

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 Ardea Resources Limited (Ardea or the Company) prospectus dated 9 November 2016 (including supplementary prospectuses dated 18 November 2016 and 6 January 2017), High-grade nickel-cobalt mineralization extended at Googgarrie (8 October, 2018), Googgarrie Pilot Plant trial produces battery grade crystals (31 October 2018), Emu Lake Discovery (3 December 2021, 14 January 2022, 7 February 2022), Goongarrie Hub Feasibility Study Update (25 January 2022), High-grade Nickel-Cobalt Confirmed at Kalpini with Scandium and Rare Earth Elements (14 March 2022), Kalgoorlie Nickel-Project Recognition on All Tiers of Australian Government (21 March 2022), Confirmation of High-Grade Nickel-Cobalt from Goongarrie South Metallurgical Drilling (16 May 2022), Kalgoorlie Nickel Project: Metallurgical Update - Mineralised Neutraliser (16 November 2022), Ardea Completes KNP ESG Accreditation from Independent Leading Global Platform (24 November 2022), Nickel sulphide anomalism from aircore drilling at Kalpini Project (2 May 2023). Mineralised Neutraliser Global Patent Lodged (15 June 2023). Kalgoorlie Nickel Project Mineral Resource Estimate Exceeds 6 Million Tonne Contained Nickel (30 June 2023), KNP Goongarrie Hub Ore Reserve and Feasibility Study Defines +40 Year Operation with Strong Financial Metrics (5 July 2023), Ardea Kalgoorlie Nickel Project - MOU with Sumitomo Metal Mining, Mitsubishi Corporation, and Mitsu & Co., Ltd (5 July 2023), Kalgoorlie Nickel Project Goongarrie Hub Tenement Consolidation (17 July 2023), Ardea Quarterly Activities Report June 2023 (27 July 2023), Ardea Annual Report 2023 (27 September 2023), Ardea and Japanese Consortium Update on MOU (29 September 2023), Nickel Sulphide Prospectivity Confirmed and Lithium-Caesium-Rubidium bearing intrusives in Highway EIS drillhole (15 December 2023), Ardea and Japanese Consortium: Update on Progress on KNP - Goongarrie Hub (21 December 2023), Ardea Quarterly Activities Report December 2023 (31 January 2024), Ardea and Japanese Consortium: Update on Progress on KNP - Goongarrie Hub (29 February 2024), Ardea and Japanese Consortium: Update on Progress on KNP - Goongarrie Hub (27 March 2024)), Ardea Quarterly Activities Report March 2024 (26 April 2024), ARL SMM and MC to form a JV to develop KNP Goongarrie Hub ASX Announcement (29 April 2024), Ardea Completes Updated Kalgoorlie Nickel Project ESG Accreditation From Independent Leading Global Platform (9 May 2024), Ardea receives \$1.1 million R&D Rebate (13 June 2024), Kalgoorlie Nickel Project - Goongarrie Hub DFS Drilling Underway (4 July 2024), Kalgoorlie Nickel Project - Goongarrie Hub DFS Underway (8 July 2024), Valgoorlie Nickel Project - Goongarrie Hub DFS Underway (8 July 2024), Kalgoorlie Nickel Project - Goongarrie Hub DFS Underway (8 July 2024), Kalgoorlie Nickel Project - Goongarrie Hub DFS Underway (8 July 2024), Kalgoorlie Nickel Project - Goongarrie Hub DFS Underway (8 July 2024), Kalgoorlie Nickel Project - Goongarrie Hub DFS Underway (8 July 2024), Kalgoorlie Nickel Project - Goongarrie Hub DFS Underway (8 July 2024), Kalgoorlie Nickel Project - Goongarrie Hub DFS Underway (8 July 2024), Kalgoorlie Nickel Project - Goongarrie Hub DFS Underway (8 July 2024), Kalgoorlie Nickel Project - Goongarrie Hub DFS Underway (8 July 2024), Kalgoorlie Nickel Project - Goongarrie Hub DFS Underway (8 July 2024), Kalgoorlie Nickel Project - Goongarrie Hub DFS Underway (8 July 2024), Kalgoorlie Nickel Project - Goongarrie Hub DFS Underway (8 July 2024), Kalgoorlie Nickel Project - Goongarrie Hub DFS Underway (8 July 2024), Kalgoorlie Nickel Project - Goongarrie Hub DFS Underway (8 July 2024), Kalgoorlie Nickel Project - Goongarrie Hub DFS Underway (8 July 2024), Kalgoorlie Nickel Project - Goongarrie Hub DFS Underway (8 July 2024), Kalgoorlie Nickel Project - Goongarrie Nickel Nic Ardea Quarterly Activities Report June 2024 (30 July 2024), KNP - Goongarrie Hub Joint Venture FIRB Approval Received (14 August 2024), KNP - Goongarrie Hub Joint Venture Transaction Completion with Japanese Consortium (30 August 2024), Ardea Annual Report 2024 (13 September 2024), Kalgoorlie Nickel Project - Goongarrie Hub DFS Progress Update (17 January 2025) and Ardea Quarterly Activities Report December 2024 (28 January 2025) and KNP Goongarrie Hub DFS Update (11 February 2025).

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This presentation contains forward-looking statements regarding the Company's resources, intentions and future business. These statements reflect current information, expectations, intentions and strategies regarding the future, and are subject to certain risks and uncertainties. Should one or more of these risks or uncertainties materialise, or should any of the underlying assumptions prove incorrect, actual results may vary from the expectations, intentions and strategies described in this presentation. Investors are cautioned not to place undue reliance on forward-looking statements, which speak only as of the date they are made. Other than where required by law, the Company is under no obligation to revise any forward looking statement to reflect events or circumstances after the date of this presentation or to reflect the occurrence of unanticipated events.

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, 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.



ASX:ARL ⊗



Ardea Resources - Snapshot

Experienced Board & management, respected Partners, supportive Shareholders, tight capital structure

199,682,915

Shares on Issue

3,513,400 Performance Rights. 3,000,000 Options

Top 40 Shareholders

~60% equity

Board & Management

~10% equity

Market Cap

\$87.9M

\$0.44 Share Price 17 February 2025 Consortium fully funding DFS

\$98.5M

To earn 35% interest in KNP Goongarrie Hub, and can increase to 50% on successful FID1

Cash

\$13.2M

No Debt

31 Dec 2024 1

\$78.8M

remaining to be expended by Consortium in DFS Funding 31 Dec 2024 1





Mat Longworth Non-Executive Chair

Experienced across exploration, project evaluation / development including KNP and corporate management



Andrew Penkethman MD & CEO

Experienced geologist with strong technical and corporate focus including discovery and strategic partner success. ASX, TSX and AIM experience



Maree Arnason Non-Executive Director

Highly experienced director and executive in the natural resources, energy and manufacturing sectors



lan Buchhorn Executive Director

Mineral economist and geologist, with significant Eastern Goldfields of WA, exploration, evaluation, development and operations experience



Michael Rodriguez Executive Director

Metallurgist experienced in the design, construction, commissioning and operation of metallurgical operations including HPAL



Sam Middlemas Company Secretary

Chartered Accountant experienced in providing Company Secretary services



Rebecca Moylan Chief Financial Officer

Experienced CFO with expertise in financial and corporate management, accounting, project financing and contract negotiation

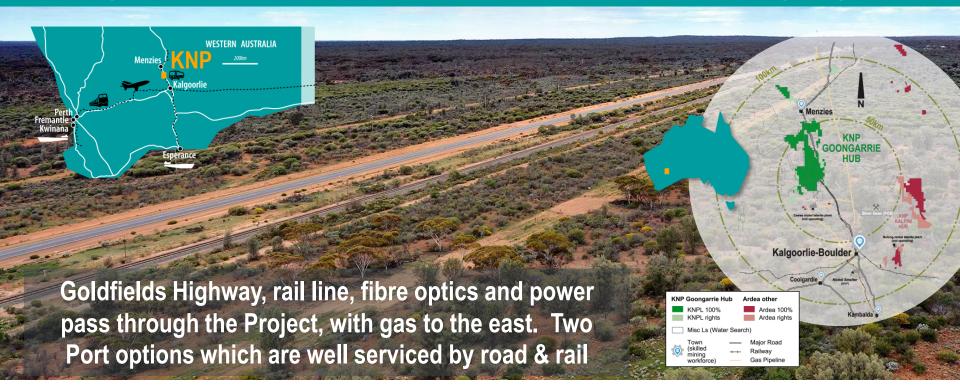






Operating in one of the best jurisdictions in the world

KNP Goongarrie Hub - access to excellent infrastructure, a skilled workforce and a stable regulatory framework



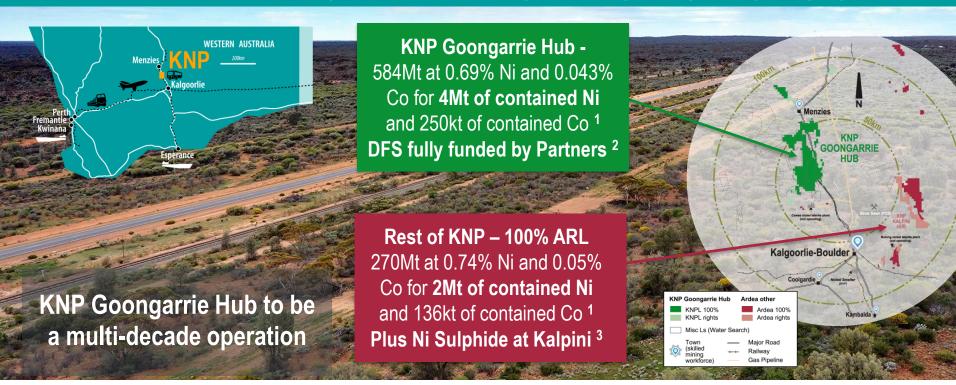






Large scale, strategic nickel-cobalt Mineral Resource

KNP nickel-Cobalt MRE¹ is the largest in Australia, making it nationally strategic and globally significant



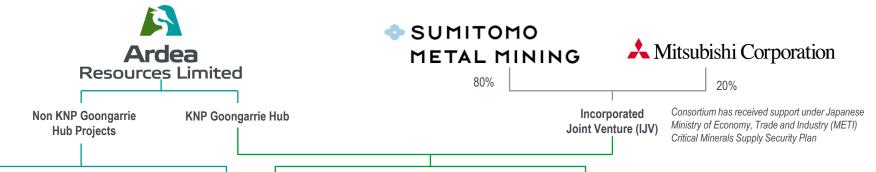
- 1. See full Mineral Resource Estimate (MRE) tables in Appendix 2 of this presentation and 30 June 2023 ARL ASX Announcement. Also see GSWA rankings April 2024 Flyer
- 2. See 30 August 2024 ASX release KNP Goongarrie Hub Joint Venture Transaction Completion with Japanese Consortium
 - See 14 January 2022 ASX release Emu Lake Nickel Sulphide discovery confirmed with 2.72m at 5.42% Ni





Working with Consortium to develop the Goongarrie Hub

Partnership validates KNP Goongarrie Hub's global significance as a desirable Critical Minerals source



Ardea retains 100% of Non KNP Goongarrie Hub Projects including:

- KNP Kalpini & Yerilla Hubs (known collectively as Kalpini Hub) MRE 270Mt @ 0.74% Ni & 0.05% Co for 2Mt of contained Ni & 136kt of contained Co[^]
- Kalpini Project Massive Nickel Sulphide at Emu Lake
 - Scandium & Rare Earth elements identified at KNP Kalpini
 - Perrinvale Project prospective for nickel sulphide



Kalgoorlie Nickel Pty Ltd (KNPL)

KNPL is 100% subsidiary of Ardea and holds the KNP Goongarrie Hub. KNPL is managing the underway **Definitive Feasibility Study (DFS)**

The Consortium is contributing financially and technically, to ultimately earn a 50% interest in KNPL*, Ardea will retain 50% interest into production

* The Consortium comprised of Sumitomo Metal Mining Co., Ltd (SMM) and Mitsubishi Corporation (MC) are fully funding the in progress DFS up to A\$98.5M and assisting in optimising debt financing to earn:

MILESTONE	INTEREST IN KNPL					
DFS 50% complete	17.5%					
DFS Completion	35%					
Positive FID	50%					

^{*} See 30 August 2024 ASX release KNP Goongarrie Hub Joint Venture Transaction Completion with Japanese Consortium. SMM and MC, together the Consortium, fully funding DFS up to A\$98.5M to earn 35% interest in KNPL, and a further 15% interest in KNPL on positive Final Investment Decision (FID). Consortium to assist KNPL in optimising debt financing





[^] See 30 June 2023 ARL MRE announcement. Or see Appendix 2 in this presentation



KNP Goongarrie Hub – Strong global interest

KNPL and Ardea hosted a recent site visit for representatives from JOGMEC, METI and JC



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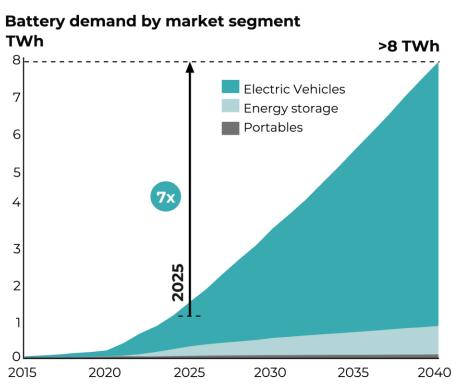
Above: The KNPL team with Ardea's Andrew Penkethman and Michael Rodriguez and representatives from the Japan Organization for Metals and Energy Security (JOGMEC), the Japanese Ministry of Economy, Trade and Industry (METI) and KNPL's Japanese Consortium (JC) at KNPL's West Perth Office ahead of a site visit to the KNP Goongarrie Hub.





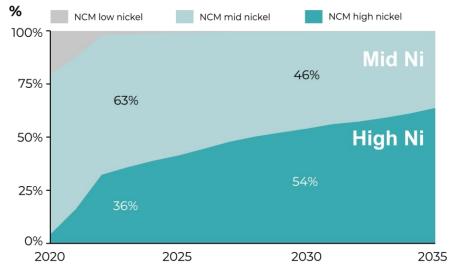
Battery demand to grow 7-fold by 2040

Record 17 million Electric Vehicles (EV) sales for 2024, global EV sales grew by 25% in 2024 compared to 2023¹



Increased battery demand, along with increase in use of high-nickel cathodes will result in growing nickel demand





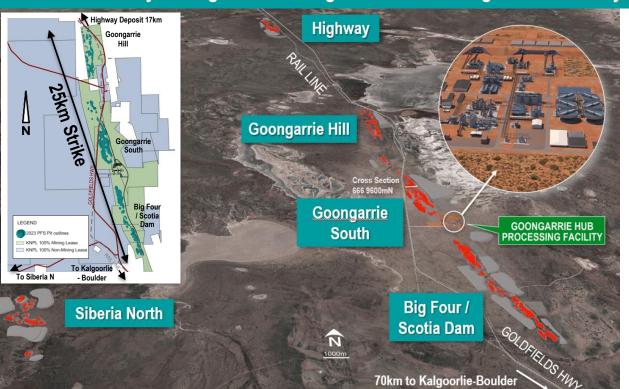






Large scale, long life project with expansion potential

The nationally strategic KNP Goongarrie Hub to strengthen the battery minerals supply chain for decades



Significant source of low cost Nickel-Cobalt for >40years

- July 2023 PFS indicated on average 30ktpa Ni and 2ktpa Co at low costs for >40years,¹ attracting quality Strategic Partners²
- High Pressure Acid Leach (HPAL) x2,
 1.75Mtpa autoclaves (for 3.5Mtpa) and
 0.5Mtpa Atmospheric Leach (AL) circuit producing high quality, high purity (~60% Ni)
 Mixed Sulphide Precipitate (MSP)³
- DFS is expected to show increase in annual Ni-Co production due to:
 - Increased throughput, from 3.5Mtpa (PFS) to 4Mtpa (DFS)⁴

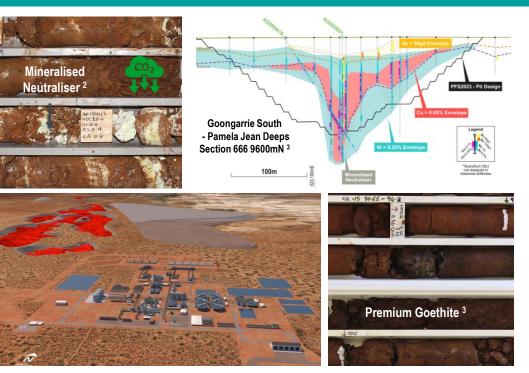






KNP Goongarrie Hub – Unique low cost characteristics

Potential lowest cost producer thanks to a number of ore deposit characteristics & geometry



KNP Goongarrie Hub

- premium Goethite best in class plant feed makes up 69% of the direct Plant Feed defined in 2023 PFS¹
- Goethite premium ore contributes to low acid consumption and energy requirements
- Conventional low-cost open pit mining with mining costs <12% of total OPEX with 2023 PFS¹ pit schedule very low LOM strip ratio of 1.8:1 (waste:ore)
- Mineralised Neutraliser (MN), within designed pits will replace imported neutralising material – reducing need to import lime, increasing metal recovery, reducing costs and emissions. An International Patent Application has been lodged for this process²



² See 16 November 2022 ARL MN ASX Announcement, Appendix 1 for assays of MN in AHID0012 20-22m photographed and 15 June 2023 ARL MN ASX Announcement





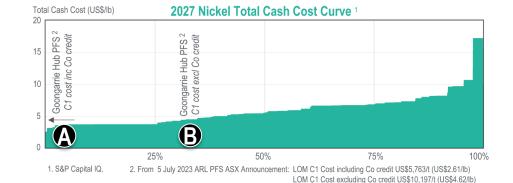
³ See 8 October 2018 High-grade nickel-cobalt mineralisation extended at Goongarrie for AGSD001 as shown on cross section and in photograph for the 96-102m interval. ASX:ARL

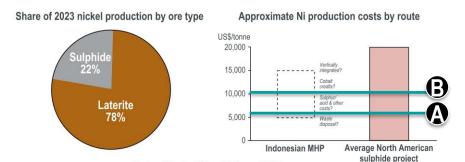


Expected to be cost competitive with global peers

KNP Goongarrie Hub estimated operating costs of US\$6,000 to US10,000 per tonne Ni asset²

- Goongarrie Hub PFS Ore Reserve² 194.1Mt
 at 0.70% Ni and 0.05% Co for 1.36Mt of nickel and 99,000t of cobalt to sustain production of ~30,000t of nickel and 2,000t of cobalt per year for > 40 years
- KNP Goongarrie Hub PFS- Low C1 Opex after Cobalt credit of US\$5,763/t Ni in MHP LOM² compares well with Indonesian Opex and lower than most current producers
- KNP Goongarrie Hub low cost and long mine life, mean the project will be able to operate throughout several commodity price cycles.





Courtesy of Benchmark Mineral Intelligence @ 2024

Data: Benchmark Nickel Forecas

2. See full tables in Appendix and 5 July 2023 ARL PFS ASX Announcement

A. LOM C1 Cost including Co credit US\$5,763/t2

LOM C1 Cost excluding Co credit US\$10,197/t²

NB: Project MRE, Ore Reserve, Production, Operational and Financial metrics are being updated as part of the in-progress DFS







Accessing & growing a skilled workforce

A skilled diverse workforce will grow with the KNP Goongarrie Hub

Kalgoorlie Nickel Project Goongarrie Hub

CONSTRUCTION **WORKFORCE**

~3,000

+ Specialist Consultants

OPERATIONAL WORKFORCE

>800

multi-decade jobs in mining, production, maintenance, support & administration

+ indirect jobs

Aspire to create skill pathways & opportunities within the region















- KNPL has already built the DFS team to 40, whilst also employing multiple consultants and service providers
- Construction workforce will peak at approximately 3,000 and will be a mix of on onsite village, goldfields residential and FIFO
- Operational workforce will comprise of local & FIFO skilled professionals and support staff totalling over 800 jobs for >40 years
- This **multi-decade** operation to also significantly grow indirect jobs in the WA Goldfields, State and Nation & strengthen local WA School of Mines and TAFE
- Ardea aspire to create meaningful skill pathways and opportunities for First Nations and regional communities, through respectful and innovative collaborations

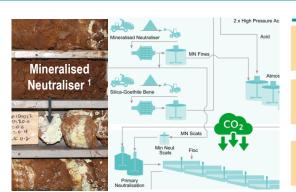


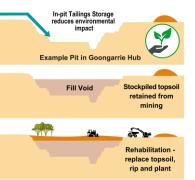




Innovated approach to elevate ESG performance

Continual improvement within a responsible ESG framework, enhanced by innovation in plant design





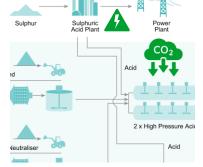


- Ardea's R&D defined MN, within designed pits. This material can replace imported neutralising material reducing need to import lime, increasing metal recovery, reducing costs and emissions. An International Patent Application has been lodged for this process¹
- In-pit tailings storage evaporation, suited to the semi-arid environment, improving rehabilitation outcomes²
- Excess steam from Acid Plant will be fed to onsite power plant reducing CO₂ emissions²
- Life Cycle Assessment (LCA) is expected to be 11.9 kg CO₂ eq. per kg nickel in MHP based on project and upstream emissions²
- Recent "A" Score from Digbee ESG™ for Ardea and KNP activities, demonstrates continuous improvement in ESG performance³















High ESG standards across Ardea and KNPL





Recruiting and retaining the best person for the job to build a skilled and passionate team

Workforce of ~50 across Ardea & **KNPL** with 50:50 gender split

Leading the way on

gender equality

Ardea's Indigenous **Education Grant program** has already helped young First Nations groups and individuals. We aspire to engage early with **First Nations Communities for** meaningful outcomes & partnerships

Environmentally responsible and innovative design to reduce CO₂ emissions & environmental footprint.

Replacing imported lime with MN, turning steam from acid plant to power, and using in-pit tailings disposal

Strong leadership & Corporate Governance to deliver a diverse. resilient and sustainable Critical Minerals supply chain, to meet global and National net zero ambitions





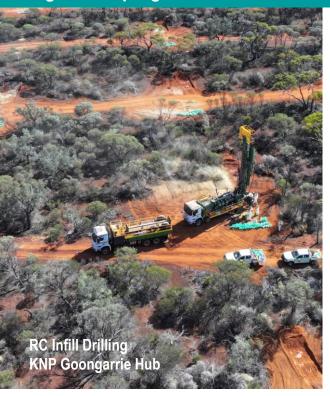






Fully funded DFS underway at KNP Goongarrie Hub

Significant progress has been made on DFS workstreams, with DFS completion expected second half of 2025



- Infill RC drill program progressed to 37,842m of the planned 48,800m by December 2024. This program focused on upgrading nickel-cobalt laterite mineral resource estimates (MRE) to the Measured category for the initial five years of mining. 790m of diamond drilling at Big Four, Scotia Dam and Goongarrie South deposits twinned RC holes for quality control, metallurgy testing and MRE work. Logging, sampling, assaying and modelling continues.
- Bench-Scale metallurgical testing focused on leaching tests, including assessing ore reduced autoclave residence time to validate the increased annual throughput to 4Mtpa.
- Hydrogeology and geotechnical campaigns initiated to define water sources, characterise geology and create designs for bore fields.
- Significant DFS progress has been made in process plant design, equipment specifications, risk reviews, and H₂S plant study.
- Non-Process Infrastructure (NPI) village location, designs and layouts advanced, with building foundation geotechnical drilling quotes prepared.
- Expanded environmental baseline surveys completed to updated environmental standards.
- ESG consultant(s) shortlisted; water pipeline studies and regulatory applications underway; active collaboration with stakeholders.
- Advancing the application for Lead Agency Status with Department of Jobs, Tourism, Science and Innovation, a department of the WA Government (JTSI). **ASX:ARL**



KNP Goongarrie Hub DFS – current and upcoming

Ardea is working collaboratively with the Consortium toward completion of the DFS and a clear path to FID



- SRK consultants are completing the resource block models for the Project. Initial focus will be the models for Goongarrie Hill and Siberia North deposits, with block model work for Big Four/Scotia Dam, Goongarrie South, and Highway deposits to commence once full assay results from infill drilling are returned. Preliminary work on the mine models and mining schedules will commence in stages from March 2025.
- Ausenco are the contracted engineers for the Process Plant and are undertaking various option studies to update the PFS process flow sheet from mixed hydroxide precipitate (MHP) to mixed sulphide precipitate (MSP).
- Work will continue on infill resource definition drilling program, which is nearing completion, mine geotechnical and mine hydrogeological field investigations, bore water supply pumping and piping design, early-stage engagement with environmental modellers and NPI village layout and other design work.
- Engagement and collaboration with Native Title claimant groups will advance. Ardea and KNPL are committed to meaningful engagement with First Nations groups.
- As a priority, Ardea and the Consortium are continuing to discuss the optimum funding strategy post completion of the DFS. Both SMM and MC have enviable track records of success with strong links to potential debt and equity providers to assist in debt financing optimisation.

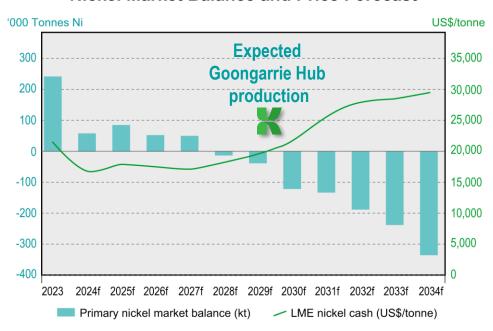
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Goongarrie is well positioned for growing nickel demand

KNP Goongarrie Hub production is aligned with expected nickel market deficits from 2028 onwards

Nickel Market Balance and Price Forecast



- 2023-24 nickel surplus has led to higher cost producers cutting or ceasing production in Australia (eg BHP) and internationally
- Security and continuity of Critical Mineral supply at risk in poor ESG jurisdictions
- 2025-2027 forecast showing reducing surplus, with supply gap increasing progressively from 2028, with forecast nickel prices correspondingly rising (See Fastmarkets 2024-2027 forecast graph),— perfectly timed for expected Goongarrie Hub production
- Security and diversity of nickel supply is imperative.
 The location, large scale, long life and low cost of the KNP Goongarrie Hub makes it strategically important to Australia's Critical Minerals supply

After Source: Fastmarkets Long Term Forecasts 2024





KNP Goongarrie Hub – is the only Australian nickel project being meaningfully advanced and has best possible Partners, Sumitomo Metal Mining Co., Ltd and Mitsubishi Corporation



>40 year mine life

with expansion potential. Producing low cost

~30ktpa nickel & 2ktpa cobalt^{1,2}

For resilience through multiple price cycles



3,000 Jobs

during Construction

- >800 Operational^{1,2,3}
 - + indirect jobs

Aspire to create equitable & skilled pathways & opportunities



Project to support local, state, national,

communities, workers, suppliers & stakeholders including regional and First Nations people



Long term supply of low cost^{1,2} Nickel-Cobalt in best jurisdiction

Innovative R&D & high ESG standards growing Australian Ni Sector

- 1. See 5 July 2023 ARL PFS ASX Announcement and Appendices of this presentation for Key Financial Metrics
- 2. Project Ore Reserve, production, operation and financial metrics are being updated as part of the in-progress DFS
- 3. Workforce estimates presented are based on past and current studies, and other industry examples. Indirect employment is not included in this estimate. e.g. boost to local employment in City of Kalgoorlie-Boulder and Shire of Menzies site services, hospitality, equipment maintenance, logistics, educational, training and more











Appendices

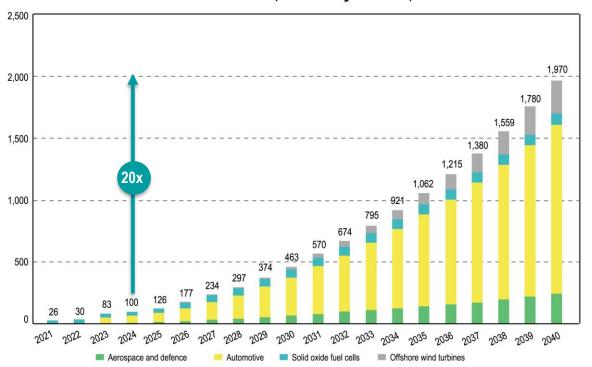






Potential upside of Scandium as a by-product¹

Scandium market size estimates, most likely scenario, 2021-2040 tonnes



- Scandium is a lightweight, soft metal with a high melting point, good electrical and heat conductivity.
- Scandium as an alloy, increases the strength of aluminium, reduces its weight and improves other qualities
- Scandium plays an important role in Solid Oxide Fuel Cells
- Scandium alloy in powders for 3D printing is a rapidly growing market

Published on mining.com.au Oct 2024, source Internal EY market study 2022



Appendix 1 - Competent Persons

Information in this presentation has been summarised from ARL ASX MRE Announcement 30 June 2023, ARL ASX PFS Announcement 5 July 2023 and ARL ASX Consortium Announcement 26 April 2024, 14 August 2024 and 30 August 2024.

Resource Estimation, Exploration Results, and Industry Benchmarking

The Resource Estimation, Exploration Results and Industry Benchmarking summaries are based on information reviewed or compiled by Mr Ian Buchhorn, and Mr Andrew Penkethman. Mr Buchhorn is a Member of the Australasian Institute of Mining and Metallurgy and Mr Penkethman is a Fellow of the Australasian Institute of Mining and Metallurgy and a Member of the Australian Institute of Geoscientists. Both Mr Buchhorn and Mr Penkethman are full-time employees of Ardea Resources Limited and have sufficient experience, which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which they are 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'.

Mr Buchhorn and Mr Penkethman have reviewed this press release and consent to the inclusion in this report of the information in the form and context in which it appears. Mr Buchhorn and Mr Penkethman own Ardea shares.

Ardea wishes to clarify that its current Kalgoorlie Nickel Project (KNP) Mineral Resource Estimate (MRE) following JORC Code (2012) guidelines is:

					Contained	Contained
KNP	Resource Category	Size (Mt)	Ni (%)	Co (%)	Ni (kt)	Co (kt)
	Measured	22	0.94	0.079	207	17
Kalgoorlie Nickel Project Total	Indicated	361	0.73	0.047	2,622	169
	Inferred	471	0.70	0.043	3,272	200
KNP	Grand Total	854	0.71	0.045	6,101	386

Note: 0.5% nickel cutoff grade used to report resources. Minor discrepancies may occur due to rounding of appropriate significant figures.

The Mineral Resource Estimate information shown in this ASX release has been previously released on the ASX platform by Ardea in ASX release 30 June 2023, in accordance with Listing Rule 5.8. The Mineral Resource Estimate in the above table is inclusive of the Ore Reserve shown in the table opposite.

The Company confirms that it is not aware of any new information or data that materially affects the information included in the previous market announcement noted above and that all material assumptions and technical parameters underpinning the Mineral Resource Estimate in the previous market announcement continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Persons' findings are presented have not been materially modified from the original market announcement.

Ore Reserves

Information in this presentation that relates to Ore Reserves at the Kalgoorlie Nickel Project Goongarie Hub is based on and fairly represents information and supporting documentation compiled by Mr Jake Fitzsimons, a Competent Person who is a full-time employee of Orelogy Mine Consulting, a company engaged by Ardea. Mr Fitzsimons is a Fellow of the Australasian Institute of Mining and Metallurgy. Mr Fitzsimons has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which is 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 (2012 JORC Code). Mr Fitzsimons does not hold securities in Ardea and consents to the inclusion in this announcement of all technical statements based on his information in the form and context in which they appear.

					Contained	Contained
Goongarrie Hub	Ore Reserve Category	Size (Mt)	Ni (%)	Co (%)	Ni (kt)	Co (kt)
Oro Bosonio	Proven	16.7	0.96	0.09	160	15
Ore Reserve	Probable	177.4	0.68	0.05	1,204	84
	Grand Total	194.1	0.70	0.05	1,365	99

Note: Minor discrepancies may occur due to rounding of appropriate significant figures.

Full details on the Ore Reserve are available in the 5 July Ardea ASX announcement, see Section 5 and Appendix 1.

The Ore Reserve information shown in this ASX release has been previously released on the ASX platform by Ardea in ASX release 5 July 2023, in accordance with Listing Rule 5.9.

Ardea confirms that all the material assumptions underpinning the production target, and the forecast financial information derived from the production target continue to apply and have not materially changed. Noting that the PFS included the inclusion of a small amount of Inferred Mineral Resource (20Mt or 9%) spread over the Life of Mine (page 26 of Ardea 5 July 2023 PFS ASX announcement).

The Company confirms that it is not aware of any new information or data that materially affects the information included in the previous market announcement noted above and that all material assumptions and technical parameters underpinning the Ore Reserve in the previous market announcement continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Persons' findings are presented have not been materially modified from the original market announcement.

Appendix 2 - KNP Global MRE

The Competent Persons (CP) for the Mineral Resources, are Mr Ian Buchhorn and Mr Andrew Penkethman, both are full-time employees of Ardea and consider the resource classification applied to the KNP resource models to reflect appropriate confidence in the input exploration data, geological interpretation and resource grade and tonnage estimates.

Various ASX market releases for the Mineral Resources described have been competed by Ardea, notably:

- 30 June 2023 'Kalgoorlie Nickel Project Mineral Resource Estimate Exceeds 6 Million Tonne Contained Nickel'.
- 16 June 2021 'Highway Nickel Deposit -Mineral Resource Estimate 92 million tonnes at 0.69% nickel and 0.038% cobalt'.
- 15 February 2021 'GNCP High Grade Resource -60 million tonnes at 1.0% nickel Sustainable Long-life Battery Metal Resource Confirmed'.

The Goongarrie Hub Mineral Resources shown in the adjacent table are inclusive of the Ore Reserves shown in this presentation.

KNP Global nickel and cobalt Mineral Resources based on a 0.5% Ni cut-off grade

					Contained	Contained
KNP Hub	Resource Category	Size (Tonnes)	Ni (%)	Co (%)	Ni (kt)	Co (kt)
Goongarrie Hub	Measured	18,200,000	0.94	0.085	171	15
	Indicated	276,500,000	0.70	0.046	1,923	127
	Inferred	289,300,000	0.67	0.037	1,951	108
	Sub Total	584,000,000	0.69	0.043	4,044	250
Kalpini Hub	Indicated	15,900,000	1.06	0.055	169	9
	Inferred	113,600,000	0.76	0.047	859	53
	Sub Total	129,500,000	0.79	0.048	1,028	62
Yerilla Hub	Measured	3,800,000	0.94	0.048	36	2
	Indicated	68,400,000	0.78	0.049	531	33
	Inferred	67,800,000	0.68	0.057	462	39
	Sub Total	140,000,000	0.73	0.053	1,028	74
	Measured	22,000,000	0.94	0.079	207	17
Kalgoorlie Nickel Project Total	Indicated	360,800,000	0.73	0.047	2,622	169
	Inferred	470,700,000	0.70	0.043	3,272	200
KNP	Grand Total	853,500,000	0.71	0.045	6,101	386



Appendix 2 continued

KNP Goongarrie Hub MRE

The Competent Persons (CP) for the Mineral Resources, are Mr Ian Buchhorn and Mr Andrew Penkethman, both are full-time employees of Ardea and consider the resource classification applied to the Goongarrie Hub resource models to reflect appropriate confidence in the input exploration data, geological interpretation and resource grade and tonnage estimates.

Various ASX market releases for the Mineral Resources described have been completed by Ardea, notably:

- 30 June 2023 'Kalgoorlie Nickel Project Mineral Resource Estimate Exceeds 6 Million Tonne Contained Nickel'.
- 16 June 2021 'Highway Nickel Deposit -Mineral Resource Estimate 92 million tonnes at 0.69% nickel and 0.038% cobalt'.
- 15 February 2021 'GNCP High Grade Resource -60 million tonnes at 1.0% nickel Sustainable Long-life Battery Metal Resource Confirmed'.

The Goongarrie Hub Mineral Resources shown in the adjacent table for the Goongarrie South, Highway, Goongarrie Hill, Big Four, Scotia Dam and Siberia North deposits are inclusive of the Ore Reserves shown in this presentation.

KNP Goongarrie Hub nickel and cobalt Mineral Resources based on a 0.5% Ni cut-off grade

Category Measured 18 0.94 0.085 171 15 LUC Ardea Inferred 10 0.64 0.033 61 3 LUC Ardea Inferred 10 0.64 0.033 61 3 LUC Ardea Inferred 10 0.69 0.038 487 27 LUC Ardea Inferred 10 0.67 0.04 141 8 LUC Ardea Inferred Inferred 21 0.67 0.04 141 8 LUC Ardea Inferred Indicated 40 0.65 0.037 259 15 LUC Ardea Inferred 29 0.6 0.025 176 7 LUC Ardea Inferred 29 0.6 0.025 176 7 LUC Ardea Inferred 14 0.68 0.043 96 6 LUC Ardea Inferred 14 0.68 0.043 96 6 LUC Ardea Inferred 14 0.68 0.043 96 6 LUC Ardea Inferred 15 0.72 0.043 37 2 LUC Ardea Inferred 5 0.72 0.043 37 2 LUC Ardea Inferred 18 0.94 0.085 171 15 Indicated Inferred 18 0.94 0.085 171 15 Inferred 19 0.65 0.037 823 47 Inferred 19 0.65 0.037 823 47 Inferred 19 0.65 0.037 823 47 Indicated 19 0.65 0.037 823 47 Inferred 10 0.65 0.037 823 47 Inferred 10 0.65 0.037 823 47 Inferred 10 0.65 0.033 525 27 OK Snowder Inferred 10 0.65 0.033 525 27 OK Snowder Inferred 10 0.69 0.044 2,753 175 Inferred 10 0.69 0.1 68 10 OK HGMC HGMC Inferred 10 0.69 0.1 68 10 OK HGMC HGMC Inferred 10 0.69 0.1 68 10 OK HGMC Inferred 163 0.69 0.038 1,127 61 Inferred 163 0.69 0.044 1,292 75 Inferred 163 0.69 0.044 1,	Prospect	Resource	Size	Ni	Со	Contain	ed Metal	E	Estimation De	tails
Indicated South Indicated South Indicated Inferred 10 0.64 0.033 61 3 LUC Ardea Inferred 10 0.64 0.033 61 3 LUC Ardea Indicated Inferred 21 0.67 0.04 141 8 LUC Ardea Inferred 21 0.67 0.04 141 8 LUC Ardea Inferred Inferred 47 0.66 0.042 312 20 OK Snowde Inferred 29 0.6 0.037 259 15 LUC Ardea Inferred 29 0.6 0.025 176 7 LUC Ardea Inferred 14 0.68 0.043 96 6 LUC Ardea Inferred 14 0.68 0.043 96 6 LUC Ardea Inferred 14 0.68 0.043 96 6 LUC Ardea Inferred 12 0.71 0.065 82 7 LUC Ardea Inferred 12 0.71 0.065 82 7 LUC Ardea Inferred 18 0.94 0.085 171 15 Indicated 16 Inferred 127 0.65 0.037 823 47 Combined 398 0.69 0.044 2,753 175 Siberia South* Inferred 14 0.72 0.042 102 6 Ni (UC), Co (OK) Snowde Siberia North Inferred 72 0.74 0.034 534 25 Ni (UC), Co (OK) Snowde Inferred 10 0.69 0.1 68 10 OK HGMC HGMC Inferred 163 0.69 0.038 1,127 61 Inferred 163 0.69 0.038 1,127 61 Inferred 163 0.69 0.044 1,292 75 Note - Mineral are not consider are not consider Inferred 18 0.94 0.085 171 15 Inferred 18 0.94 0.085 171 15 Inferred 18 0.94 0.085 171 15 Inferred 18 0.94 0.085 171 18 Inferred 18 0.94 0.085 171	Тоороос	Category	(Mt)	(%)	(%)	Ni (kt)	Co (kt)	Method	Source	Year
South Indicated South Indicated Inferred 10 0.64 0.033 61 3 LUC Ardea Inferred 10 0.64 0.033 61 3 LUC Ardea Inferred 21 0.67 0.04 141 8 LUC Ardea Inferred 21 0.67 0.04 141 8 LUC Ardea Inferred 47 0.66 0.042 312 20 OK Snowde Inferred 29 0.6 0.025 176 7 LUC Ardea Inferred 29 0.6 0.025 176 7 LUC Ardea Inferred 14 0.68 0.043 96 6 LUC Ardea Inferred 14 0.68 0.043 96 6 LUC Ardea Inferred 14 0.68 0.043 96 6 LUC Ardea Inferred 15 0.72 0.043 37 2 LUC Ardea Inferred 18 0.94 0.085 171 15 Inferred 19 Indicated 253 0.69 0.044 1,758 112 Inferred 127 0.65 0.037 823 47 Combined 398 0.69 0.044 2,753 175 Siberia South* Inferred 14 0.72 0.042 102 6 Co (OK) Snowde Inferred 14 0.72 0.042 102 6 Co (OK) Snowde Inferred 17 0.69 0.1 68 10 OK HGMC Inferred 163 0.69 0.038 1,127 61 Combined Inferred 163 0.69 0.038 1,127 61 Combined 186 0.69 0.04 1,292 75 Weasured 18 0.94 0.085 171 15 The inferred 163 0.69 0.044 1,292 75 The inferred 180 0.994 0.085 171 15 The inferred 180 0	`aanaaria	Measured	18	0.94	0.085	171	15	LUC	Ardea	2021
Inferred		Indicated	82	0.71	0.049	584	40	LUC	Ardea	2021
Inferred	Journ	Inferred	10	0.64	0.033	61	3	LUC	Ardea	2021
Inferred 21 0.67 0.04 141 8 LUC Ardea	liahway	Indicated	71	0.69	0.038	487	27	LUC	Ardea	2023
Indicated 40 0.65 0.037 259 15 LUC Ardea Inferred 29 0.6 0.025 176 7 LUC Ardea Inferred 14 0.68 0.043 96 6 LUC Ardea Inferred 14 0.68 0.043 96 6 LUC Ardea Inferred 14 0.68 0.043 96 6 LUC Ardea Inferred 15 0.72 0.043 37 2 LUC Ardea Inferred 15 0.72 0.043 37 2 LUC Ardea Inferred 18 0.94 0.085 171 15 Inferred 127 0.65 0.037 823 47 LUC Ardea Inferred 14 0.72 0.044 2.753 175 Inferred 15 Inferred 10 0.65 0.033 525 27 OK Snowde Inferred 14 0.72 0.042 102 6 Ni (UC), Co (OK) Ni (UC), Co (OK) Ni (UC), Co (OK) Inferred 10 0.69 0.1 68 10 OK HGMC Inferred 10 0.69 0.1 68 10 OK HGMC Inferred 163 0.69 0.038 1.127 61 Inferred 163 0.69 0.038 1.127 61 Inferred 163 0.69 0.04 1.292 75 Inferred 18 0.94 0.085 171 15 Inferred 15 Inferred 18 0.94 0.085 171 15 Inferred 171 Inferred	ligilway	Inferred	21	0.67	0.04	141	8	LUC	Ardea	2023
Inferred 29 0.6 0.025 176 7 LUC Ardea	Shost Rocks*	Inferred	47	0.66	0.042	312	20	OK	Snowden	2004
Interred 29 0.6 0.025 176 7 LUC Ardea	Cooperatio Lill	Indicated	40	0.65	0.037	259	15	LUC	Ardea	2021
Inferred	soongame mili	Inferred	29	0.6	0.025	176	7	LUC	Ardea	2021
Interred	ia Four	Indicated	49	0.71	0.047	346	23	LUC	Ardea	2021
Inferred	sig Four	Inferred	14	0.68	0.043	96	6	LUC	Ardea	2021
Measured 18 0.94 0.085 171 15 15 16 16 16 16 16 1	Saatia Dam	Indicated	12	0.71	0.065	82	7	LUC	Ardea	2021
Indicated 253 0.69 0.044 1,758 112 Inferred 127 0.65 0.037 823 47 Combined 398 0.69 0.044 2,753 175 Siberia South* Inferred 81 0.65 0.033 525 27 OK Snowde Siberia North Inferred 72 0.74 0.042 102 6 Ni (UC), Co (OK) Snowde Siberia North Inferred 72 0.74 0.034 534 25 Ni (UC), Co (OK) Snowde Siberia North Inferred 72 0.74 0.034 534 25 Ni (UC), Co (OK) Snowde Siberia North Inferred 10 0.69 0.1 68 10 OK HGMC Inferred 10 0.69 0.1 68 10 OK HGMC Inferred 163 0.69 0.038 1,127 61 Combined 186 0.69 0.04 1,292 75 *Note - Mineral are not consider	cotia Dam	Inferred	5	0.72	0.043	37	2	LUC	Ardea	2021
Inferred 127 0.65 0.037 823 47 Combined 398 0.69 0.044 2,753 175 Siberia South* Inferred 81 0.65 0.033 525 27 OK Snowde Siberia North Inferred 14 0.72 0.042 102 6 O O O O O O O O O O O O O O O O O		Measured	18	0.94	0.085	171	15			
Combined 398 0.69 0.044 2,753 175 Siberia South* Inferred 81 0.65 0.033 525 27 OK Snowde Indicated 14 0.72 0.042 102 6 Ni (UC), Co (OK) Snowde Siberia North Inferred 72 0.74 0.034 534 25 Ni (UC), Co (OK) Snowde Indicated 9 0.67 0.09 62 8 OK HGMC Inferred 10 0.69 0.1 68 10 OK HGMC Indicated 24 0.7 0.061 165 14 Inferred 163 0.69 0.038 1,127 61 Combined 186 0.69 0.04 1,292 75 Measured 18 0.94 0.085 171 15 *Note - Mineral are not consider	Goongarrie	Indicated	253	0.69	0.044	1,758	112			
Siberia South* Inferred 81 0.65 0.033 525 27 OK Snowder	Subtotal	Inferred	127	0.65	0.037	823	47			
Indicated 14 0.72 0.042 102 6 Ni (UC), Co (OK) Snowder (OK)		Combined	398	0.69	0.044	2,753	175			
Siberia North Indicated 14 0.72 0.042 102 6 Co (OK) Showder	Siberia South*	Inferred	81	0.65	0.033	525	27	OK	Snowden	2004
Inferred 72 0.74 0.034 534 25 Ni (UC), Co (OK) Snowder	Siboria North	Indicated	14	0.72	0.042	102	6		Snowden	2009
Inferred 10 0.69 0.1 68 10 OK HGMC	sideria ivortri	Inferred	72	0.74	0.034	534	25		Snowden	2009
Interred 10 0.69 0.1 68 10 OK HGMC	Neak Dange*	Indicated	9	0.67	0.09	62	8	OK	HGMC	2017
Inferred 163 0.69 0.038 1,127 61	black Ralige	Inferred	10	0.69	0.1	68	10	OK	HGMC	2017
Combined 186 0.69 0.04 1,292 75 Measured 18 0.94 0.085 171 15 *Note - Mineral are not consider		Indicated	24	0.7	0.061	165	14			
Measured 18 0.94 0.085 171 15 *Note - Mineral are not consider	Siberia Subtotal	Inferred	163	0.69	0.038	1,127	61			
Measured 18 0.94 0.085 171 15 are not consider		Combined	186	0.69	0.04	1,292	75	*** .	M: 15	
		Measured	18	0.94	0.085	171	15			
Goongarrie 177 0.7 0.040 1,923 127		Indicated	277	0.7	0.046	1,923	127	are no	t considered	in 2023 P

4.044

250

584

0.69

0.043

Combined

Hub TOTAL

rces that 2023 PFS.





Appendix 2 cont - KNP Goongarrie Hub Ore Reserve Summary

KNP Goongarrie Hub Ore Reserve Summary consisting of ore above 0.5% Ni as the feed stock for the processing facility, and ore as Mineralised Neutraliser above 0.5% Nieg and LOI above 25%

Notes:

- The Ore Reserve is reported in accordance with JORC Code 2012.
- Ore reserves are reported at a cut-off of 0.5% Ni for primary feed stock to the processing facility, plus mineralised neutraliser as ore at a cut-off of 0.5% Ni Equivalent (NiEq) and Loss on Ignition (LOI) above 25%.
- NiEq defined using Ni + 2.32 x Co. it is the company's opinion that all the elements included in the metal equivalents calculation have a reasonable potential to be recovered and sold.
- The Ore Reserve was evaluated using a base price of US\$22,000/t for Ni and US\$51,000/t for Co at 85% payable for a Mixed Hydroxide Precipitate (MHP) product, and an exchange rate 0.69 USD/AUD.
- · Ore Reserves account for mining dilution and mining ore loss.
- · Ore Reserves are reported on a Dry Tonnage Basis.
- Process Recovery AL 72% Ni and Co. HPAL direct feed and post beneficiation Ni 97% and direct feed and post beneficiation Co 97.4%. MN post beneficiation recoveries Ni 86.5% and Co 75.3%. Average beneficiation mass yield was 33.7%.
- Proven Ore Reserves are based on Measured Mineral Resources only and Probable Ore Reserves are based on Indicated Mineral Resources only.
- The sum of individual amounts may not equal due to rounding.
- This Ore Reserve estimate is for a subset of the KNP Goongarrie Hub deposits being Goongarrie South, Big Four / Scotia Dam, Goongarrie Hill, Highway and Siberia North.
- The Ore Reserve Summary was detailed in ARL ASX PFS Announcement, 5 July 2023.
- Minor discrepancies may occur due to rounding of appropriate significant figures.
- The Goongarrie Hub Mineral Resources shown in the prior slide for the Goongarrie South, Highway, Goongarrie Hill, Big Four, Scotia Dam and Siberia North deposits are inclusive of the Ore Reserves shown in this presentation.

	Ore >= 0.5% Ni					Ore > 0.5% NiEq and LOI > 25%				Total Ore					
Deposit	Mt	Ni %	Co %	Ni kt	Co kt	Mt	Ni %	Co %	Ni kt	Co kt	Mt	Ni %	Co %	Ni kt	Co kt
Proven	Proven														
Goongarrie South	16.7	0.96	0.09	160	15	0.05	0.43	0.03	0.20	0.01	16.7	0.96	0.09	160	15
Sub-total	16.7	0.96	0.09	160	15	0.05	0.43	0.03	0.20	0.01	16.7	0.96	0.09	160	15
Probable	Probable														
Big Four/Scotia Dam	34.9	0.76	0.07	265	23	0.8	0.38	0.04	3	0	35.7	0.75	0.06	268	23
Goongarrie South	33.6	0.79	0.07	265	23	1.8	0.40	0.03	7	1	35.4	0.77	0.07	272	24
Goongarrie Hill	15.8	0.70	0.04	110	7	0.1	0.44	0.02	0	0	15.9	0.70	0.04	111	7
Highway	54.0	0.70	0.04	380	22	27.2	0.39	0.01	106	4	81.2	0.60	0.03	486	26
Siberia North	9.2	0.74	0.05	68	4	-	-	-	-	-	9.2	0.74	0.05	68	4
Sub-total	147.4	0.74	0.05	1,087	79	29.9	0.39	0.02	117	5	177.4	0.68	0.05	1,204	84
PROVEN AND I	PROBABL	E TOTAL													
Big Four/Scotia Dam	34.9	0.76	0.07	265	23	0.8	0.38	0.04	3	0	35.7	0.75	0.06	268	23
Goongarrie South	50.2	0.85	0.08	425	38	1.9	0.40	0.03	7	1	52.1	0.83	0.07	432	39
Goongarrie Hill	15.8	0.70	0.04	110	7	0.1	0.44	0.02	0	0	15.9	0.70	0.04	111	7
Highway	54.0	0.70	0.04	380	22	27.2	0.39	0.01	106	4	81.2	0.60	0.03	486	26
Siberia North	9.2	0.74	0.05	68	4	-	-	-	-	-	9.2	0.74	0.05	68	4
TOTAL	164.1	0.76	0.06	1,247	94	30.0	0.39	0.02	117	5	194.1	0.70	0.05	1,365	99

Appendix 3 - PFS Key Financial Metrics

PFS defines > 40-year operation with strong financial metrics¹:

- Pre-tax NPV₇ of A\$7,625M (IRR 30%)
- Post-tax NPV₇ of **A\$4,980M** (IRR 23%)
- Average Annual EBITDA of A\$800M
- Project pay back within 3.1 years
- Low cost after Cobalt credit of US\$5,763/t Ni in MHP LOM
- See 5 July 2023 ARL PFS ASX Announcement.
- Post tax.
- From start of operation.

NB: Project MRE, Ore Reserve, Production, Operation and Financial numbers are being updated as part of the in-progress DFS

Financials			
Nickel Revenue	A\$ M	44,429	
Cobalt Revenue	A\$ M	7,880	
Revenue - combined	A\$ M	52,309	
EBITDA LOM	A\$ M	34,217	
EBITDA Annual (average)	A\$ M	800	
EBITDA margin	%	65%	
Net Cash Flow (Pre-tax)	A\$ M	31,100	
Valuation			
Net Present Value (NPV ₇) ²	A\$ M	4,980	
Internal Rate of Return (IRR) ²	%	23%	
Total Capital Payback ³	years	3.1	
Assumptions			
Exchange rate	AUD:USD	0.67	
Nickel Price	US\$/t	25,000	
Cobalt Price	US\$/t	60,000	

ASX:AR

Appendix 3 continued - PFS 2023 Capital Cost Estimate

KNP – Goongarrie Hub

- Contingency considered appropriate to the level of the capital cost estimate has been included
- Base date March 2023
- Refer to 5 July 2023 ARL PFS ASX Announcement for full details and Reasonable Basis Statement

Preproduction Cost Category	Costs (A\$)
Mining – overheads, mobilisation, pre-strip and other	98M
Process plant & infrastructure	2,264M
Sulphuric acid, steam and power plant	574M
Borefield	181M
Total Capital Cost ¹	3,117M

Ardea 5 July 2023 PFS capital cost estimate based on a 3.5Mtpa processing operation consisting of x2, 1.5Mtpa HPAL autoclaves and a 0.5Mtpa Atmospheric leach circuit.





Appendix 3 continued - DFS Key Budget Items

The Consortium (SMM and MC) will fund 100% of the KNP Goongarrie Hub DFS costs, up to the agreed budget of A\$98.5 million

DFS Cost Centre	Costs (A\$)
Drilling	13.4M
Metallurgical Test Work	2.3M
Mine Design (incl dewatering & geotechnical)	15.0M
Process Plant Design	28.3M
Buildings and Camp Design	5.3M
Approvals	4.9M
Staff, Corporate and Other	26.2M
Other Expert Consultants	1.5M
Tenement Costs	1.6M
DFS Total Budget	98.5M



Appendix 3 cont – KNP Goongarrie Hub Superior HPAL Intensity

- ✓ Good ore grade + good slurry density = Lower Capex & Opex \$\$
- ✓ Atmospheric leach = stable operation, utilizes saprolite resource
- ✓ MHP & MSP Product = known technology & good market acceptance



Operating data from Australian HPAL Producers

Performance Driver	Ardea	Bulong#	Cawse#	Murrin	RNO^	Metric	Ardea Rank	Comment
Atmospheric Leach	Yes	No	No	No	Yes	-	#1	Stable operation and full resource utilisation
HPAL Feed Density	45%	31%	35%	38%	42%	% Solids	#1	The higher the better = Maximises plant throughput
Residence Time	70*	75	105	90	60	minutes	#2	The lower the better = Maximises plant throughput
Slurry Grade Ni	7.55	2.89	3.07	3.87	7.39	Ni kg/m3	#1	The higher the better = Increased revenue stream
Slurry Grade Co	0.59	0.23	0.24	0.34	0.31	Co kg/m3	#1	The higher the better = Strategic Co-Product credits

Data Sources: Ardea – Goongarrie Hub testwork results from PFS and Expansion Study, ASX release 28 March 2018 & Goongarrie Expansion Study, 24 July 2018 and ongoing project assessment as part of completing the DFS. Bulong, Cawse, Murrin - ALTA 1999, An Engineering Comparison of the Three Treatment Flowsheets In WA Nickel Laterite Projects. RNO – ALTA 2001, Observations from the RNO Pilot Plant at Lakefield Research. 2000 AD.



[^]Ravensthorpe Nickel Operation (RNO) figures based on design numbers on upgraded beneficiated ore from the Halleys Deposit which has since been mined out. #Bulong & Cawse – care and maintenance

Ardea data is based on non-beneficiated material (with always an option to beneficiate selected KNP geo-met types, notably at Highway & Goongarrie Hill).

^{*}Goongarrie Hub DFS to assess reduction in Ardea residence time from 70 minutes to 60 minutes. Residence time 45 minutes estimated in Goongarrie Expansion Study (ASX announcement 24 July 2018)

ASX:ARL



25 years of Goongarrie Hub stakeholder engagement and ore body knowledge



Prelisting

2009 \$34.5M PFS for KNP by Vale-Inco. Provided invaluable data to help expedite Ardea feasibility studies

Transfer of KNP to ARL 2017

Ardea

KNP tenure and extensive technical database breathes new life in Ardea

Feb - ARL lists on ASX

2018

Positive 2018 1 5Mtna PFS and 2.25Mtpa Expansion Study for KNP Goongarrie Hub.

> Ardea pilot plant produces quality specification nickel and cobalt sulphate.

National & global significance of **KNP** enhanced

2019

NSW projects divested via Godolphin IPO - free in-specie shares to eligible shareholders.

> Study streams and approvals continue for priority KNP

Ardea's divestment strategy benefits KNP and Shareholders

2020

KNP Flowsheet is developed and optimised.

Nickel sulphide and gold targets at KNP and other tenements.

> Divestment on noncore tenements through JV.

KNP flowsheet work.+ successful NiS & Au exploration

2021

Update to Goongarrie Hub high grade Ni and Co resource.

Engagement with potential Strategic Partners.

Ni sulphide discovery confirmed at Fmu Lake

Gold projects divested via KalGold Mining IPO - free in-specie shares to eligible shareholders

KNP Goongarrie Hub work pace increases, update for KNP Mineral Resource. Emu Lake NiS discovery

2022 - 2023

Awarded Major Project Status.

Metallurgical testwork provides material type process pathways. Mineralised Neutraliser concept confirmed and patent lodged.

KNP Goongarrie Hub PFS 3.5Mtpa base case including updated Ore Reserve, defines large scale, long life, and low cost Ni-Co operation.

Strategic Partner search narrows to quality Japanese Consortium.

KNP MRE increases and KNP Goongarrie Hub PFS 3.5Mtpa base case indicates >40year mine life Non-binding MOU with Japanese Consortium confirms global status 2024

April 2024, Cooperation Agreement with Consortium

of SMM and MC signed and DFS underway with Soft Start.

August 2024, all CPs met with Shareholder Agreement signed, the adopted A\$98.5M **DFS Program & Budget** now in full swing, under banner of KNPL, with support from ARL, SMM and MC.

DFS underway with quality international partners



KALGOORLIE

KNP Mineral Resource

773Mt @ 0.70% Ni and 0.05% Co









854Mt @ 0.71% Ni and 0.045% Co

Update in Progress as part of Definitive Feasibility Study (DFS)



