



West Africa's new 4.2Moz Gold Project

Diggers and
Dealers
Presentation
August 2022



Acknowledgment of country

We thank Linden Brownley for his warm welcome to country and acknowledge the Wongutha People, Traditional Custodians of the land on which we stand today and pay our respects to their Elders past and present.

I extend that respect to Aboriginal and Torres Strait Islander peoples here today.



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.

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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. Mr Jankowski consents to the inclusion in the report of the matters based on his information in the form and context in which it appears. The Mineral Resource estimate reported herein was released to ASX on 30 September 2021. The Company confirms that all material assumptions and technical parameters underpinning the Mineral Resource continues to apply and have not materially changed. The Company confirms that it is not aware of any new information or data that materially affects the information included in the previous announcements.

The exploration results reported herein are based on information compiled by Mr Norm Bailie. Mr Bailie is a full-time employee of the company 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. Mr Bailie consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

This presentation has been released with authority of the Board

Company Overview

All the ingredients for a Tier-1 gold mine

Exploration/development company with a Tier-1 asset in Guinea
Listed on ASX (ASX: PDI) with a market cap of c.A\$408m
Management team brought in to deliver on the building of
West Africa's next Tier-1 gold mine

Bankan Project : 0 to 4.2Moz in 22 months (Global Resource)

New Resource Update 1st August 2022: NE Bankan deposit now
72,332,714 at 1.65g/t Au for 3.9 million ounces of gold

NE Bankan Resource Grade increased to 1.65g/t

Initial Underground Resource reported below optimised pit shell

Strategy to increase aggressively increase resource base with 9 drill rigs
currently on site

Metallurgy: Straightforward and simple



Capital structure

1,701M

Shares on issue

A\$57M

Cash

A\$408M

Market cap (at 29 July 2022)

Technical partners



CSA Global
Mining Industry Consultants



Research



Brock Salier



Royce Haese



Paul Howard



Yuen Low



Alex Topouzoglou



Mike Milikan



The Right Team

Highly experienced Board and senior management team



Board

Simon Jackson Non-Executive Chairman

- Chartered accountant with over 25 years' experience in the management of resource companies, particularly in Africa
- Currently Non-Executive Chairman of Sarama Resources Limited (TSXV:SWA)
- Has been a director of multiple ASX- and TSX-listed companies

Andrew Pardey Managing Director

- 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
- Geologist with extensive mine and development experience in North and West Africa
- Currently Chairman of Tanga Resources Limited (ASX:TRL) and non-executive director of Marvel Gold Limited (ASX:MVL)

Sandra Bates Non-Executive Director

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

Steven Michael Non-Executive Director

- More than 25 years' experience in the global resources sector, specialising in corporate finance and equity capital markets
- Currently Non-Executive Director of Wia Gold Limited (ASX:WIA) as well as Managing Director and CEO of Vimy Resources (ASX:VMY)

Management Team

Marlyatou Balde Country Manager

- Guinean National
- Most recent role last five years – Technical Advisor to the Minister of Mines and Geology - Guinea
- Geologist with over 25 years experience both in Guinea and internationally
- Previous roles include Anglogold Ashanti, Barrick, BHP

Pierre Louw Chief Financial Officer

- Senior professional accountant with over 35 years diverse hands-on 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
- Extensive experience in gold and copper mines, narrow view and bulk deposits.
- Most recent role in Guinea 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 Group Exploration Manager for Centamin, independent private funds and consultancies
- Joined PDI from his most recent role as Head of Exploration for Cora Gold (AIM:CORA)

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
- Extensive experience in gold and copper mines, narrow view and bulk deposits
- Previously involved in a number of successful feasibility studies across Australia, China and Africa
- Previous General Manager Sukari Gold Mine Egypt



4.2Moz at 1.63g/t

Announced Monday 1st
August 2022

New Resource Statement



New Resource Statement

Announced Monday 1st August 2022

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:

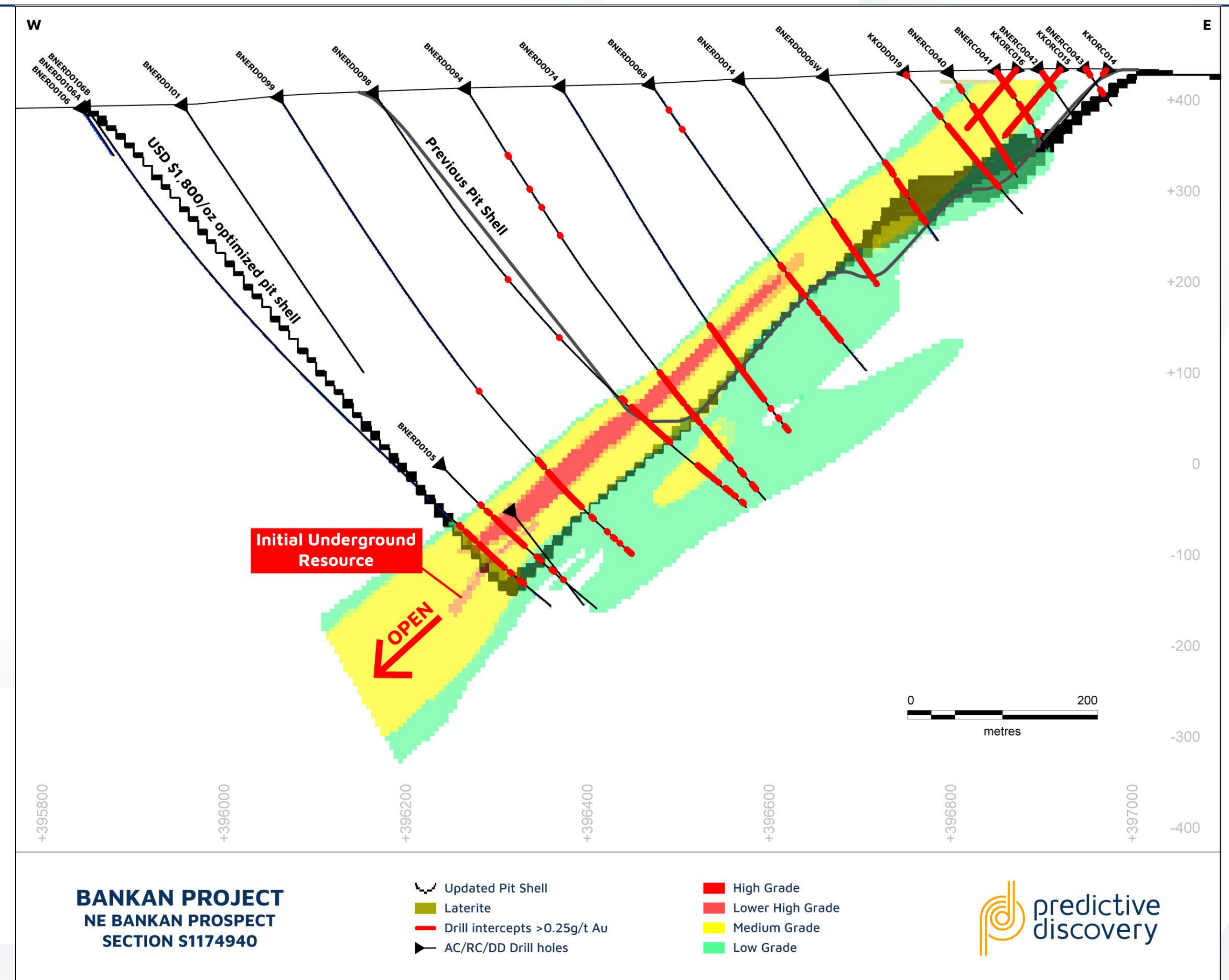
1. The Northeast Bankan Mineral Resource is estimated with all drilling data available at 21st June 2022; the Bankan Creek Mineral Resource is estimated with all data available at 2nd September 2021, and was previously reported by PDI on 30th September 2021
2. The Mineral Resource is reported in accordance 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

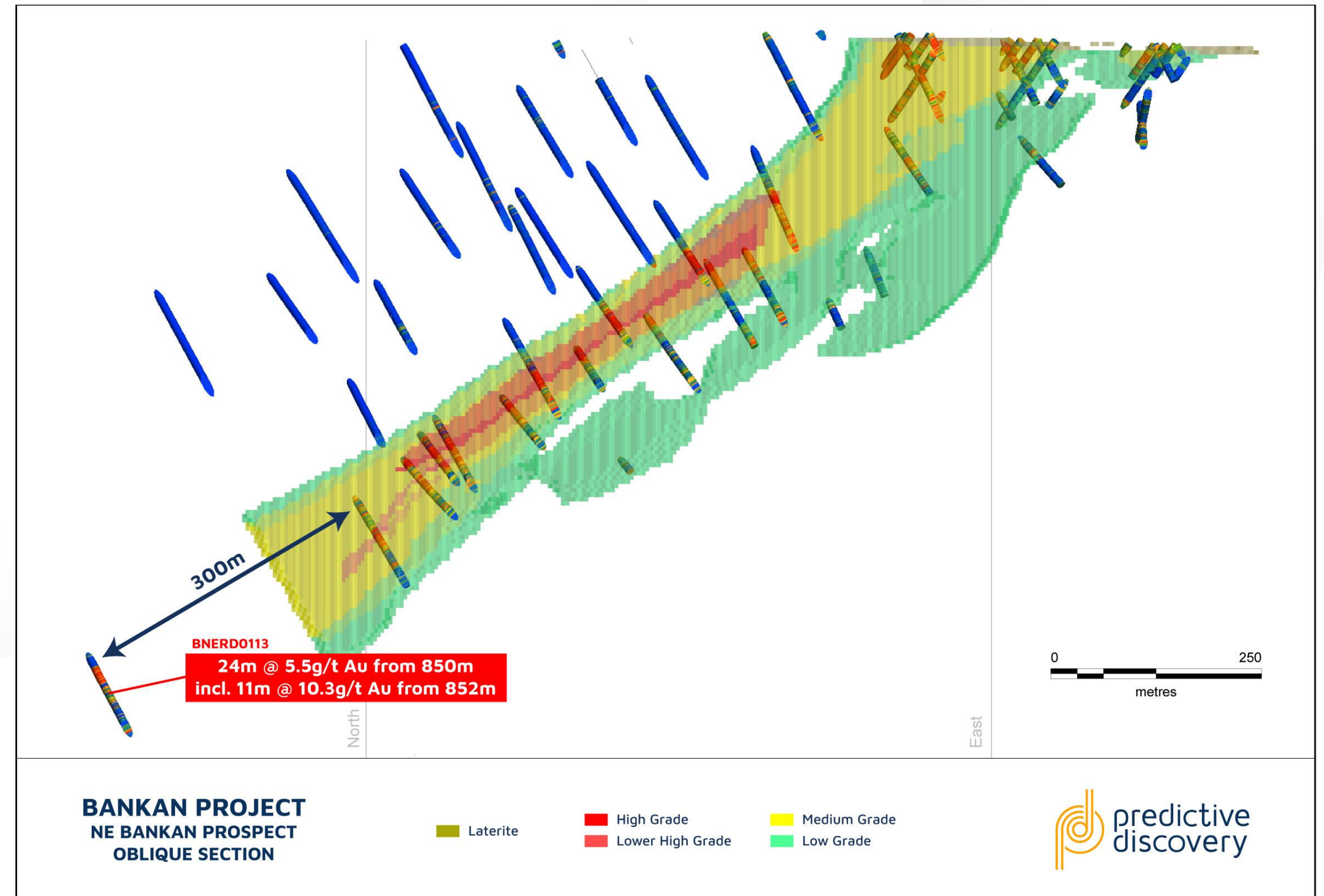
New Resource Statement

NE Bankan –
open at depth
and along strike



New Resource Statement

Potential to increase the resource base substantially, especially down plunge





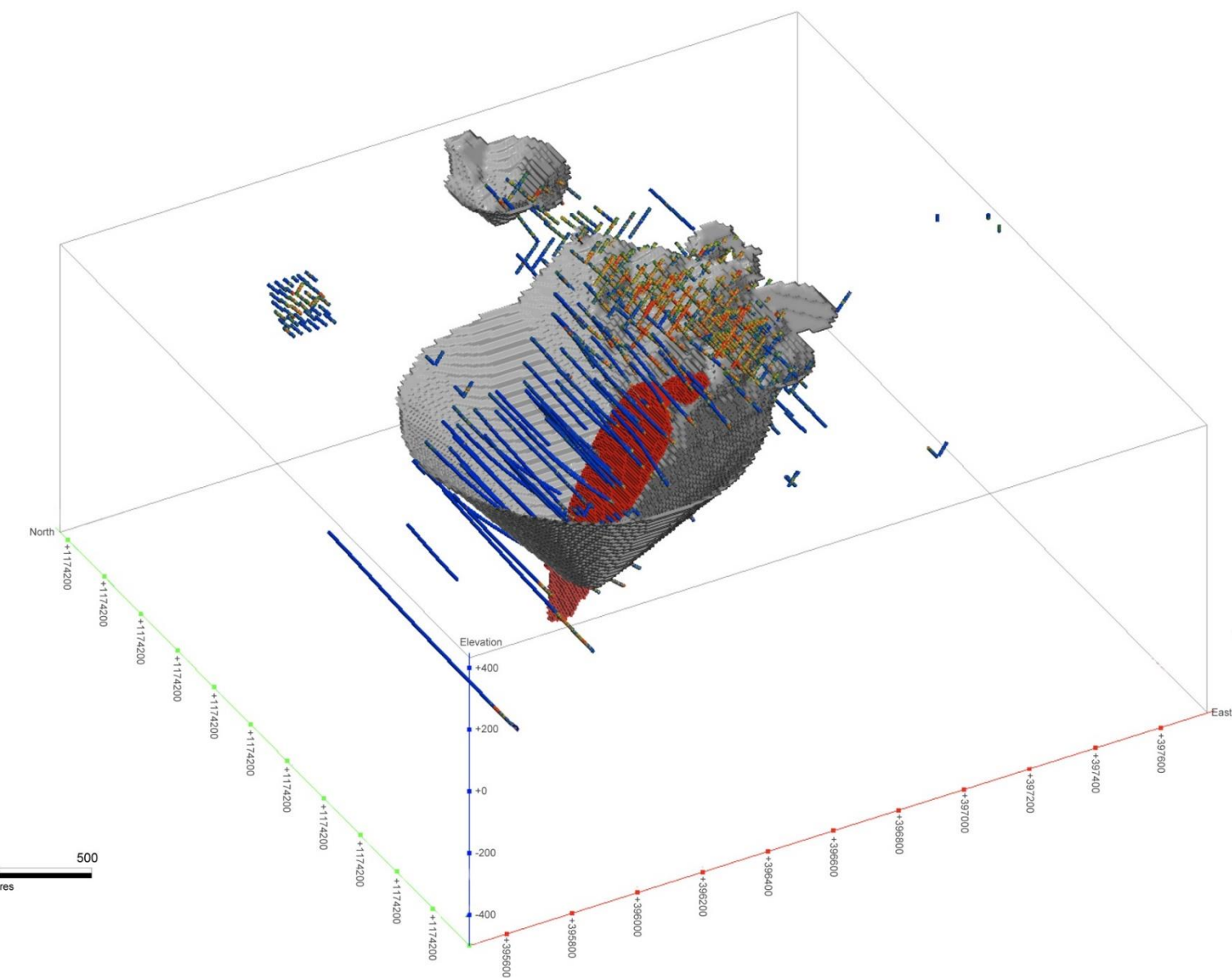
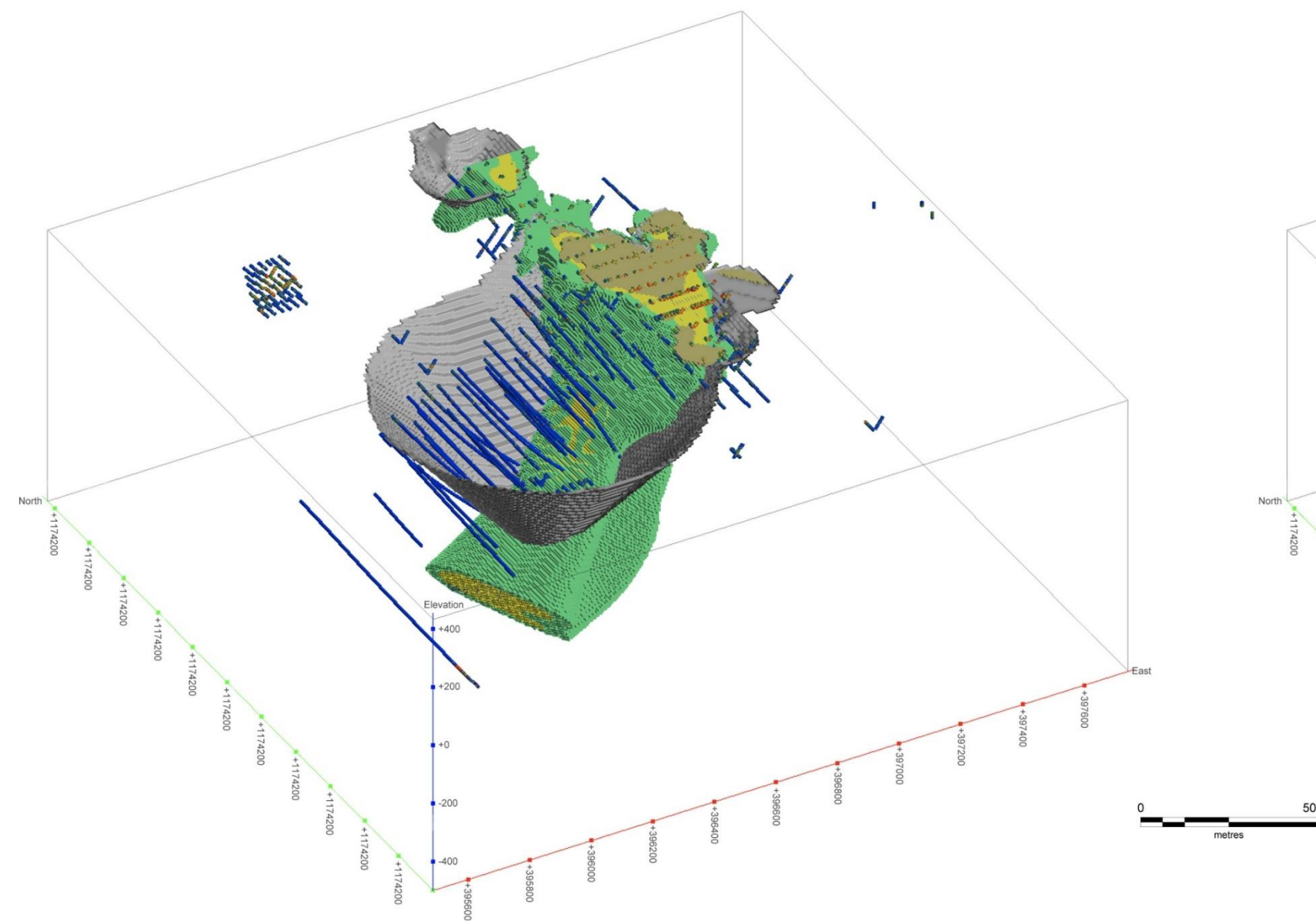
New Resource Statement

Extensions to the High-Grade zone expected to significantly increase the resource

BANKAN PROJECT HIGH GRADE ZONE

Legend

- Laterite
- High Grade
- Lower High Grade
- Medium Grade
- Low Grade





Delivering a best
practice biodiversity
management program

ESG and Sustainability

ESG Highlights

- Materially enhanced our independent oversight and management control of ESG matters, which is essential to the responsible delivery of the Bankan Project to the benefit of all stakeholders
 - Sandra Bates, NED, appointed and Chair of ESG Board Committee
 - Appointment of Andre Pieters as ESG Manager, responsible for oversight of all environmental, H&S, community and critical in country stakeholder engagement
- Engaged leading consultancies ERM and INSUCO to support our operational and ESG communications activities
 - ERM and INSUCO, internationally recognised consultancies, engaged to manage the environmental and social (respectively) impact assessment study
 - Critical Resources (part of ERM) engaged to deliver Risk (strategic, operational, stakeholder) and Commitments register (PDI commitments to local, national and international stakeholders)
- Commenced engagement with key government stakeholder groups to ensure alignment on objectives and expectations including with the Ministry of Environment and Sustainable Development and separately the National Parks Authority.

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03.

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Key Activities

Rapid Ecological Assessment (REA)

- Conducted by Biotope comprised desktop research and field assessments.

Risk & Commitments Register

- Identifying long list of strategic, development and operation risks relevant to the development and operating the Bankan Project

Key Stakeholder Engagement Plan

- Run by Critical Resource to identify a list of stakeholders to ensure fulsome and representative engagement with local, national and potentially international stakeholder groups with an interest in the Bankan Project, be it Economic, Environmental or Social

Environmental and Social Impact Assessment (ESIA) Permitting Process

- PDI's Committed to designing a project that embeds environmental and social matters at its core and to align with the expectation of all stakeholders
- ERM (global environmental consultancy) engaged to lead environmental component of ESIA
- INSUCO (an independent international consultancy, specializing in social sciences and engineering) is engaged to lead social component of ESIA
- Initial scoping assessments underway



4.2Moz at 1.63g/t

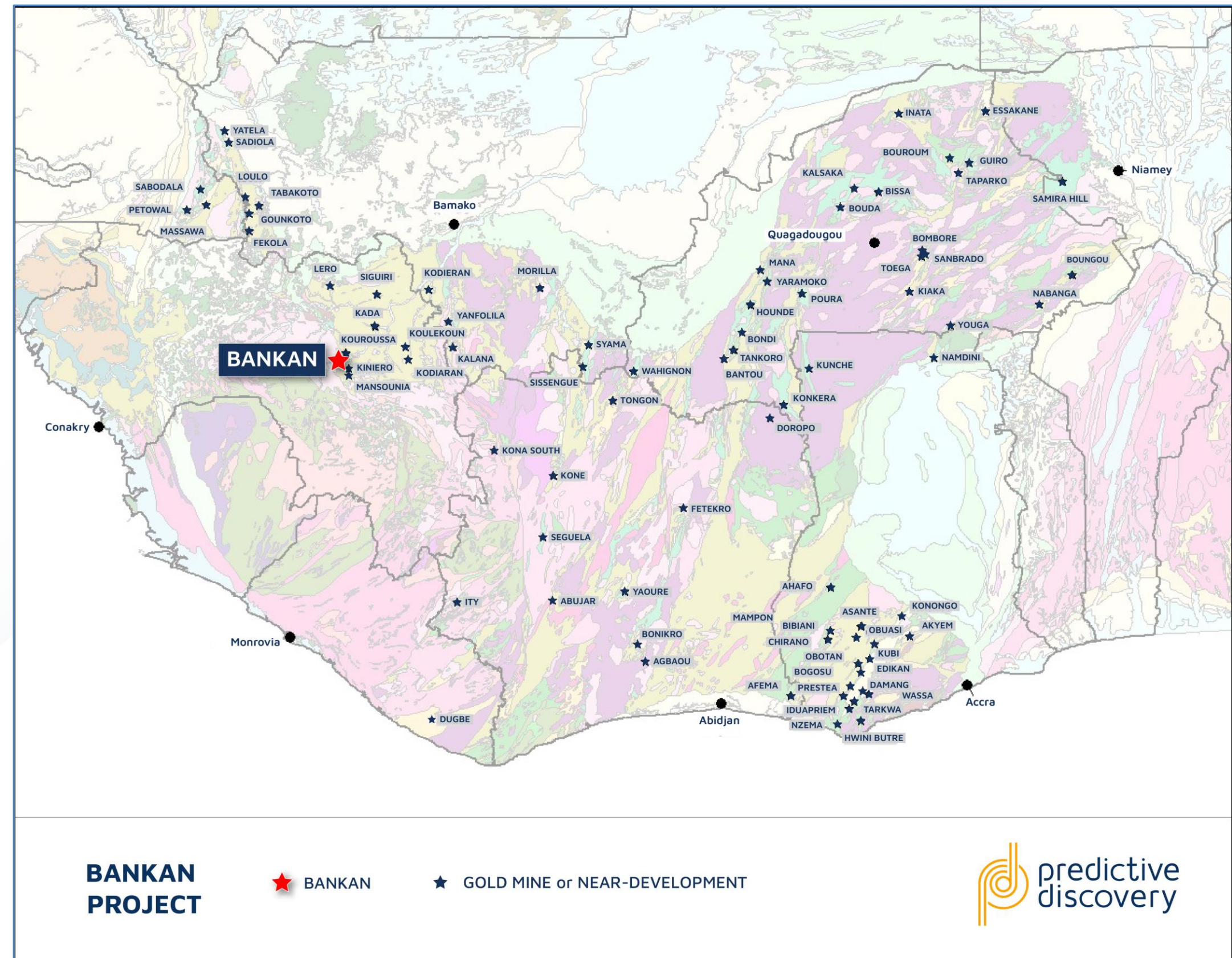
Announced Monday 1st
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About Bankan

Siguiri Basin

Bankan Project is strategically located in Siguiri Basin, the centre of Guinea's new gold rush

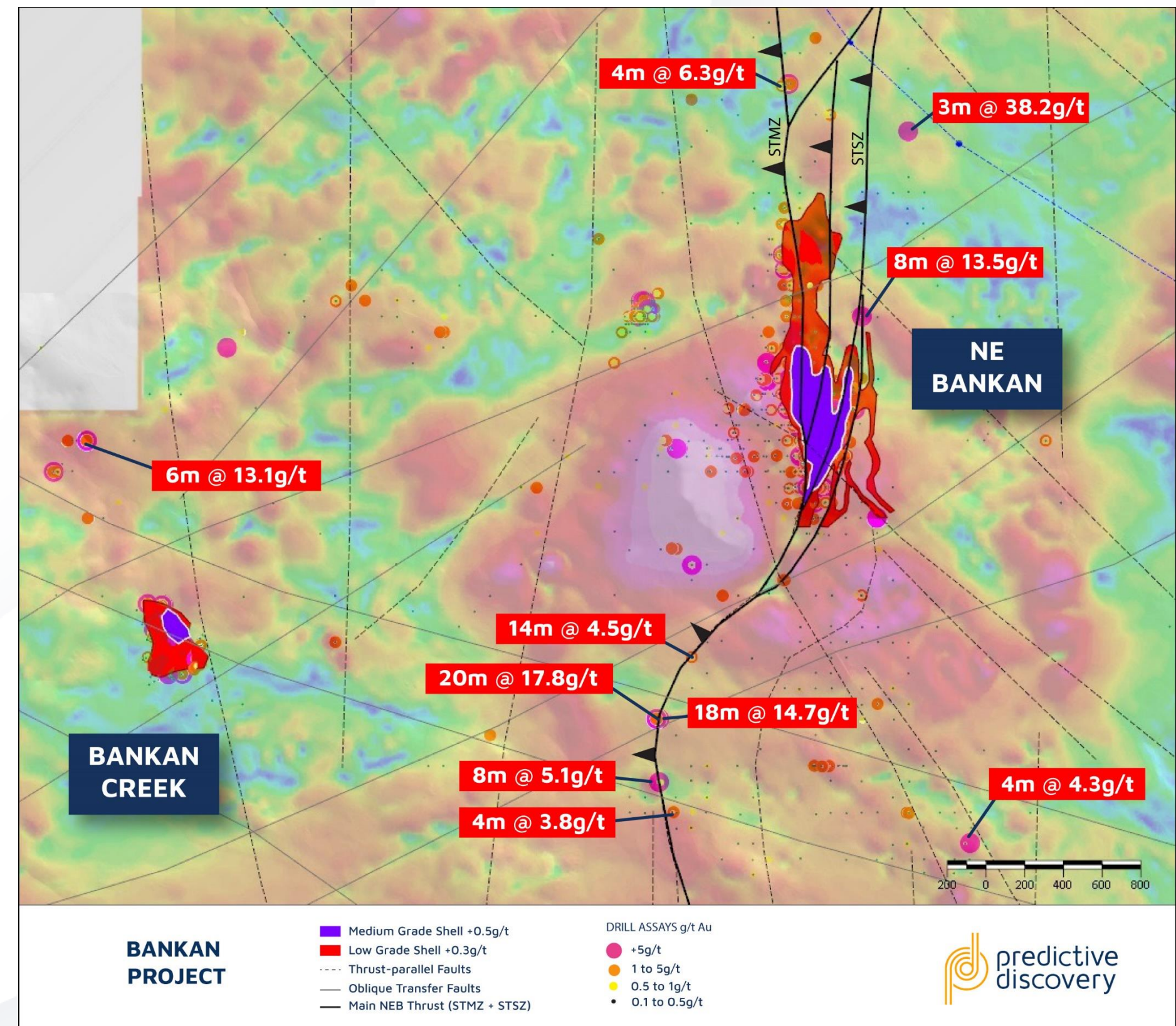
- The Siguiri Basin is part of the richly mineralised West African Birimian gold belt, home to some of the largest mines in the region
- c.17Moz ounce of resources discovered over the last decade and produces about 500Koz Au per year
- Siguiri Basin is the least explored region within the West African Birimian Greenstone belt, which hosts mines including:
 - **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)



Introduction to Bankan Project

West Africa's next Tier-1 gold mine

- Four contiguous exploration licences covering a 35km-long richly gold endowed super structure
- Discovery hole to MRE in 22 months
- 4.2Moz (Inferred) MRE at 1.63 g/t across two separate deposits:
 - **NE Bankan: 3.8Moz**
 - **Bankan Creek: 0.34Moz**
- Aggressive drilling programme in place to target deposits over the next 12 months
- Straightforward open pit project with significant potential for high-grade underground mining
- Simple metallurgy with conventional processing



NE Bankan

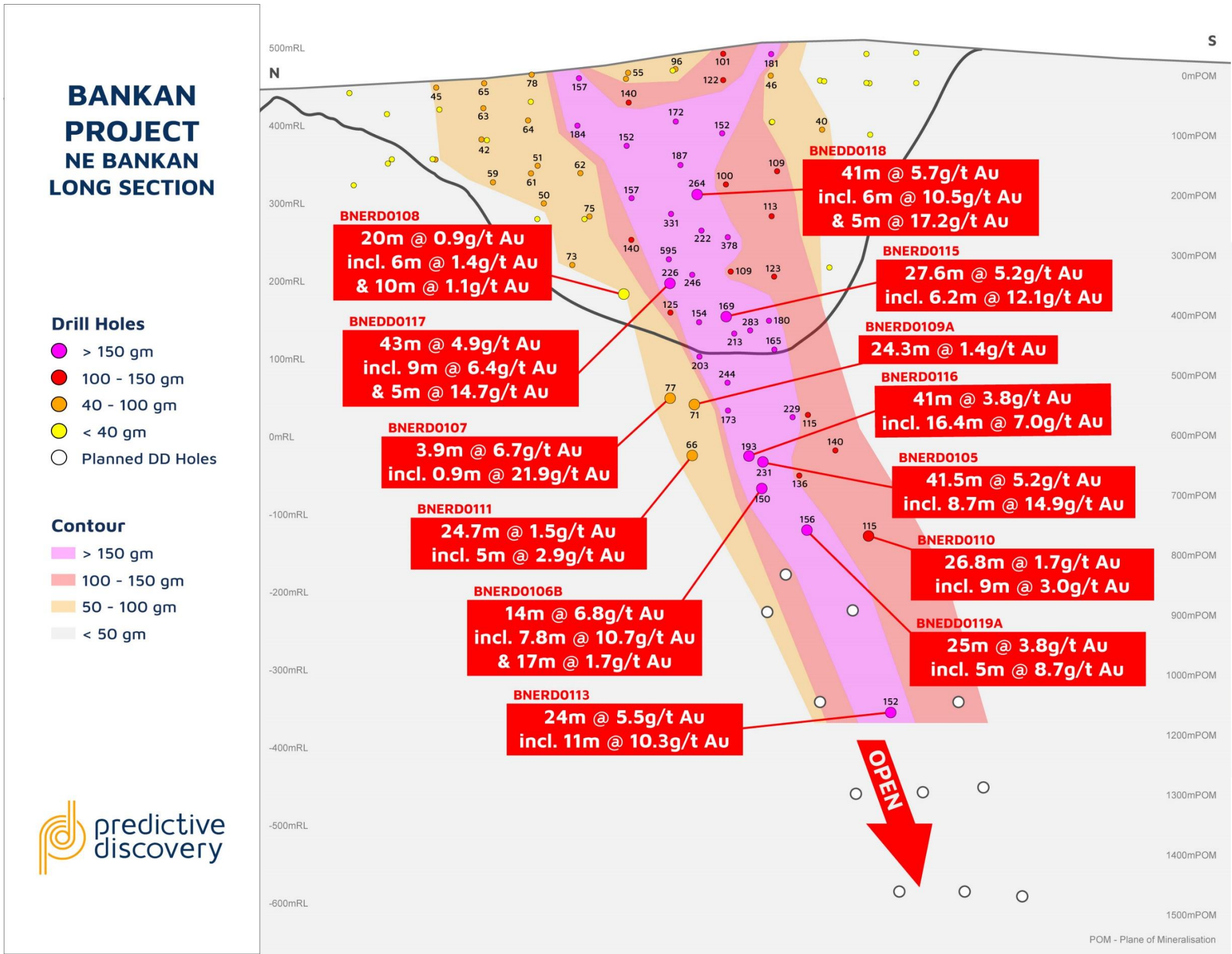
Excellent hole-to-hole continuity

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



Bankan Creek – Open in all directions

340Koz only 3km west of the NE Bankan discovery



Bankan Creek drill plan

Drill Holes Gram metres

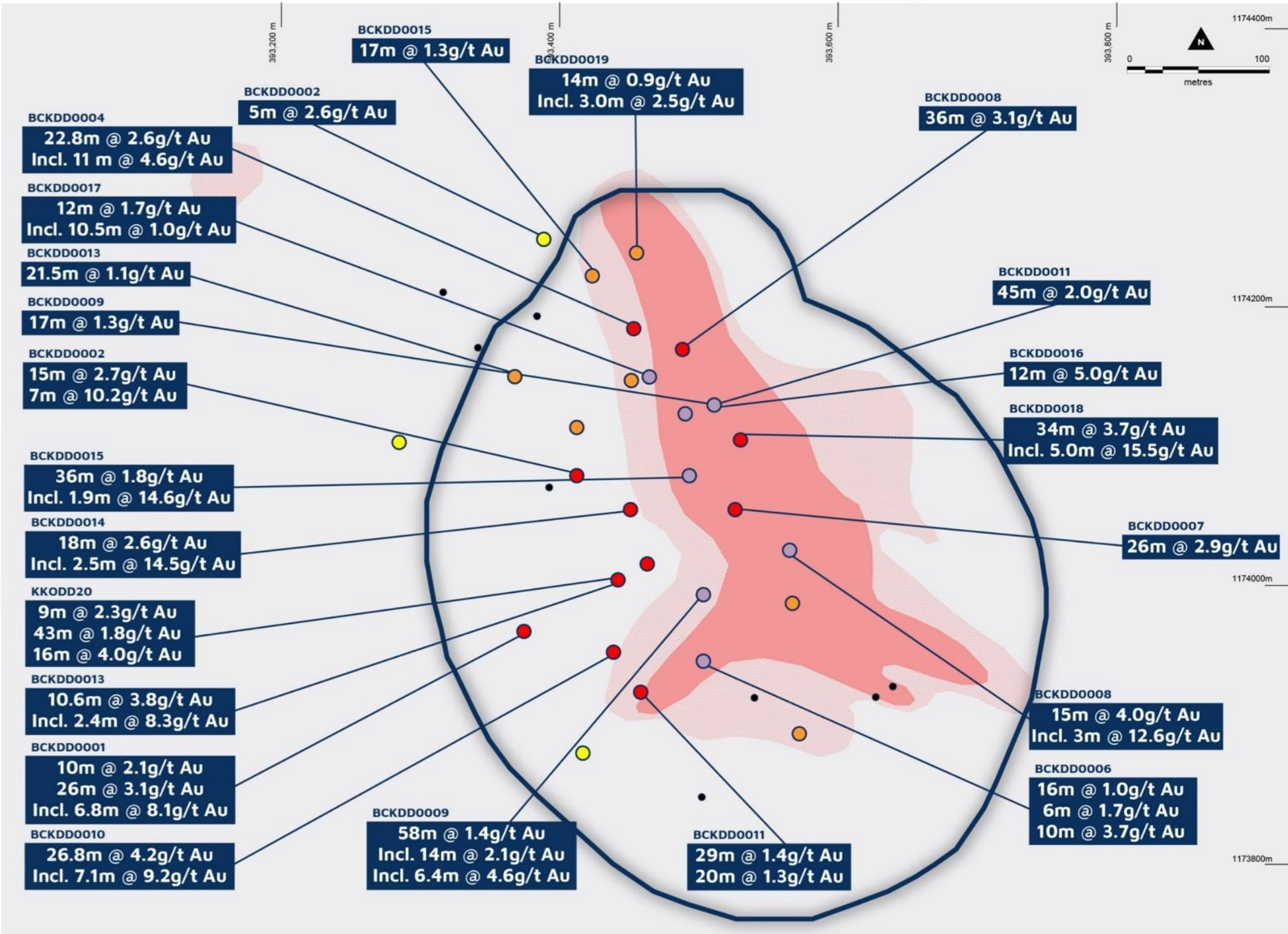
- > 100
- 50-100
- 25-50
- 10-25
- < 10

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.



Straightforward and simple metallurgy

- Initial metallurgical test work has been completed on the high-grade zone in the lower area of the current pit shell
- Average recovery overall was 92.8%
- Two sample streams were 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



Guinea: West Africa's next mining district



Established Mining Code & fiscal regime

- Royalty of 5% plus a 1% contribution to Local Development
- State entitled to 15% free carry
- Advanced and robust environmental management expectations
- Latest Guinea Tax Code published in 2021

Stable mining jurisdiction

- Uninterrupted mining
- Operators include AngloGold Ashanti, Rio Tinto, Hummingbird, Anglo African Minerals, Compagnie des Bauxites de Guinée (Alcoa)

Positive and proactive two-way communication with Mining and Environmental Ministries

- Regular engagement at all-levels
- Ministry of Environment and Sustainable Development approval for conservation activities in the Upper Niger National Park through exploration, development and operation phases

18%

To GDP

31%

To government revenues

97%

To export revenue

6.5%

To employment

Mining industry's contribution to the economy (EITI)

Bankan Project – Significant growth potential

The ASX most exciting gold exploration and development story



NE Bankan

A high-grade core zone at the centre of the deposit

Estimated contained ounces in the lowermost 100m (vertical extent) of the +3g/t Au component of the resource block model were 500,000oz gold or 5,000 oz/vertical metre

Open at depth and along strike, there is potential to increase the resource base substantially, especially down plunge

Company to test depth and strike extensions to this zone

Drilling is now in progress with two drill rigs to test this zone at depth

Drilling to ascertain ability to significantly add to resource ounces in the next MRE update

5-6 more rigs to be added to build out and prove up resource base

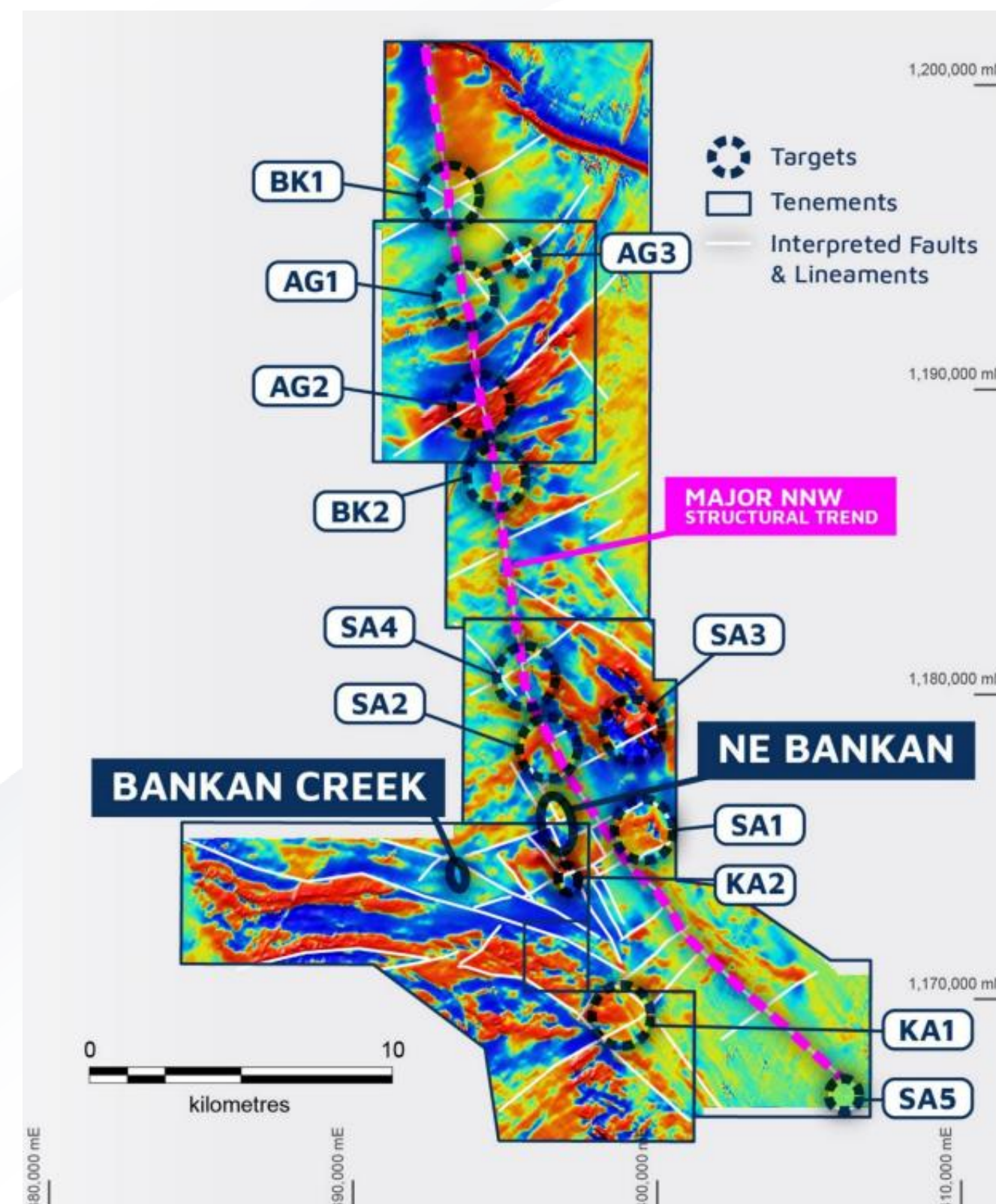
Bankan Creek

Follow-up aircore drilling has obtained substantial gold intercepts on four prospects so far, three of which are within 3km of NE Bankan

All are open along strike and at depth and require follow-up deeper drilling

5-6 more now added to build out and prove up resource base

* See page 11 of ASX release dated 30 September 2021



Investment highlights

The ASX most exciting gold exploration and development story

The next West African Tier-1 gold mine

Bankan Project: 4.2Moz (Inferred) MRE

NE Bankan Deposit 76.3 million tonnes @ 1.63g/t for 3.99 million tonnes

9 drill rigs on site with a clear strategy to increase Resources

Well positioned to become Guinea's largest gold producer within 5 years

Full backing of Guinean government

Enhancing social license to operate & committed to delivering returns to all stakeholders

The right Management Team to build & operate the mine



Material ASX Releases



DEEPEST HOLE TO DATE INTERCEPTS GOLD 630M DOWN DIP, 15/07/2022
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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