



ASX: ARV  
U.S. OTCQB: ARTTF  
Frankfurt: ATY

# ON THE ROAD TO NEAR-TERM PRODUCTION IN THE PILBARA



Investor Deck - March 2019

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## **Competent Person Statements**

The information in this announcement that relates to the Carlow Castle Project Resource is based on the Carlow Castle Project Resource Report written by Mr Philip A. Jones, who is a Member of the Australasian Institute of Mining and Metallurgy and a Member of the Australian Institute of Geoscientists.

Mr Jones is a consultant working for Al Maynard & Associates (AM&A) who were engaged by Artemis Resources to prepare the report and undertake the resource estimation for the Carlow Castle Project for the period ending 26<sup>th</sup> January, 2019. Mr Jones has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Jones consents to the inclusion in the announcement of the matters based on his information in the form and context in which it appears.

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In accordance with Listing Rule 5.23.2, Artemis confirms that it is not aware of any new information or data that materially affects the information included in the relevant market announcement referred to above, and that in the case of mineral resources that all material assumptions and technical parameters underpinning the estimates in the announcement referred to continue to apply and have not materially changed.



# Artemis – Our Value Proposition and Strategy



## Artemis is:

- Artemis Resources Limited (Artemis – ASX: ARV / OTCQB: ARTTF / Frankfurt: ATY) - the first West Pilbara company to consolidate a significant portfolio of gold, base and battery metal assets with a strategically located processing plant.

## The Artemis Corporate Strategy is:

- To advance our mineral resources to support the transformation of our 100% owned Radio Hill plant into a long term **producer of gold and base** metal concentrates.



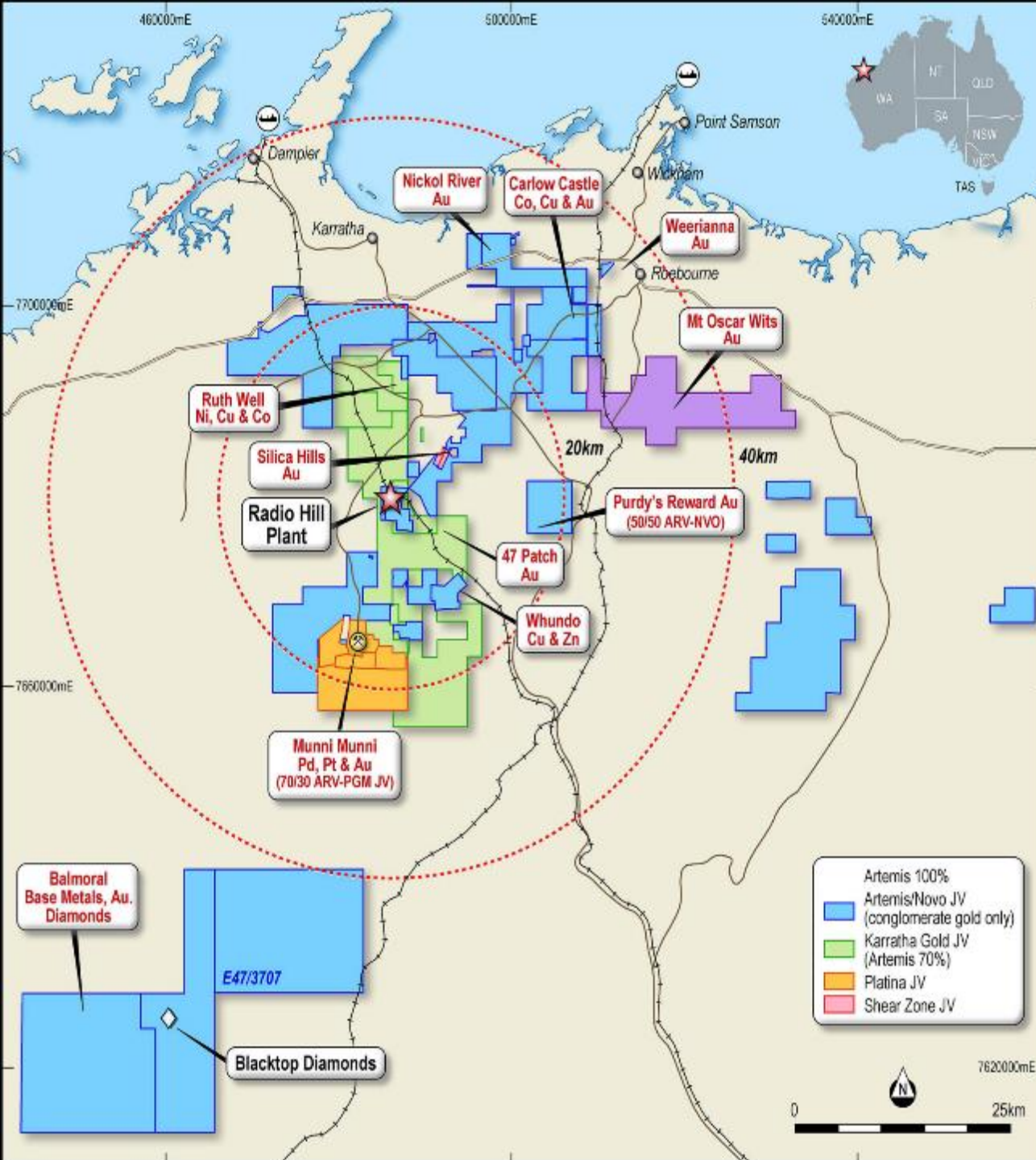
**Operational objective: near-term gold production and cashflow from Radio Hill...**

## ARV's resources centred upon Radio Hill

74 tenements  
60 live  
14 pending

≈ 2,400km<sup>2</sup>

of conglomerate and  
shear hosted Au, Cu,  
Co, Zn, PGE & diamond  
prospective tenure



# Corporate Structure

## Artemis Resources Ltd

ASX Ticker	ARV
Frankfurt Ticker	ATY
US Ticker – QTCQB	ARTTF
Shares On Issue @ 31/12/18	648M
Share Price @ 6/3/19	6.3c
Market Cap A\$ @ 6/3/19	43M
52 week high-low	6.3-23.5c

## Significant Shareholders

Exchange Minerals FZE	8.0%
Veni Vidi Vici Limited	5.7%
Top 20 shareholders	59%
Top 50 shareholders	66%

## Board & Management

Non-Executive Chairman



### Sheikh Maktoum Hasher al Maktoum

- Chairman of Dubai International Holding
- President of Al Fajer Investments

Chief Executive Officer



### Wayne Bramwell

- Mining executive with over 26 years of international and Australian project evaluation and development expertise across precious, base metals and bulk commodity sectors.
- Non-Executive Director at Ardea Resources Ltd (ASX)
- Previously MD of ASX listed explorer/developer Kasbah Resources Ltd

Executive Director



### Edward Mead

- Geologist with 25 years experience in gold and base metals exploration, mine development and mine production
- 17 years of West Pilbara geology experience for private and public companies.
- Assisted Artemis in consolidating the Karratha land package since 2015.

Non-executive Director



### Dan Smith

- Commercial Director at Minerva Corporate
- Significant experience in capital markets and corporate governance of ASX listed companies
- Non-Executive Director of Europa Metals Ltd (ASX+AIM), Lachlan Star Ltd (ASX), HIPO Resources Ltd (ASX) and White Cliff Minerals Ltd (ASX)

# Artemis - 2019 Operational Plan



**Primary Focus** - Carlow Castle Au-Cu-Co Project is the lead development asset;

- drilling required to increase resource scale and classification during 2019
- detailed metallurgical programme to optimise preliminary flowsheet and process design during 2019
- target completion of a pre-feasibility study late 2019

**Secondary Focus;**

- work with partners and other regional explorers to aggregate potential toll-treating gold ore for Radio Hill
- advance Artemis exploration on high value vein and shear hosted gold targets within trucking distance to Radio Hill such as Monarch and Conqueror;
- seek a well funded JV partner to advance the Armada Prospect in the Paterson Ranges;

**Maintain the Radio Hill plant in current state;**

- until at least 3 years of plant feed is defined and available to support plant start up;

**Review all non-core assets for divestment or JV.**

**The Carlow Castle Plan...**



**ARV's Prime Asset**

**The Carlow Castle Au-Cu-Co Project**

# ASX 6/3/19 - Carlow Castle Au-Cu-Co Resource Grows by 71% to 7.7Mt<sup>1</sup>

**Inferred resource of 7.7Mt @ 1.06 g/t Au, 0.51% Cu and 0.08% Co  
for 260k Oz Au, 38kt Cu and 5,900t of Co**

**Table 1 Carlow Castle Inferred Resource – February 2019**  
**@ a 0.3 g/t Au lower grade cut-off.**

Carlow Castle Lode/Zone	Tonnes	Au g/t (CUT)	Cu% (CUT)	Co% (CUT)	Contained Au (oz)	Contained Cu (t)	Contained Co (t)
Quod Est Oxidised	100,000	1.31	0.66	0.18	4,212	660	180
Quod Est Fresh	200,000	1.15	0.5	0.2	7,395	1,000	400
Carlow Oxidised	2,800,000	0.81	0.55	0.06	72,918	15,400	1,680
Carlow Fresh	4,500,000	1.2	0.47	0.08	173,614	21,150	3,600
Quod Est EAST Oxidised	20,000	1.14	0.56	0.15	733	112	30
Quod Est EAST Fresh	40,000	1.45	0.54	0.23	1,865	216	92
<b>Total</b>	<b>7,700,000</b>	<b>1.06</b>	<b>0.51</b>	<b>0.08</b>	<b>260,737</b>	<b>38,538</b>	<b>5,982</b>

<sup>1</sup> The Company notes that it has materially updated its Mineral Resource since the last estimate provided to the market on 31 January 2018. The upgrade is based on newly acquired information set out in this announcement.

**The Next Steps...**



# Advancing Carlow Castle Au-Cu-Co Project – Upcoming Drill Program



## Objectives:

- Enhance knowledge of the geological controls on mineralisation and improve confidence in the resource at Carlow Castle.
- Convert Inferred resources to Indicated classification, complete initial mine optimization evaluation and financial modelling.

## Stage 1 Program: ≈5,000m

- Drill 3 critical sections at Carlow East – on wide, high grade zones
- Drill 3 critical sections at Carlow West - testing better grade zones

## Outcomes:

- Resource Update – Q3, 2019
- Pre-feasibility Study - Q4, 2019

Plans of the proposed drilling locations and cross section views are shown overleaf.

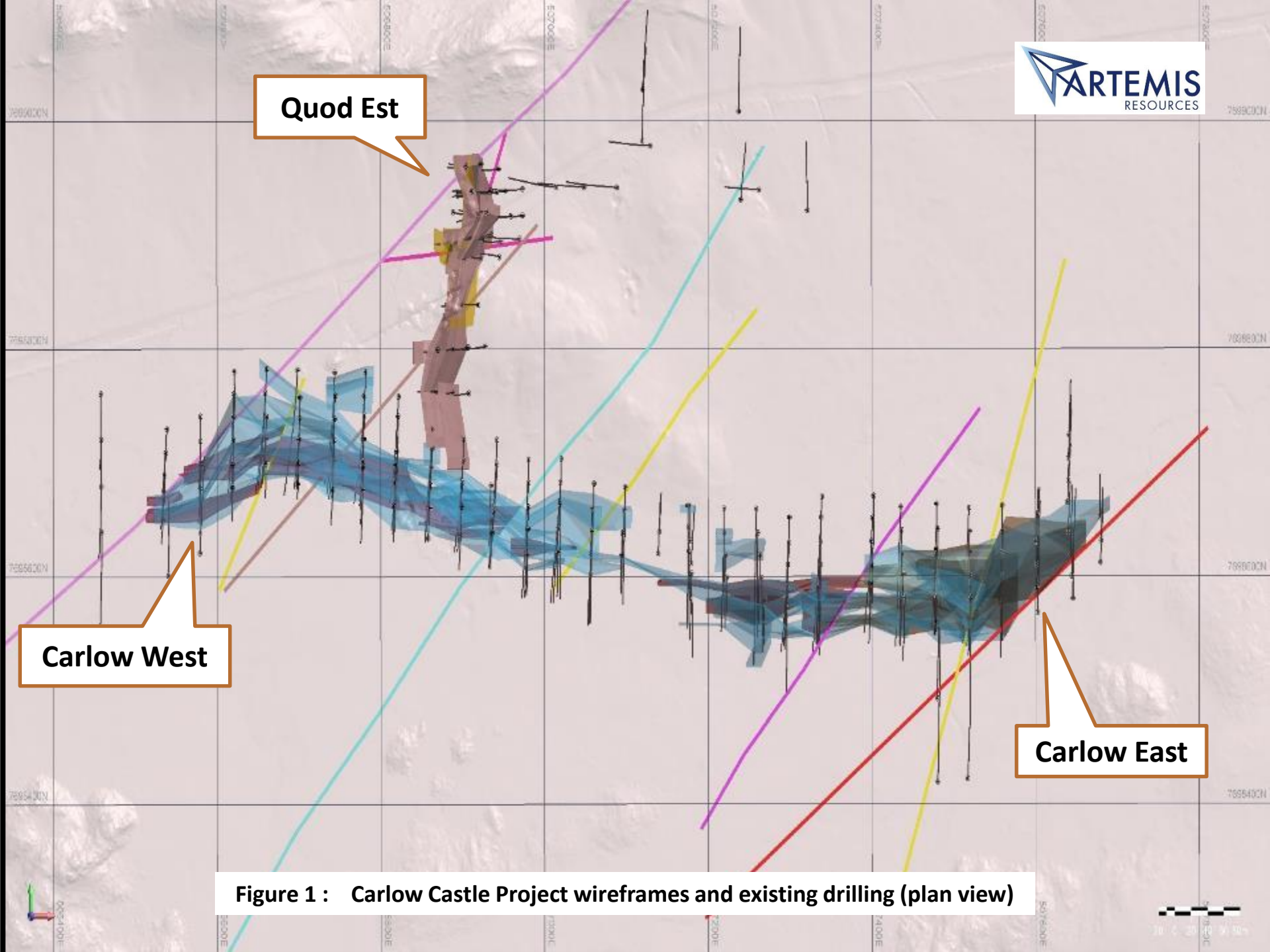
**Testing the wide, high grade zones ...**

Quod Est

Carlow West

Carlow East

Figure 1 : Carlow Castle Project wireframes and existing drilling (plan view)

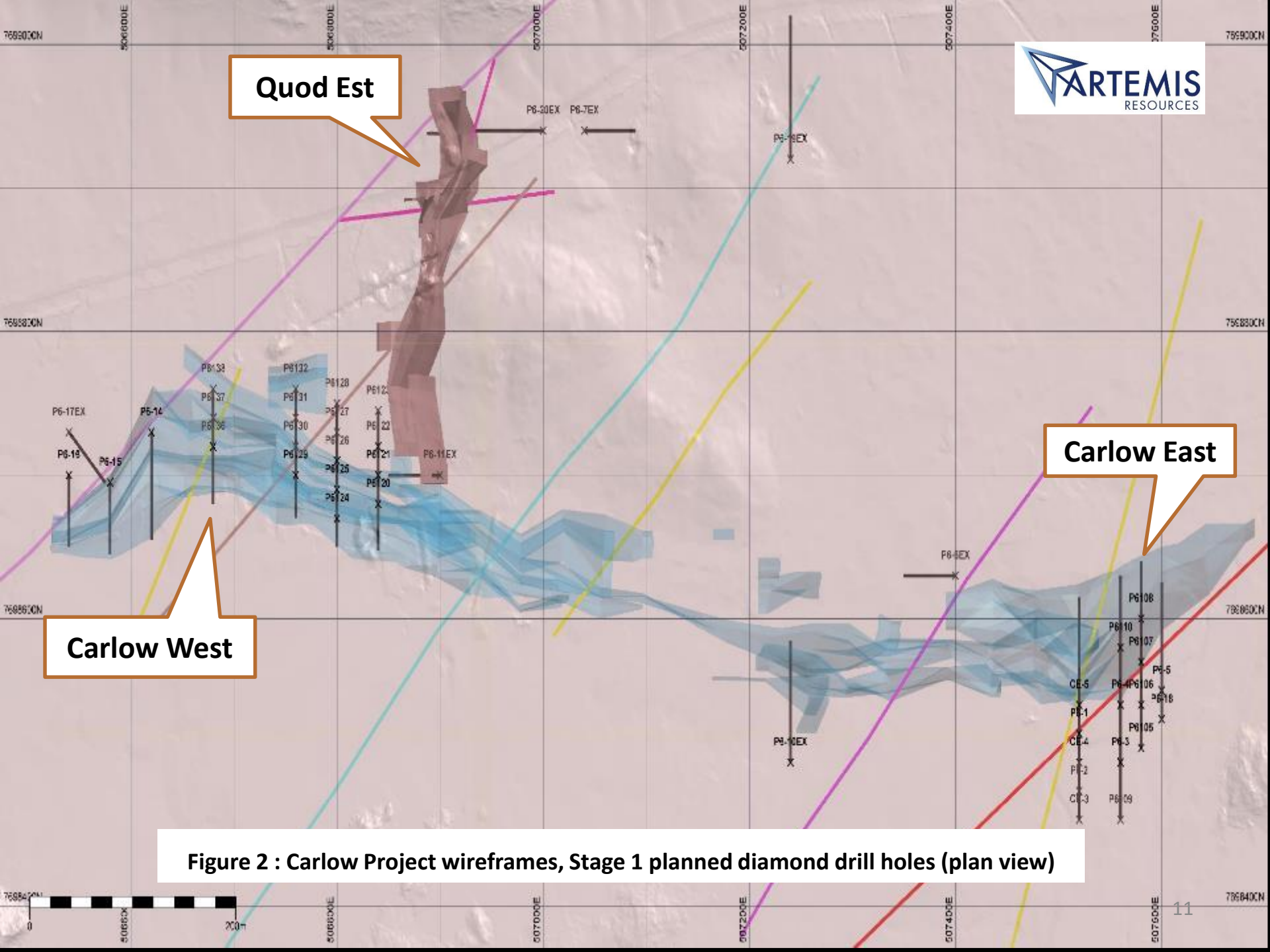


**Quod Est**

**Carlow East**

**Carlow West**

**Figure 2 : Carlow Project wireframes, Stage 1 planned diamond drill holes (plan view)**





# **Aggregating Gold Processing Opportunities**

**West Pilbara, WA**



# The ONLY Toll-Treating Facility in the West Pilbara Goldfields



## Opportunity:

- Many “stranded” gold orebodies and deposits in West Pilbara – Artemis Radio Hill only processing facility in West Pilbara area
- The opportunity is for Artemis to work with other partners and explorers to aggregate mineral resources and provide a toll-treating solution for them
- Concept announced with TSX:V – PAC on 18/10/18

## Benefits to third parties:

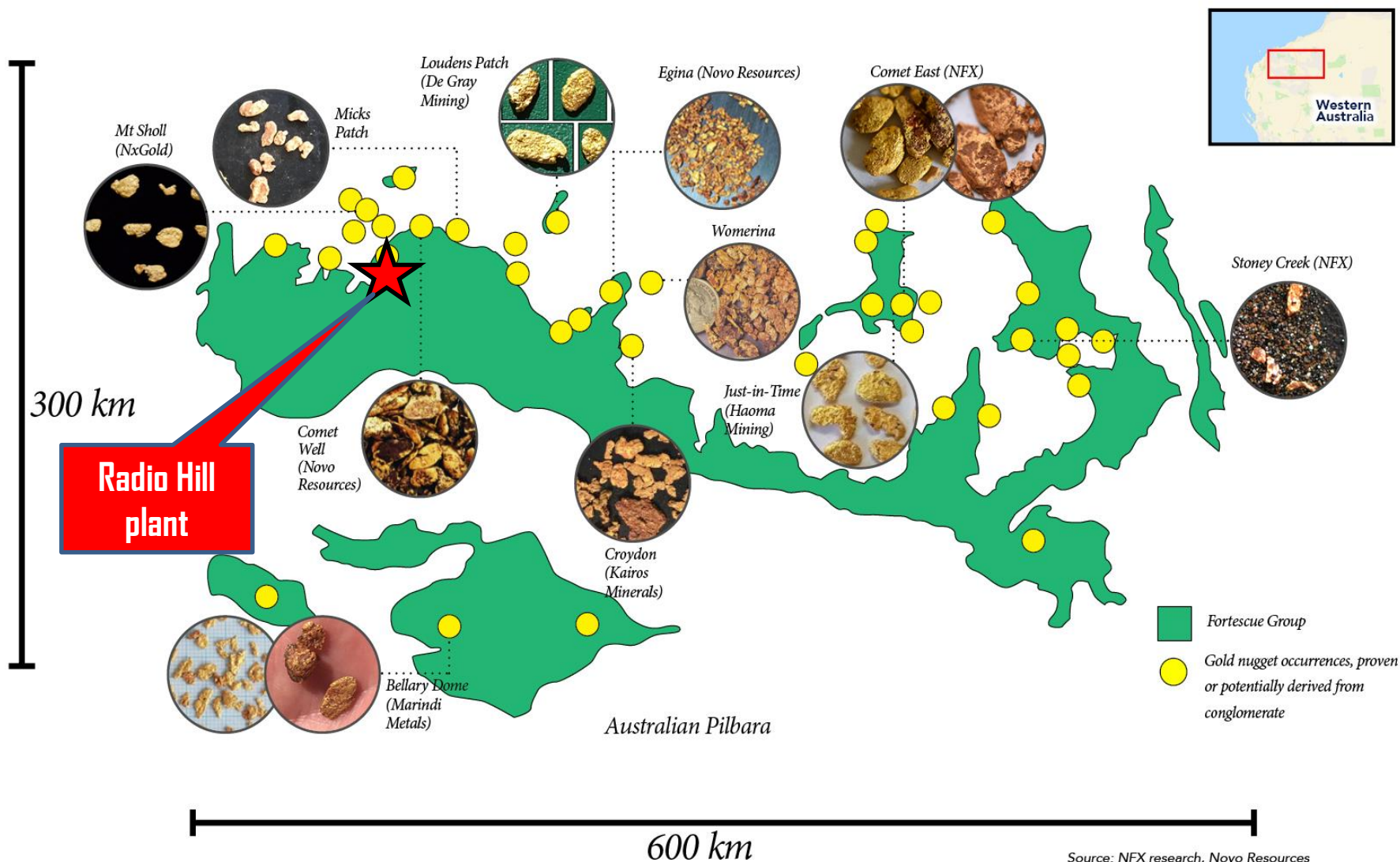
- Timing to cash flow – Radio Hill is permitted for 500,000 tpa of gold ore
- Mine only approvals required – as processing and infrastructure approvals in place at Radio Hill
- Reduce project costs – by negating need for processing and non-mine infrastructure capital

## Benefits to Artemis:

- Toll-treating could re-establish the Radio Hill plant and re-rate the company as a producer, prior to Artemis advancing its own resources to support 100% Artemis operations.

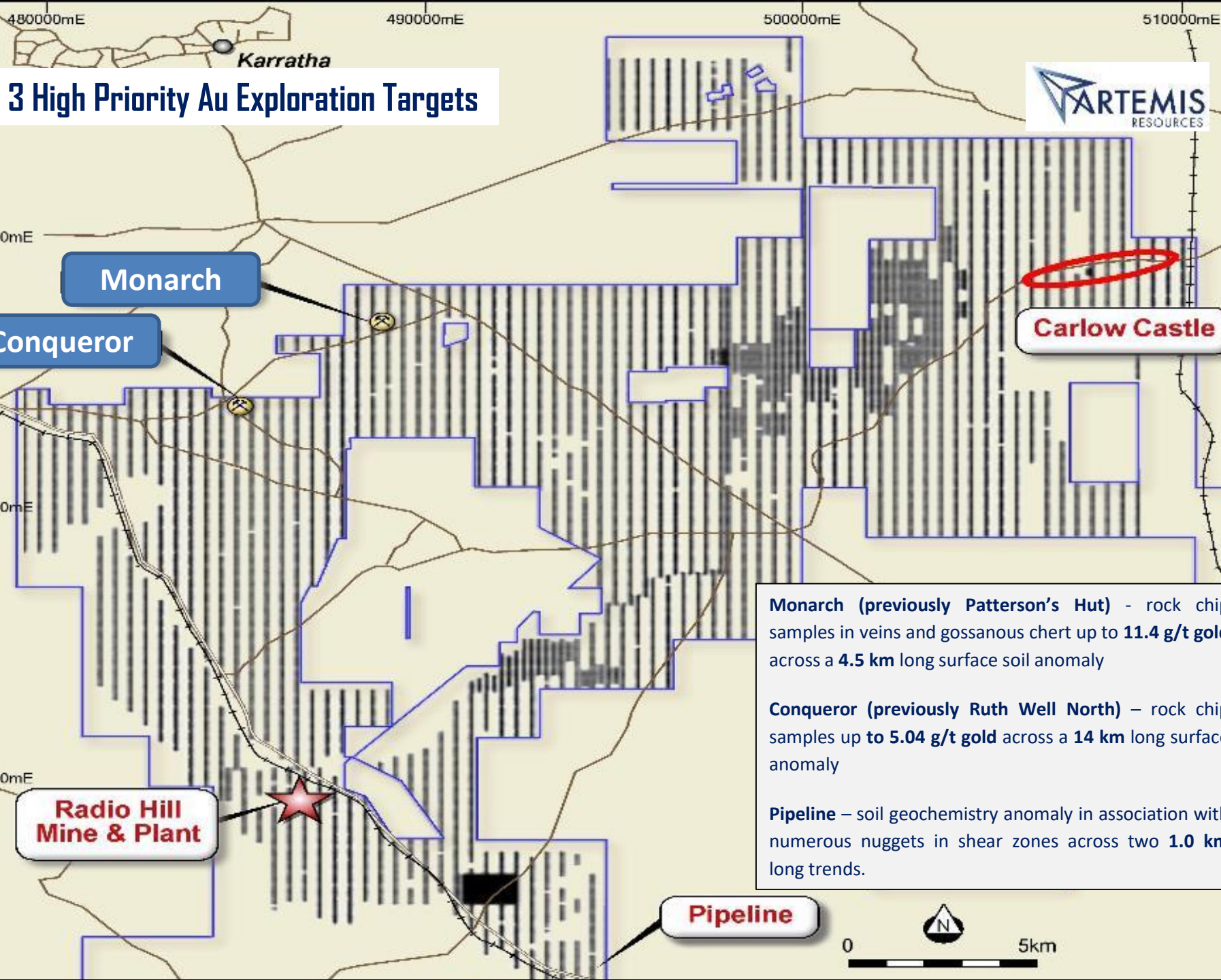
**Drill Plans Overleaf...**

# Stranded Opportunities – potential to truck to Radio Hill plant?





**Monarch, Conqueror and Pipeline –  
Compelling shear hosted gold  
exploration targets**



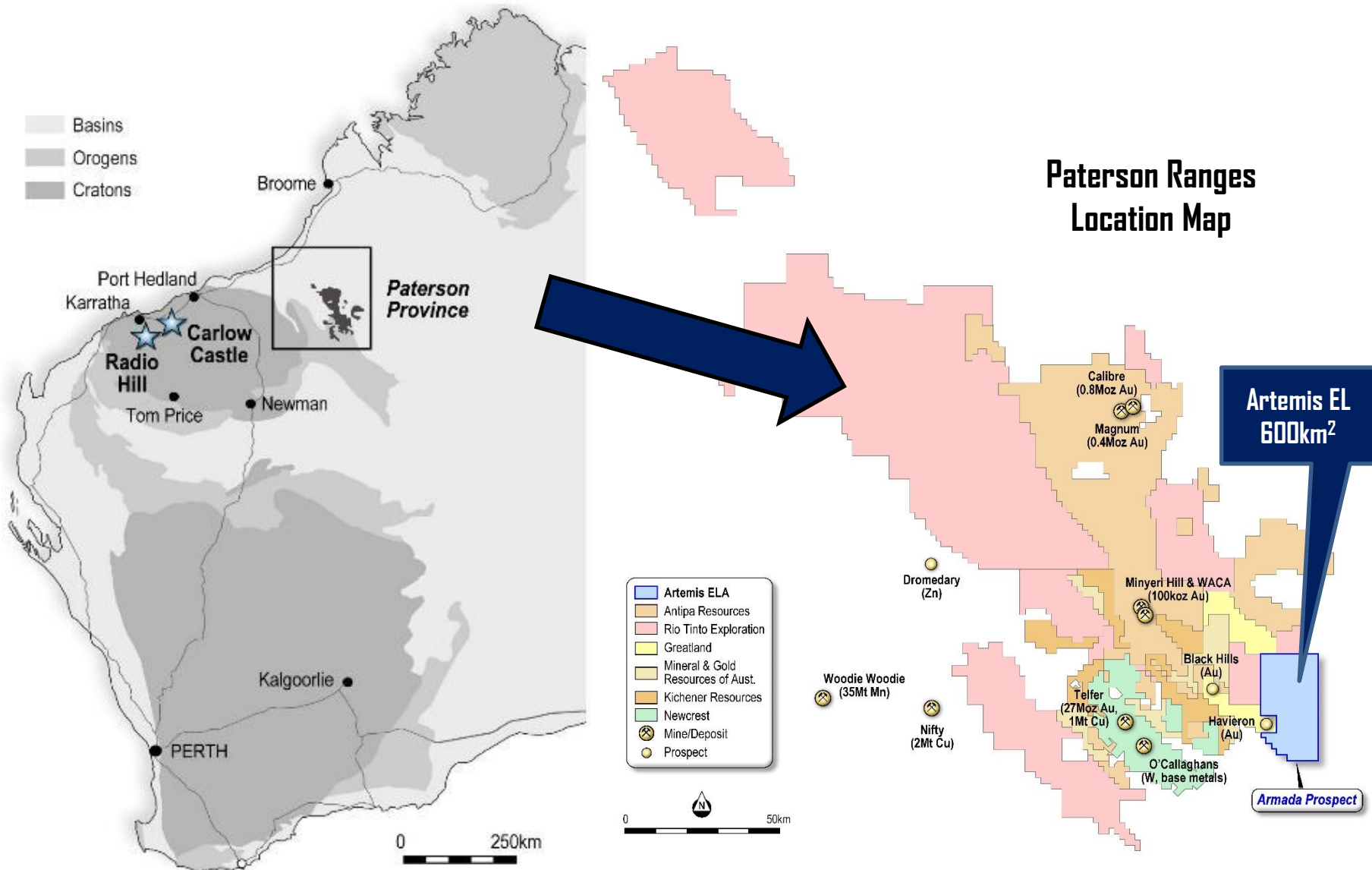


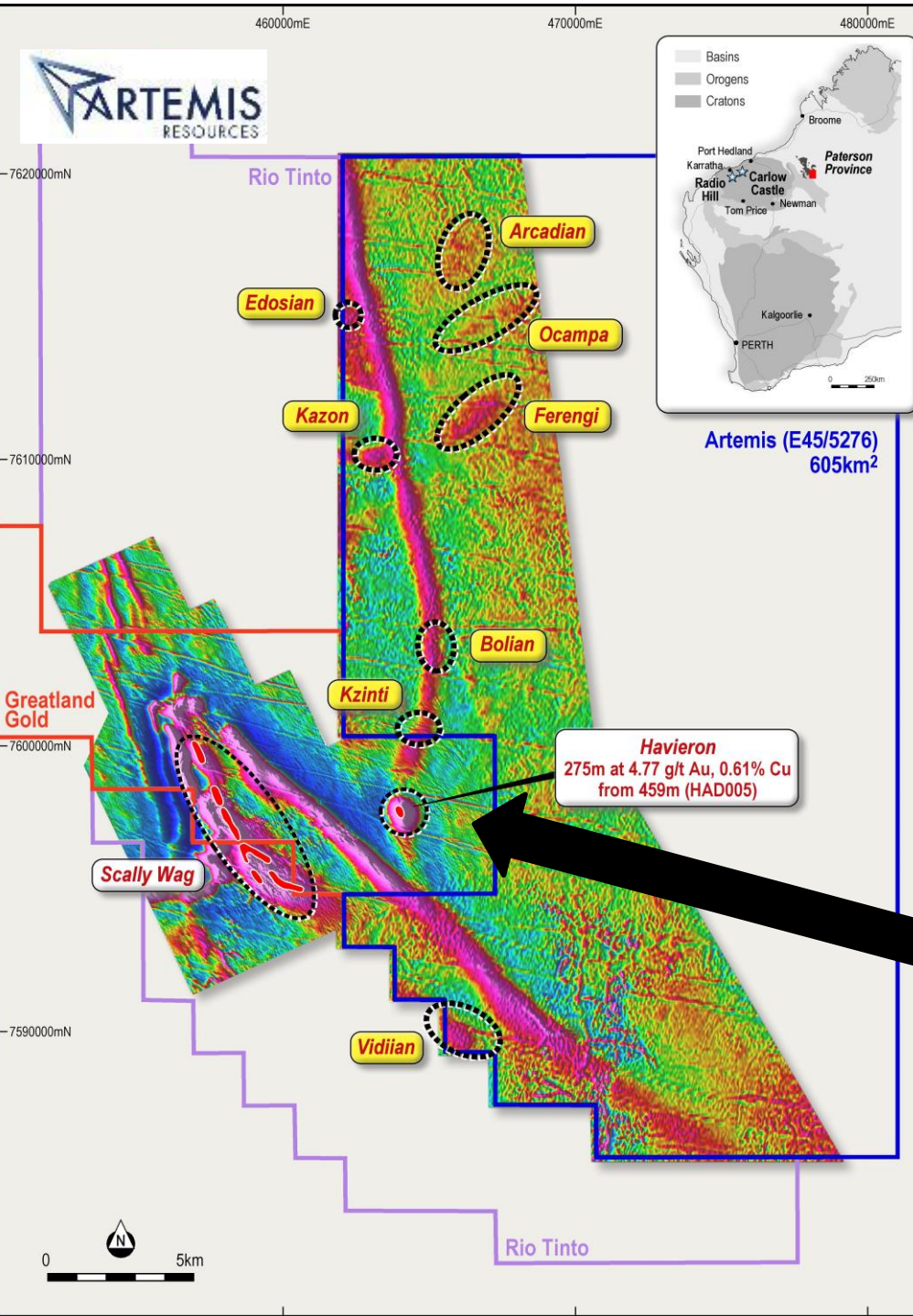


**A JV Partner for Armada Prospect**

**Paterson Ranges, WA**

# E45/5276 - 600km<sup>2</sup> in the Paterson Range





## Armada E45/5276 (100% ARV)

- Granted 600km<sup>2</sup> exploration license in the Paterson Ranges of WA
- Surrounding the Greatland Gold PLC (AIM:GGP) Haverion Project to north, south and east
- GGP drilling at Haverion has intersected high grade Au and Cu\*
- ARV initial MAG survey flown and gravity survey data pending, target vectoring to follow
- Interest in farm-in/buy-in structures from majors is strong

### Highlights of HAD005 Drill Results (\*ASX 19/1/19) :

275m at 4.77g/t gold and 0.61% copper - returned from a upper zone of 118m at 3.08g/t gold and 0.84% copper from 459m to 577m; including:

- 11.5m at 6.23g/t gold and 2.49% copper from 462.5m; and
- 7.5m at 32.83g/t gold and 1.20% copper from 482m.

A lower zone of 157m at 6.04g/t gold and 0.44% copper from 660m to 817m, including:

- 113m at 8.30g/t gold and 0.61% copper from 663m;
- 5.5m at 16.62g/t gold and 0.91% copper from 663m; and,
- 38m at 20.17g/t gold and 0.82% copper from 700m.



## **Radio Hill – A Strategic Asset and Key to Cashflow**



# Radio Hill – A Strategic Pilbara Asset with Expanded Metallurgical Capability



**Refurbished  
mills**

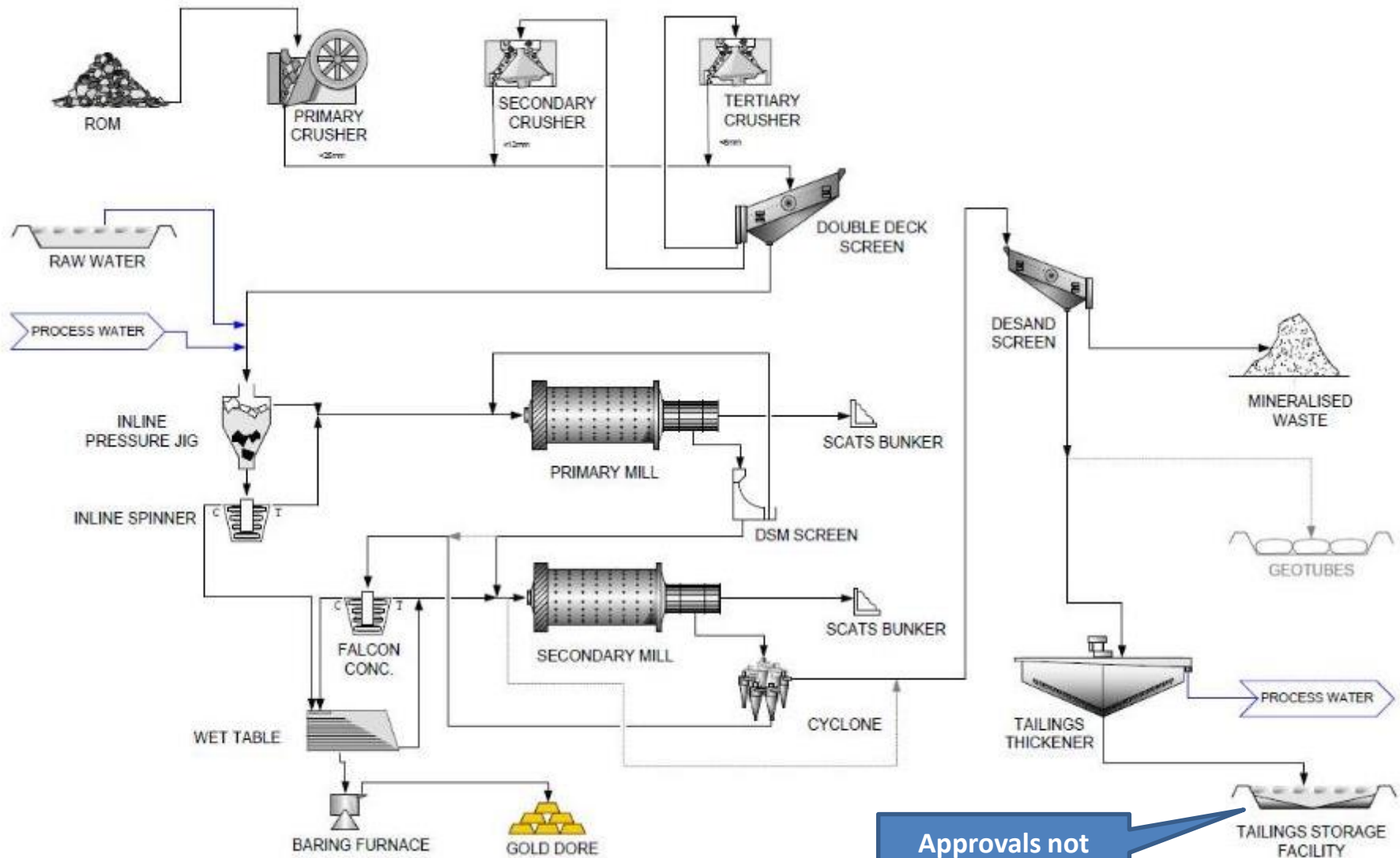
**New Gold  
Room**

**New  
Tertiary  
crusher**

**New Gold  
Circuit**



# Radio Hill Stage 1 – Approved for 0.5Mtpa of Gold Ore Only ( can be expanded to produce base metal concentrates )



Approvals not  
received yet

# On the Road to Achieving Near Term Production



**Artemis is focussed on achieving near-term production and generating cashflow from the Radio Hill assets to deliver significant value to our shareholders.**

**To date Artemis has made a significant investment into the Radio Hill refurbishment and construction of a new gravity gold circuit and regional exploration to define a resource base that can support the transition to sustainable production and cash flow.**

**To advance the strategy during 2019, Artemis is now planning to:**

- **convert Inferred resources to Indicated classification at Carlow Castle Au-Cu-Co Project by drilling - complete initial mine optimization evaluation and financial modelling and deliver a PFS in late 2019;**
- **work with partners and other regional explorers to aggregate potential toll-milling Au ore - for Radio Hill**
- **advance exploration on high value vein/shear hosted Au targets within trucking distance to Radio Hill – first priorities are Monarch and Conqueror;**
- **seek a well funded JV partner to advance the Armada Prospect - in the Paterson Ranges;**
- **maintain the Radio Hill plant - until at least 3 years of plant feed is defined and available to support plant startup;**
- **review all non-core assets for divestment or JV - asset review being undertaken.**

# THANK YOU

For further information on this announcement or the Company generally, please visit our website at [www.artemisresources.com.au](http://www.artemisresources.com.au) or contact:

**Wayne Bramwell | Chief Executive Officer**

**E: [wayne.bramwell@artemisresources.com.au](mailto:wayne.bramwell@artemisresources.com.au)**