

## CORPORATE PRESENTATION NOVEMBER 2023

ASX:ARV | AIM:ARV | FRA:ATY | USOTC:ARTTF

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The information in this report that relates to Exploration Results and Exploration Targets complies with the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves ("The JORC Code") and has been compiled under the supervision of Mr Luke Meter MAIG MAUSIMM. Mr Meter is Exploration Manager, and an employee of Artemis Resources Ltd. Mr Meter has sufficient experience relevant to the styles of mineralisation and type of deposits under consideration and to the activity being undertaken to qualify as a Competent Person as defined in The JORC Code. Mr Meter consents to the inclusion in the report of the matters based on this information in the form and context in which it appears.

The information in this report that relates to Mineral Resources complies with the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves ("The JORC Code") and has been compiled and assessed under the supervision of Ms Janice Graham MAusIMM MAIG and Dr Simon Dominy FAusIMM(CPGeo) FAIG(RPGeo) FAIG(RPGeo) FAIG(RPGeo). Ms Graham is an employee of Snowden Optiro. Dr Dominy is an Non-Executive Director of Artemis Resources Ltd. Ms Graham and Dr Dominy have sufficient experience relevant to the styles of mineralisation and type of deposits under consideration and to the activity being undertaken to individually qualify as a Competent Person as defined in The JORC Code. Ms Graham and Dr Dominy consent to the inclusion in the report of the matters based on this information in the form and context in which it appears.



Artemis Resources acknowledges and pays respect to the Traditional Owner groups upon whose lands on which we operate.

We recognise the unique cultural heritage of Aboriginal people and their continued connection to lands, waters and communities.

We pay our respects to all Aboriginal people, and to Elders past, present and emerging.

## ACKNOWLEDGEMENT OF COUNTRY



# **COMPANY SNAPSHOT**

Unlocking high-quality lithium and gold-copper projects in the Pilbara Region of Western Australia



### KARRATHA LITHIUM – OSBORNE JV (49%; GRE 51%)

New high-grade lithium discovery; 5.5km lithium pegmatite trend identified

Li

Au Cu Co

- Mineralisation confirmed as **spodumene**; widths up to **40m**
- Assays report up to 3.6% Li<sub>2</sub>O; grades persist over strike length
- Preparations for maiden drilling program well advanced

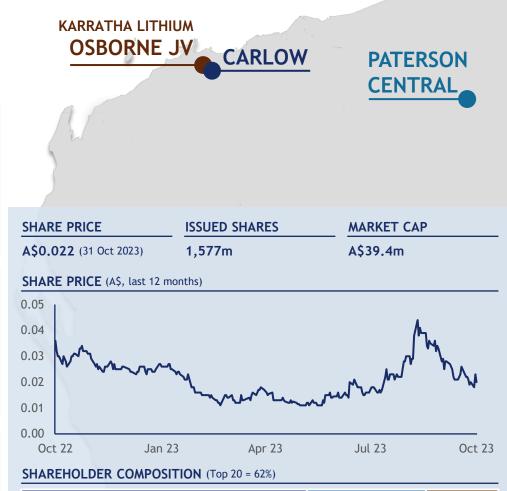


### **CARLOW** (100%)

- High-grade 704koz AuEq Resource foundation with significant exploration upside
- New gold and lithium targets identified
- Large land package with regional exploration opportunities
- 100%-owned Radio Hill processing plant

### PATERSON CENTRAL (100%)

- Unique high-alpha greenfields exploration opportunity
- 100% owned ~600km<sup>2</sup> tenement adjacent to 6.5Moz AuEq Havieron discovery
- Multiple highly prospective targets
- Seeking joint venture partners to help exploit exploration potential



	60%	25%	15%
Retail Private / High Fund Manager			



## LEADERSHIP

Highly experienced leadership team with broad cross section of technical and commercial skills across the resources sector



GUY ROBERTSON Executive Chairman

- 30 years of experience as a Director, CFO and Company Secretary of both ASX-listed and private companies in Australian and Hong Kong
- Experienced in corporate aggregation, IPO, capital raising and acquisition due diligence
- In addition to experience in the resources sector, previous roles include Finance Director and NSW MD of Jardine Lloyd Thompson, Group Director Finance and COO of Colliers Jardine Asia Pacific (based in Hong Kong) and GM Finance of Franklins Limited
- Currently Executive Director of Hastings Technology (ASX:HAS) and Metalbank (ASX:MBK)



GEORGE VENTOURAS Executive Director

- More than 30 years of business, marketing and corporate experience including restructuring and recapitalising publicly listed entities and coordinating IPOs
- Developed and promoted ASX listed companies and has served on the board of various public and private companies in executive and non-executive roles
- Sector experience includes resources, agriculture, aquaculture, luxury goods and manufacturing



SIMON DOMINY Non-Executive Director

- Mining geologist-engineer with over 25 years' experience based in mine operations, consulting and academia. Has worked on a number of gold projects in Australia particularly in Western Australia, Queensland and Victoria, and across Europe, the Americas, and Africa
- Visiting Associate Professor at the Camborne School of Mines (CSM), University of Exeter, UK
- Fellow of the Australasian Institute of Mining and Metallurgy (FAusIMM) and the Australian Institute of Geoscientists (FAIG)



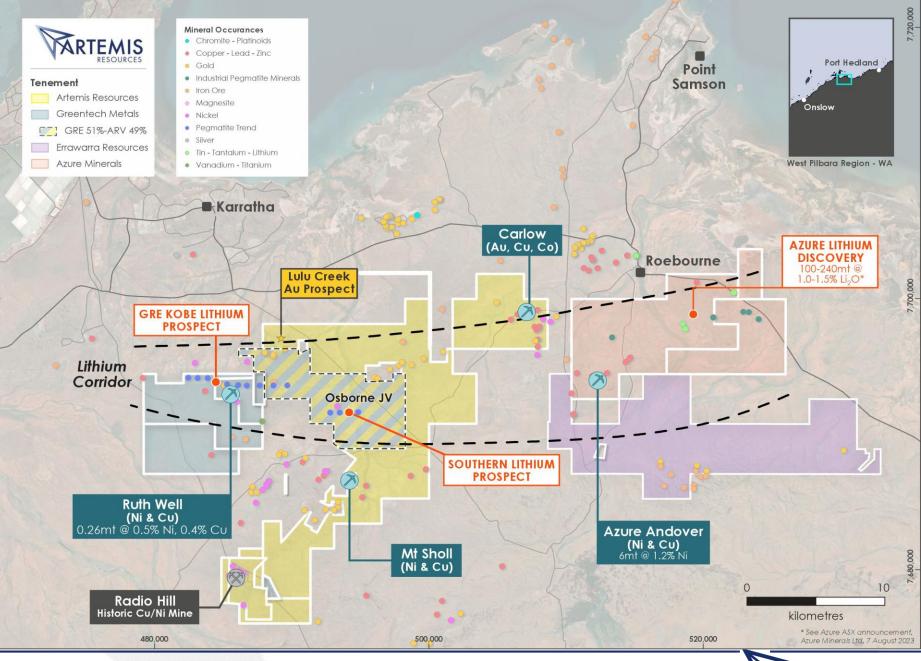
VIVIENNE POWE Non-Executive Director

- Metallurgical engineer with over 30 years industry experience including senior executive roles with a strong track record of creating shareholder value in top tier, global mining, mining services and oil & gas companies
- Holds a Bachelor of Engineering degree (Metallurgical Engineering, with Distinction) from the Royal Melbourne Institute of Technology, a Graduate Diploma in Applied Finance & Investment from FINSIA and a Master of Business Administration (Technology Management) from Deakin University



## PILBARA PORTFOLIO OVERVIEW

- Dominant landholding in an emerging Tier 1 battery metals production hub
- Strategically located close to Karratha logistics / administrative centre and Dampier port
- Multiple commodities provide exposure to battery and precious metals markets
- Existing high grade mineral resource estimate on 100% owned tenure
- Exploration upside (lithium and gold)
- Radio Hill provides a strategically located processing hub
- Artemis controls more than 210km<sup>2</sup> in the Karratha-Roebourne Lithium belt



# OSBORNE JV OVERVIEW

New high-grade lithium discovery in an emerging Tier 1 battery metals production hub close to existing infrastructure

- The Osborne JV (49% ARV; 51% GRE) covers exploration licence E47/3719
- Located in close proximity to Andover Lithium Discovery with a target of 100-250Mt at 1.0-1.5% Li<sub>2</sub>O (owned by ASX-listed Azure Minerals with a market capitalisation of ~A\$1.6Bn)
- Artemis retains the rights to all gold mineralisation and has the option to maintain its interest in the Osborne JV via contributing 49% of JV funding
- Artemis' joint venture partner, GreenTech Metals, which has a proven lithium exploration team (led by Michael Fotios) is leading exploration activities at the Osborne JV
- Assays have returned up to 3.6% Li<sub>2</sub>O pegmatite hosted mineralisation
- XRD analysis confirms spodumene mineralogy
- New lithium pegmatite discovery (multiple zones identified) potentially expands the scale of the existing lithium potential at the Osborne JV
- Preparations and approvals for maiden drilling program in Q4 2023 are advancing quickly



Rock sample 23CR038 (3.6% Li<sub>2</sub>O)

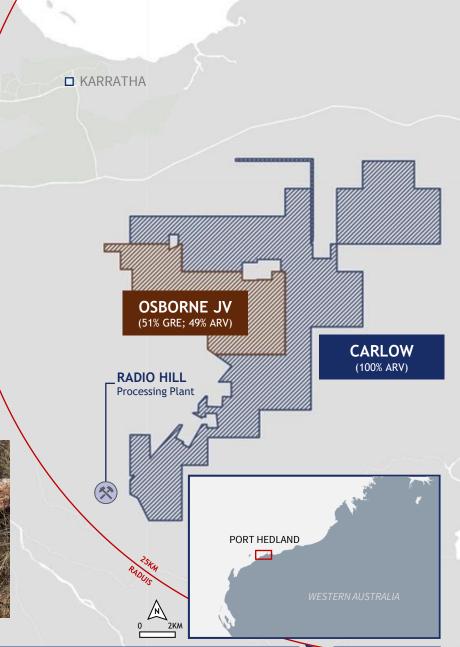


Pegmatite outcrop at rock sample site 23CR038



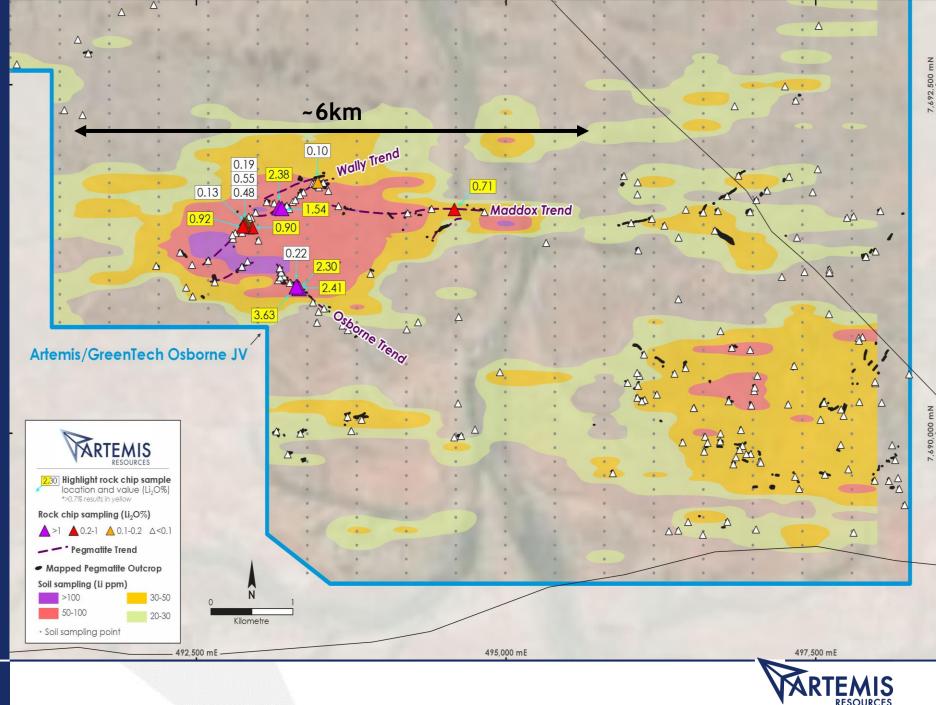
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Example of lithium pegmatite found on surface



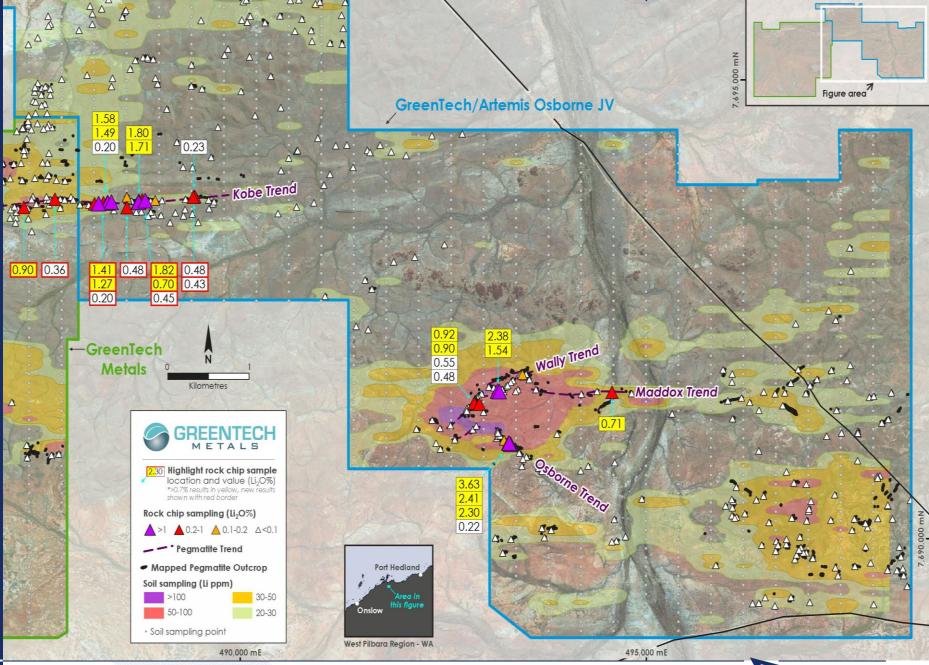
## KARRATHA LITHIUM PROJECT OSBORNE JV SOUTHERN TREND

- 4km lithium pegmatite trend identified (Southern Trend)
- Mineralisation confirmed as spodumene with widths up to 40m
- Significant rock chip sampling assays recorded along the Southern Trend include:
  - 3.63% Li2O (Sample 23CR038)
  - 2.4% Li2O (Sample 23GT20-155)
  - 2.4% Li2O (Sample 23GT20-232)
  - 2.30% Li2O (Sample 23CR039)
  - 1.5% Li2O (Sample 23GT20-233)
  - 0.9% Li2O (Sample 23GT20-131)
  - 0.9% Li2O (Sample 23GT20-132)
- Grades persist over strike length
- Further assays pending
- Multiple programs of works approved for maiden RC drilling program
- Planning of Heritage surveys underway<sup>1</sup>



## KARRATHA LITHIUM PROJECT OSBORNE JV KOBE TREND

- 7.5km lithium pegmatite trend identified (Kobe Trend) which extends from neighbouring Ruth Well project (owned by GreenTech Metals) and extends eastwards onto the Osborne JV tenement by 1.5km
- Mineralisation confirmed as spodumene with widths up to 4m
- Significant rock chip sampling assays recorded along the Southern Trend include<sup>1</sup>:
  - 1.8% Li<sub>2</sub>O (Sample 23GT11-041)
  - 1.7% Li<sub>2</sub>O (Sample 23GT11-042)
  - 1.6% Li<sub>2</sub>O (Sample 23GT06-006)
  - 1.6% Li<sub>2</sub>O (Sample 23GT10-003)

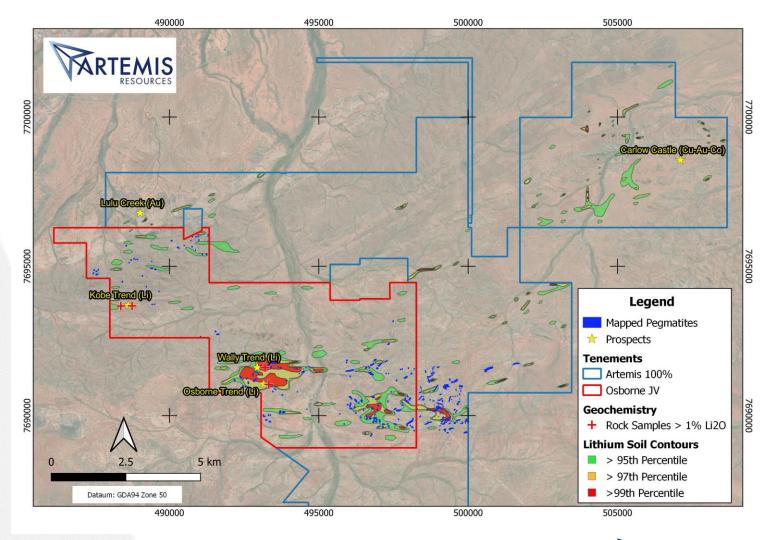




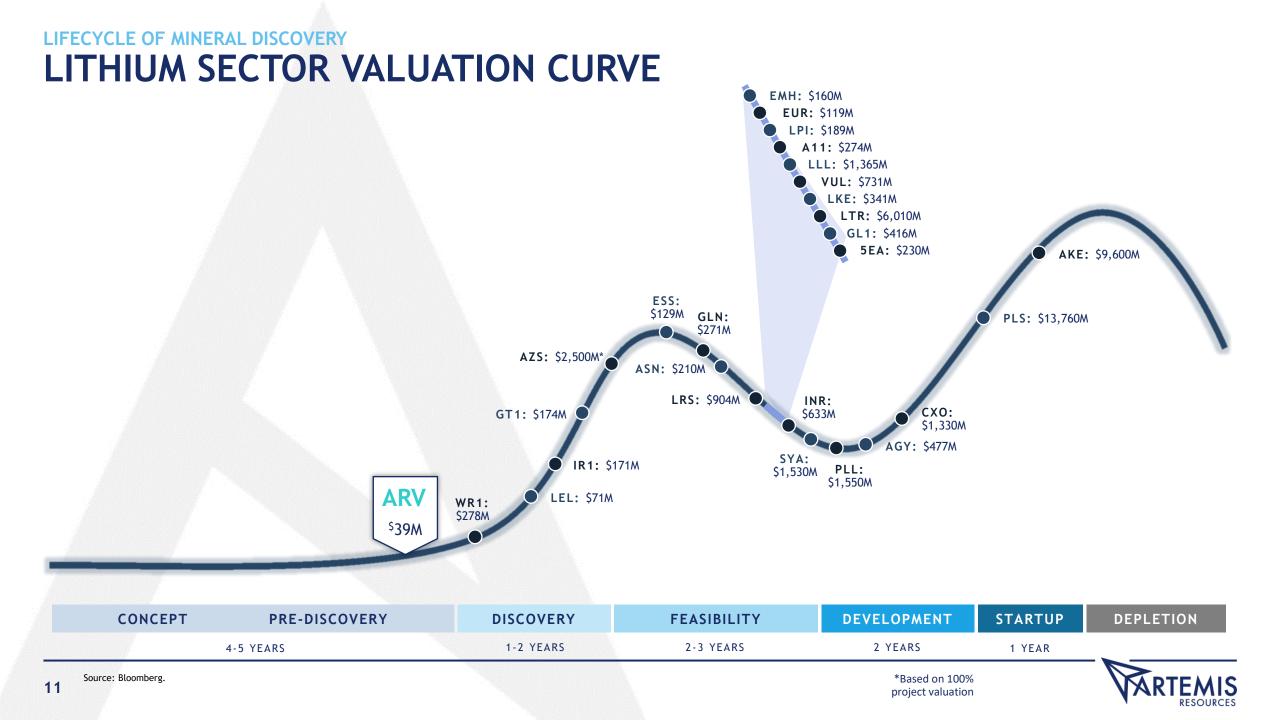
### KARRATHA LITHIUM PROJECT ARTEMIS 100% OWNED TENURE

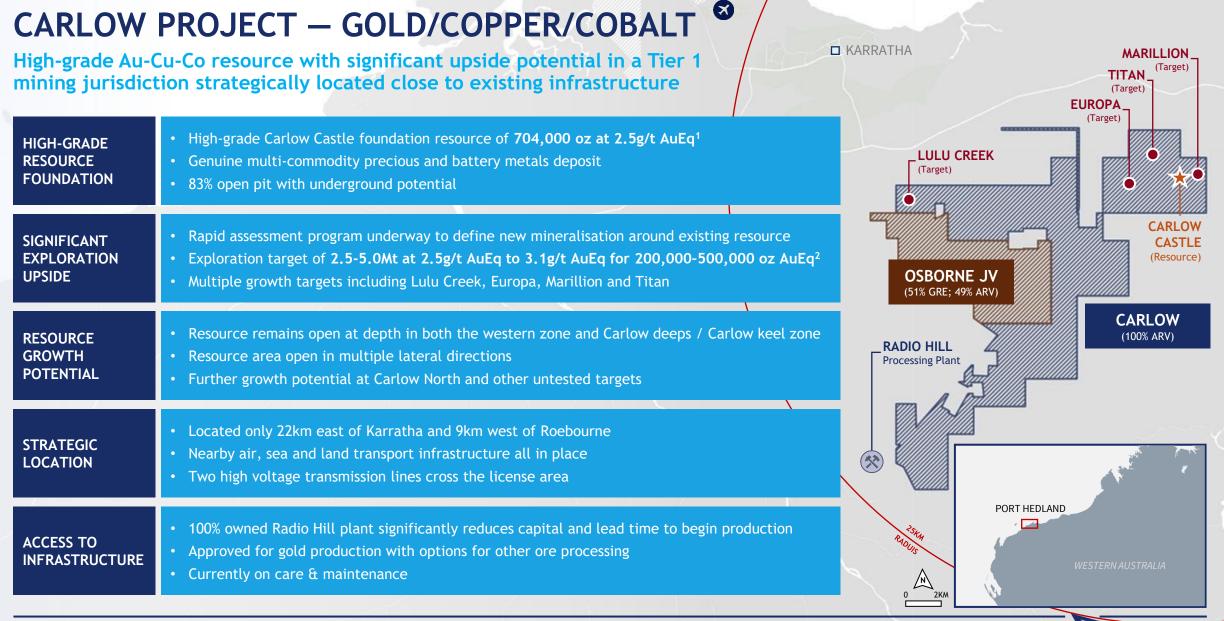
## **PROMISING LITHIUM POTENTIAL**

- Artemis currently controls approximately 144km<sup>2</sup> of ground adjacent to GreenTech (ASX:GRE) and Azure Minerals (ASX:AZS) lithium finds in the West Pilbara
- Review of historic regional exploration soils database indicated elevated lithium and lithium pathfinder elements within exploration licences E47/1746 and E47/1797
- Data has defined seven distinct lithium cluster anomalies within E47/1797 and E47/1746 with elevated lithium above the 95<sup>th</sup> percentile<sup>1</sup>
- Two of these anomalies also correspond with two broad rubidium anomalies and form part of the initial reconnaissance programs in identifying potential lithium bearing pegmatites









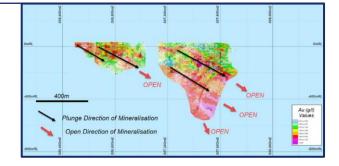


## CARLOW PROJECT HIGH GRADE RESOURCE WITH SIGNIFICANT GROWTH POTENTIAL

- Total inferred Mineral Resource<sup>1</sup> of 8.74Mt at 2.5g/t AuEq comprises of:
  - Open pit resource of 7.25Mt @ 2.4g/t AuEq for 557,000 oz AuEq (using a 0.7g/t AuEq cut-off grade)
  - Underground resource of 1.49Mt @ 3.1g/t AuEq for 146,000 oz AuEq (using a 2g/t AuEq cut-off grade)
- Conservative assumptions underlying the Resource estimate reflect the robust nature of the project and take into consideration the recent rising cost environment
- With this high-grade Resource open in multiple directions, exploration activities will be focused on further inventory growth

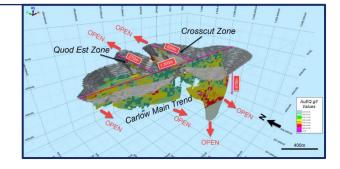


Resource open at depth in both the western zone and Carlow deeps / Carlow keel zone



#### Resource remains open laterally

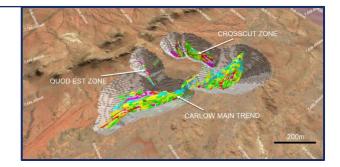
Resource area open in multiple lateral directions including the Western / Quod Est zones, Crosscut zone and the Main trend to the east and west



## CROSSCUT 2 TARGET CROSSCUT ZONE QUOD EST ZONE WEST ZONE • RC Hole • Diamond Hole

### Near-mine growth potential

Potential at Carlow North and other untested targets in the Greater Carlow project area

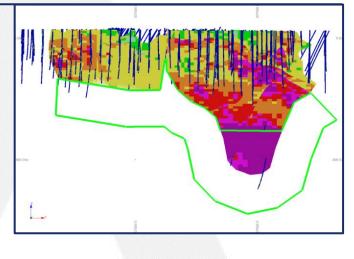




# EXPLORATION POTENTIAL

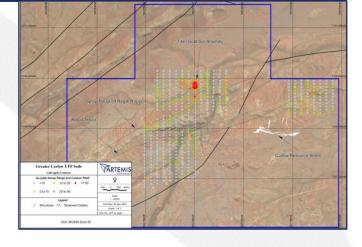
#### **Exploration target**

Exploration Target of 2.5-5.0Mt at 2.5g/t AuEq to 3.1g/t AuEq for 200,000-500,000 oz AuEq<sup>1</sup>



#### Titan

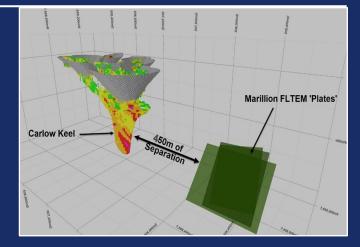
Elevated gold in soils with assay results up to 101.3 ppb Au<sup>2</sup>



### Marillion

## Very high tenor (>11,000s) FLEM 500m by 350m anomaly

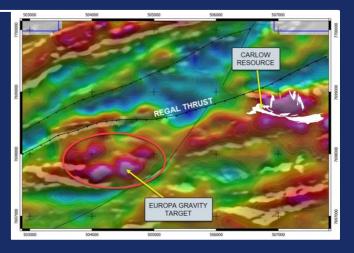
Potential continuation of Carlow Keel, or an entirely new discovery



### Europa

Coincident gravity and magnetic target

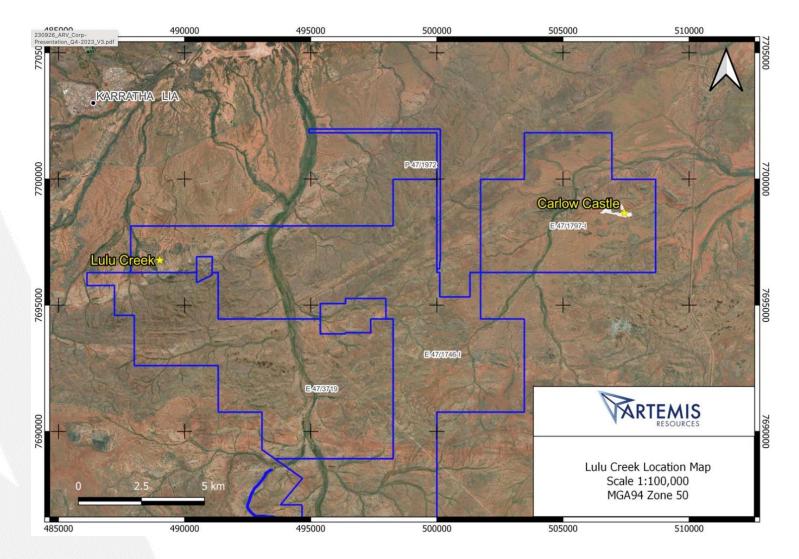
Located ~3km to the southwest of the Carlow Resource area and in the same structural corridor





# CARLOW PROJECT

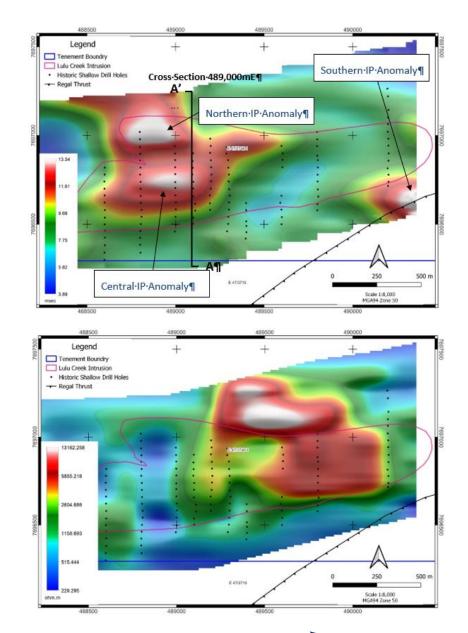
- Lies 20km to the west of Artemis' Carlow Castle deposit
- Prospect was initially identified in 2018 via a regional soils and rock chip program defining an area of interest over 4 km in an east-northeast orientation
- Subsequent mapping and rock chip sampling identified gold associated with quartz veins and gossanous outcrops which were subsequently drilled in 2020<sup>1</sup>
- The drill program was technically successful in identifying numerous shallow low-grade zones of gold mineralisation associated with disseminated sulphides and quartz veins within a 2km east-northeast trending quartz diorite intrusion
- Recent drill results include:
  - 12m at 0.42 g/t Au from 24m, including 2m at 1.62 g/t Au from 34m within drill hole CWRC006
  - 8m at 0.4 g/t Au from 42m within drill hole CWRC005 (terminated in mineralisation)
  - 1m @ 4.89 g/t Au and 13.7 g/t Ag from 24m in CWRC011
  - 1m @ 1.15 g/t Au from 9m in CWRC017
- Drilling to date has been shallow, with an average hole depth of 2m and a maximum of 50m





# CARLOW PROJECT LULU CREEK GOLD TARGETS

- Three IP chargeability anomalies have been detected from a 15-line dipole-dipole survey over the Lulu Creek Intrusion Related Gold system (IRGS)<sup>1</sup>
  - Two chargeability anomalies form adjacent to a moderately-high resistive unit within the Lulu Creek Intrusion;
  - Third anomaly sits just off the intrusion and along the Regal Thrust
- Central shallow IP chargeability anomaly corresponds with gold mineralisation and is open at depth
- Northern and deeper IP chargeability anomaly is untested and associated with a subtle magnetic feature
- Southern IP chargeability anomaly is interpreted as a shallow body and corresponds with a prominent vein set along the Regal Thrust
- Resistive feature interpreted as significantly altered portion of intrusion and warrants further investigation
- Plans to RC drill test new targets in Q1 2024 this year are well advanced final heritage survey is underway





## CARLOW PROJECT RADIO HILL PROCESSING PLANT

100% owned processing plant is the only processing plant in the region and significantly reduces the capital and lead time to begin production at Carlow

### **Overview**

- Located only 30km south of Karratha,
- Situated on granted mining lease
- Large amount of associated plant infrastructure (power / water / accommodation) and spares inventory
- Three large permitted tailings storage facilities in place along with environmental and production permits in good standing

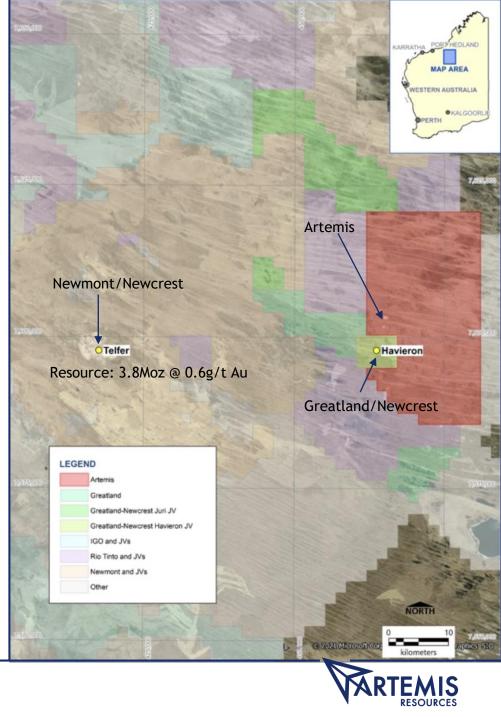




# PATERSON CENTRAL OVERVIEW

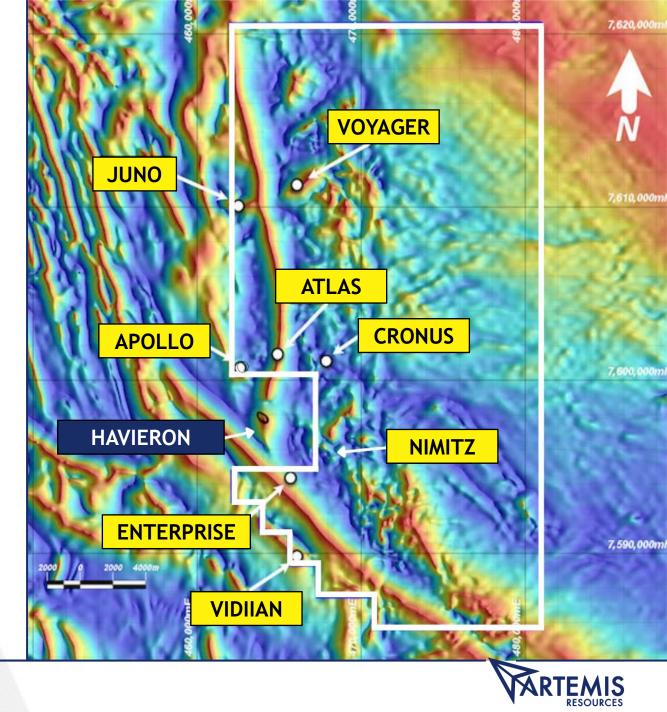
High potential greenfield exploration opportunity located adjacent to the world-class 6.5Moz AuEq Havieron discovery

- 100% owned ~600km<sup>2</sup> exploration license covering the Paterson Central prospects
- Located adjacent to the world-class 6.5Moz AuEq Havieron deposit which is being advanced by Newcrest Mining (ASX:NCM) as manager of the Havieron joint venture
- Multiple targets have been generated using geological, magnetic, gravity, seismic, structural and geochemical datasets
- Permian cover ranges from ~400m in the west at the Apollo target to ~450m in the east at Nimitz
- Large ionic leach geochemistry survey across southern and central licence areas have returned anomalous Au, Cu, Ag, Bi and Te coincident with several key targets<sup>1</sup>
- Path to discovery is to drill test systematically the highest priority targets

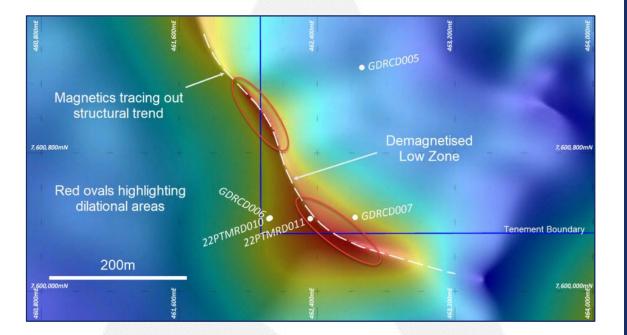


## PATERSON CENTRAL HIGH PRIORITY TARGETS

- High priority targets within the Havieron "NW corridor" include Apollo, Atlas and Enterprise which remain untested
- Standalone structural and geophysical targets Juno, Voyager, Cronus, Vidiian and Nimitz
- Heritage surveys and programs of work approved for Juno and Voyager along with additional drill pads at Apollo

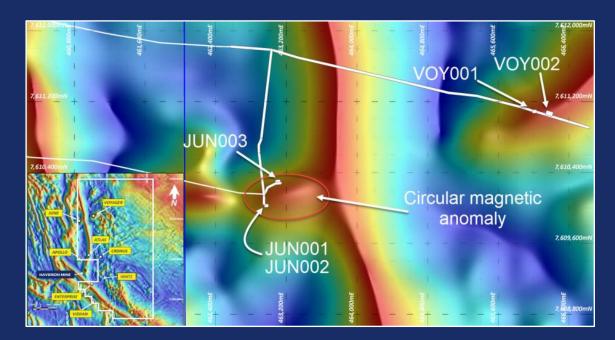


# APOLLO TARGET



- Identified as a potentially significant ~1.5km north-west trending magnetic anomaly representing an interpreted splay fault that has been intruded by a dolerite intrusion
- Recent drilling has revealed multi-phase breccias and veining that host polymetallic systems
- Large intercepts (up to 90m) of pervasive veining and multi-phase crackle breccias have been encountered either side of the dolerite intrusion, often with significant amounts of pyrite, chalcopyrite and pyrrhotite
- 800m of strike length remain to be tested

## JUNO / VOYAGER TARGET



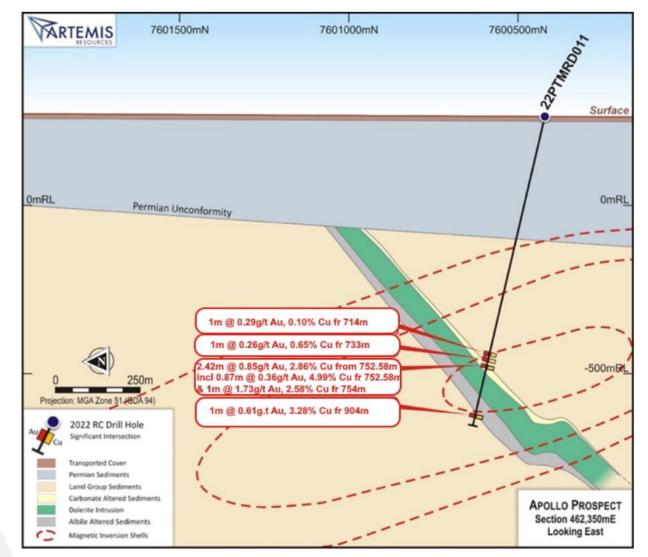
- Distinctive circular magnetic feature located at Juno<sup>1</sup>
- Highly prospective target with similarities to the Havieron magnetic anomaly
- Spatially located near the North-South structure that intersects the Havieron mineralisation



# APOLLO AND ATLAS SIGNIFICANT INTERCEPTS

- Significant intercepts within drill hole 22PTMRD011 include 2.42m @ 0.85g/t Au and 2.86% Cu from 752.58m, including<sup>1</sup>:
  - 0.87m @ 0.36g/t Au and 4.99% Cu from 752.58m;
  - 1m @ 1.73g/t Au and 2.58% Cu from 754m; and
  - 1m @ 0.61g/t Au and 3.28% Cu from 904m
- Significant intercepts within drill hole 22PTMRD010 include 5m @ 0.32g/t Au and 0.81% Cu from 639m, including<sup>1</sup>:
  - 1m @ 0.39g/t Au and 2.99% Cu from 639m







# **INVESTMENT HIGHLIGHTS**



Attractive suite of growth commodities: balanced portfolio of battery and precious metals including the exciting Karratha Lithium and Carlow Projects



**Highly strategic location:** close proximity to major hub at Karratha including regional rail and road infrastructure, administrative centre and the Dampier Port



**Significant exploration upside:** highly prospective tenure package in the Pilbara Region of Western Australia which is the next frontier for battery minerals growth



Mineral Resource with growth potential: existing high-grade gold-copper-cobalt Inferred Mineral Resource at Carlow (100%-owned tenure)



Established processing site at Radio Hill: strategically located, fully permitted



# **APPENDIX: JORC MINERAL RESOURCE**

#### Greater Carlow Mineral Resources by weathering state<sup>1,2,3</sup>

Domain	Tonnes (Mt)	AuEq (g/t)	Au (g/t)	Cu (%)	<b>Co</b> (%)	Au (oz)	Cu (t)	<b>Co</b> (t)
Oxide	1.29	1.5	0.8	0.59	0.07	34,000	8,000	1,000
Transition	1.49	2.0	1.2	0.84	0.09	56,000	13,000	1,000
Fresh	5.96	2.8	1.5	0.73	0.10	285,000	44,000	6,000
Total	8.74	2.5	1.3	0.73	0.09	374,000	64,000	8,000

#### Greater Carlow Mineral Resources by area above a cut-off of 0.7g/t AuEq<sup>1,3</sup>

Domain	Tonnes (Mt)	AuEq (g/t)	Au (g/t)	Cu (%)	Co (%)	Au (oz)	Cu (t)	<b>Co</b> (t)
Main	6.33	2.4	1.3	0.70	0.08	271,000	44,300	5,100
Quod Est	0.19	3.2	1.5	0.85	0.24	9,000	1,600	450
Crosscut	0.73	2.2	0.7	0.99	0.09	16,000	7,300	650
Total	7.25	2.4	1.3	0.73	0.09	296,000	53,200	6,200

#### Greater Carlow Mineral Resources by area above a cut-off of 2.0g/t $AuEq^{2,3}$

Domain	Tonnes (Mt)	AuEq (g/t)	Au (g/t)	Cu (%)	<b>Co</b> (%)	Au (oz)	Cu (t)	Co (t)
Main	1.09	3.1	1.9	0.57	0.11	66,000	6,250	1,200
Crosscut	0.39	3.1	1.0	1.14	0.14	12,500	5,560	550
Total	1.49	3.1	1.6	0.72	0.12	78,500	10,700	1,750

#### 1 Reported above a cut-off of 0.7g/t AuEq within an optimised pit shell (current as at 13 October 2022).

2 Reported above a cut-off of 2.0g/t AuEq for underground using MSO shapes (current as at 13 October 2022).

3 The Resource is classified as an inferred Mineral Resource in accordance with the JORC Code, 2012. All tonnes are dry metric tonnes. Figures may not compute due to rounding.

#### Significant inputs to the JORC Inferred Resource

Parameter	Input value				
Overall slope angles	Oxide 40°, Transition 45°, Fresh 50°				
Processing cost	A\$50/t				
Gold recoveries	Oxide 96%, Transitional 93.5%, Fresh 93%				
Copper recoveries	Oxide 61%, Transitional 56%, Fresh 90.5%				
Cobalt recoveries	Oxide 47%, Transitional 43%, Fresh 78%				
Mining costs	A\$2.70/t + 0.5c/t per m below 30mRL, thereafter add Transitional A\$0.25/t and Fresh A\$0.50/t. OP strip ratio 12:1				
<b>NSRs</b> (incl. payability, royalty and treatment and refining costs)	Gold: 94%, Copper 84%, Cobalt 41%				
Gold price	A\$2,600/oz				
Copper price	A\$12,699/t				
Cobalt price	A\$90,478/t				
Au royalty (in dore)	2.5%				
Au royalty (in concentrate)	5%				
Cu royalty	5%				
Co royalty	5%				





## CONTACT

E: info@artemisresources.com.au W: artemisresources.com.au



ASX:ARV | AIM:ARV | FRA:ATY | USOTC:ARTTF