



# West Africa's Next Tier-1 Gold Mine

ASX:PDI

Precious Metals Summit Zurich

November 2022



---

# Forward looking statements, disclaimer and compliance

This presentation contains only a brief overview of Predictive Discovery Ltd and its associated entities ("PDI" or "Predictive") and their respective activities. The contents of this presentation, including matters relating to the geology of the projects, may rely on various assumptions and subjective interpretations which it is not possible to detail in this presentation and which have not been subject to any independent verification. This presentation contains a number of forward-looking statements. Known and unknown risks and uncertainties, and factors outside of Predictive's control, may cause the actual results, performance and achievements of PDI to differ materially from those expressed or implied in this presentation. To the maximum extent permitted by law, PDI does not warrant the accuracy, currency or completeness of the information in this presentation, nor the future performance of PDI, and will not be responsible for any loss or damage arising from the use of the information. The information contained in this presentation is not a substitute for detailed investigation or analysis of any particular issue. Current and potential investors and shareholders should seek independent advice before making any investment decision in regard to Predictive or its activities.

## **Competent Person Statement and Compliance Statement**

The Mineral Resource estimates reported herein are based on information compiled by Mr Phil Jankowski, who is a member of The Australasian Institute of Mining and Metallurgy. Mr Jankowski is a full-time employee of CSA Global Pty Ltd and has sufficient experience relevant to the style of mineralisation and type of deposits being considered to qualify as a Competent Person as defined by the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. The Mineral Resource Estimate referred to in this presentation was released to ASX on 2 August 2022. The Company is not aware of any new information or data that materially affects the mineral resource estimate contained in this announcement and all material assumptions and technical parameters underpinning the mineral resource estimate continue to apply and have not materially changed.

The information in this announcement that relates to prior exploration results have been extracted from ASX market announcements detailed in slide 20. The Company confirms that it is not aware of any new information or data that materially affects previous exploration results referred to in this announcement. The Company also confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the relevant original market announcements.

This presentation has been authorised for release by Andrew Pardey, Managing Director.

# Company highlights

All the ingredients for a Tier-1 gold mine

## Company fundamentals

- Exploration/development company with a Tier-1 gold asset in Guinea
- ASX listed (ASX: PDI)
- Market cap A\$336m\*
- Sustainable growth strategy aligned with Guinea's key objectives
- Focus upon zero harm to people and strict environmental management
- Best-in-class technical partners

## Bankan Project

- 4.2Moz (inferred)
- Initial high-grade underground resource directly below the optimised pit shell of 283,938 tonnes at 4.85g/t Au
- Significant upside to initial underground resource
- Extensive drilling programs ongoing

## Regional upside

- 35km-long richly gold endowed structure
- Exploration and discovery in its infancy
- Birimian/Archean contact hosts some of Africa's largest gold discoveries
- Multi-element testing for pathfinder minerals underway

## Management team

- The right Management Team to build & operate the mine
- A strong track record of building out resource bases and putting mines into production
- Strategy in place to increase Bankan resource and develop into a mine

**Bankan has the potential to be a multi-deposit gold camp**

\*Market capitalisation as at 11 November 2022

# The right team

Highly experienced Board and senior management team

## Board

### **Simon Jackson** Non-Executive Chairman

- 25 years' experience in the management of resource companies, particularly in Africa
- Sold Redback to Kinross for US\$7.1 billion
- Non-Executive Chairman of Sarama Resources Limited (TSXV:SWA, ASX:SRR) and Non Executive Director Resolute Mining ASX/LSE:RSG)

### **Andrew Pardey** Managing Director

- Geologist with extensive experience in West Africa
- Formerly COO and latterly CEO of LSE- and TSX-listed Centamin plc
- Built the 13Mt and 450Koz+ Au pa Sukari Mine in Egypt and Lefa Mine in Guinea

### **Sandra Bates** Non-Executive Director

- 20+ years' experience
- Risk assessment specialist within the natural resources sector
- Non-Executive Director: Adriatic Metals (ASX:ADT & LSE:ADT1) and General Counsel Altus Strategies (AIM:ALS, TSX-V:ALTS)

### **Steven Michael** Non-Executive Director

- +25 years' experience in the global resources sector
- Non-Executive Director of Wia Gold Limited (ASX:WIA)
- Executive Director Deep Yellow Limited (ASX:DYL)

## Management Team

### **Marlyatou Balde** Country Manager

- Guinean National and geologist with over 25 years experience in the Resource industry
- Most recently, Technical Advisor to the Minister of Mines and Geology - Guinea

### **Pierre Louw** Chief Financial Officer

- Senior Accountant with over 35 years experience
- Worked extensively in Africa, including Tanzania, Egypt, Zambia and South Africa
- Was previously CFO for Centamin, FD of the Lumwana Mining Company in Zambia (Equinox), finance and business manager Geita Gold Mine Tanzania

### **Andre Pieters** ESG Manager

- Mining Engineer with over 30 years experience in hard rock mining underground and open pit, both owner operator and contract mining
- Most recent role in Guinea was leading the environmental compliance program for a major bauxite exporter
- Previous roles include Kinross Tasiast Mauritania Environment Superintendent/Manager

### **Norman Bailie** Manager Geology

- More than 30 years' experience in gold mining and exploration
- Has held senior positions with explorers, mid-tier and major mining companies, including Centamin and Red Back

### **Chris Boreham** Project Feasibility Manager

- Mining Engineer with over 30 years experience in hard rock mining underground and open pit, both owner operator and contract mining
- Has delivered feasibility studies across Australia, China and Africa
- Previous General Manager Sukari Gold Mine Egypt

### **Brad Milne** Corp Dev Manager

- More than 15 years' corporate development and investment banking experience in the resources industry
- Investor relations, business development, transactions, studies, debt and equity funding
- Previous roles include Corporate Development Manager at BCI Minerals

# Capital structure

**1,722M**

Shares on issue

**A\$50M**

Cash (at 30 September 2022)

**A\$336M**

Market cap (at 11 November 2022)



## Technical partners



## Research



**Brock Salier**



**Royce Haese**



**Paul Howard**



**Yuen Low**



**Alex Topouzoglou**



**Mike Milikan**



Delivering a best practice biodiversity management program

# ESG and Sustainability

---

# Key responsible development activities

Committed to developing the Bankan Project in a safe and responsible way

- Materially enhanced independent oversight and management control of ESG programs, essential to the delivery of the Bankan Project to the benefit of all stakeholders
- Working to define our social and environmental action plans to de-risk Bankan
- Engaging leading sustainability consultancies to ensure best-practice sustainable development
- Building communications channels with key government stakeholder groups to ensure alignment on objectives and expectations have been established
- Engaging with stakeholders to clearly define the sequence of social, administrative and permitting requirements to develop the project within Buffer Zone 2 of the Upper Niger National Park
- Comprehensive social and environmental studies in progress. Wet season studies nearing completion



4.2Moz  
at 1.63g/t Au

# Bankan Gold Project



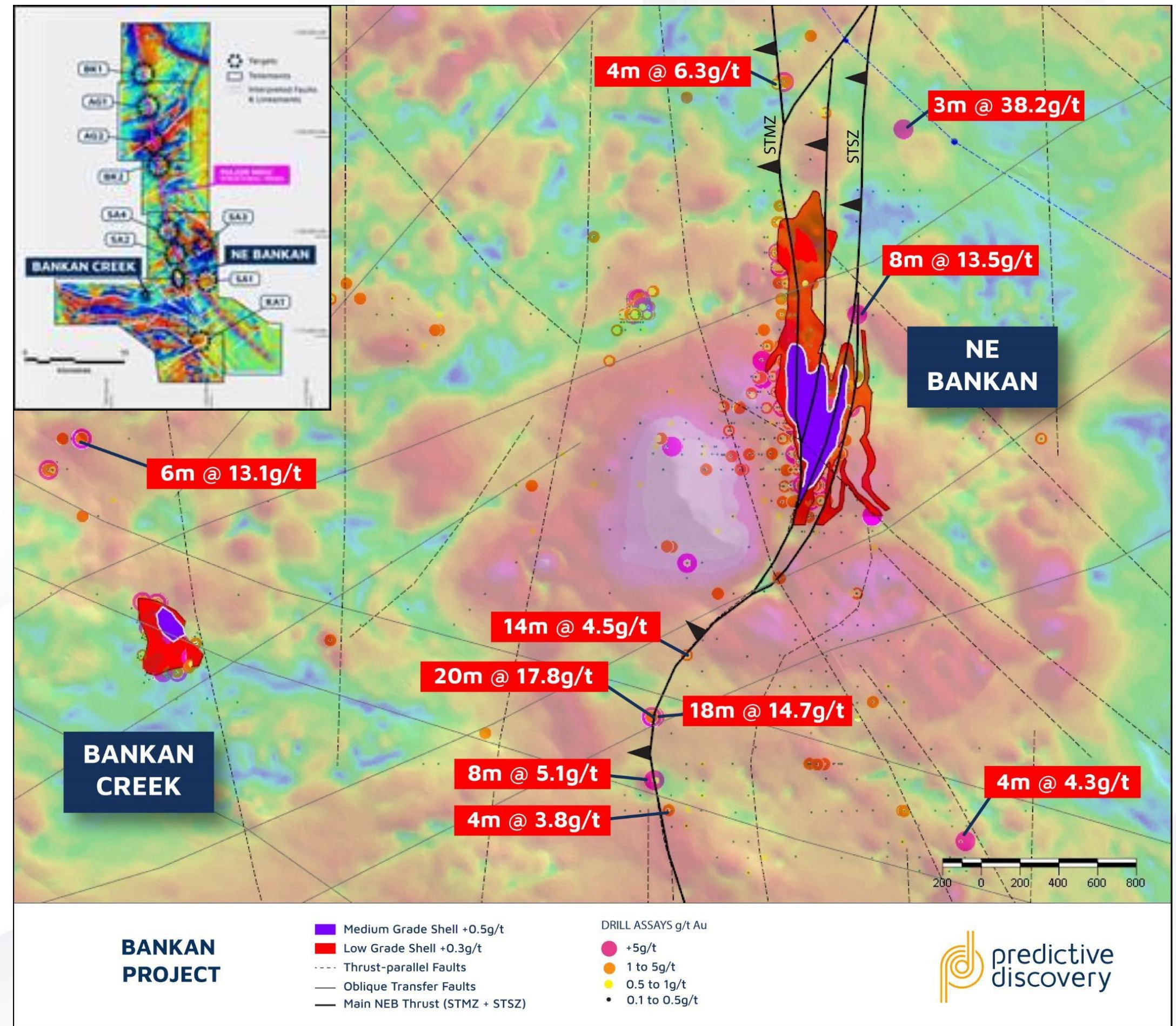


# Introduction to Bankan

## West Africa's next Tier-1 gold deposit

- Four contiguous exploration licences covering a 35km-long richly gold endowed super structure
- 4.2Moz (Inferred) MRE at 1.63g/t across two separate deposits:
  - **NE Bankan: 3.9Moz @ 1.65g/t**
  - **Bankan Creek: 0.33Moz @ 1.43g/t**
- 60,000m drilling program underway to grow and upgrade gold Resources
- Straightforward open pit project with significant potential for high-grade underground mining

ASX Release 2 August 2022



# Excellent continuity and depth potential

Recent holes to add new resource ounces and support upgrade to indicated

## Recent high-grade gold results at NE Bankan (since latest resource update)

### ○ BNEDD0129W2 and BNERD0113:

- 225m and 375m down-plunge of pit shell
- Multi-lode potential at depth
- Significant upside potential to initial, small underground resource

### ○ BNEDD0132:

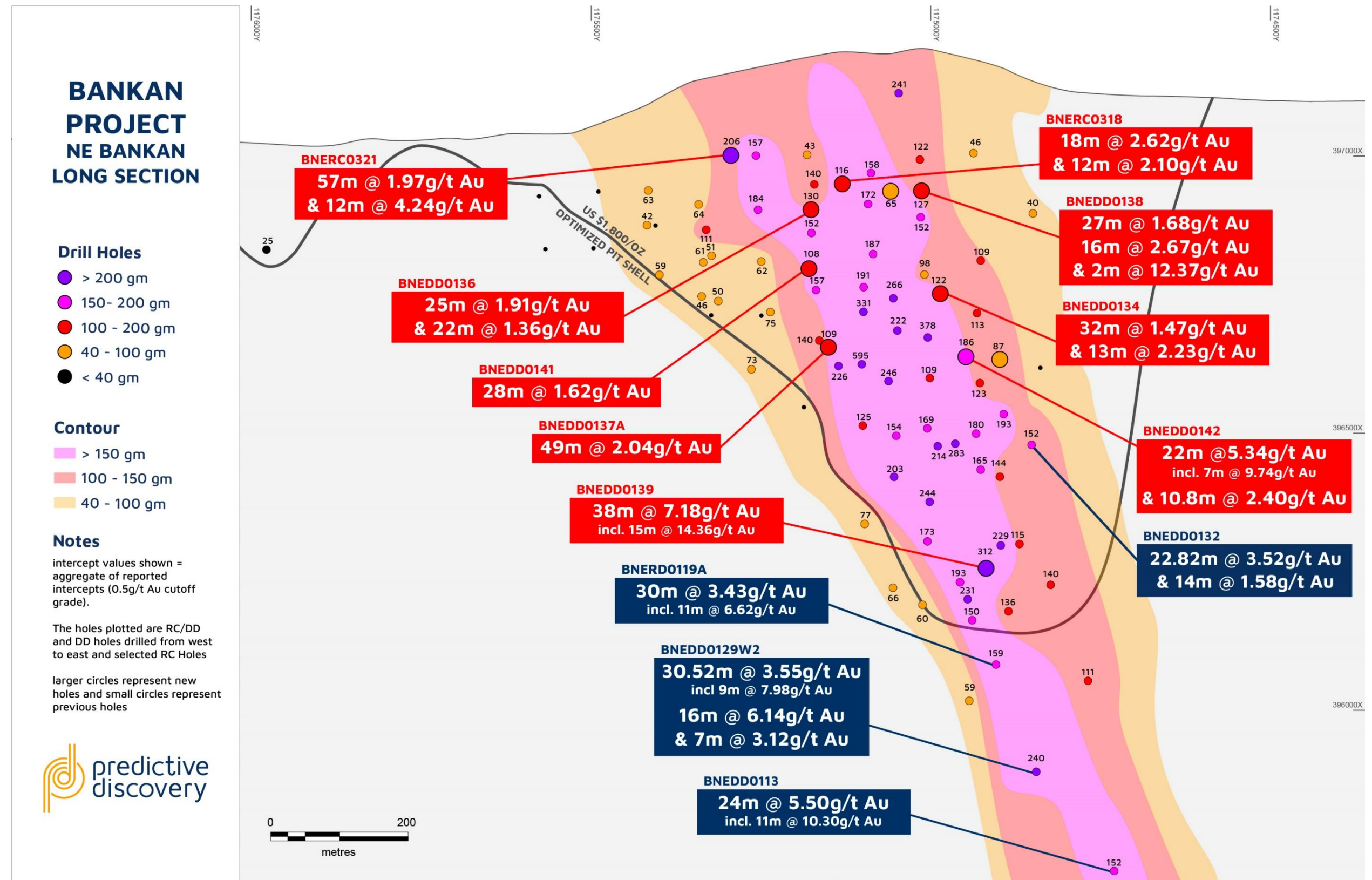
- pushes +150gm high-grade core a further 40m southwards

### ○ BNEDD0139:

- Spectacular 38m @ 7.18g/t intercept
- Consolidating the high-grade core

### ○ Various infill holes

- Defining and extending the high-grade core
- Supporting future resource upgrade to indicated



# Open in all directions

331Koz only 3km west of the NE Bankan discovery

## Bankan Creek Drill Plan

### Drill Holes Gram metres

- > 100
- 50-100
- 25-50
- 10-25
- < 10

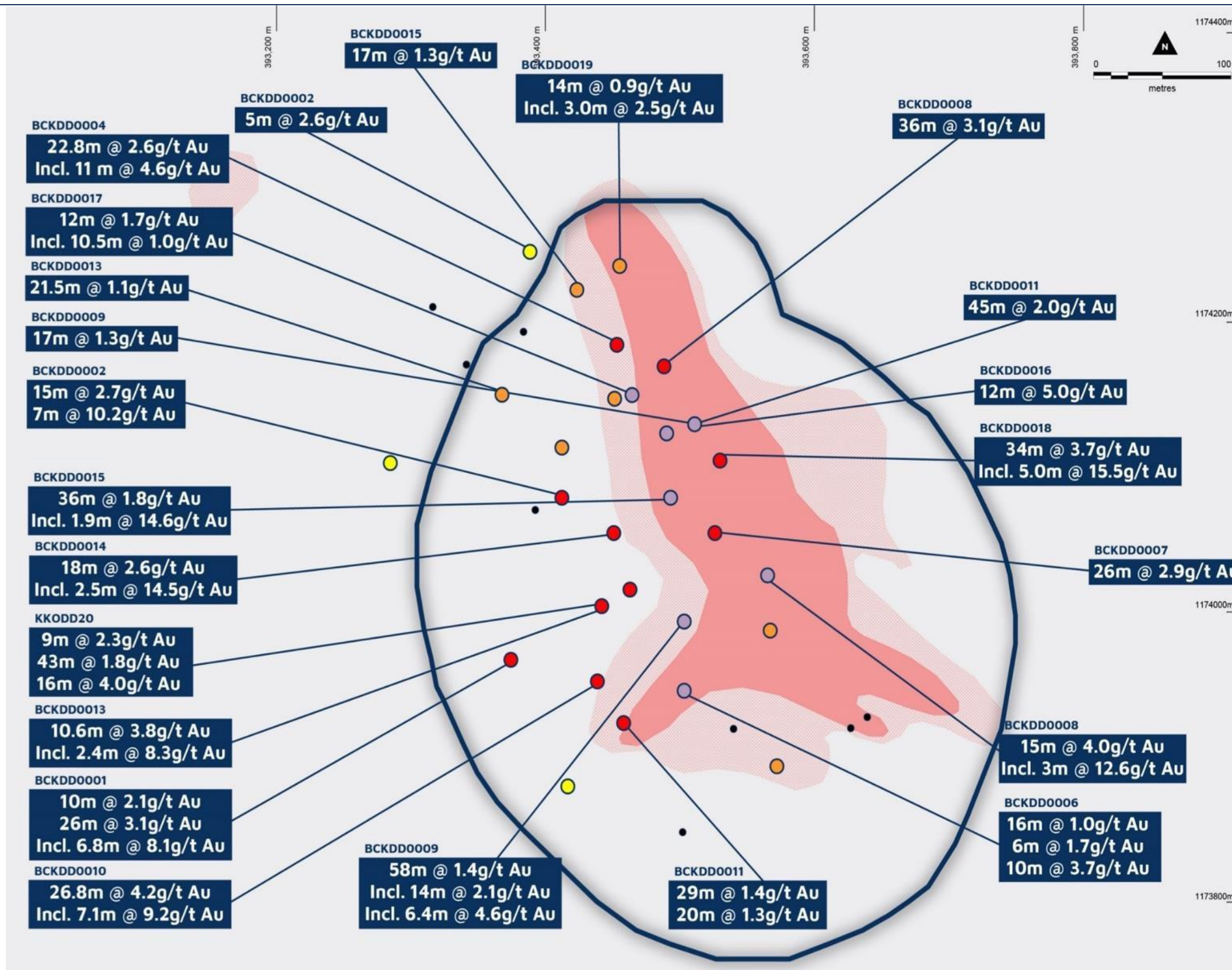
### Power Auger

- Plus 0.10g/t Au
- Plus 0.25g/t Au

### Notes

Intercept values shown = aggregate of reported intercepts (0.25g/t Au cutoff grade) excluding intercepts averaging <0.5g/t Au.

The holes plotted are RC/DD and DD holes drilled from west to east.



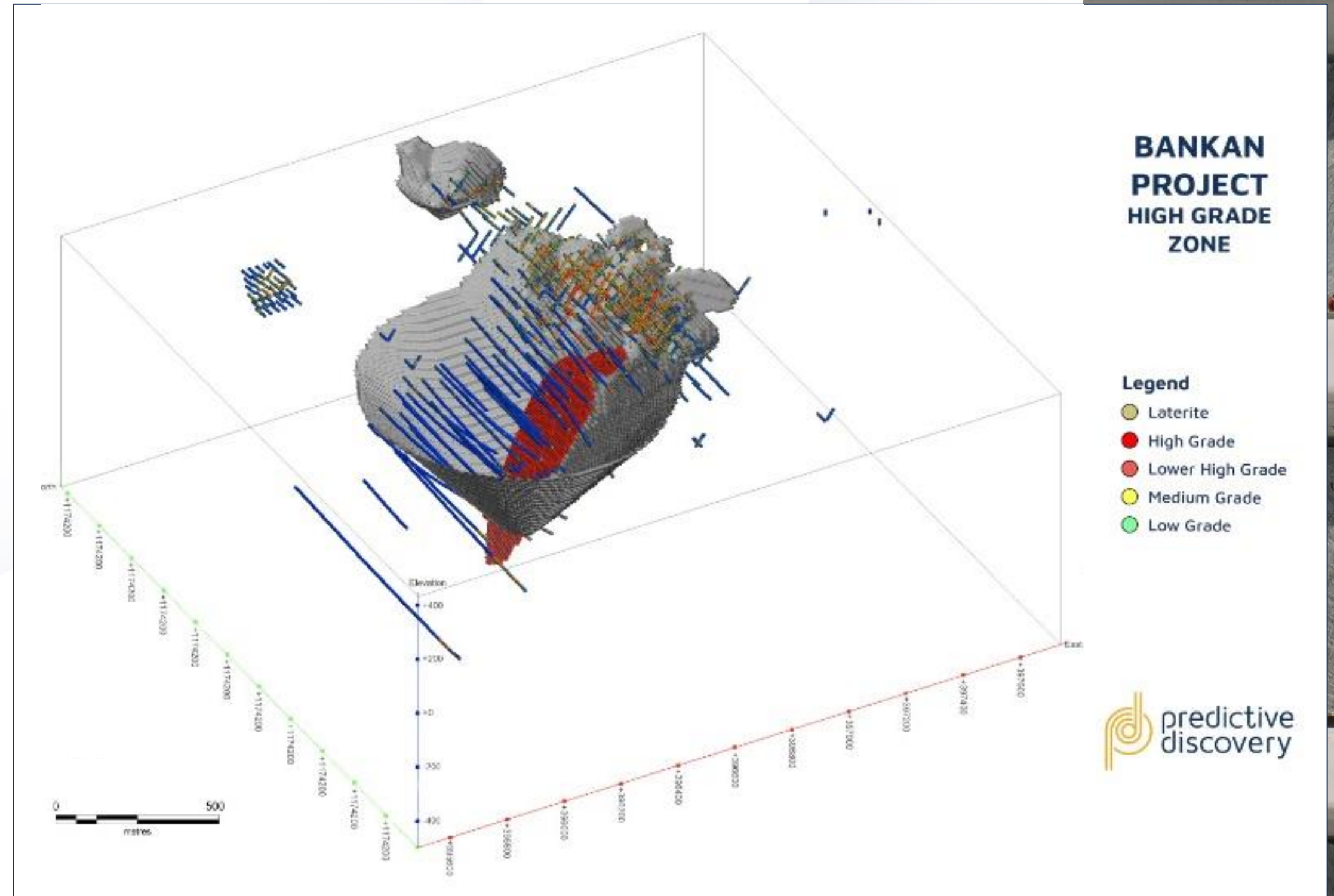
- Open in all directions
- 3km from NE Bankan
- Lightly explored
- Significant potential for Resource growth

**7,000m drilling program to be completed**

**Drilling re-commenced in October 2022**

# Straightforward and simple metallurgy

- Initial metallurgical test work completed on the high-grade zone in the lower area of the current pit shell with an average recovery of 92.8%
- Two sample streams tested:
  - Gravity concentrated then selected random sample tails leached. All samples tested completed leaching within 24 hours for an average recovery of 94%
  - Complete sample leach testing, target grind of p80 passing 75 micron, Leaching times with 69 sample leach kinetics indicating completion within 48 hours
- Gold mineralisation confirmed as free-milling with high gold recoveries and amenable to simple, industry-standard processing



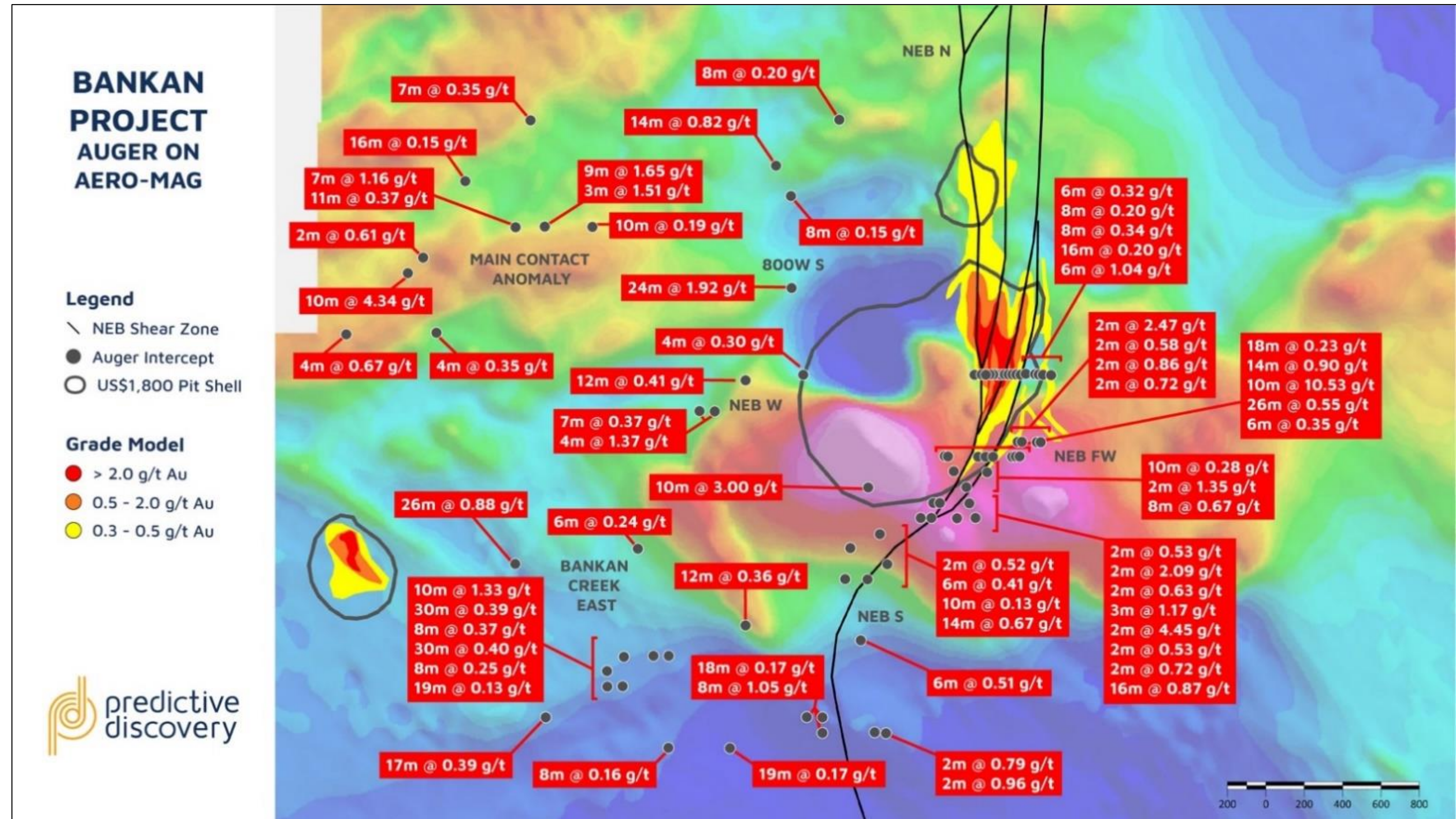


# Near-Mine & Regional Exploration

# Near-deposit potential

Early work highlights multi-deposit potential within 5km of NE Bankan

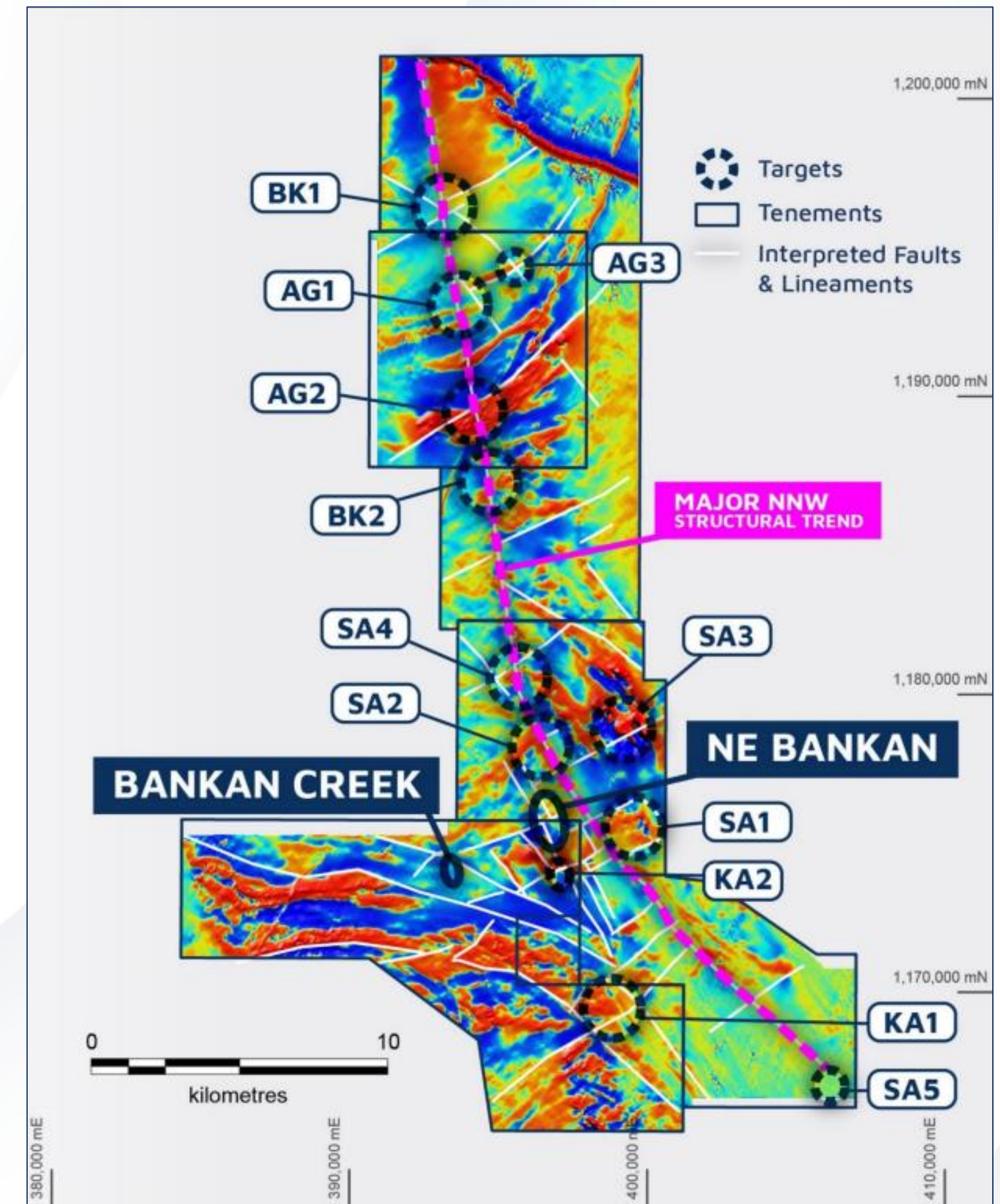
- Results provide confirmation of the extent of gold mineralised locations in the area surrounding NE Bankan and Bankan Creek
- Programs designed to deliver additional resource ounces in close proximity to both ore deposits
- Infill and extension drilling on new gold prospects as they emerge from aircore reconnaissance drill program



# Regional potential

Bankan driven by 35km-long gold super-structure with significant exploration upside

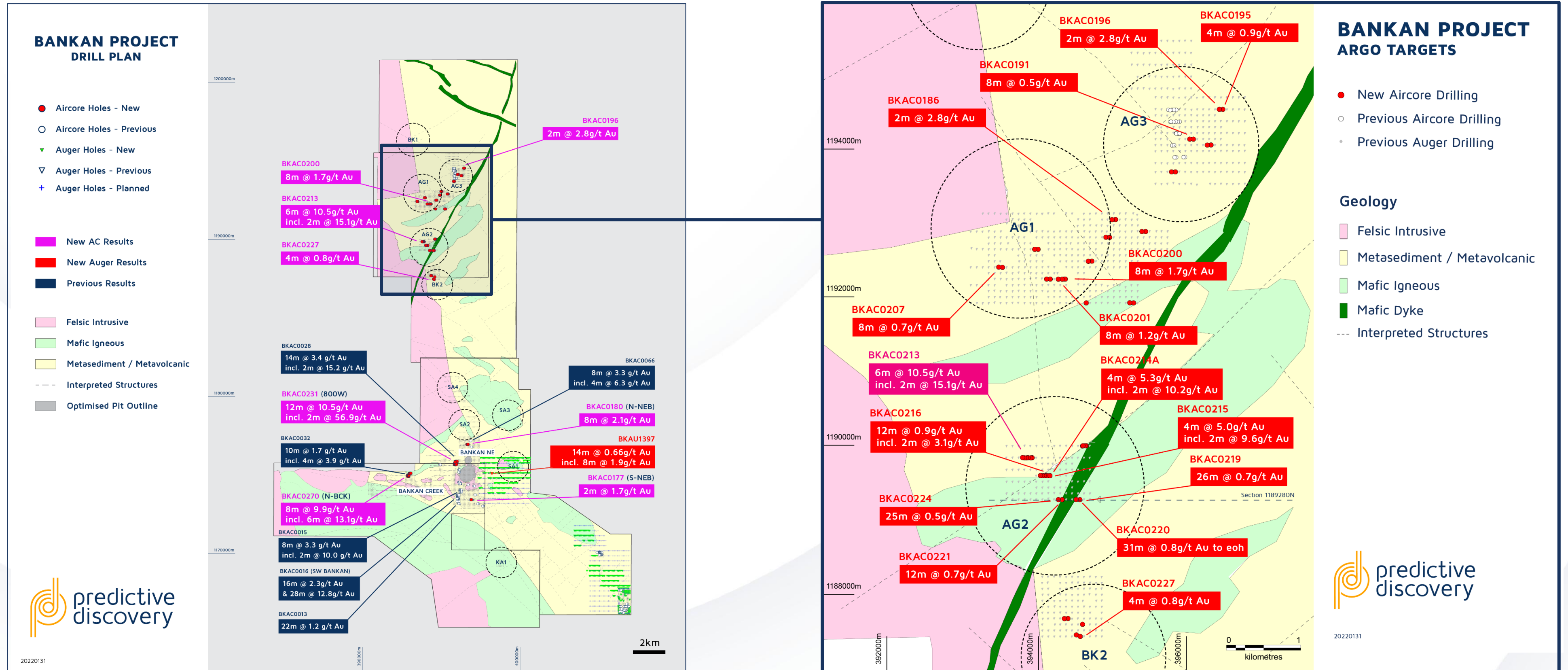
- Significant exploration upside exists
- Bankan sits atop a basin-margin gold bearing super-structure
- Early geophysical and auger programs delineated many high quality targets
- Multi element testing for pathfinder minerals is currently underway
- Exploration team strengthened to increase regional focus





# Regional potential

Early results highlight a gold-rich regional structure





# Appendix

# Bankan Project Resource

## Updated Bankan Resource table

Deposit	Classification	Million Tonnes	Grade Au g/t	'000 Contained Au ounces
NE Bankan	Inferred	72.3	1.65	3,884
Bankan Creek	Inferred	7.2	1.43	331
<b>Total</b>	Inferred	79.5	1.63	4,215

### Notes to Resource Table:

1. The Northeast Bankan Mineral Resource is estimated with all drilling data available. at 21st June 2022 and was reported on the 1st August 2022; the Bankan Creek Mineral Resource is estimated with all data available at 2<sup>nd</sup> September 2021, and was previously reported by PDI on 30thSeptember 2021.
2. The Mineral Resource is reported in accordance with the JORC Code 2012 Edition at a 0.5 g/t Au cutoff.
3. The Competent Person is Phil Jankowski FAusIMM of CSA Global
4. The Resources are constrained by optimised pit shells using a metal price of AUD1,800 per ounce Au and process recovery of 94%.
5. Rounding may lead to minor apparent discrepancies.

## NE Bankan Resource Estimate

Cutoff Au g/t	Tonnes	Grade Au g/t	Contained Au ounces
<b>0</b>	496,386,611	0.25	4,014,366
<b>0.1</b>	92,718,277	1.35	4,014,366
<b>0.2</b>	88,314,177	1.41	3,993,127
<b>0.3</b>	80,670,227	1.52	3,931,687
<b>0.4</b>	75,579,577	1.60	3,876,040
<b>0.5</b>	72,332,714	1.65	3,884,109
<b>0.6</b>	68,141,564	1.71	3,755,997
<b>0.7</b>	61,957,776	1.82	3,626,769
<b>0.8</b>	54,888,963	1.96	3,456,318
<b>0.9</b>	47,457,813	2.13	3,253,238
<b>1.0</b>	40,072,925	2.35	3,027,680

# Material ASX Releases

POSITIVE INFILL DRILL RESULTS & GRADE CONTROL PROGRAM COMPLETE, 10/11/2022  
 HIGH GRADE GOLD 200M BELOW NE BANKANS 3.9MOZ RESOURCE, 29/09/2022  
 IMPRESSIVE GOLD HITS CONTINUE AT 4.2MOZ BANKAN GOLD RESOURCE , 25/08/2022  
 4.2MOZ BANKAN GOLD RESOURCE, 01/08/2022  
 DEEPEST HOLE TO DATE INTERCEPTS GOLD 630M DOWN DIP, 15/06/2022  
 APPOINTMENT OF NON-EXECUTIVE DIRECTOR, 7/06/2022  
 PDI RECEIVES FIRM COMMITMENTS FOR \$55M PLACEMENT, 30/05/2022  
 60,000M DRILL PROGRAM UNDERWAY AT BANKAN & KEY APPOINTMENTS, 19/05/2022  
 41.5M @ 5.2G/T AU INTERSECTED AT NE BANKAN, 27/04/2022  
 MULTI-DEPOSIT POTENTIAL GROWS WITH STRONG RESULTS, 02/02/2022  
 33M @ 4.5 G/T AU AT NE BANKAN, GUINEA, 13/01/2021  
 BANKAN PROJECT GROWS WITH NEW GOLD DISCOVERIES, 16/12/2021  
 PREDICTIVE INTERSECTS 34M @ 5.5 G/T AU AT NE BANKAN, 09/12/2021  
 FURTHER DEPTH EXTENSION TO BANKAN HIGH-GRADE GOLD, 22/11/2021  
 HIGH-GRADE GOLD ZONE EXTENDED BELOW RESOURCE PIT SHELL, 03/11/2021  
 AC DRILLING IDENTIFIES NEW GOLD PROSPECTS AT BANKAN, 28/10/2021  
 NE BANKAN HIGH-GRADE GOLD ZONE REINFORCED AND EXTENDED, 19/10/2021  
 BANKAN UPDATE, 12/10/2021  
 3.65 MILLION-OUNCE BANKAN MAIDEN MINERAL RESOURCE ESTIMATE, 30/09/2021  
 28M @ 12.1G/T GOLD 1.5 KM FROM NE BANKAN, 23/09/2021  
 HIGH-GRADE GOLD ZONE CONFIRMED UP TO 400M VERTICAL DEPTH, 16/09/2021  
 EXCELLENT GOLD RECOVERIES FROM BANKAN METALLURGICAL TESTWORK, 24/08/2021  
 STRONG WIDTHS AND GRADES FROM BANKAN CREEK RESOURCE DRILLING, 24/08/2021  
 MORE BROAD WIDTHS AND HIGH-GRADES FROM BANKAN DRILLING, 2/08/2021  
 BONANZA GOLD GRADES AS HIGH-GRADE ZONE IS REVEALED AT BANKAN, 19/07/2021  
 44M @ 8G/T GOLD, HIGHEST IMPACT GOLD INTERCEPT AT BANKAN, 1/07/2021  
 BROAD GOLD INTERCEPTS FROM BANKAN CREEK AND NE BANKAN, 17/06/2021  
 NE BANKAN EXTENDS TO DEPTH WITH STRONG GOLD GRADES, 3/06/2021  
 6M AT 32G/T GOLD FROM FIRST DRILLING AT KOUNDIAN, GUINEA, 31/05/2021  
 WIDESPREAD & HIGH-GRADE GOLD FROM BANKAN REGIONAL AUGER, 13/05/2021  
 NE BANKAN CENTRAL GOLD ZONE EXTENDING TO SOUTH AT DEPTH, 6/05/2021  
 BANKAN AEROMAG MANY NEW DRILL TARGETS ALONG 35KM STRUCTURE, 28/04/2021  
 NE BANKAN GOLD MINERALISATION SUBSTANTIALLY EXTENDS AT DEPTH, 15/04/2021

NE BANKAN GROWS TO 300M WIDE. HIGH GRADE GOLD FROM SURFACE, 31/03/2021  
 EXCEPTIONALLY HIGH GRADES, THICK INTERCEPTS FROM NE BANKAN, 15/03/2021  
 SUBSTANTIAL OXIDE GOLD ZONE EMERGING AT NE BANKAN PROJECT, 5/03/2021  
 MORE DEPTH EXTENSIONS FROM DRILLING BANKAN GOLD DISCOVERIES, 25/02/2021  
 HIGH GRADE DRILL RESULTS EXTEND BANKAN CK DISCOVERY TO NORTH, 11/02/2021  
 OUTSTANDING, WIDE GOLD INTERCEPT GROWS BANKAN AT DEPTH, 28/01/2021  
 BANKAN GOLD PROJECT DRILLING ACCELERATED, 22/01/2021  
 DIAMOND DRILLING UNDERWAY AT BANKAN GOLD PROJECT, 17/12/2020  
 EXPLORATION UPDATE - BANKAN GOLD PROJECT, GUINEA, 27/11/2020  
 EXPLORATION UPDATE - BANKAN-2 GOLD DRILLING UNDERWAY, 20/10/2020  
 92M AT 1.9G/T GOLD - DIAMOND DRILLING EXPANDS BANKAN PROJECT, 13/10/2020  
 NE BANKAN GOLD DEPOSIT GROWS WITH MORE STRONG DRILL RESULTS, 25/09/2020  
 ADDITIONAL PERMITS ALONG STRIKE FROM FLAGSHIP BANKAN PROJECT, 17/09/2020  
 55M AT 2.94G/T GOLD-BROAD TRUE WIDTHS CONFIRMED AT BANKAN, 10/09/2020  
 NE BANKAN NOW 1.6KM LONG WITH POSSIBLE PARALLEL GOLD ZONE, 3/09/2020  
 BANKAN CREEK GOLD ZONE FURTHER EXPANDED, 27/08/2020  
 STRONG WIDE GOLD INTERCEPTS FROM BANKAN CREEK AND NE BANKAN, 19/08/2020  
 OUTSTANDING HIGH-GRADE GOLD RESULTS FROM NE BANKAN, GUINEA, 7/08/2020  
 DIAMOND DRILLING CONFIRMS GOLD AT DEPTH AT NE BANKAN, GUINEA, 31/07/2020  
 IMPRESSIVE 1ST RC DRILL RESULTS GROW NE BANKAN DISCOVERY, 17/07/2020  
 NE BANKAN DISCOVERY GUINEA EXTENDED 30% TO 1.3KM IN LENGTH, 30/06/2020  
 SAMAN EXPLORATION PERMIT GRANTED, 19/06/2020  
 PDI WEST AFRICAN EXPLORATION UPDATE 7 DRILL RIGS ACTIVE, 9/06/2020  
 KANINKO AUGER RESULTS DOUBLE GOLD-MINERALISED STRIKE LENGTH, 27/05/2020  
 UPDATE ON ASSAY RESULTS KANINKO PROJECT GUINEA, 25/05/2020  
 DRILLING UPDATE - KANINKO PROJECT, GUINEA, 7/05/2020  
 FINAL DRILL RESULTS, BANKAN CREEK, KANINKO PROJECT, GUINEA, 30/04/2020  
 44M AT 2.06G/T GOLD FROM BANKAN CREEK, KANINKO, GUINEA, 27/04/2020  
 POWER AUGER DRILLING UNDERWAY AT KANINKO GOLD PROJECT, 24/04/2020  
 DIAMOND DRILLING EXTENDS GOLD MINERALISATION AT OUARIGUE CDI, 16/04/2020  
 OUTSTANDING DRILL RESULTS FROM NEW GOLD DISCOVERY IN GUINEA, 15/04/2020  
 GUINEA GROUND ACQUIRED NEAR PLUS-2 MILLION OZ GOLD DEPOSITS, 7/04/2020  
 AC-RC DRILLING UNDERWAY IN GUINEA, ACCELERATING EXPLORATION, 24/03/2020  
 HIGH-GRADES-BROAD WIDTHS FROM GUINEA AUGER-TRENCHING PROGRAM, 19/03/2020  
 UP TO 8G/T GOLD FROM POWER AUGER DRILLING IN GUINEA, 26/02/2020



## For further information contact

ANDREW PARDEY

**Managing Director**

E: [andrew.pardey@predictivediscovery.com](mailto:andrew.pardey@predictivediscovery.com)

BUCHANAN

E: [predictive@buchanan.uk.com](mailto:predictive@buchanan.uk.com)

T: +44 (0)20 7466 5000

**ASX : PDI** |

**[www.predictivediscovery.com](http://www.predictivediscovery.com)**