



# Artemis Resources Limited

Investor Presentation  
Q1 2021





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## Competent Person Statements

Information in this document that relates to Estimation and Reporting of Mineral Resources for the Carlow Castle deposit is based on information compiled by Dr Matthew Cobb, who is a Member of the Australian Institute of Geoscientists. Dr Cobb was employed as a Principal Geologist and was a full-time employee of CSA Global but is no longer within their employment. The Carlow Castle Mineral Resource has not been recalculated since the work was completed by Dr Cobb. Dr Cobb has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as Competent Persons as defined in the 2012 Edition of the “Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves”. Dr Cobb consents to the inclusion in the report of the matters based on their information in the form and context in which it appears.

The information in this document that relates to Exploration Results for Carlow Castle is based on information compiled or reviewed by Allan Younger, who is a Member of the Australasian Institute of Mining and Metallurgy. Mr Younger is an employee of Artemis Resources Limited. Mr Younger 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 Younger consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

The information in this document that relates to Paterson Central Exploration Results is based on information compiled or reviewed by Dr Jayson Meyers, who is a Member of the Australasian Institute of Mining and Metallurgy. Dr Meyers is a consultant to the Company and is managing Director of Resource Potentials. Mr Meyers 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 Meyers consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

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# Corporate Snapshot



## Artemis Resources Ltd

ASX: ARV

FRA: ATY

QTCQB: ARTTF

Shares On Issue @ 22/03/2021	c.1137M <sup>1</sup>
Share Price A\$ @ 22/03/2021	0.082
Market Cap A\$ @ 22/03/2021	~A\$93M
Cash + Liquid Investments end January 2021	~A\$7.0m
Top 20 shareholders	~55%
Directors + Senior Management	~9% (shares & options)
Share Distribution	Australia ~70% Europe ~25% ROW ~5%

1. c.158M options @ various strike details

## Board of Directors and Key Management

### Non-Executive Chairman: Mark Potter

- Financier/Engineer
- Director and Chief Investment Officer of AIM-listed mining investment company Metal Tiger PLC
- Non-executive Director of AIM-listed mining royalty investment company Trident Resources PLC
- Previously Director and Chief Investment Officer of royalty and streaming company Anglo Pacific Group PLC and Investment Director of activist hedge fund Audley Capital

### Executive Director: Alastair Clayton

- Financier/Geologist with 25 years' experience in mining investment, corporate and hedge funds
- Director of ASX100 Extract Resources/Kalahari Minerals PLC sold for A\$2.2B
- Co-founder of dividend payer Universal Coal PLC
- Former Director of Primorus Investments PLC

### Executive Director: Boyd Timler

- Exploration and resource geologist with 40 years' experience
- Ex-MD of ASX listed gold producer Medusa Mining and COO of Panoramic Resources
- Ex-Barrick Gold senior positions. Geologist with 25 years' experience in gold and base metals exploration, mine development and mine production.

### CFO/Company Secretary: Guy Robertson

- More than 30 years' finance and senior executive experience across Australia and Asia
- Finance Director of Hastings Technology Metals Ltd (ASX) and Executive Director of Metal Bank Ltd (ASX)

### Non-Executive Director: Dan Smith

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

### Non-Executive Director: Edward Mead

- Geologist with 25 years' experience in gold and base metals exploration, mine development and mine production
- 17 years' West Pilbara geology experience for private and public companies



# Two extraordinary gold-copper opportunities in Western Australia

## Carlow Castle Gold-Copper Project

- **Fast-growing Gold-Copper-Cobalt resource, regional exploration.**
- **Strategic and highly prospective 1,059km<sup>2</sup> tenement package ~30km south of Karratha.**
- **100%-owned Radio Hill processing plant 35km from Karratha (on care & maintenance).**

## Paterson Central

- **High potential greenfield exploration opportunity in one of the Pilbara's most exciting gold-copper exploration frontiers.**
- **100% owned 600km<sup>2</sup> exploration licence covering the Paterson Central prospects.**
- **Paterson Central adjacent to the world class Havieron Au-Cu discovery made by Greatland Gold (LON: GGP) and now being advanced by Newcrest Mining (ASX: NCM).**
- **First phase maiden drilling of 3 holes completed in Q4 2020, awaiting final assay results.**
- **Phase 2 drill programme planned for Q2 2021**





# The Carlow Castle Story

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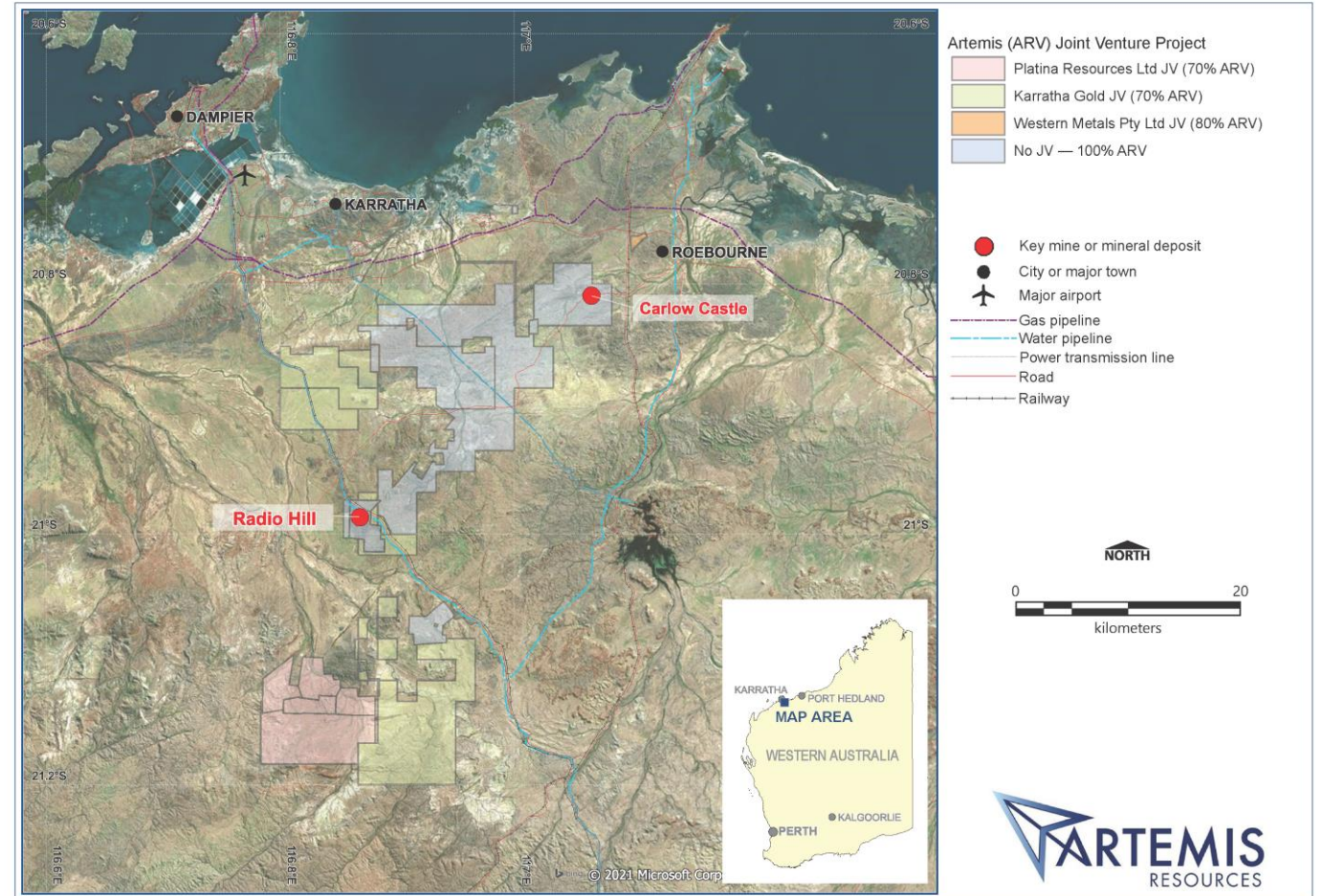




# Carlow Castle Gold-Copper Project

## Carlow Castle Project

- Western Pilbara, 30km from Karratha
- Within Artemis Resources highly prospective 1,059km<sup>2</sup> tenement belt
- 100%-owned Radio Hill processing plant 35km from Karratha (on care & maintenance)
- Advance stage exploration project
- Project transitioning to a resource drill-out program to deliver “Project One Million”





## History

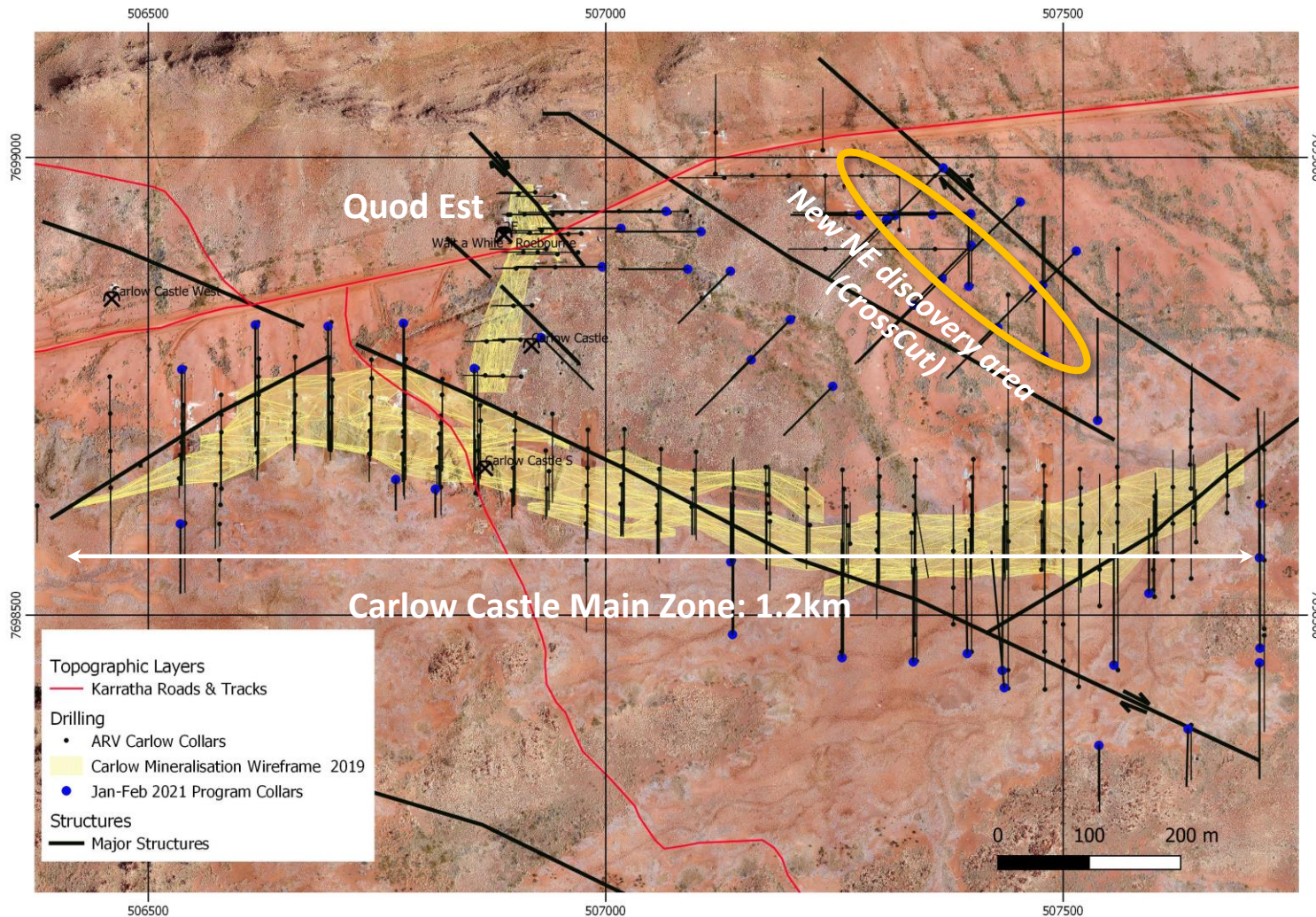
- Copper and gold first discovered in 1874
- By 1898 lode copper and gold were being mined at Quod Est
- Carlow Castle, Quod Est, Good Luck and Little Fortune were intermittently mined until 1930's
- First Resource by Legend Resources in 2007
  - 450kt @ 2.38g/t Au, for 34,446 oz Au
- Goodluck – Little Fortune drilled 2015
- First Artemis drilling 2017
- **A new resource estimate in 2019; based on**
  - 189 RC holes for 23,083m
  - 12 DDH holes for 1,504m

Carlow Castle Mineral Resource							
CSA Global 2019 MRE							
Type	Inferred				Total Metal Content		
	Tonnes Kt	Au g/mt	Cu %	Co %	Au Koz	Cu Kt	Co Kt
Fresh	5,100	2.1	0.6	0.10	353	32	5
Oxide	2,800	0.7	0.6	0.05	65	17	2
<b>Total</b>	<b>8,000</b>	<b>1.6</b>	<b>0.6</b>	<b>0.08</b>	<b>418</b>	<b>48</b>	<b>7</b>

## Recent History

- Limited activity while Artemis Resources restructures in 2019 to early 2020
- **Additional drilling completed since last MRE was calculated:**
- 2020 Q4 drilling consisted of 73 holes for 11,113m drilling
  - 63 RC holes for 7,552m
  - 10 DDH holes for 3,561m
- 2021 Q1 program of 55 RC holes for 10,500m completed 10th March 2021





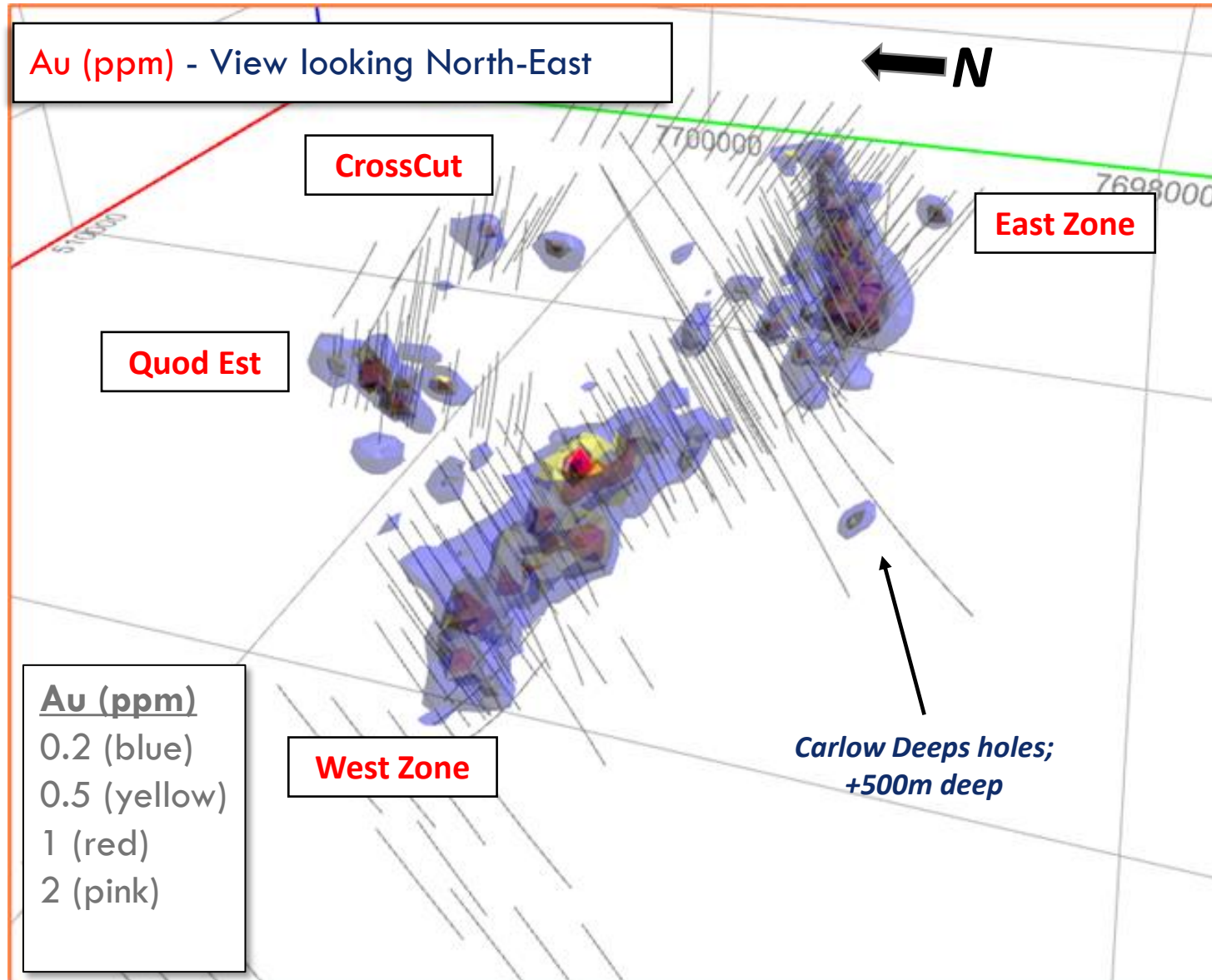
## • 2020 - 2021 Activities:

- Carlow Castle Main zone is 1.2km in strike
- New N-E Zone Discovered in Q4 2020 (CrossCut Zones)
- Carlow Deeps drilled in Q4 2020
  - Extended known mineralisation to over 550m below surface on the Main Eastern Zone

## • Geology:

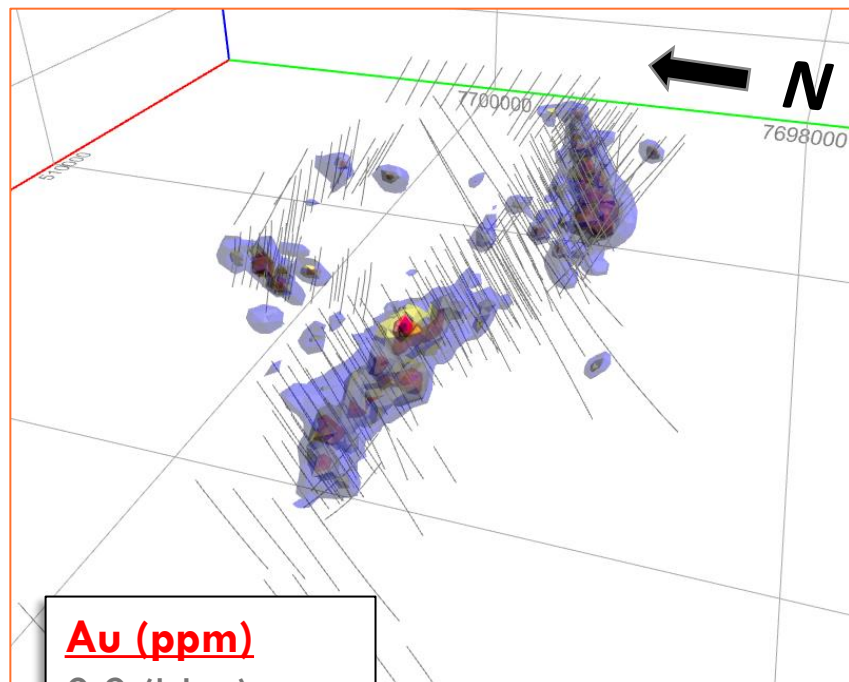
- Archean greenschist meta-basalt with weak shearing fabric
- Au-Cu-Co mineralisation is within a subtle alternation envelope with minor silica and low levels of sulfidation
- Au in pyrite, pyrrhotite, Cu in Chalcopyrite/Chalcocite, Co in Cobaltite





- Leapfrog 3D isometric view of Au alteration zone at 0.2 g/t cut-off
  - Ore body has broad alteration zone (Halo) outside of the high-grade trends
- High grade zones fall within the broad alteration halos for Au, Cu, Co
  - NOTE: Q1 2021 holes not shown on 3D views and sections

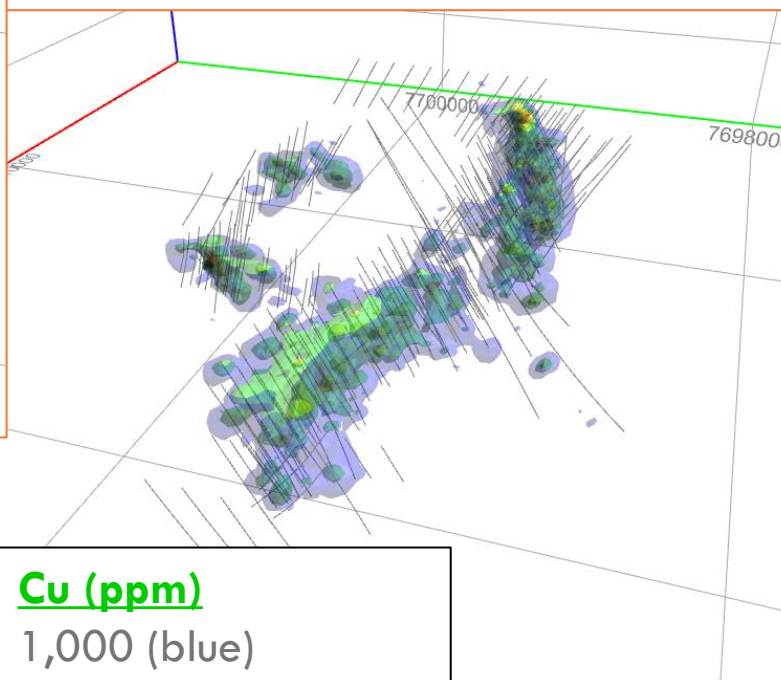




**Au (ppm)**

0.2 (blue)  
0.5 (yellow)  
1 (red)  
2 (pink)

**Consistent Gold – Copper – Cobalt  
Halo's on all mineralized zones**

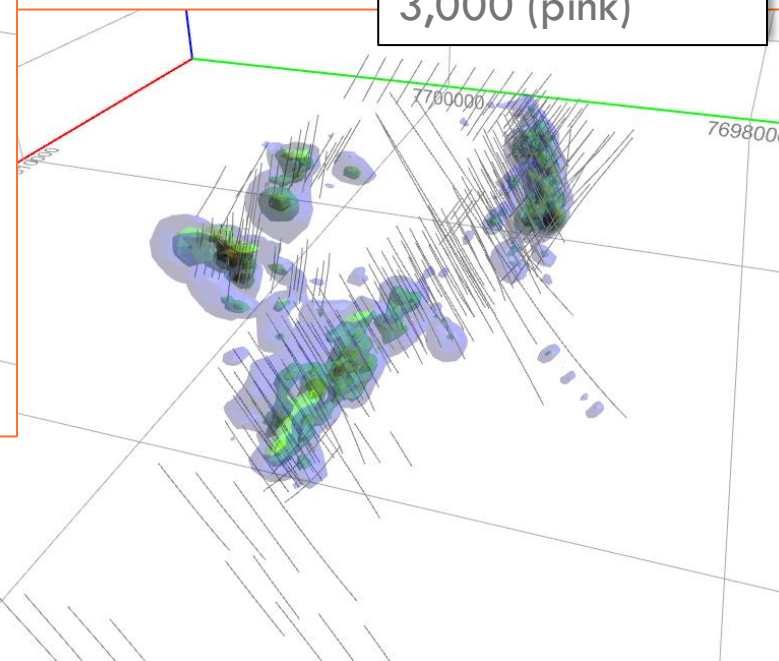


**Cu (ppm)**

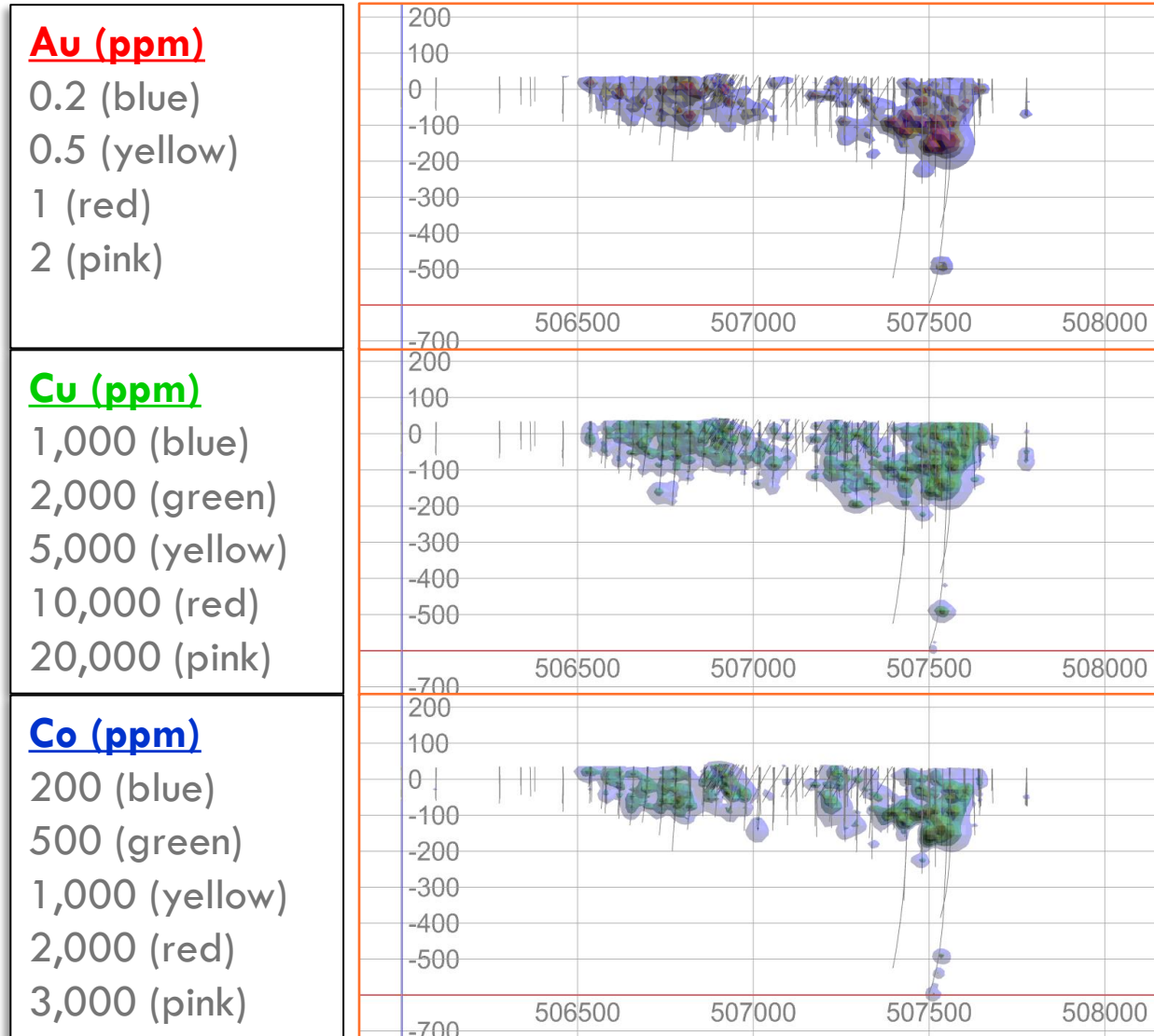
1,000 (blue)  
2,000 (green)  
5,000 (yellow)  
10,000 (red)  
20,000 (pink)

**Co (ppm)**

200 (blue)  
500 (green)  
1,000 (yellow)  
2,000 (red)  
3,000 (pink)



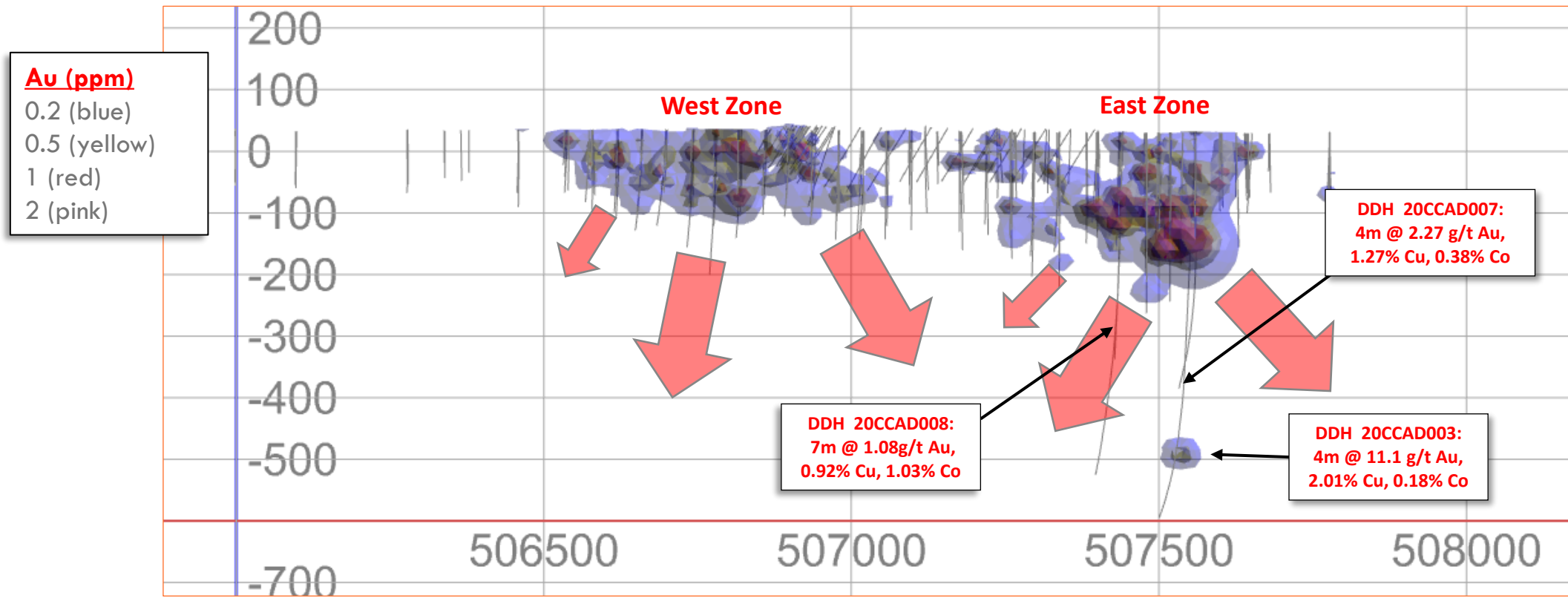




- **Leapfrog model showing Au-Cu-Co mineralisation**
- Strong correlation between the multi-element high grade zones and alteration halos
- MRE at 418,000 oz resource @ 1.6g/t Au, 0.60% Cu and 0.08% Co
  - Based on +250 RC and DDH holes for 24,587m
  - Calculated prior to the 2020 Q4 drilling program; 63 RC and 10 DDH's for 11,113m
  - 2021 program of 55 RC holes for 10,500m completed on 10th March 2021



# Carlow Castle Gold-Copper Project: Long-Section View Looking North

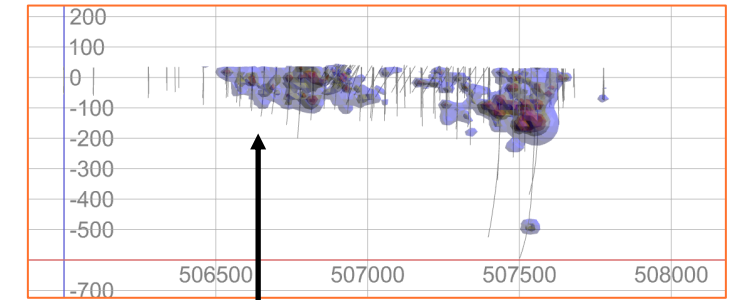
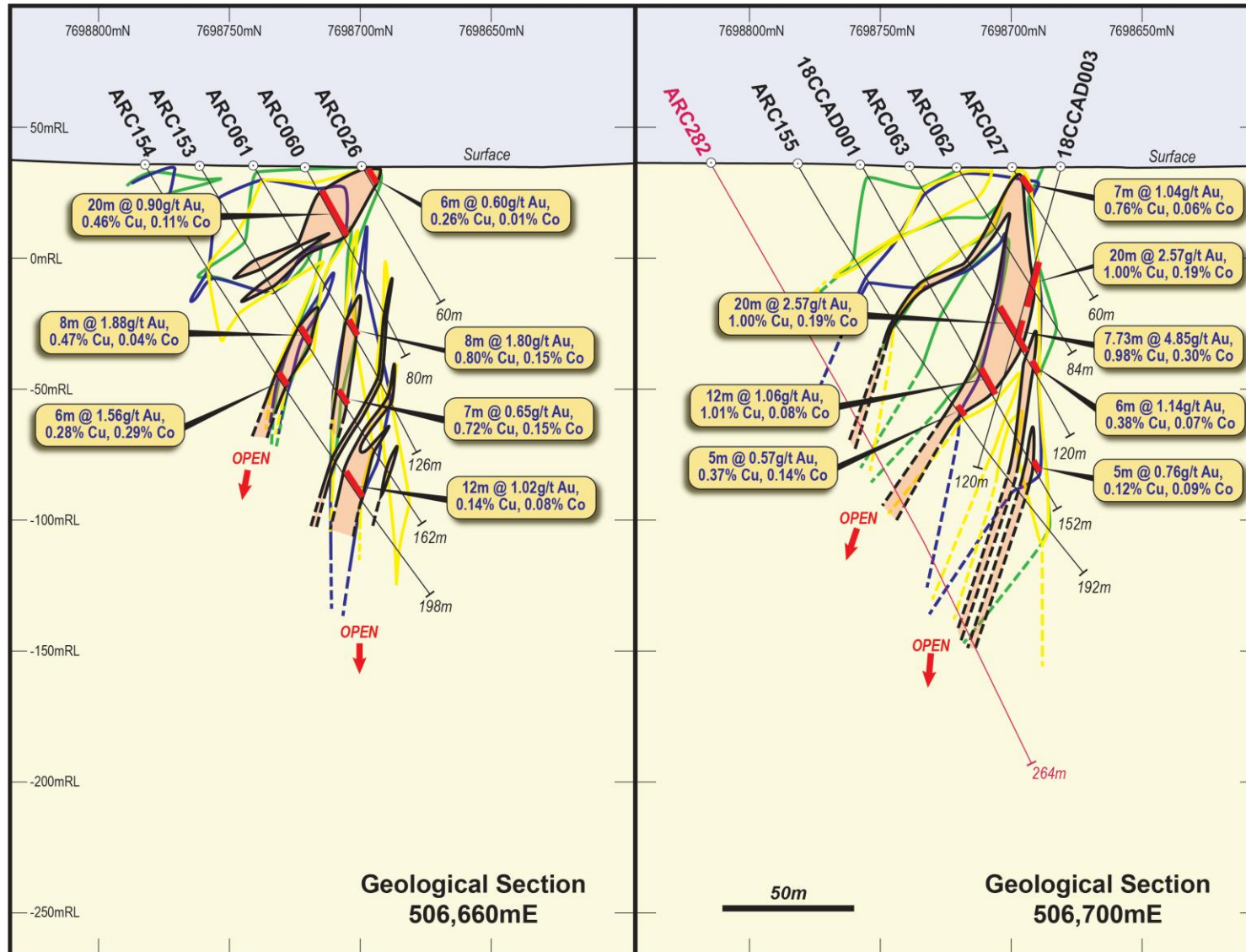


- **Leapfrog model showing Au mineralization**
- West Zone only drilled to ~120m depth on 600m strike
- East Zone only drilled to ~240m depth on 500m strike
- Quod Est only drilled to <100m depth on 250m strike
- CrossCut has intercepts <100m depth on +250m strike

- **Q1 2021 Drill program**
- Drill hole traces not shown on the sections
- Targeting ~40m step-out drilling on the main downdip trends on the East, West and Quod Est zones
- More shallow holes in the new CrossCut area

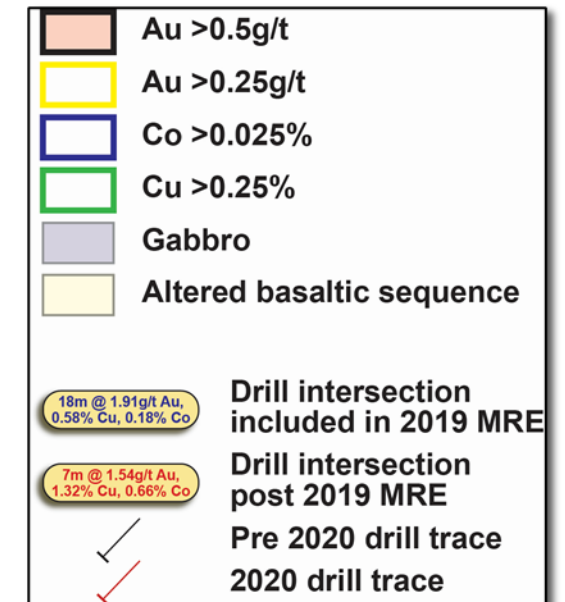


# Carlow Castle Gold-Copper Project: Cross-Section View Looking East – West Zone



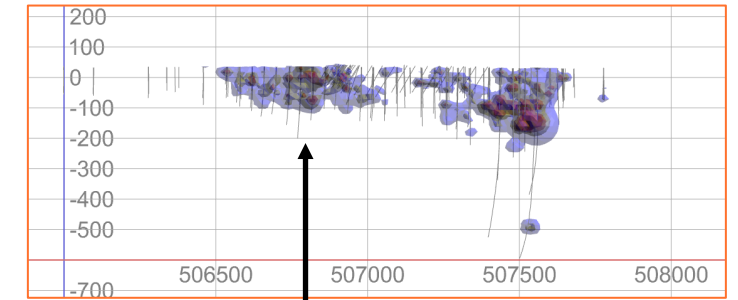
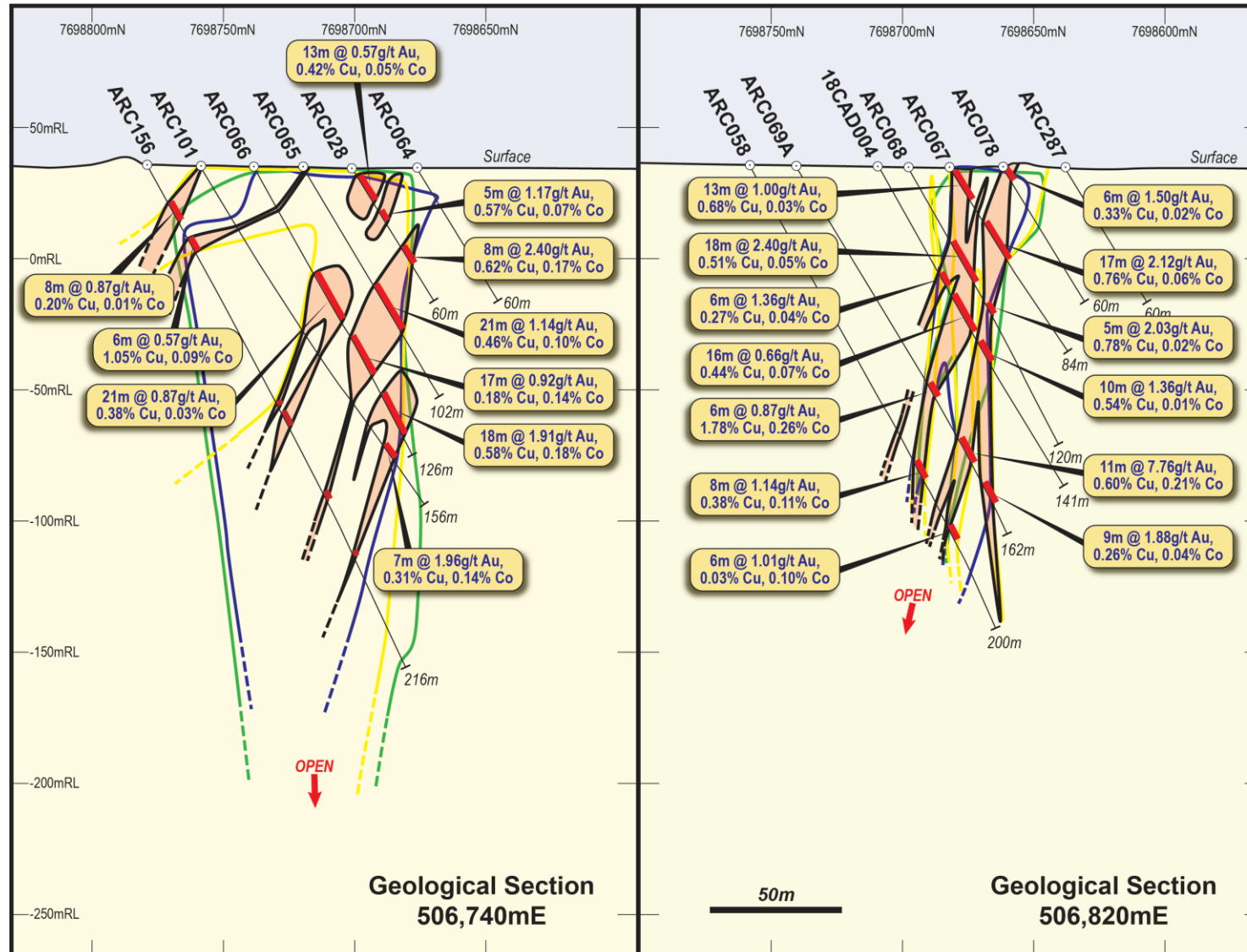
Sections; 506,660E & 506,700E

Au-Cu-Co halo is +50m wide in the West Zone

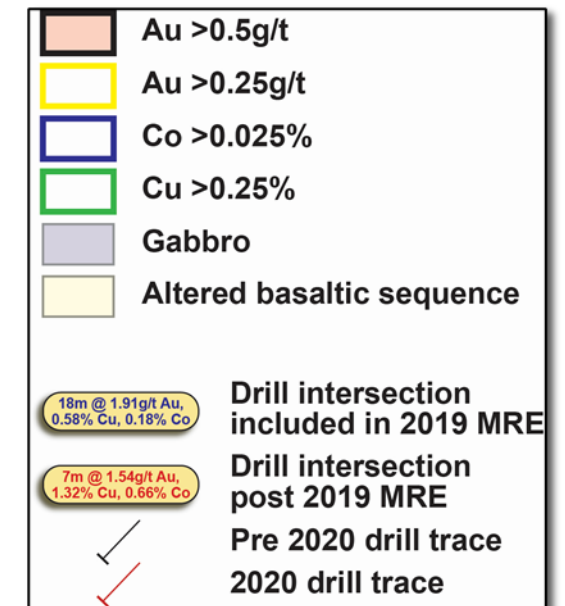




# Carlow Castle Gold-Copper Project: Cross-Section View Looking East – West Zone

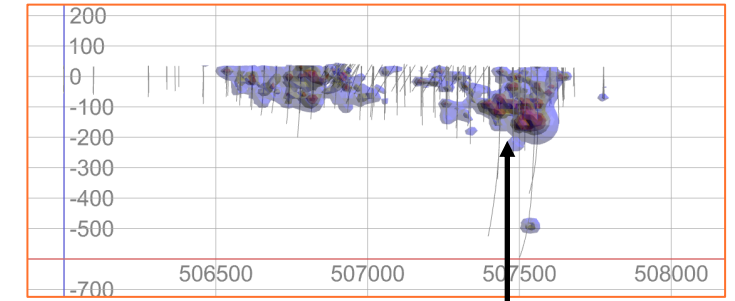
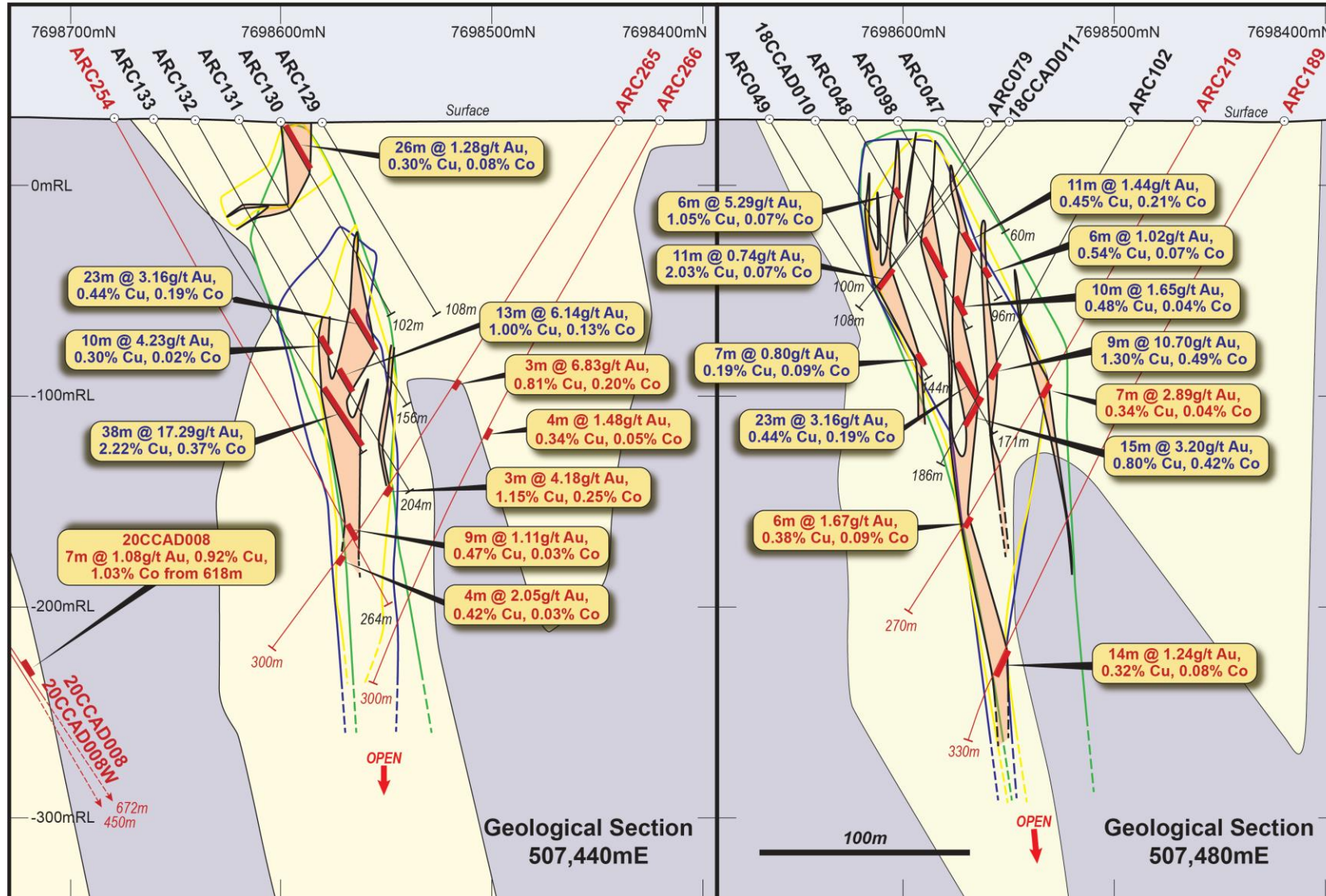


Au-Cu-Co halo is +50m wide in the West Zone



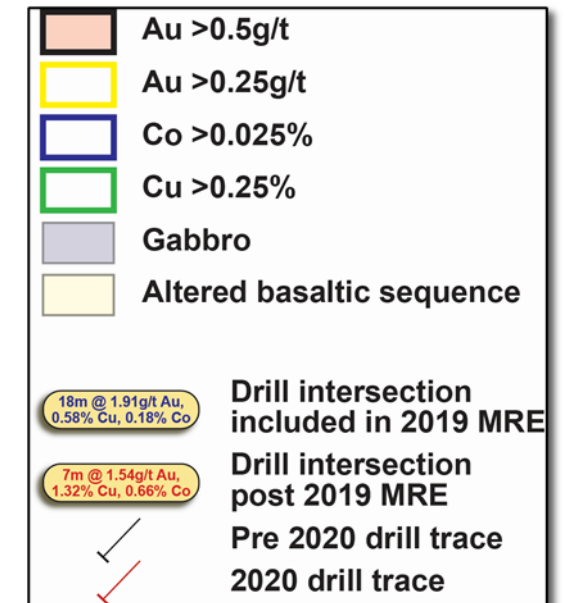


# Carlow Castle Gold-Copper Project: Cross-Section View Looking East – East Zone



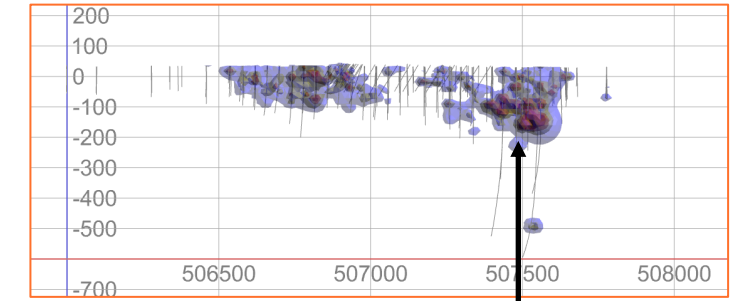
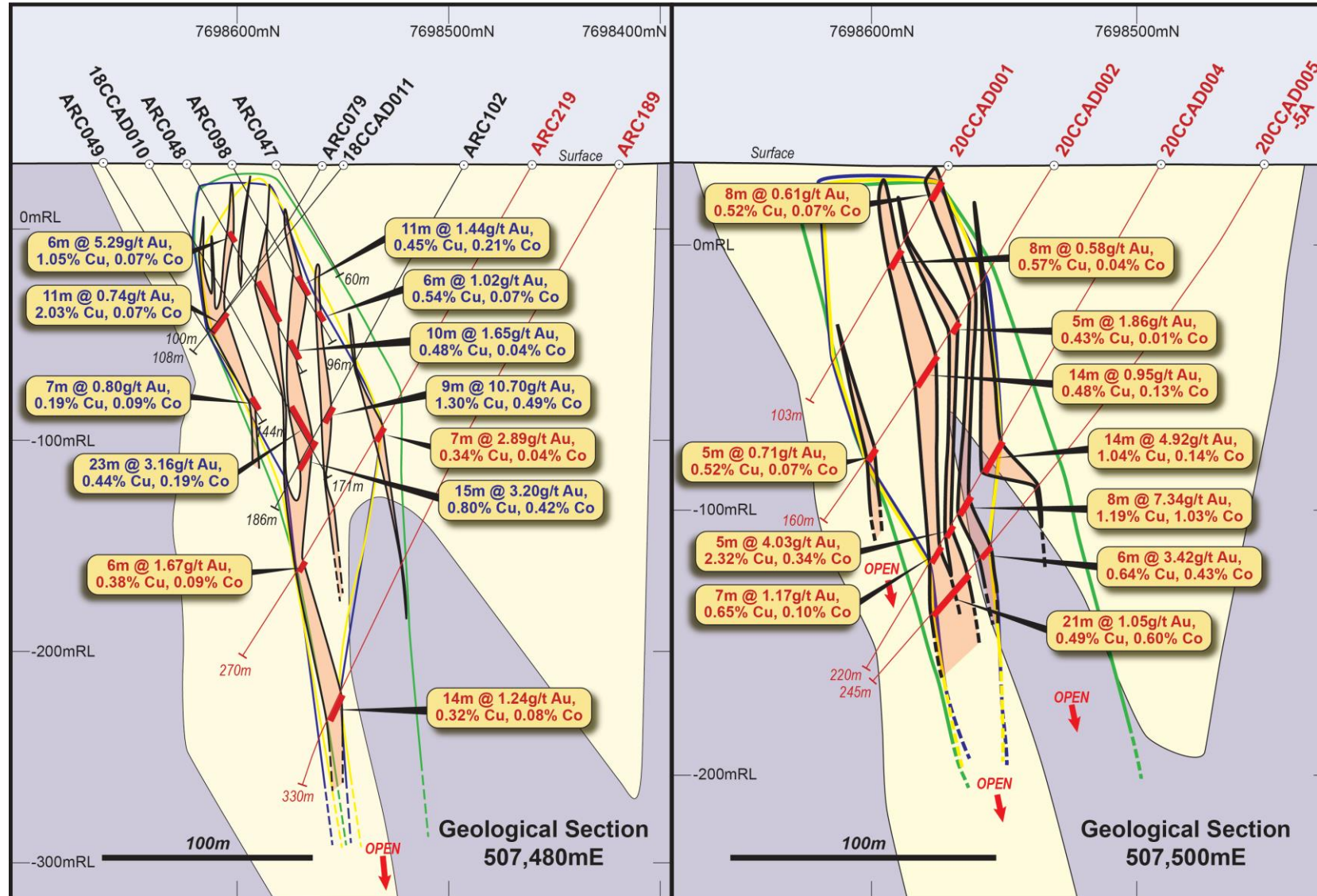
Sections; 507,440E & 507,480E

**Au-Cu-Co halo is +30m wide in the East Zone**



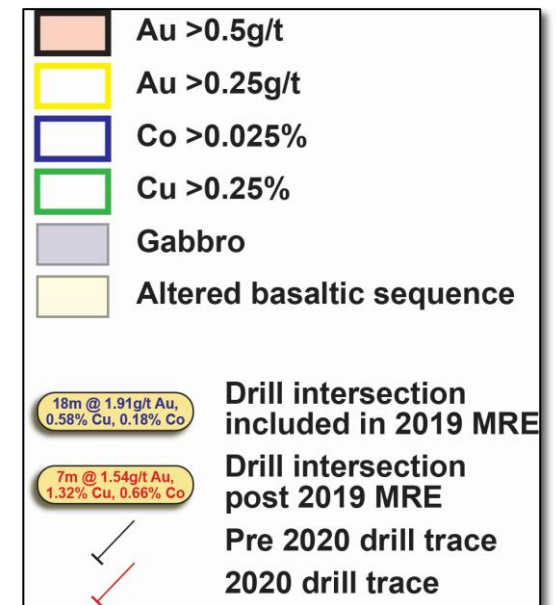


# Carlow Castle Gold-Copper Project: Cross-Section View Looking East – East Zone



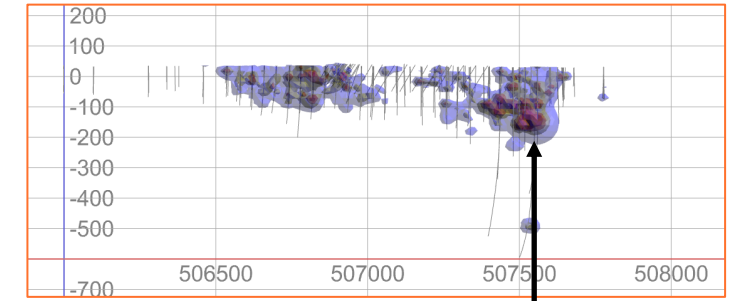
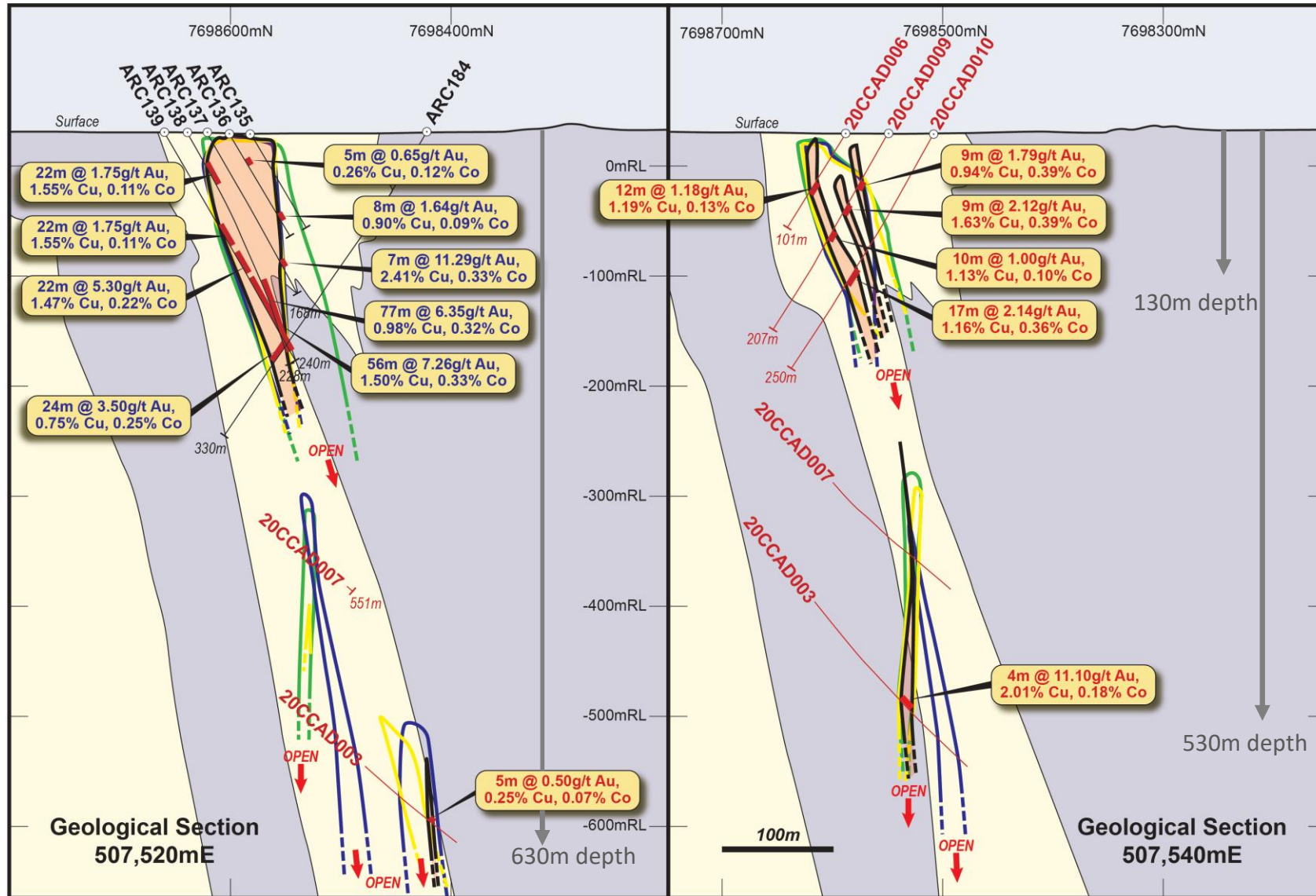
Sections; 507,480E & 507,500E

**Au-Cu-Co halo is +50m wide in the East Zone**



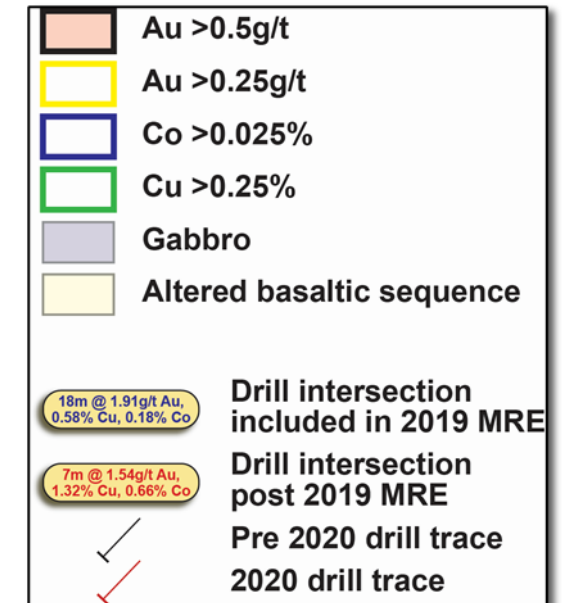


# Carlow Castle Gold-Copper Project: Cross-Section View Looking East – East Zone



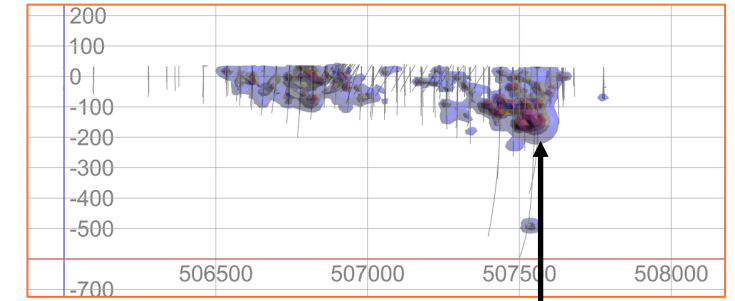
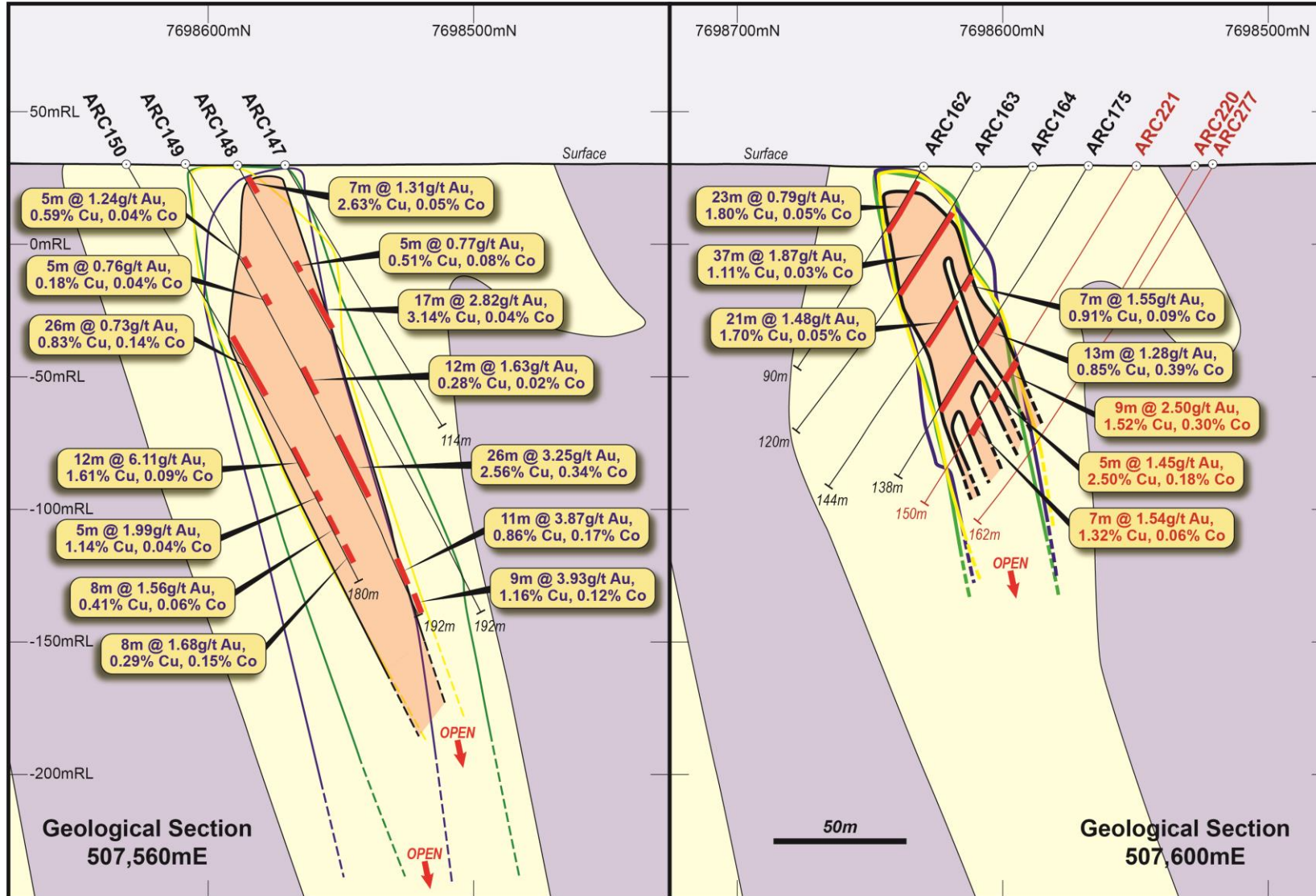
Sections; 507,520E & 507,540E

**Au-Cu-Co halo is +30m wide in the East Zone**



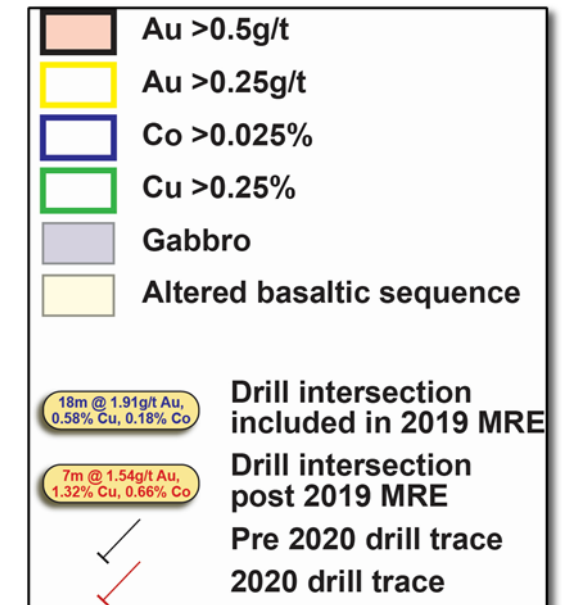


# Carlow Castle Gold-Copper Project: Cross-Section View Looking East – East Zone



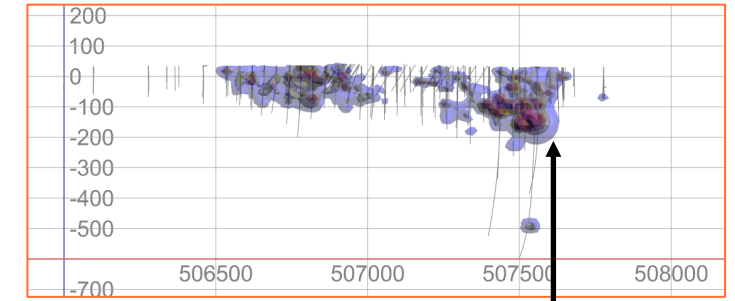
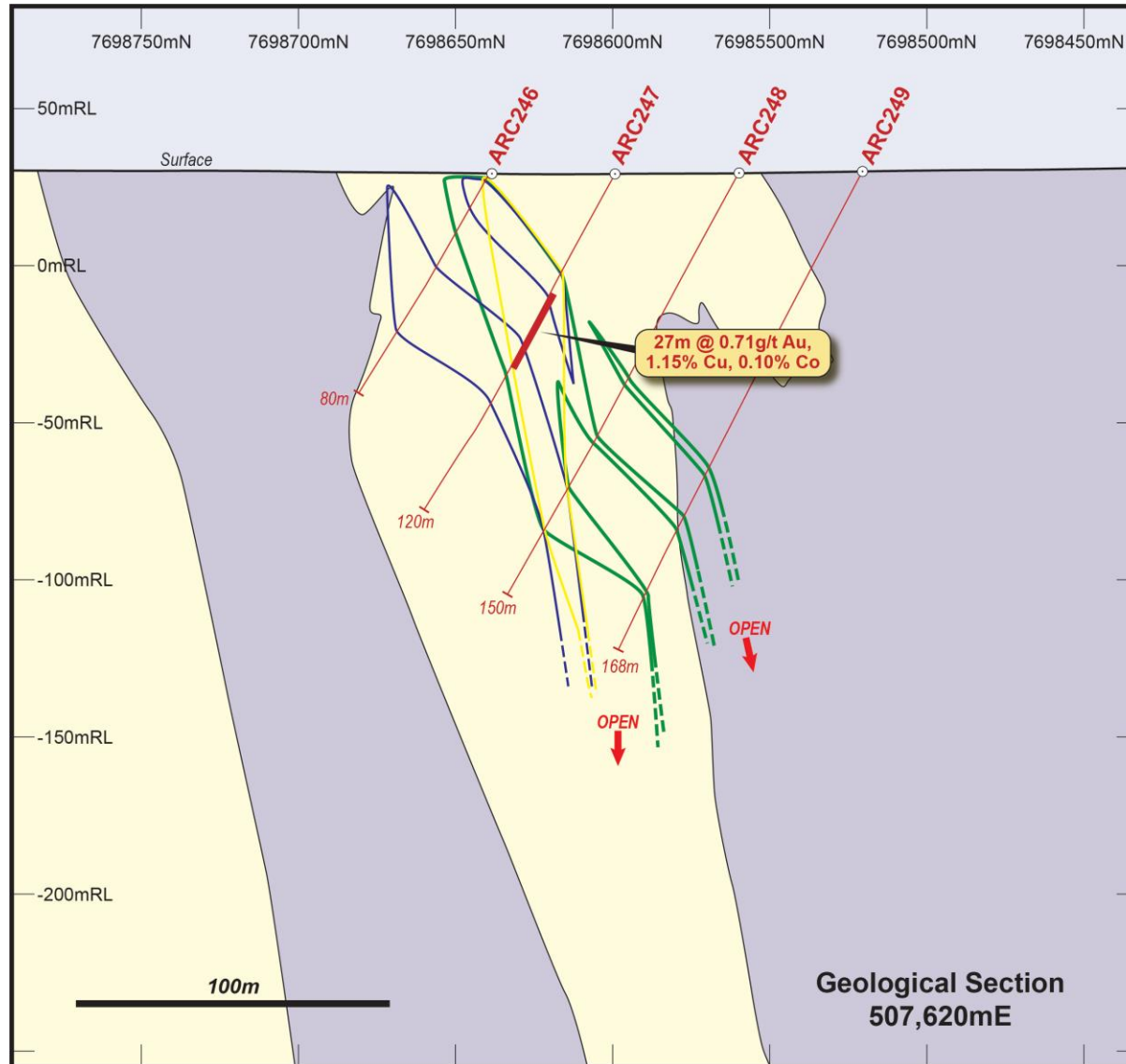
Sections; 507,560E & 507,600E

**Au-Cu-Co halo is +30m wide  
in the East Zone**



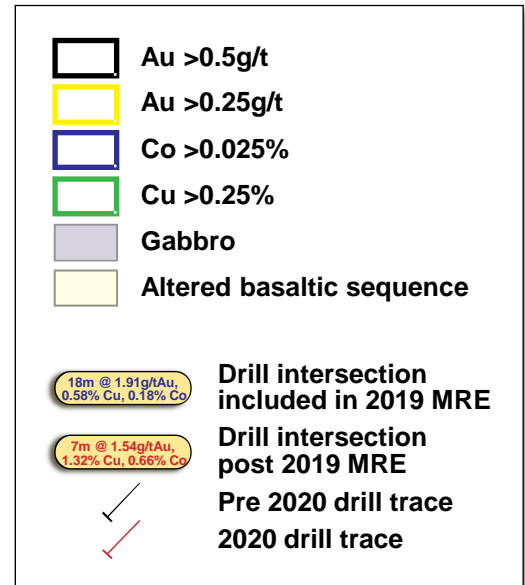


# Carlow Castle Gold-Copper Project: Cross-Section View Looking East – East Zone



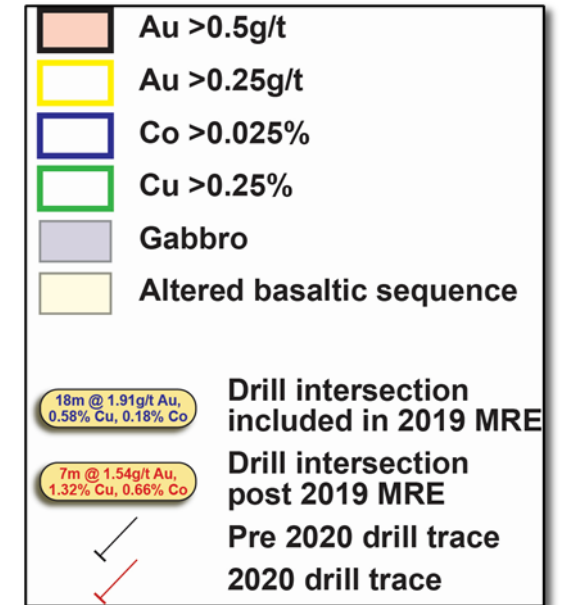
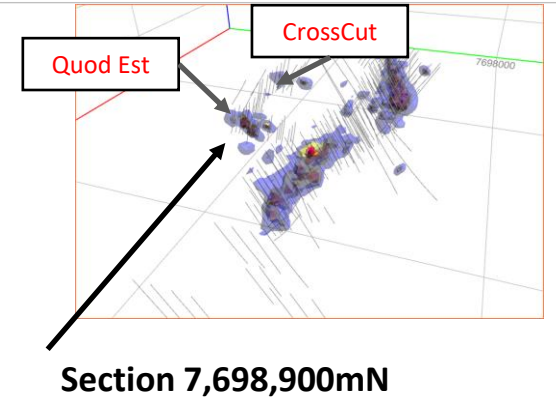
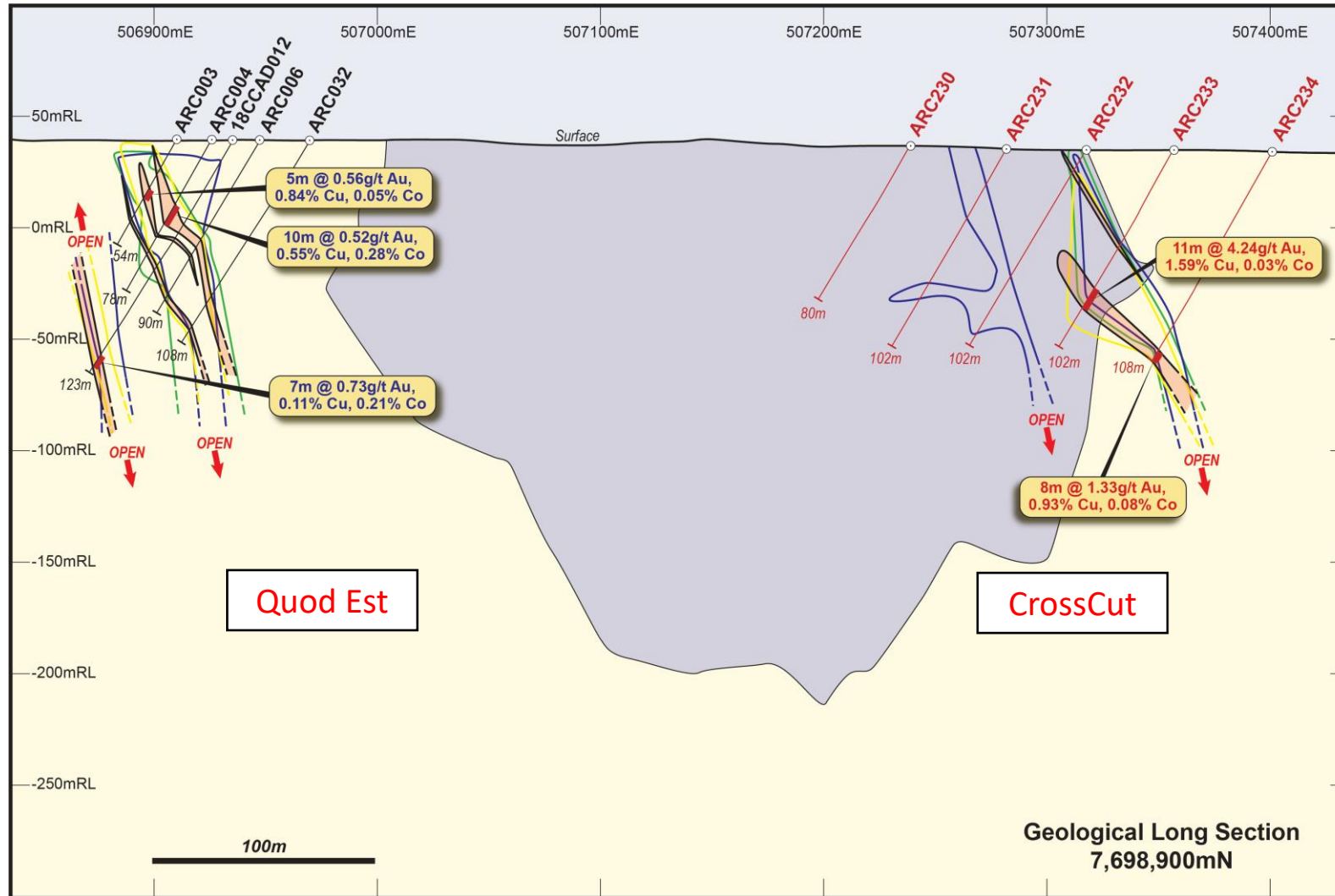
Sections; 507,620E

Au-Cu-Co halo is +20m wide  
in the East Zone



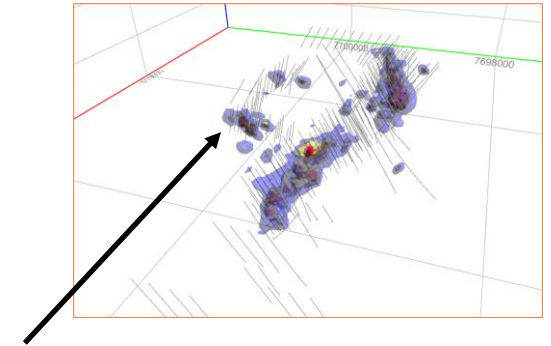
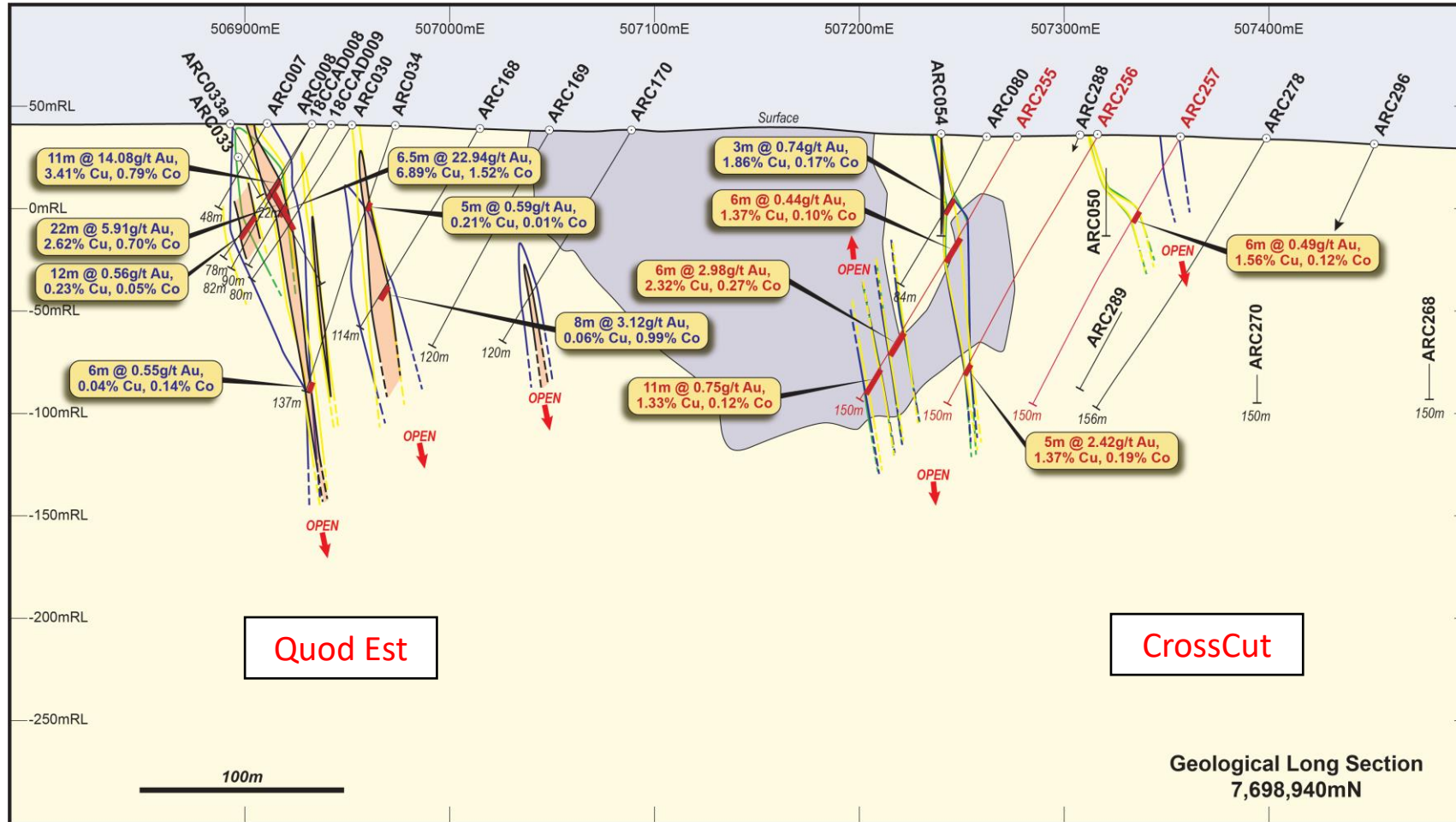


# Carlow Castle Gold-Copper Project: Cross-Section View Looking North – Quod Est & CrossCut Zones

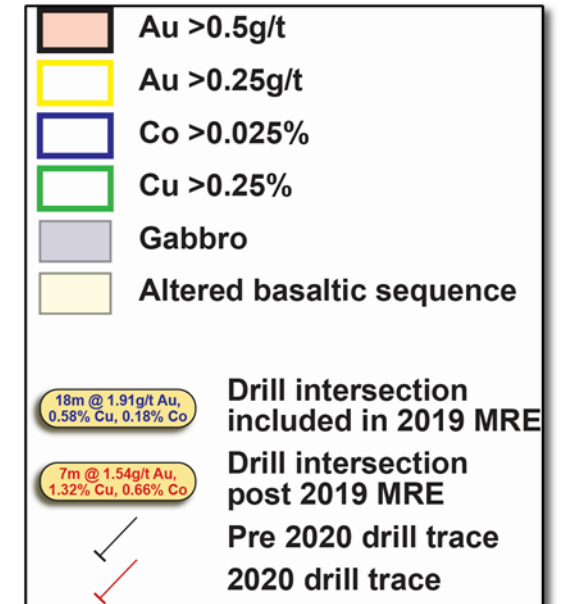




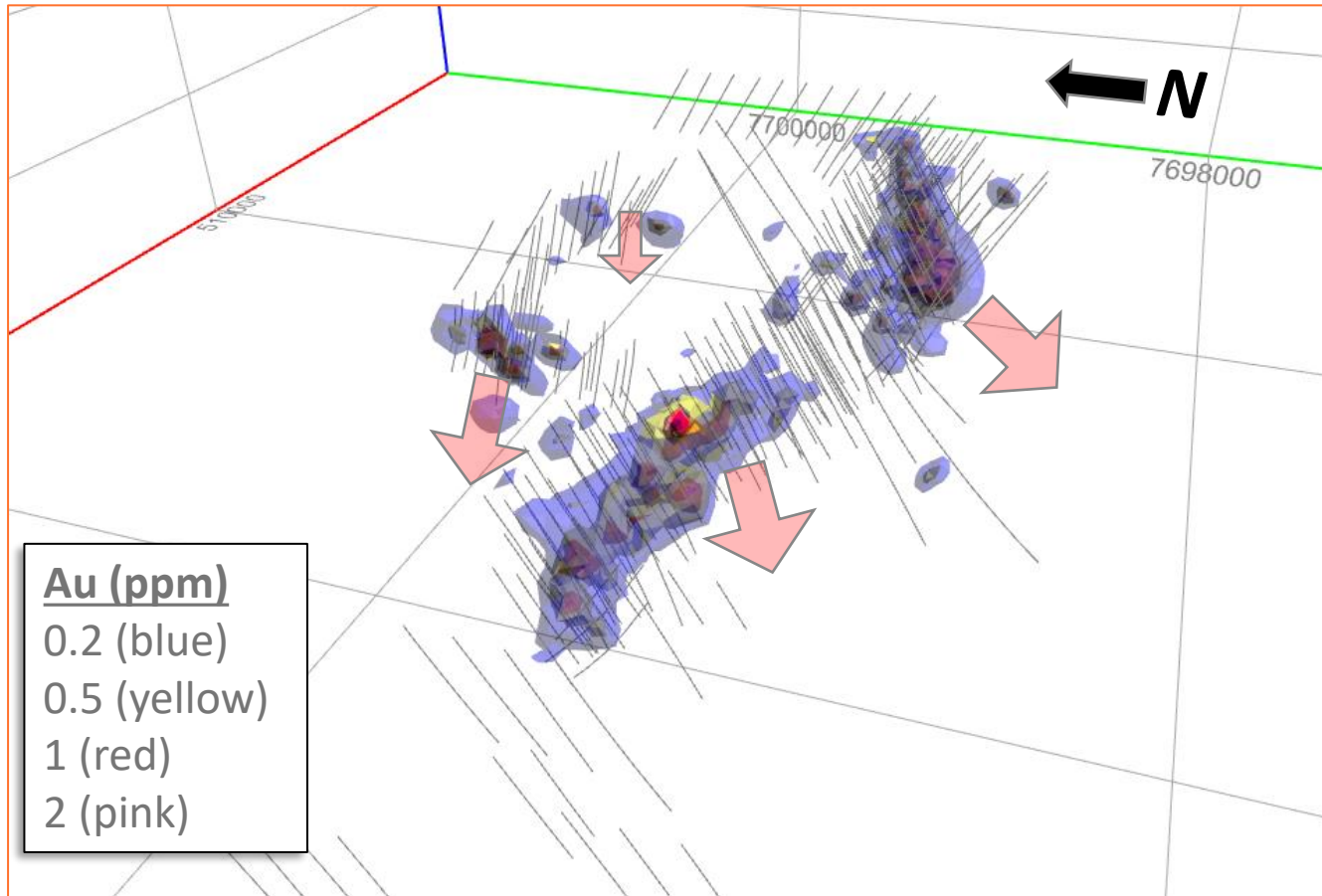
# Carlow Castle Gold-Copper Project: Cross-Section View Looking North – Quod Est & CrossCut Zones



Section 7,698,940mN







- **Resource growth in multiple directions and at depth**
- Main Zone 1.2km strike
- Quod Est open below 100m
- West Zone open below 120m
- East Zone open below 240m
- Carlow Deeps intercepted mineralisation 630m below surface
- CrossCut; new discovery, open on strike and depth



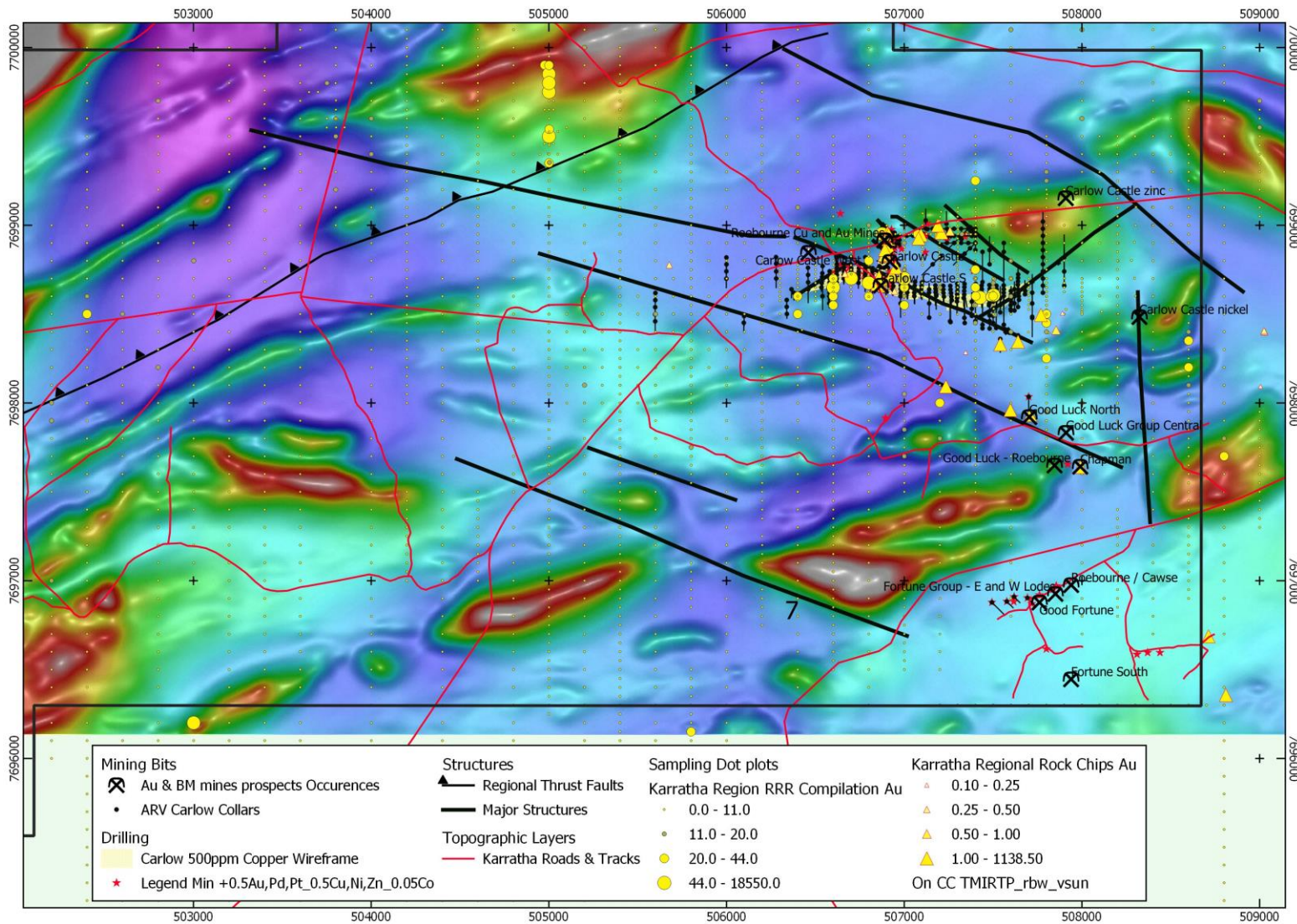
- **Resource growth in multiple directions and at depth**
- 2021 Q1 assay results in March - April
- 2021 Q2 proposed drilling:
  - 1,400m DDH on Main Zone (structural and geotech)
  - 10,000m RC step-up drilling on all zones
- **2021 Q2 upgraded mineral resource calculation**
- Based on 21,000m in 123 new RC and DDH holes
  - will include some results from 2021 Q2 program
- CSA Global engaged in Q1 2021
  - structural geology mapping and geotechnical mapping of diamond core
  - litho-geochemical and geometallurgical assessment of 350 drill hole data set
  - calculate an upgraded mineral resource



Mineral Resource Recalculation; Mid-2021



# Carlow Castle Gold-Copper Project: Exploration Upside



- **Tenement Exploration**
- Q1 2021 geophysical IP survey over eastern 1/3 of tenement; over and near Carlow Castle
- High resolution aero-mag survey completed in Q4 2020
- Historic workings identified at Good Luck and Little Fortune
- Previous Artemis management drilled Good Luck and Little Fortune in 2015 with no follow-up



# The Carlow Castle Story

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- **Current Resource:**
- **418,000 oz of Au at 1.6g/t**
- **48,000 tones of Cu metal at 0.60%**
- **7,000 tones of Co metal at 0.08%**
- New 2021 Q2 resource with 113 additional holes
- Main West & East, Quod Est & Crosscut zones all open at depth
- High grade ore shoots all within a broad alteration halo of 0.25g/t Au, 0.25% Cu, 0.025% Co
- Good Luck and Little Fortune areas requires immediate follow-up
- DDIP completed over eastern 30% of tenement
- 30km from Karratha with fully supported infrastructure
- **“Project One Million” on track**
- **Artemis under new leadership**



# Paterson Central

Pure Exposure to a Tier 1  
Au-Cu Exploration Frontier in  
Western Australia

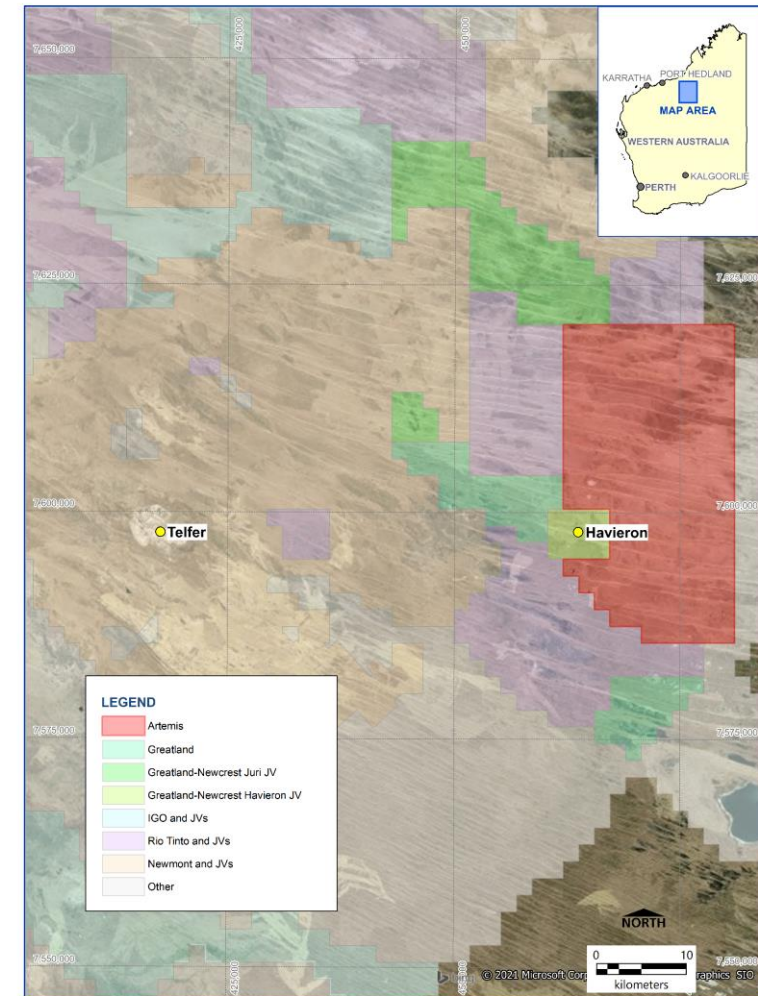




## Paterson Central: A Tier 1 Au-Cu Exploration Frontier



- The Paterson Province, on the edge of the Great Sandy Desert, home to the iconic 27Moz Telfer Gold Mine, the second largest in Australia.
- This largely unexplored, remote area has become one of the world's most sought-after exploration provinces following stunning success by Rio Tinto (ASX/LON: RIO) and Greatland Gold (LON: GGP).
- Rio Tinto discovered the exciting Winu Copper/Gold Deposit in 2018.
- Greatland Gold PLC discovered the outstanding Havieron Gold/Copper Deposit in 2018.
- Artemis is the only junior mining company in the Havieron area that retains a 100% interest in its tenure.
- All other ground local to Havieron is held or subject to JV and or first right of refusal by Newcrest or Rio Tinto.



PATERSON REGION TENURE





## Paterson Central: Adjacent to the Havieron Au-Cu Discovery/Development

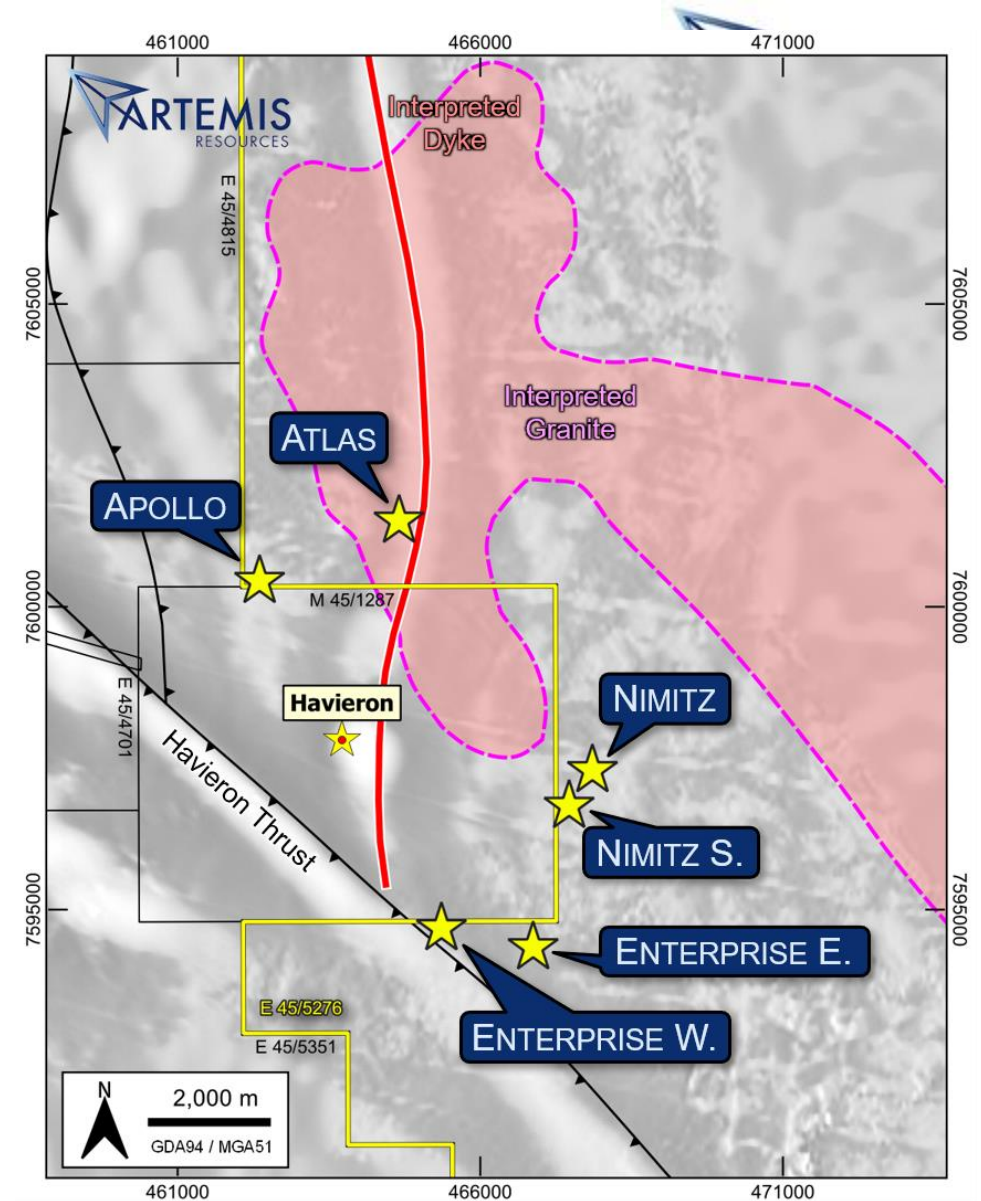


- Structurally controlled, intrusive related gold and copper discovery of outstanding potential.
- 2018 JV will see project ownership at 70% Newcrest and 30% Greatland Gold.
- Greatland Gold Market Capitalisation is now >A\$1,500m.
- Starter resource of 3.4Moz Au and 160kt Cu (52Mt @ 2.0g/t Au, 0.31% Cu) announced in December 2020. Expected to grow significantly over coming years.
- Newcrest believe Havieron may support bulk mining underground methods at grades well in excess of those mined at Telfer today.
- Box-cut construction underway with view to providing urgently needed ore for the giant (24mpta) Telfer mining and milling complex some 40km to the West.
- Artemis's 100% owned key targets are all less than 3km from the Havieron development.



## Paterson Central: Our Compelling Targets

- So much more than just Nearology.
- Favourable regional and local geology that host Havieron continues into Artemis ground.
- Major crustal thrust fault and secondary splay fault “plumbing” that transect Havieron continue into Artemis ground.
- Regional “heat engine” Granites interpreted to be widespread beneath Artemis ground.
- 6 southern targets initially selected based on geophysics and structural interpretation including seismic mapping of major faults.
- 2 Northern targets (not on map) straddle the main north-trending faults (red).



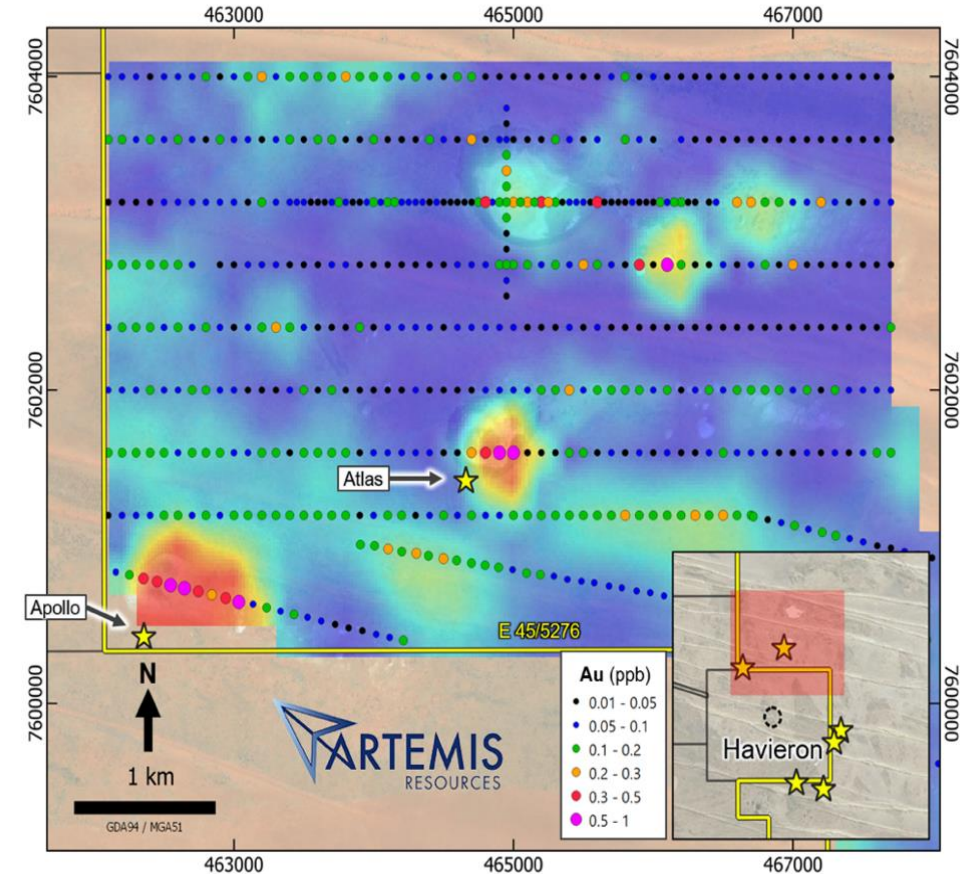
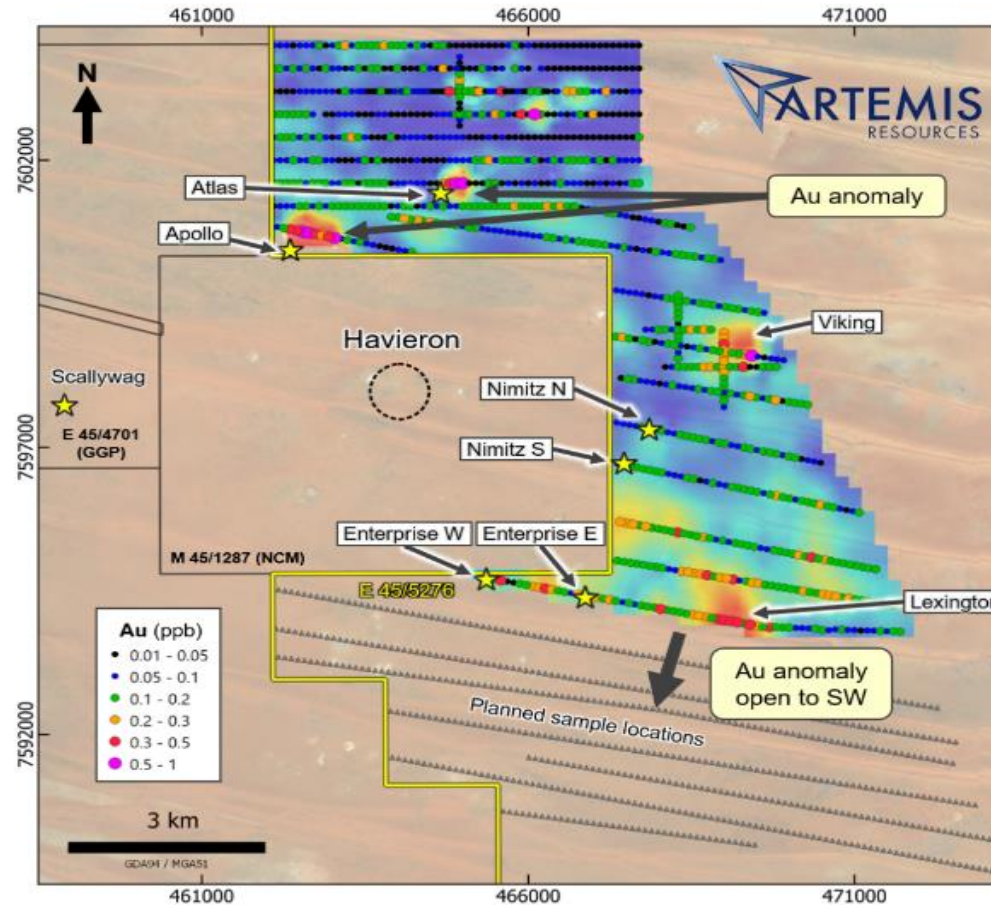


## Paterson Central: Pointing the way – 2020 Ionic Leach Geochem Programs



Large Ionic Leach geochemistry survey across central licence areas returns outstanding results of countered Au, Cu, Ag, Bi and Te coincident with several key targets.

Highlights several new targets at Viking and Lexington.



Large and discrete coincident Au, Cu, Ag, Bi and Te anomalies over Apollo and Atlas confirm their highest ranking



## Paterson Central: Highly Encouraging – Nimitz First Drill Program



- Drilled three holes in 5<sup>th</sup> ranked Targets Nimitz N and Nimitz S in Q4 2020 because easiest to access prior to rainy season.
- Drilling revealed all the pre-conditions for a major gold deposit were present including intensely altered hydrothermally altered and brecciated basement rock.
- 71 Grab sample assays indicate several areas of anomalous gold and copper.
- Company believes Nimitz drilling was proximal to a large potentially mineralising system.
- Full interval core assays pending.



## Paterson Central: Planned 2021 Drill Program



- Company in planning phase for a multi-hole drill programme starting with Apollo and Atlas in Q2.
- Key milestones are final Heritage agreement with Traditional Owners and ground heritage clearance.
- Upon final Heritage clearances exploration team will immediately mobilise to site.
- Unique opportunity to discover a potentially Tier 1 Au – Cu deposit in Western Australia.
- Company retains 100% ownership and thereby maximum leverage to success and is well funded to commence its 2021 programme at Paterson Central.







- **Carlow Castle Growth Story**
- **Paterson Central Tier 1 Frontier**

**Questions**

