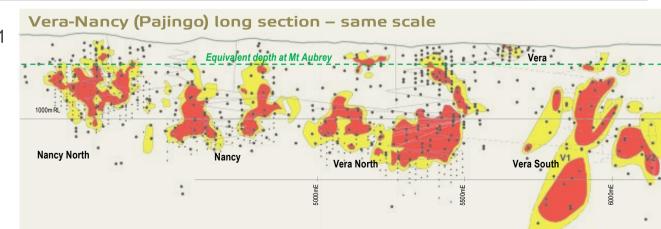


# Mt Aubrey – former BHP epithermal gold mine

### Mt Aubrey long section looking northeast



- >1km strike length.
- Mined by BHP Gold in 1990-91
  - 3 backfilled open pits
  - +10g/t Au ore left in pit floor
- Comparable to upper levels of Vera-Nancy mine (Pajingo)



# Lewis Ponds – Zinc, Gold, Silver

Extensive mining history from 1850s through to early 1900s

### **JORC Inferred Resource:**

6.62Mt at 2.4% Zn, 1.4% Pb, 0.2% Cu, 1.5g/t Au and 69g/t Ag

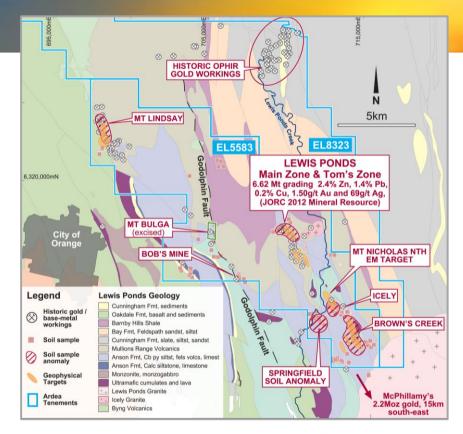
### **Exploration Target:**

15-25 Mt at 2.2-3.7 % ZnEq\* or 1.2-2.0 g/t AuEq\*

- Resource Upgrade underway
- Soil gold anomalies + McPhillamy-style gold targets with no previous testing
- Premium exploration potential, 50km strike Godolphin Fault from McPhillamys in south to Copper Hill East in north

### Two concentrates produced from first-pass met test work:

- Clean zinc concentrate over 66 % contained zinc
- Cu-Pb-Ag-Au concentrate containing 1,619 g/t silver,
   17.6 g/t gold, 4.78 % copper, and 30.3 % lead
- Excellent recovery of payable metals and fast flotation kinetics







# **Investment Summary**

- ✓ Advanced Australian Nickel Cobalt project at Goongarrie
  - Globally significant mineral resource in an infrastructure rich and stable jurisdiction
  - Project Studies completed:
    - 1Mtpa and 1.5Mtpa case studies offer significant economic opportunity
    - Scoping Study completed on 2.25Mtpa case shows excellent upside
  - DFS Programs underway
  - Leveraged to increasing nickel and cobalt demand from the rapidly growing EV and Static Storage Battery (SSB) markets
- ✓ Ardea has an extensive (3,500km²), highly prospective landholding in WA with active work programs for gold and nickel sulphides
- Strategic portfolio of NSW gold and base metal assets with active work programs underway leading into IPO





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# **APPENDICES**

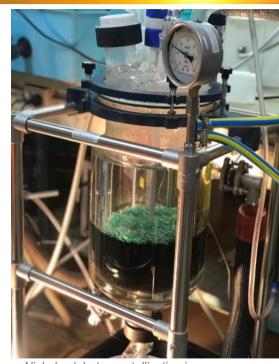
For further information regarding Ardea, please visit www.ardearesources.com.au

# Continued Growth and Development at Goongarrie



### **Current activities enhancing project and include:**

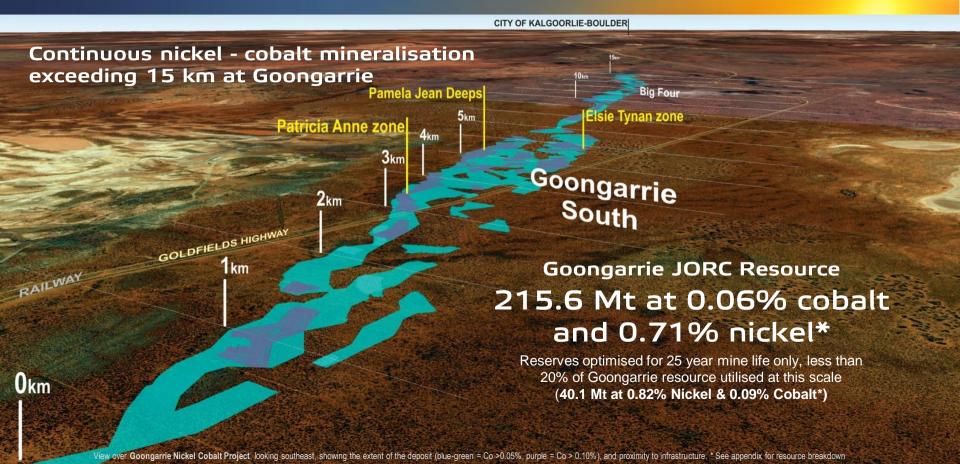
- Strategic Partner process
- Goongarrie Resource Upgrade
- High Grade Mine Schedule
- On-site Mineralised Neutraliser study
- Extensive Variability Program underway to extend the geo-metallurgy database to reflect the ore LOM
- Water studies
- Tailings studies
- Alternative Product options
- Environmental studies



Nickel sulphate crystallisation in progress.



# Our Flagship Goongarrie Nickel - Cobalt Project



## APPENDIX – Goongarrie Nickel Cobalt Project Resources

Summary of total mineral resources within the Goongarrie Nickel Cobalt Project area, comprising resources at Goongarrie Hill, Goongarrie South, Big Four, and Scotia Dam (14 March 2018).

Camp	Domains	Cut-off	Resource	Size	Cobalt	Nickel	Contair	ed metal
		%	category	(Mt)	(%)	(%)	Co (t)	Ni (t)
Goongarrie Hill	Ni & Co	≥ 0.5% Ni or > 0.08% Co	Inferred	52.5	0.04	0.65	21,600	340,400
			Subtotal	52.5	0.04	0.65	21,600	340,400
Goongarrie South	Ni & Co	≥ 0.5%Ni or > 0.08% Co	Measured	10.3	0.10	0.98	10,200	101,200
			Indicated	56.2	0.07	0.72	37,200	407,000
			Inferred	32.2	0.06	0.69	20,300	221,200
			Subtotal	98.7	0.07	0.74	67,700	729,300
Big Four	Ni & Co	≥ 0.5%Ni or > 0.08% Co	Indicated	45.5	0.06	0.71	28,200	320,700
•			Inferred	9.9	0.06	0.63	6,100	61,900
			Subtotal	55.4	0.06	0.69	34,300	382,700
Scotia Dam	Ni & Co	≥ 0.5% Ni or > 0.08% Co	Indicated	3.3	0.09	0.81	3,000	26,900
			Inferred	5.7	0.07	0.76	4,100	43,300
			Subtotal	9.0	0.08	0.78	7,100	70,200
Total	All	≥ 0.5% Ni or > 0.08% Co	Measured	10.3	0.10	0.98	10,200	101,200
			Indicated	105.0	0.07	0.72	68,400	754,600
			Inferred	100.3	0.05	0.67	52,100	666,900
Goongarrie Resour	ce Global		TOTAL	215.6	0.06	0.71	130,700	1,522,700

Note: All nickel and cobalt domains are included, and are encapsulated by an envelope defined by nickel grades equal to or greater than 0.5%. Note that figures are rounded to reflect degree of certainty and may not tally.



# APPENDIX – Reserves Defined for Goongarrie Nickel Cobalt Project

Goongarrie Nickel Cobalt Project, Ore Reserves based on 25 year mine life at 1.5 Mtpa.

Danasita	Class	Size	Cobalt	Nickel
Deposits	CidSS	(Mt)	(%)	(%)
Goongarrie South	Proven	8.95	0.10%	0.96%
	Probable	17.26	0.09%	0.79%
	Total	26.22	0.10%	0.85%
Big Four	Proven	_	_	<del>_</del>
	Probable	13.92	0.09%	0.77%
	Total	13.92	0.09%	0.77%
TOTAL	Proven	8.95	0.10%	0.96%
	Probable	31.18	0.09%	0.78%
	Total	40.13	0.09%	0.82%

Using a nickel equivalent cut of >0.81 %, which used inputs of A\$18,900/t nickel and A\$120,750/t cobalt. (US\$15,120/t Ni and US\$96,600/t Co, 0.8 exchange rate). Nickel equivalent (Nieq %) =  $Ni \ grade + \frac{Co \ grade \times Co \ price}{Ni \ price}$ . Prices used are US\$15,120/t for nickel and US\$96,600/t for cobalt. No assumption about recovery is included here. Recoveries are addressed elsewhere throughout the mining schedule and financial model.

### APPENDIX – KNP resource breakdown

### KNP nickel-cobalt mineral resource (JORC 2012), Ardea Annual Report 2017

Resource Category	Quantity (Mt)	Cobalt (%)	Nickel (%)	Contained cobalt (t)	Contained nickel (t)
Measured	9.6	0.10	1.02	9,700	98,800
Indicated	232.9	0.06	0.75	141,200	1,759,700
Inferred	530.5	0.05	0.68	254,400	3,600,000
KNP Total Resources	773.0	0.05	0.70	405,400	5,458,400

In accordance with the Australian Securities Exchange Limited Listing Rules Appendix 5A:

The information in this report that relates to Mineral Resources for the Highway, Goongarrie Hill, Goongarrie South, Big Four, Aubils and Boyce Creek Prospects is based on information originally compiled in-house and validated by Steve Jones in 2013. Steve Jones is a member of the Australasian Institute of Mining and Metallurgy. Steve Jones is a full time employee of Heron Resources Limited and has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the resource estimation activity that 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'. Steve Jones consents to the inclusion in this report of the matters based on his information in the form and context that it appears. Note that Mineral Resources that are not Ore Reserves do not have demonstrated viability.

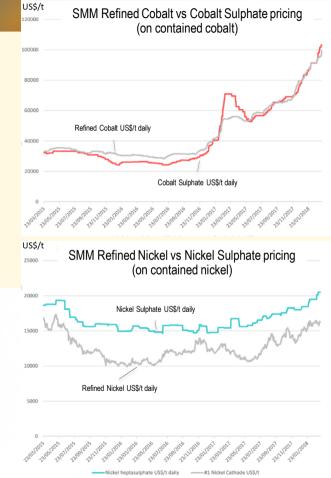
The information in this report that relates to Mineral Resources for the Siberia North, Bulong East, Siberia, Black Range, Taurus and Jump Up Dam Prospects is based on information compiled by Snowden Mining Industry Consultants by members of the Australian Institute of Mining and Metallurgy. Snowden Mining Industry Consultants had sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the resource estimation activity. All resources were internally audited by Snowden and signed off by a person of sufficient experience 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'. Steve Jones validated the Snowden Mining Siberia North estimate in 2013. Note that Mineral Resources that are not Ore Reserves do not have demonstrated viability.



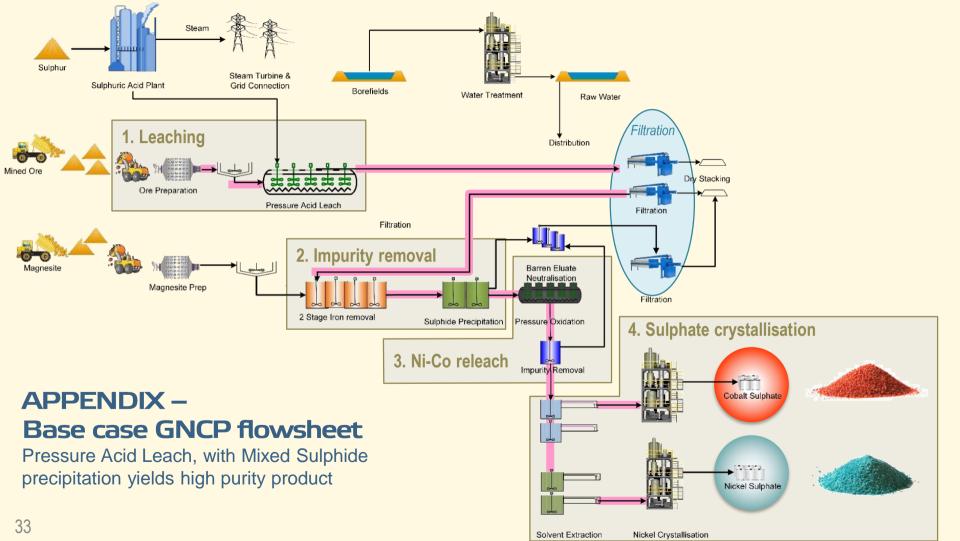
# APPENDIX – The Sulphate Markets

- Strong growth in sulphate pricing is expected with rapidly increasing demand for highpurity product from manufacturers globally. Increased battery production is required to power the Automotive Electrification Revolution
- Cobalt sulphate and nickel sulphate attract a price premium (based on contained metal)
  - Cobalt sulphate 5% premium
  - Nickel sulphate 30% premium
- East Asia is the major consumer, manufacturing most of the world's lithium ion batteries
   ongoing discussions with a number of interested parties from this region.
- Sulphate market is strong with spot prices increasing substantially since PFS release

		Price date	Units	CNY / t	USD / t	USD / lb
	PFS	Feb 2018 (avg)	Sulphate	¥121,600	\$19,241	\$8.73
Cobalt sulphate			Contained metal equiv.		\$91,771	\$41.63
(contains 20.97% cobalt)	Spot	4 Apr 2018	Sulphate	¥142,000	\$22,469	\$10.19
			Contained metal equiv.		\$107,167	\$48.61
	PFS	Feb 2018 (avg)	Sulphate	¥27,500	\$4,351	\$1.97
Nickel sulphate			Contained metal equiv.		\$19,486	\$8.84
(contains 22.33% nickel)	Spot	4 Apr 2018	Sulphate	¥28,500	\$4,510	\$2.05
			Contained metal equiv.		\$21,509	\$9.76



All pricing data sourced from SMM (Shanghai Metals Markets – metals.com) CNY USD exchange rate USD:CNY \$1.00 equals ¥6.32



# Exceptional Size and Scale

Investment criteria	Ardea Resources (KNP)
Company resources	Over 700 million tonnes of cobalt and nickel resources, WA  Numerous deposits within 100km radius, including Goongarrie, Black Range, Kalpini, Yerilla, Boyce Creek, Aubils, Siberia, Highway, Ghost Rocks
Metal contained in resources	>5,458,000 t nickel >405,000 t cobalt
Market capitalisation	A\$46.2 million
Market cap per nickel tonne (in resources)	~A\$8.5 / t nickel
Market cap per cobalt tonne (in resources)	~A\$ 114.1/ t cobalt

#### Contained cobalt metal in resources



### Contained nickel metal in resources



Source data:

Company Ardea Resources (ARL) Australian Mines (AUZ) CleanTeQ (CLQ)

Project Source KNP Website Sconi Announcement

14/2/2019 14/2/2019 Sunrise Website (fact sheet)

