



ASX & Media Release

23 September 2021

ASX Symbol

ARL

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Directors

Mat Longworth
Non-Executive Chair

Andrew Penkethman
Managing Director & CEO

lan Buchhorn Technical Executive Director

Executive Management

Sam Middlemas
Company Secretary & CFO

Issued Capital

Fully Paid Ordinary Shares 138,034,219

Directors/Employee Performance Rights 4,667,000

ABN 30 614 289 342

Kalgoorlie Gold Mining IPO Investor Presentation

Ardea Resources Limited (Ardea) (ASX: ARL) is pleased to release the attached presentation prepared by wholly owned subsidiary Kalgoorlie Gold Mining Limited (KalGold) on the demerger and Initial Public Offer (IPO) of its gold exploration assets in Western Australia.

This announcement has been authorised for release by the Board.

For further information regarding Ardea and KalGold, please visit www.ardearesources.com.au/ and www.kalgoldmining.com.au or contact:

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Matt Painter

Managing Director and CEO Kalgoorlie Gold Mining Tel +61 8 6244 5136







Investor Presentation

September 2021

Kalgoorlie Gold Mining IPO (ASX: KAL)

Discovery and development of gold resources in the Eastern Goldfields of Western Australia

Matt Painter
Managing Director and Chief Executive Officer

Disclaimer and Forward Looking Statement



This presentation has been prepared by Ardea Resources Limited (Company). It contains general background information only which is current at the date of this presentation unless otherwise specified. It contains selected summary information and does not purport to be all-inclusive, comprehensive or to contain all of the information that may be relevant, or which a prospective investor may require in evaluations for a possible investment in the Company or Kalgoorlie Gold Mining Limited (KalGold). Prospective investors should not rely on the information contained in this presentation, and must satisfy themselves as to the accuracy of all such information. This presentation has been prepared based on information available at the time of preparation and is subject to change without notice. In receiving this presentation, each recipient agrees to the foregoing terms and conditions, including any modifications to them. No person is under any obligation to update this presentation at any time after its release.

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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.

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

All assays, intercepts, and images of gold are published by Ardea Resources Limited in their announcement dated 24 August 2021. See Table 1 for full details. As at the date of this presentation, Kalgoorlie Gold Mining Limited is a wholly owned subsidiary of Ardea.

Competent Person Statement

The Information in this Presentation that relates to Exploration Targets or Exploration Results is extracted from the KalGold Prospectus (available at www.kalqoldmining.com.au) and from the Company's announcement on 24 August 2021 re the spin-out of its Kalgoorlie-based gold assets.

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 that all material assumptions and technical parameters underpinning the estimates or production targets or forecast financial information derived from a production target (as applicable) 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.

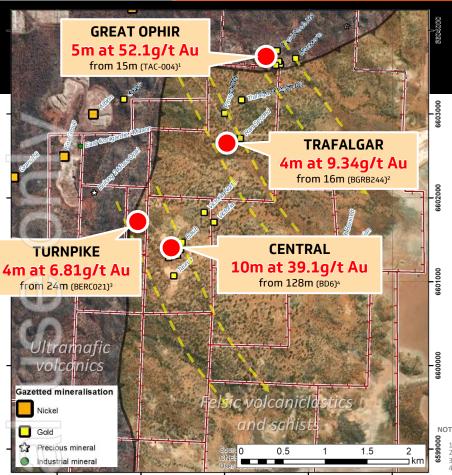


Introducing 'KalGold'



Historic results to build on...





Lead project:

Bulong Taurus Gold

- High-grade, shallow gold mineralisation with depth continuation.
- Not drilled since the 1990s.
- Immediate drilling to confirm historic intercepts, with rapid upgrade to JORC resource status.
- Active 3rd party gold prospectors, assisting resource targeting.
- Located only 30mins east of Kalgoorlie.

NOTE: Historic drill hole assay results sourced from DMIRS, WAMEX Open File reports. For all results, see ARL announcement 24 August 2021 for all background data and Table 1.

- TAC-004, 5m at 52.1g/t Au from 15m, in Turley 1997 (A52660), Talon Resources NL Taurus Project, Annual Report for the year ending 13 Sept 1997.
 BGRB244, 4m at 9.34g/t Au from 16m, in Archer and Morton 1997 (A51401), Goldfields Exploration Bulong Annual Report 1997.
- BERC021, 4m at 6.81g/t Au from 24m, in Brock 2013 (A97363), Southern Gold Limited, Bulong East Project Annual Report 1 Jan 2012 to 31 Dec 2012.
 BD6, 10m at 39.1g/t Au from 128m, screened fire assay, in Mazzuchelli 1994 (A41478), Manor Resources NL, Bulong Gold Project Annual Report 1 Jan 210 per 1993.

...and new findings.





Lead project:

Bulong Taurus Gold

- Active prospectors' workings* at Turnpike continue to produce gold.
- Metal-detected nuggets recovered in June 2021 (dish field of view 20cm).
- Delicate "filigree" gold morphology indicates proximal source: a nearby reef buried beneath a veneer of eluvials?

Eluvial gold collected from central P25/2295, June 2021. NOTE: KalGold does not own the rights to alluvial or eluvial gold at Taurus. These are presently being worked by a third party. These ongoing works provide valuable information regarding the distributions of gold beneath transported materials. Source: Ardea Resources Limited announcement 24 August 2021.

Proposed Capital Structure*

- KalGold IPO to raise up to \$12 million before costs.
- 84 to 109 million shares on offer post raising.
- Significant funds to achieve major milestones.
 - Maximum raise moves towards production by confirming and expanding historic results.
- Post-listing Loyalty Options[^] to all KalGold shareholders:
 - 1:3 free attaching
 - To be issued at ~4 months from IPO
- Prospectus issued 17 Sept 2021
- Trading on ASX by mid Nov 2021 (subject to approvals)
- amicaa and MST Joint Lead Managers.

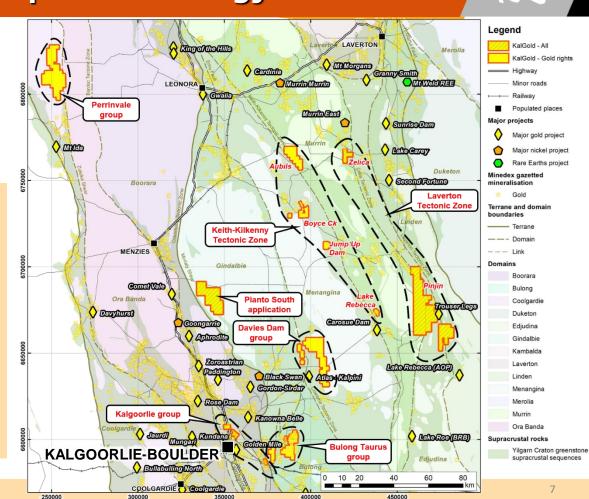
Key Details of the Offers	Minimum raise \$7 million	Maximum raise \$12 million
Existing Shares	100	100
Shares to be issued under the offer (\$0.20 per Share)	35,000,000	60,000,000
In-specie Shares to Ardea holders	35,000,000	35,000,000
Bulong Taurus and Ninga Mia Consideration Shares	5,000,000	5,000,000
Ardea Retained Shares	9,000,000	9,000,000
Shares on issue under the offer	84,000,100	109,000,100
Market Capitalisation (post-listing)	\$16,800,020	\$21,800,020
Cash (post-listing)	\$5,780,000	\$10,480,000
Enterprise Value (post-listing)	\$11,020,020	\$11,320,020
Consideration Options (retained by Ardea)#	15,000,000	
Joint Lead Manager Options#	Up to 3,000,000	
Director and Employee Options#	3,000,000	
Total Options on completion of IPO#	21,000,000	
Loyalty Options (issued ~4 mths post-listing)	28,000,033	36,333,366
Fully diluted Share capital	133,000,133	166,333,466

Discovery and Development Strategy



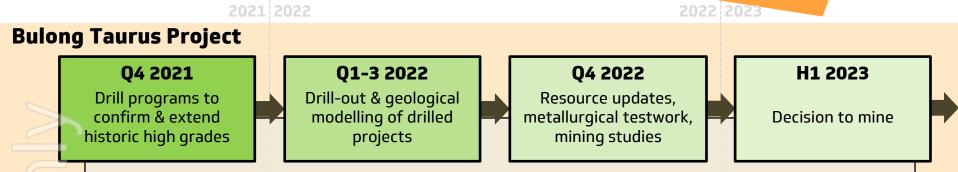
KalGold will utilise its considerable expertise to accelerate discovery and development of gold resources near Kalgoorlie-Boulder, with fast-tracked progression to mining.

- 1. Bulong Taurus Gold Project
 - resource definition, development, and production
- 2. Keith Kilkenny Tectonic Zone
 - advanced exploration
- 3. Laverton Tectonic Zone
 - advanced exploration
- 4. Regional Projects
 - target generation



Exciting Near-Term News Flow





- Geological confirmation through drilling, mapping and validation, and reappraisal of historic drill results at Great Ophir,
 Central, Turnpike, and others
- Remodelling of gold mineralisation, development of JORC resources, metallurgical testwork, mining studies and decision to mine

Other projects

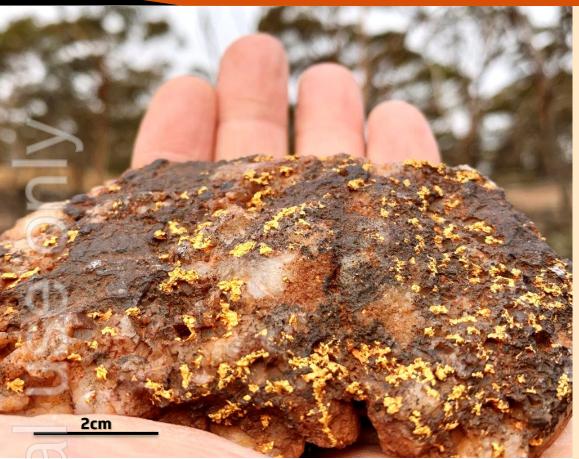
Ongoing assessment through mapping, interpretation, targeting, drilling

- Collation, digitisation, and modelling of historic data
- Target generation
- Confirmation and resource definition drilling

The above timelines are indicative only and are subject to change.

BULONG TAURUS GOLD PROJECT





- Lead project mined by prospectors since 1890s
- Tenure continuity at the Taurus gold mining centre (first time in decades)
- Gold Rights on 39 tenements (M:9, E:1, P:29), all in good standing
- 35km east of Kalgoorlie on sealed and gravel roads
- Prospects include:
 Great Ophir, Central, Fremantle,
 Turnpike and Trafalgar

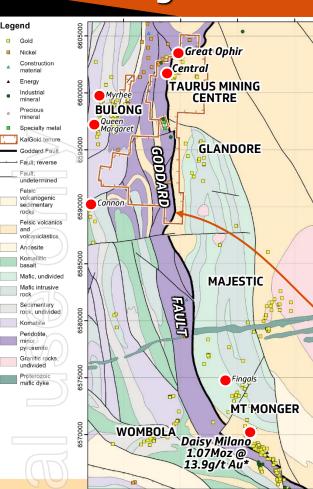
Bulong Taurus – Gold-Fertile Structures



leined, mineralised and

structure at Great Ophir

oxidised subordinate



KalGold's lead project brings **outstanding opportunity** and pedigree to **surface and near-surface high-grade gold** near Kalgoorlie.



- Connects to the **Daisy Milano** mine, Mt Monger;
- Major control on **Taurus**, **Glandore**, and **Mt Monger** mining centres;
- Subordinate structures that branch off the Goddard Fault are preferentially mineralised

Exploring Gold Rush Mining Centres

- Taurus Gold Mining Centre and battery: established 1896.
 Almost continuous mining by prospectors since.
- Sheeted vein complex at Central, Great Ophir, and other prospects*
 - Intense bleaching and pyritic vein selvages
 - Locally coarse gold results in **high grade**assay results
- Vein array complexes provide high ounce-pervertical-metre potential

Great Ophir gold mine Production to 2021				
Mined (t)	Grade (g/t Au)	Production (oz)		
4,530	13.5	~1,960		

Source: Independent Technical Assessment Report (Kalgoorlie Gold Mining Limited), Cube Consulting, 2021



The open slot and adit to underground workings at Great Ophir, showing the steep southerly dip of mineralisation (looking west-southwest). All rocks are pervasively altered and veined, and contain common sulphides.

Near-Surface High-Grade Gold at Great Ophir





High-grade intercepts were not followed up during 1990s drill programs:

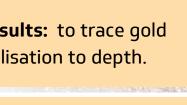
- ~90% ineffective (too shallow & mine cavities)
- Most holes targeted shallow alluvial gold
- Mineralisation open in all directions

GREAT OPHIR DRILL PROGRAM

Aim: to confirm shallow, high-grade gold mineralisation

Method: inexpensive, shallow (<60m depth) RC drill holes

Expected results: to trace gold mineralisation to depth.





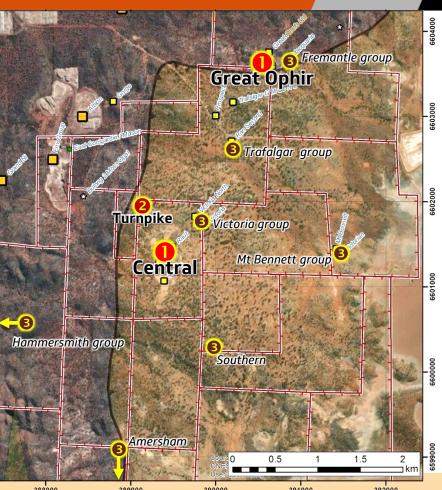
Bulong Taurus – Work Programs



Programs designed, PoWs in place, rigs booked to drill

At **Great Ophir** and **Central**, a fast-tracked **initial JORC resource** will incorporate historic results (where possible), followed by feasibility and potential development.

	Great Ophir	Central	Turnpike	Other targets
PRIORITY	0	0	2	3
Prospecting and mining				
Historic workings (1890-1930)	\checkmark	\checkmark	\checkmark	\checkmark
Recent eluvial finds (since 2015)	\checkmark		√	✓
Work programs				
RC drilling to confirm historic results	\checkmark	\checkmark	\checkmark	
Diamond drilling to define controls on mineralisation	\checkmark	\checkmark	\checkmark	
RC drilling to define/extend deposit footprint	\checkmark	\checkmark	\checkmark	
Field mapping and sampling	\checkmark	\checkmark	\checkmark	\checkmark



LAVERTON TECTONIC ZONE PROJECT





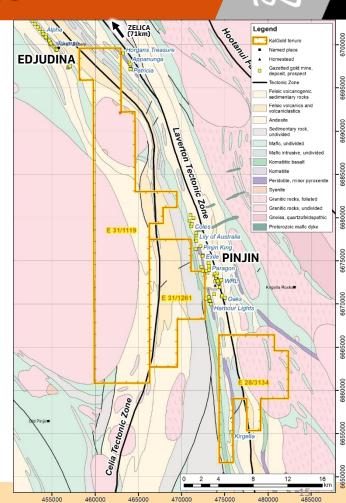
- Recent prospecting success suggests good potential beneath cover
- Numerous structural targets to test
- All Mineral Rights on 4 tenements
 (E:4), 3 of these pending
- 130km northeast of Kalgoorlie on sealed and gravel roads
- Prospects include:
 Zelica South, Bar Twenty,
 several new prospectors' workings

Laverton Tectonic Zone – Pinjin West

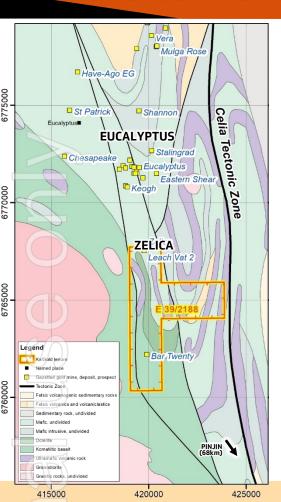


Laverton Tectonic Zone (and Celia TZ)

- Southern extent of the LTZ trending south from Laverton and Lancefield Gold Mining Centres, to Wallaby and Sunrise Dam
- Tenements and applications are adjacent to the historic Pinjin and Edjudina Gold Mining Centres
- Major shears, major contacts, numerous structural targets under a thin veneer of cover. Little exploration over most targets
- Recent resources and exploration adjacent to KalGold's tenure
 - Indicated and Inferred Resources* at Anglo Saxon/Trouser
 Legs (2km east)
 - Targets south along strike from Edjudina undrilled.
 - Targets along strike from Apollo's Lake Rebecca gold discovery.



Laverton Tectonic Zone – Zelica South



- South of main Eucalyptus mining centre
- Folds and second-order faults next to the Celia TZ provide numerous targets
- Numerous gold deposits:
 - Zelica (excised) contains 577,000t at 1.63g/t
 Au for >30koz (WAMEX A98026, Exterra
 Resources, 2013). Targeting southern
 extensions.
 - Targets south along strike from Zelica open cut gold mine undrilled.



KEITH-KILKENNY TECTONIC ZONE PROJECT

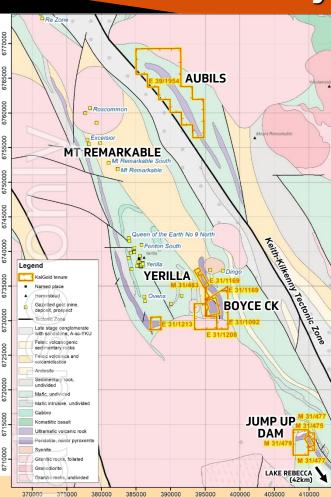




- Not explored for gold in decades
- Inexpensive, targeted re-assaying of archived nickel laterite pulps to lead gold exploration program
- Gold Rights on 14 tenements
 (M:6, E:5, P:3), 2 Ms pending
- 135km NNE of Kalgoorlie on sealed and gravel roads
- Mining centres:
 Aubils, Yerilla, Boyce Creek, Jump
 Up Dam, Lake Rebecca

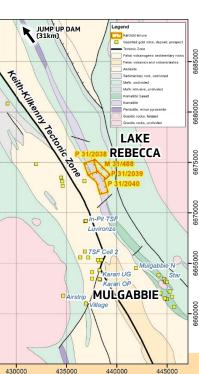
Keith-Kilkenny Tectonic Zone Project





Gold-fertile Keith-Kilkenny Tectonic Zone is host to Apollo Hill, Carosue Dam, Mulgabbie, and the Breaker Resources Lake Roe discovery.

- Cost effective exploration from projects untested for gold (historic nickel focus).
 - Geological reinterpretation and targeting underway
 - Re-assay of archived nickel laterite pulps
 - Successful gold discovery programs to be replicated (Ardea's Goongarrie nickel deposits)
- Aubils
 - Targeting underway, focussed on secondary structures associated with the Keith-Kilkenny Tectonic Zone.
- Boyce Ck + Jump Up Dam
 - Alluvial gold at Boyce Creek
 - 9.8g/t Au in RAB hole* adjacent to tenure
- Lake Rebecca
 - Adjacent historic gold workings
 - 13m at 1.2g/t Au* adjacent to tenure



KALGOORLIE PROJECT

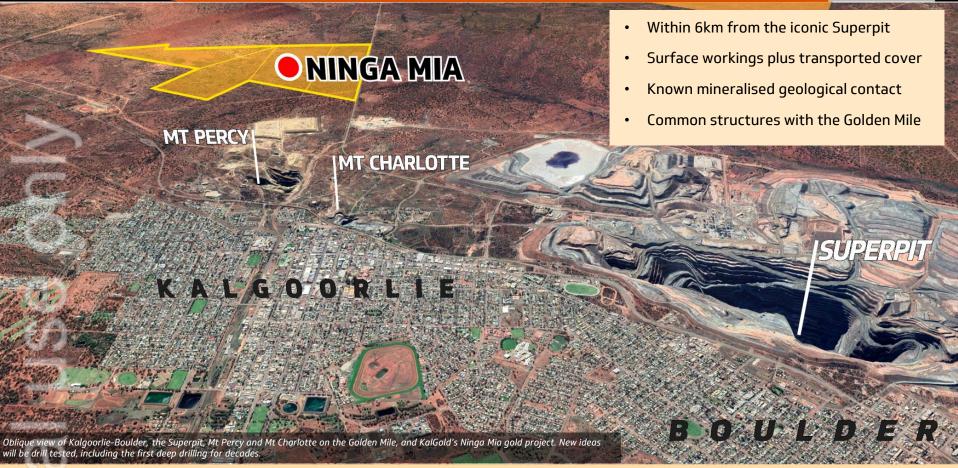




- Projects overlooked and poorly
 assessed despite neighbouring one of
 the richest patches of ground on Earth
- New interpretations are defining new targets within walking distance of town
- Gold Rights on 7 tenements (E:1, P:6),
 1 E and 3 Ps pending
- Adjacent to Kalgoorlie on sealed and gravel roads
- Gold mining centres:
 Kalgoorlie, Gidji, Boorara

On the Golden Mile – the Ninga Mia Gold Prospect



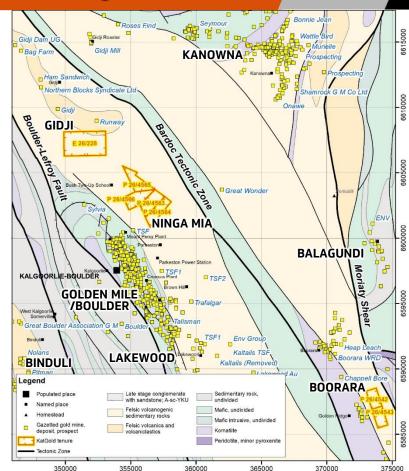


Gold potential at the Kalgoorlie Project



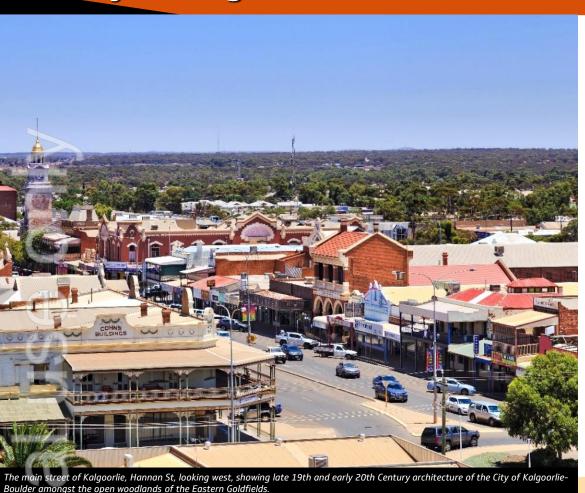


- Adjacent to the gold-controlling Boulder-Lefroy Fault and the Bardoc Tectonic Zone.
- **Ninga Mia** project neighbours the Golden Mile, within 6 km of the KCGM Superpit.
 - Numerous surface workings, gold "specking"
 site
 - Named, mineralised, Golden Mile structures evident in geophysics.
 - Outcrop shows common gold indicators including strong bleaching, ankerite-sericite & fuchsite alteration, zoned quartz veining, & iron oxide gossanous material
 - Historic anomalism not followed up
 - KCGM Two-Up deposit (off-tenure) strike extensions not tested.



City of Kalgoorlie-Boulder





Kalgoorlie-Boulder is WA's golden heart. It is a centre of world-class infrastructure in an established and prolific mining district:

- Established in the 1890s gold rush
- Lowest sovereign risk
- World-leading workplace practices enshrined in law
- All KalGold projects within
 2.5 hrs drive, most within 1 hr
- Gas pipeline services to major projects

We've done it before – and will do it again





Drilling the discovery hole (13 May 2020) at the buried Lily Albany gold prospect at Ardea's KNP Goongarrie nickel laterite hub. The team that generated the target and discovered this prospect (and many others) will now focus on gold at Bulong Taurus and at and around the many other nickel laterites throughout the Eastern Goldfields.

The **KalGold team** was responsible for a **flurry of gold discoveries** within the footprint of Ardea's KNP Goongarrie nickel hub and granted mining licences.

The team has developed a **scientifically robust gold target generation technique**, **utilising**:

- Major fault systems and interconnected fault networks
- Prone and indicator rock types
- Cyclicity
- Geochemistry and geophysics

Discovery opportunities arise where these features interact with:

- Limited, ineffective, or zero historic exploration
- Extensive (though not necessarily deep) transported cover.

Ongoing target generation has already identified areas of interest through first-pass investigations. These all require testing.

Board & Management













Pauline Gately - Chair (Non-Exec)

Ms Gately is an accomplished investment strategist and seasoned director with experience across a portfolio of Board positions. Pauline brings a sharp commercial focus to strategy underpinned by 20-years investment banking experience. Her experience within the resources sector spans acquisitions, exploration, and project development through to production.

Matt Painter - Managing Director and Chief Executive Officer

Dr Painter is a geologist with over 25 years' experience in the mining industry with groups including Ardea Resources, AngloGold Ashanti, and the Geological Survey of Western Australia. He has worked globally on gold mining, development and exploration projects. Dr Painter was the founding MD of Ardea Resources, overseeing delivery of the pre-feasibility study on the Goongarrie nickel-cobalt laterite project before stepping back to a technical role, targeting and defining a string of gold discoveries.

Carmel McKenzie – Non-Executive Director

Ms McKenzie is a practicing lawyer with mining law focus and principal of legal firm, McKenzie & McKenzie based in Kalgoorlie-Boulder. Ms McKenzie has been advising exploration and mining companies in legal matters for over 25 years.

Andrew Penkethman – Non-Executive Director

Mr Penkethman is a geologist with more than 25 years' technical and corporate experience with a number of listed public companies from exploration through to discovery, feasibility study management, development and operations within Australia and overseas. Mr Penkethman is the current Managing Director and CEO of Ardea and is Ardea's nominee director in KalGold.

Scott Herrmann – Exploration Manager

Mr Herrmann is a geologist with 20 years' experience in exploration, resource development and production roles across a range of different commodities. Mr Herrmann was most recently Senior Project Geologist with an ASX listed WA gold producer with operations located northwest of Kalgoorlie.

The Management Team will be assisted part-time on a cost-reimbursement basis by Ardea Executive Director Ian Buchhorn (two decades of Kalgoorlie gold experience as a Registered Mine Manager and providing contract grade control, as well as three terms as an elected member on the City of Kalgoorlie Boulder council).

Data Base Management and Tenement Management will be a 50:50 shared arrangement with Ardea's DBM and Tenement Manager whose expertise with the KNP data base and tenements is exceptional.

In terms of office location and in view of the initial KalGold exploration focussing on the KNP drill pulp archives and follow-up field work, KalGold will initially share office/warehouse facilities with Ardea's existing West Kalgoorlie operation.

IPO Transaction Structure



- Minimum raise of \$7.0 million enables portfolio-wide exploration to target and define gold mineralisation
- Maximum raise of \$12.0 million facilitates more extensive exploration of all projects, and
 - Feasibility Study for the Bulong Taurus Gold Project*,
 - Potential development at
 Bulong Taurus*, progressing
 the project towards production.

Sources and Uses of Funds	Minimum Su A\$	bscription %	Maximum Sub A\$	scription %
Total funds raised from the Offer	7,000,000	100.0%	12,000,000	100.0%
Allocation of Funds				
Repayment Ardea IPO direct costs	700,000	8.6%	700,000	5.8%
Payment to unrelated vendor	100,000	1.4%	100,000	0.8%
Fees of the Offer	420,000	6.0%	720,000	6.0%
On-ground exploration and drill-outs Bulong Taurus	4,780,000	68.3%	9,480,000	79.0%
Exploration, resource drill-out / estimation	2,390,000	34.1%	2,990,000	24.9%
Feasibility study	-	-	2,500,000	20.8%
Commence development	-	-	1,000,000	8.3%
Laverton Tectonic Zone (exploration)	717,000	10.2%	897,000	7.5%
Keith-Kilkenny Tectonic Zone (exploration)	717,000	10.2%	897,000	7.5%
Other projects (Perrinvale, Kalgoorlie, Pianto South, Davies Dam)	956,000	13.7%	1,196,000	10.0%
Overheads + holding costs	1,000,000	14.3%	1,000,000	8.3%
Total	\$7,000,000	100.0%	\$12,000,000	100%

Indicative IPO Timetable



Event Date	2
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Lodgement of Prospectus with ASIC

Opening Date of the Offers

Priority Offer Closing Date

General Offer Closing Date

Effective Date of Distribution

Issue of Shares under the Prospectus

Despatch of holding statements

Shares commence trading on ASX

17 September 2021

25 September 2021

8 October 2021

26 October 2021

29 October 2021

2 November 2021

3 November 2021

12 November 2021









Note: This timetable is indicative only, and may change. The Company reserves the right to extend the Closing Date or close the Offers early without notice, in its absolute discretion. Quotation of Shares on ASX is at the discretion of ASX and is subject to the Company satisfying the listing requirements of ASX.



L-R: Quartz vein rubble from Bulong Taurus. Eluvial gold recovered from near the Turnpike workings (Source: Ardea Resources Limited announcement 24 August 2021). Geological analysis in the field. Geophysical and gold datasets used in gold targeting at Bulong Taurus.

KalGold Investment Proposition

Regional portfolio

KalGold has an asset portfolio of **highly prospective gold tenements** in the gold-producing **Kalgoorlie region** of Western Australia, with 1077km² of tenure within 150km of Australia's premier gold destination, the City of Kalgoorlie-Boulder.

World-leading location

- KalGold's portfolio is **strategically located** along the same geological structures that host many of Australia's largest low-cost producing gold mines, notably the Golden Mile/Paddington gold mining centres (Bardoc Tectonic Zone), Carosue Dam (Keith Kilkenny Tectonic Zone) and Sunrise Dam (Laverton Tectonic Zone).
- Projects are strategically located, in proximity to key infrastructure
- All projects are in **established, mine-friendly regions** with an **accessible** and **experienced workforce**.

Proven team

- Western Australian and international gold discovery success.
- Demonstrated methodology for discovering hidden gold mineralisation.



Kalgoorlie Gold Mining Limited



Applications to partake in the KalGold IPO

Applications can be made online via the Automic website from **25 September 2021**.

- Select Investors (including all ARL shareholders as at 17 September 2021) are eligible to apply through the Priority Offer by clicking here.
- All other investors can apply through the General Offer by clicking here.

For more information, please visit <u>www.kalgoldmining.com.au</u> or call the numbers below.

Matt Painter

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Graeme Smith

Company Secretary T: +61 408 447 493

E: info@kalgoldmining.com.au

