



West Africa's next Tier-1 Gold Mine

ASX:PD1

Precious Metals
Summit

September 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 22. 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 Overview

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\$332.5 million*
- 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
- 60,000m drilling programme underway

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 7 September 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
- Part of the Senior Management team of Red Back that sold to Kinross for US\$7.1 billion
- Non-Executive Chairman of Sarama Resources Limited (TSXV:SWA, ASX:SRR) and Non Executive Director Rolute 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

Capital structure

1,707M

Shares on issue

A\$57M

Cash

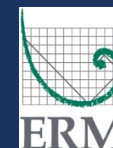
A\$350M

Market cap (at 08 September 2022)

Technical partners



CSA Global
Mining Industry Consultants



Research

Sprott | Capital Partners

Brock Salier



Royce Haese

cg/Canaccord
Genuity
Capital Markets

Paul Howard

LIBERUM

Yuen Low


STIFEL

Alex Topouzoglou

EUROZ
HARTLEYS

Mike Milikan



A group of five women, likely employees or community members, are standing outdoors in front of a brick building. They are all wearing bright orange high-visibility work shirts with reflective silver stripes and dark blue collars. The shirts have the 'predictive discovery' logo on the left chest. They are also wearing headwraps in various colors: blue, black, yellow, and blue. The woman on the far right is wearing a blue baseball cap with the 'predictive discovery' logo. They are all smiling and holding certificates. The certificates are white with green and blue accents and feature the 'predictive discovery' logo. One certificate clearly shows the text 'Certificat de lauréat' and 'Parumata Alimaty CONDE'. Another certificate shows 'Certificat de lauréat' and 'Parumata KOUTYWE'. In the background, there is a brick wall, a white metal gate, and a red fire alarm pull station with the text 'EXTINCTEUR PHOSFONOR' and 'EXTINCTEUR PHOSFONOR'.


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 programmes, 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 the Transition Zone of the Upper Niger National Park



4.2Moz
at 1.63g/t Au

Introduction to Bankan

Bankan strategically located in the centre of Guinea's new gold rush

- AngloGold Ashanti's Siguiri Gold Mine**
 (6.96Moz gold resource/ 214Koz production)

- Nordgold's Lefa Gold Mine**
 (3.1Moz M&I and 1.4Moz Inferred/ 2021 production: 276Koz)

- **Sycamore's Kiniero Gold Project**
(has produced 418Koz in 12 years)

- **Hummingbird's Kouroussa's Gold Mine**
(1.18Moz Inferred resource at >3 g/t and expected to produce 100Koz Au at AISC US\$900-US\$1,000 per oz)

BANKAN PROJECT

★ BANKAN ★ GOLD MINE or NEAR-DEVELOPMENT

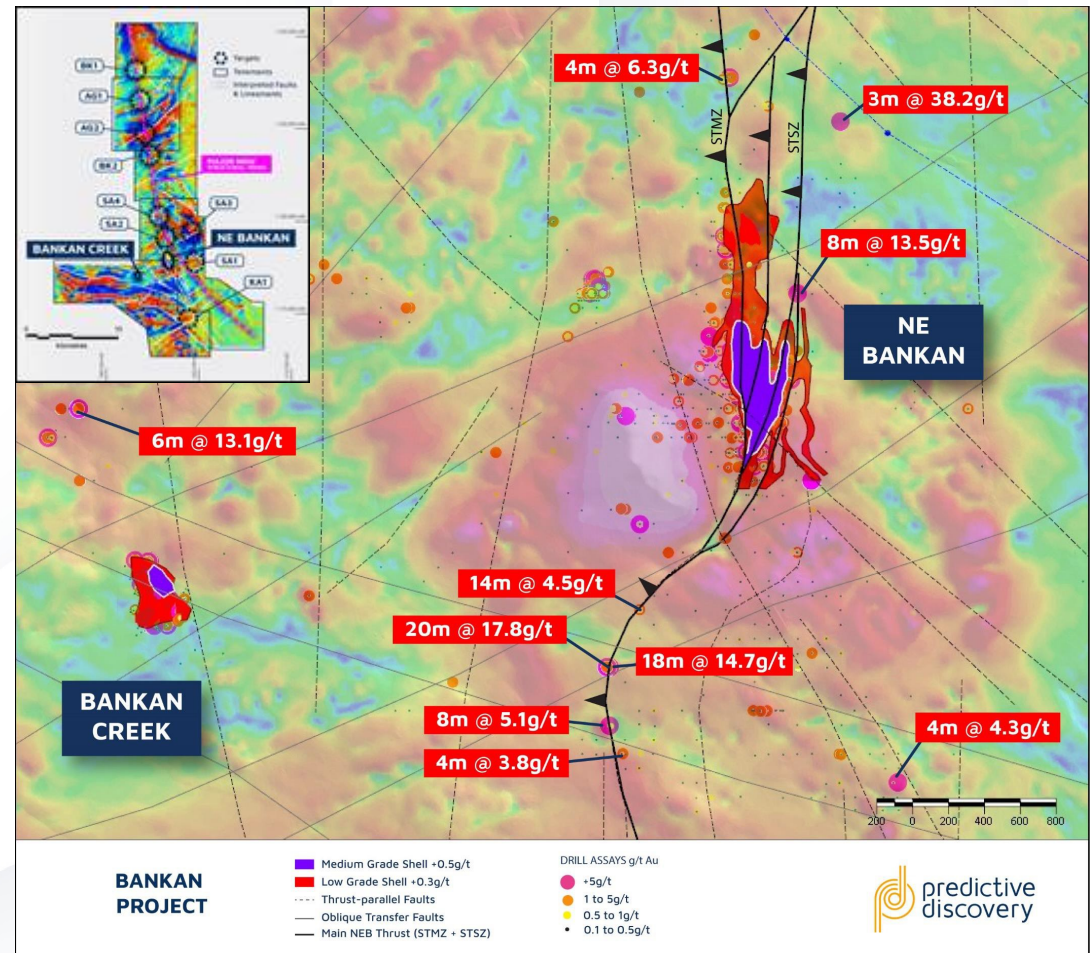
predictive discovery

Introduction to Bankan

West Africa's next Tier-1 gold deposit

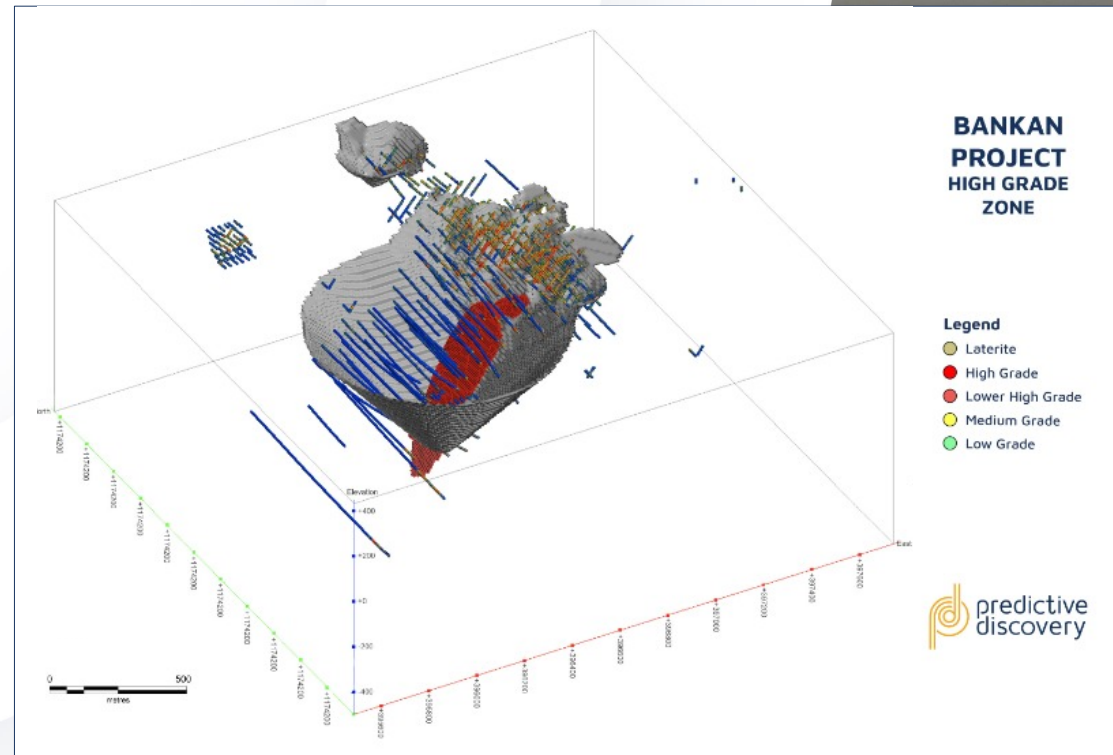
- Four contiguous exploration licences covering a 35km-long richly gold endowed super structure
- 4.2Moz (Inferred) MRE at 1.63 g/t across two separate deposits:
 - **NE Bankan: 3.8Moz @ 1.65 g/t**
 - **Bankan Creek: 0.34Moz @ 1.43 g/t**
- 60,000m drilling programme underway to grow and upgrade gold Resources
- Straightforward open pit project with significant potential for high- grade underground mining

ASX Release 2 August 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 a simple, industry-standard processing





3.9Moz gold
(inferred)

NE Bankan Deposit

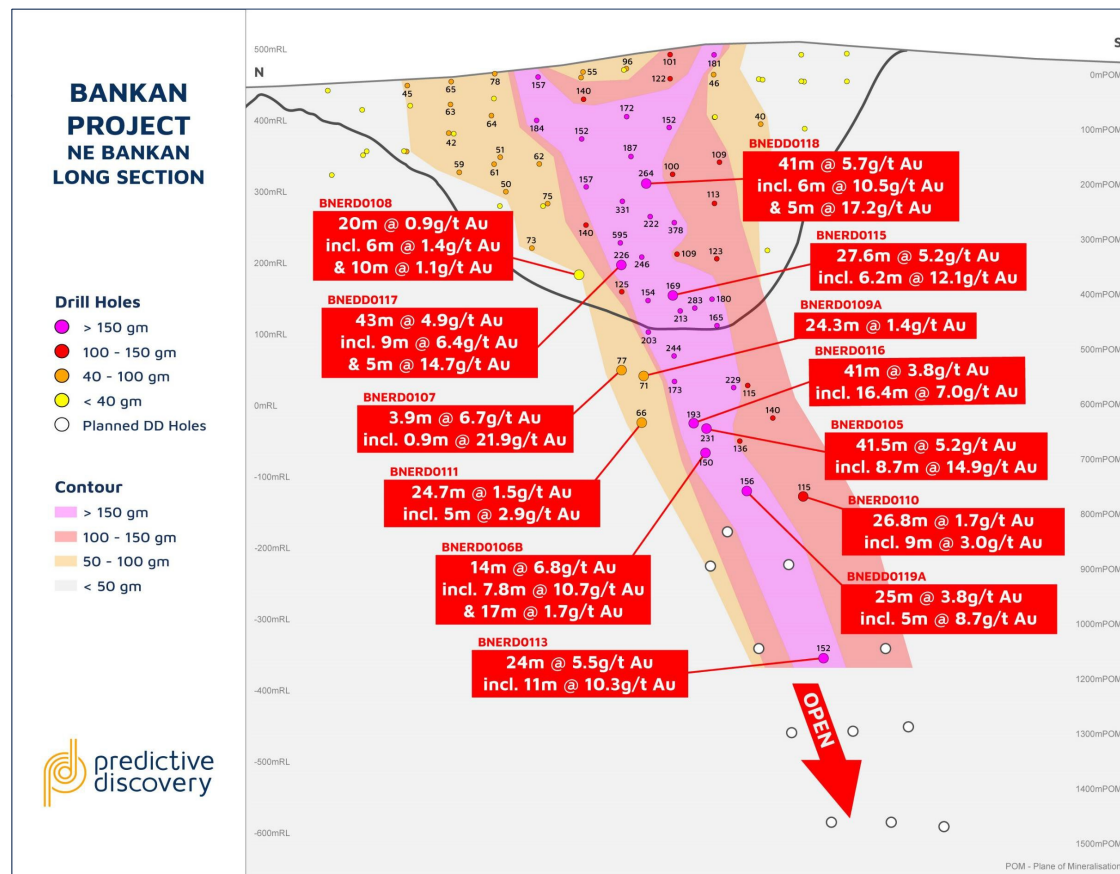
Excellent hole-to-hole continuity

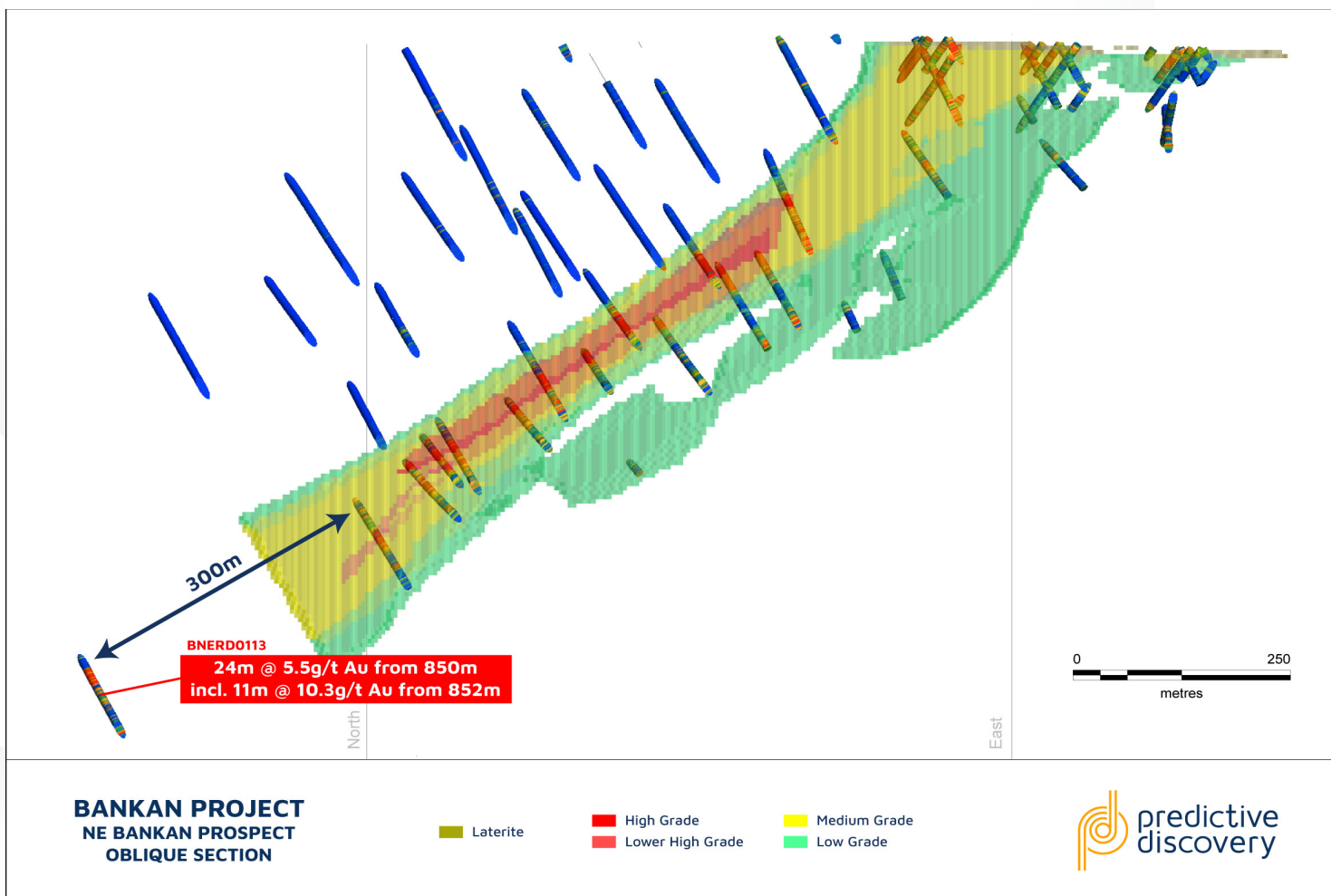
New holes add new resource ounces

Recent high-grade gold results:

- **BNERD0105:**
41.5m @ 5.2g/t Au from 598m,
incl. 8.7m @ 14.9g/t Au from 605m
- **BNERD0113:**
24m @ 5.5g/t Au from 850m,
incl. 11m @ 10.3g/t Au from 852m
– deepest hole drilled
– currently not included in the latest resource update
- **BNERD0115:**
27.6m @ 5.2g/t Au from 389m,
incl. 6.2m @ 12.1g/t Au from 394m,
and 1.7m @ 8.3g/t Au from 414m

○ ASX release 15 June 2022





Bankan's blue sky

Underground ounces strengthen Resource growth potential



**Near-Mine & Regional
Exploration**

Open in all directions

340Koz only 3km west of the NE Bankan discovery

Bankan Creek Drill Plan

Drill Holes

Gram metres

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

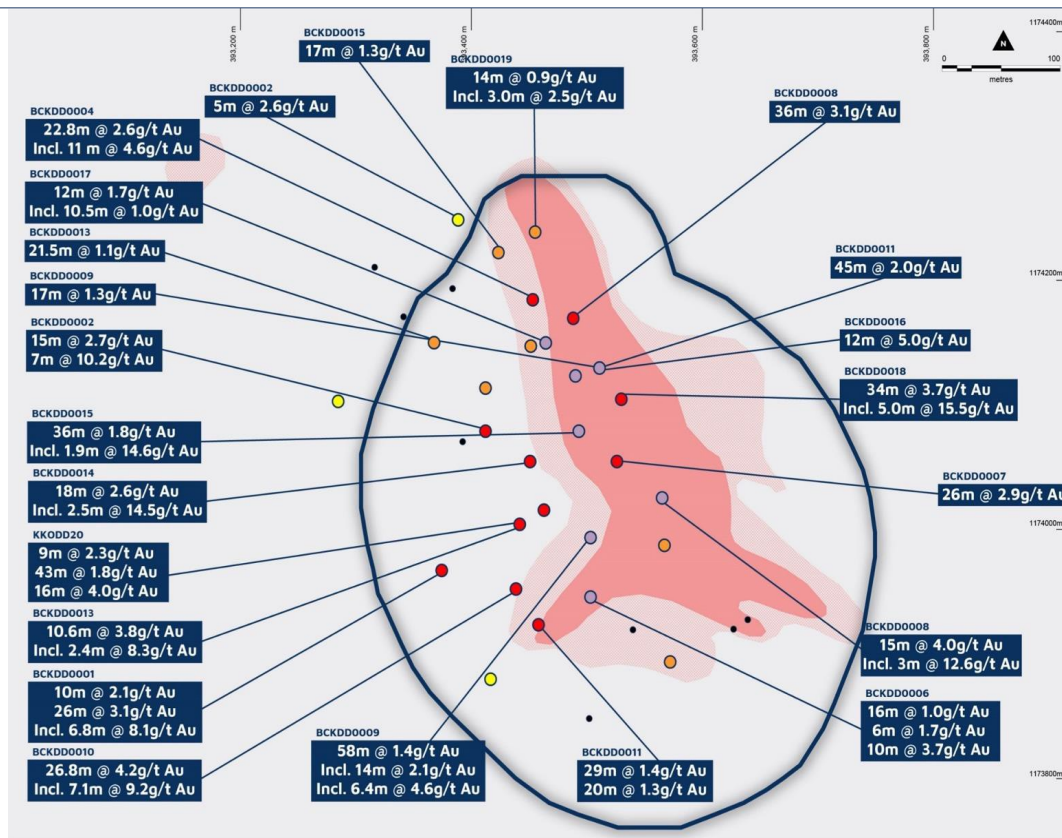
Power Auger

- 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.



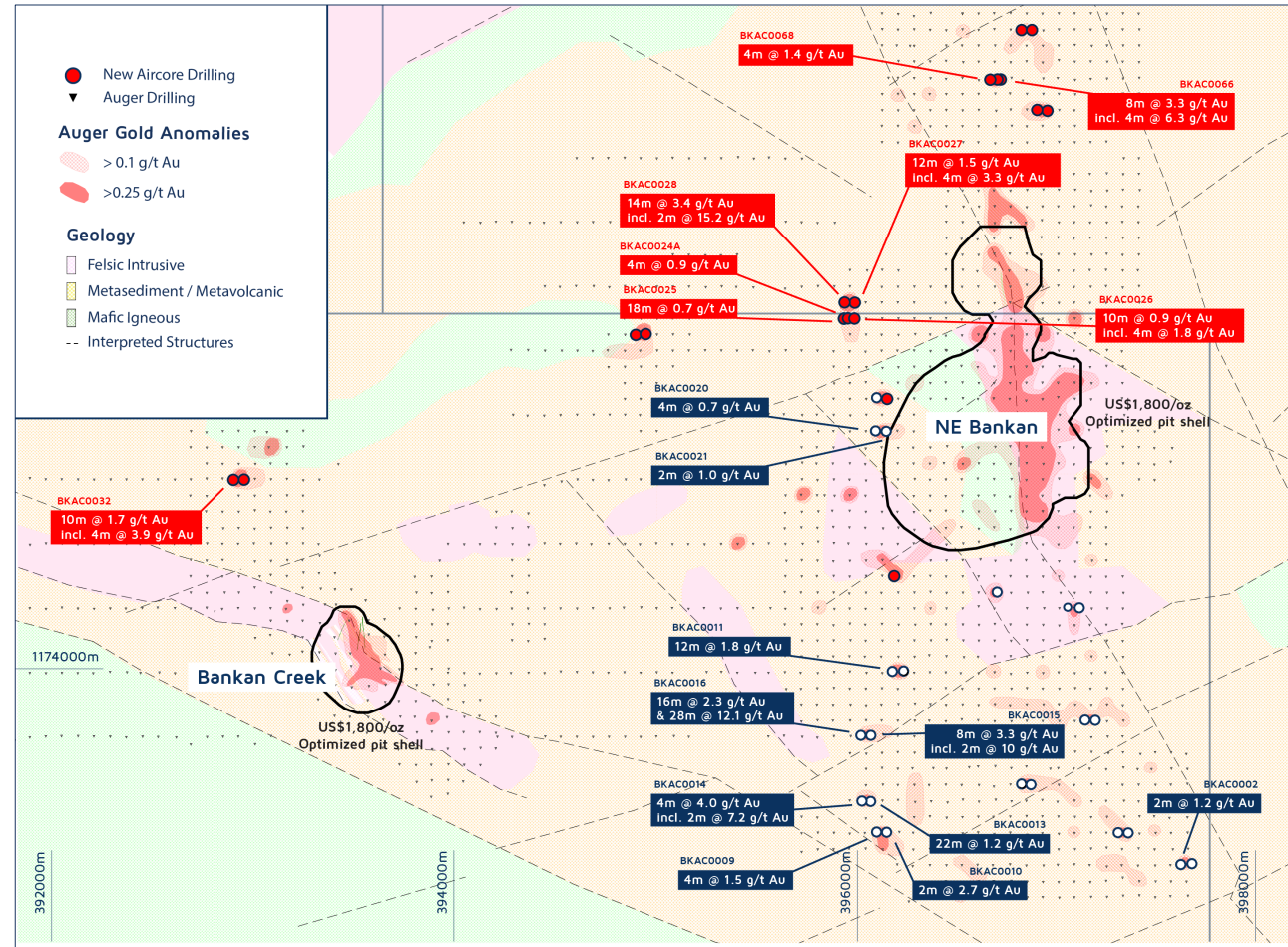
- Open at in all directions
- 3km from NE Bankan
- Lightly explored
- Significant potential for Resource growth

7,000m drilling program to be completed

Near-deposit potential

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

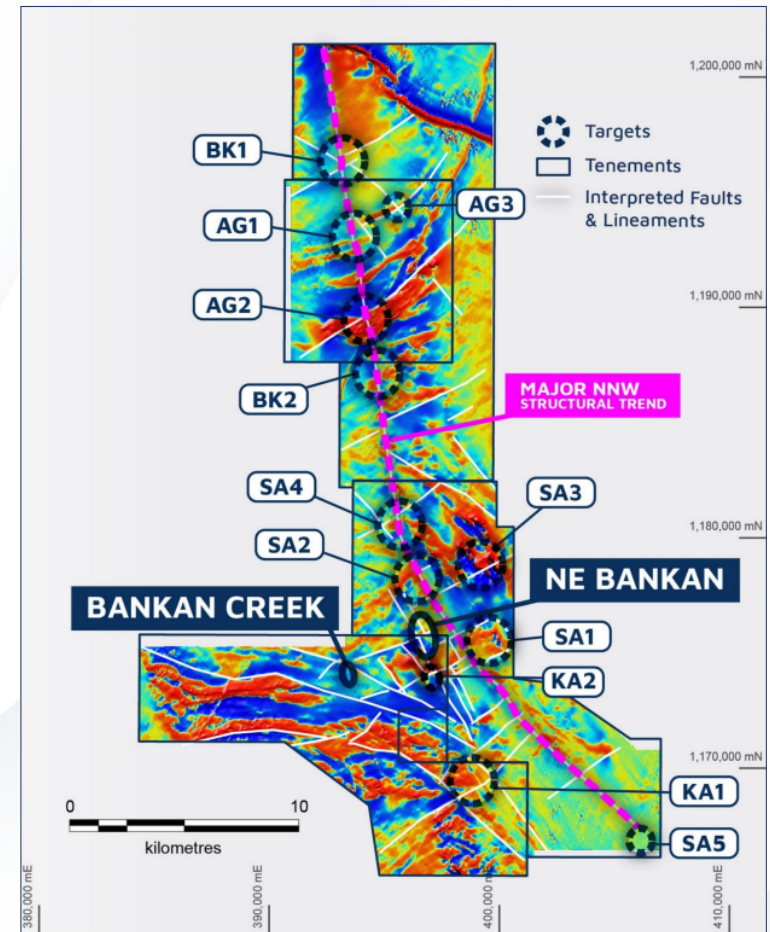
- Results provide confirmation of the extent of gold mineralised locations in the area surrounding NE Bankan and Bankan Creek
- Programs designed to deliver additional resource ounces in close proximity to both ore deposits
- Infill and extension drilling on new gold prospects as they emerge from Aircore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



Regional Potential

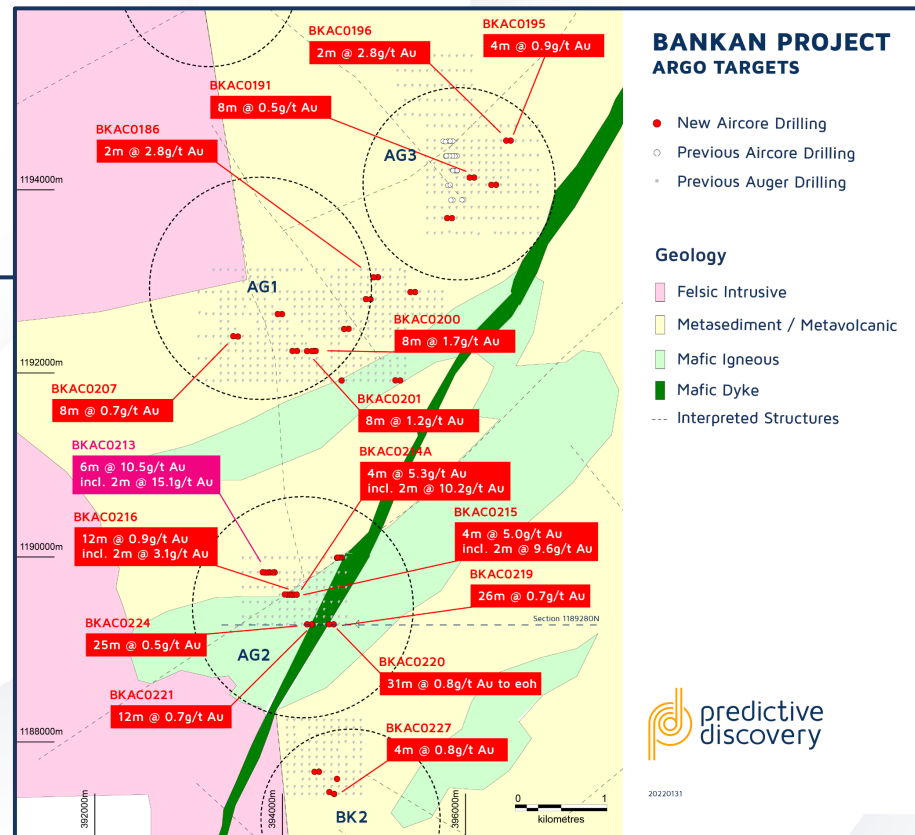
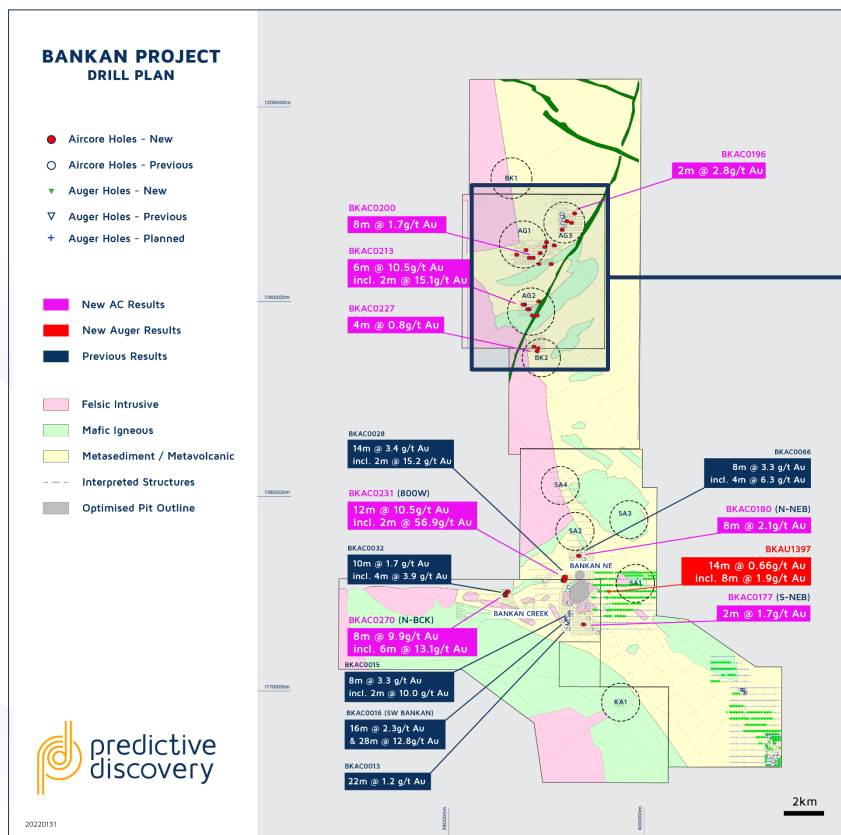
Bankan driven by 35km-long gold super-structure with significant exploration upside

- 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
- One team dedicated solely to regional exploration
- Regional programs are ongoing



Regional Potential

Early results highlight a gold-rich regional structure





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
Total	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 2nd September 2021, and was previously reported by PDI on 30th September 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
0	496,386,611	0.25	4,014,366
0.1	92,718,277	1.35	4,014,366
0.2	88,314,177	1.41	3,993,127
0.3	80,670,227	1.52	3,931,687
0.4	75,579,577	1.60	3,876,040
0.5	72,332,714	1.65	3,884,109
0.6	68,141,564	1.71	3,755,997
0.7	61,957,776	1.82	3,626,769
0.8	54,888,963	1.96	3,456,318
0.9	47,457,813	2.13	3,253,238
1.0	40,072,925	2.35	3,027,680

Material ASX Releases

IMPRESSIVE GOLD HITS CONTINUE AT 4.2MOZ BANKAN GOLD RESOURCE , 25/08/2022
HITS CONTINUE AT 4.2MOZ BANKAN GOLD PROJECT, 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



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