



West Africa's next Tier-1 Gold Mine

Noosa Mining Conference July 2022

Presenter: Mr. Simon Jackson
Non-Executive Chairman

ASX:PDI
predictivediscovery.com

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. 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\$304m

Management team brought in to deliver on the building of West Africa's next Tier-1 gold mine

0 TO 3.65MOZ IN 20 MONTHS

Bankan Project –Africa's next Tier-1 Gold Mine

3.65Moz Au (Inferred) Maiden Resource Estimate (72.8Mt @ 1.56gpt/Au) at resource discovery cost of A\$4/oz

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

Simple metallurgy

RESOURCE UPDATE DUE Q3 2022

Guinea fundamentals

Well established mining address for international miners, including AngloGold Ashanti, Rio Tinto, Alcoa

Established and fully transparent Mining Code

Guinea is an EITI Member

Guinea remains the least explored country for gold in West Africa



Capital structure

1,699M

Pro Forma SOI with T2
settlement 22 July 2022

A\$58.9M

Cash as at 15 July 2022

A\$304M

Market cap (as at 15 July 2022)

Technical partners



Research

Sprott | Capital Partners

Brock Salier



ARGONAUT

Royce Haese

cg / Canaccord
Genuity
Capital Markets

Paul Howard

**EUROZ
HARTLEYS**

Mike Milikan

LIBERUM

Yuen Low

STIFEL

**Alex
Topouzoglou**

Sustainable Development

Building an enhancing ESG oversight and management systems

Oversight

Clear and decisive investment into strengthening our governance structure and control of E&S matters, essential to the responsible delivery of the Bankan Project

- **Appointment of Sandra Bates**
 - Risk assessment specialist within the natural resources sector
- **Creation of ESG Board Committee**

Management

- **Appointment of Andre Pieters**
 - Most recent role in Guinea leading the environmental compliance program for a major bauxite exporter
 - Previous roles include Kinross Tasiast Mauritania Environment Superintendent/ Manager

Execution

Highly regarded environmental, social and ESG consultancies fully engaged

- **Critical Resources** to develop governance framework, risk register and community engagement strategy
- **ERM & INSUCO** to deliver Rapid Ecological Assessment and ESIA
- **Buchanan** to provide ESG strategies and enable effective investor communications

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



Bankan Project



Siguiri Basin

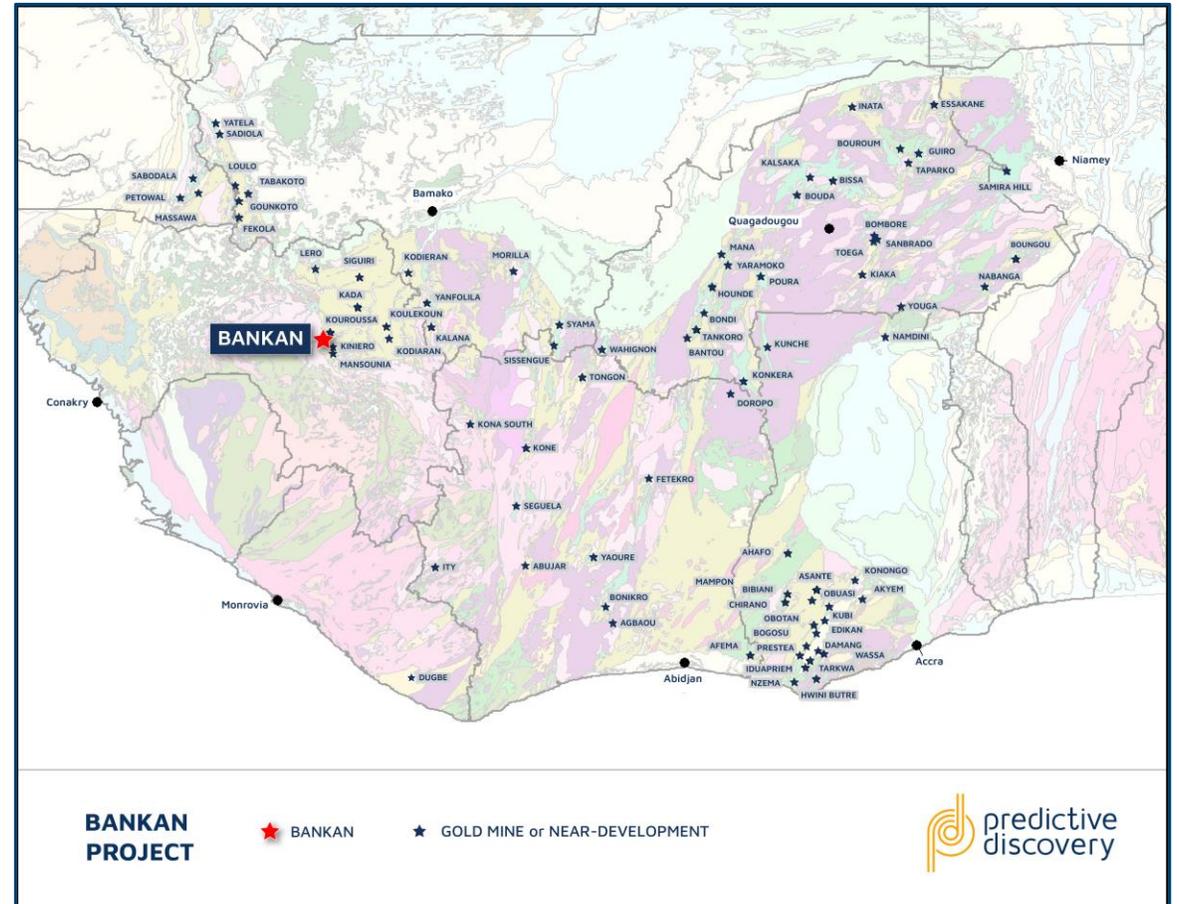
Bankan Project is strategically located in Siguiri Basin, the centre of Guinea's new gold rush

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)



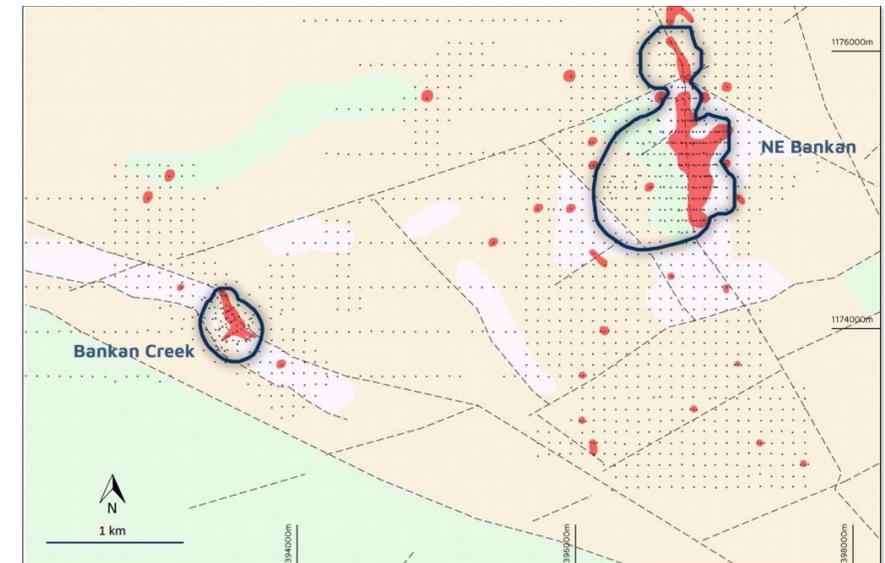
Introduction to Bankan Project

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 17 months
- 3.65Moz (Inferred) MRE at 1.56 g/t across two separate deposits
 - NE Bankan: 3.3Moz
 - 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

RESOURCE UPDATE DUE Q3 2022

Deposit	Weathering	Million Tonnes	Grade Au g/t	'000 Contained Au ounces
NE Bankan	Laterite	2.15	0.97	67
	Saprolite	11.54	1.08	401
	Primary	51.87	1.71	2,852
Bankan Creek	Laterite	0.15	1.04	5
	Saprolite	1.01	1.83	59
	Primary	6.08	1.37	268
Total	Inferred	72.80	1.56	3,646

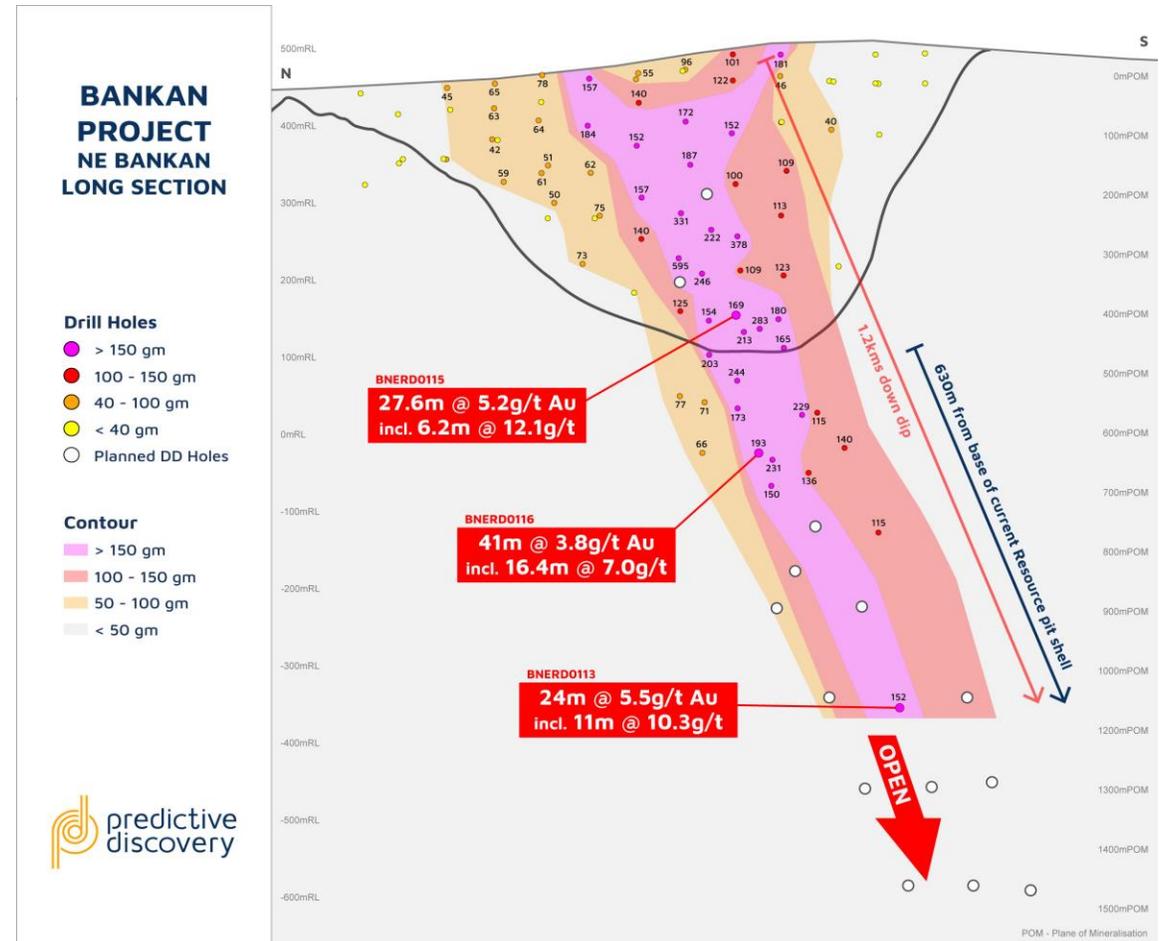


NE Bankan

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
- 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



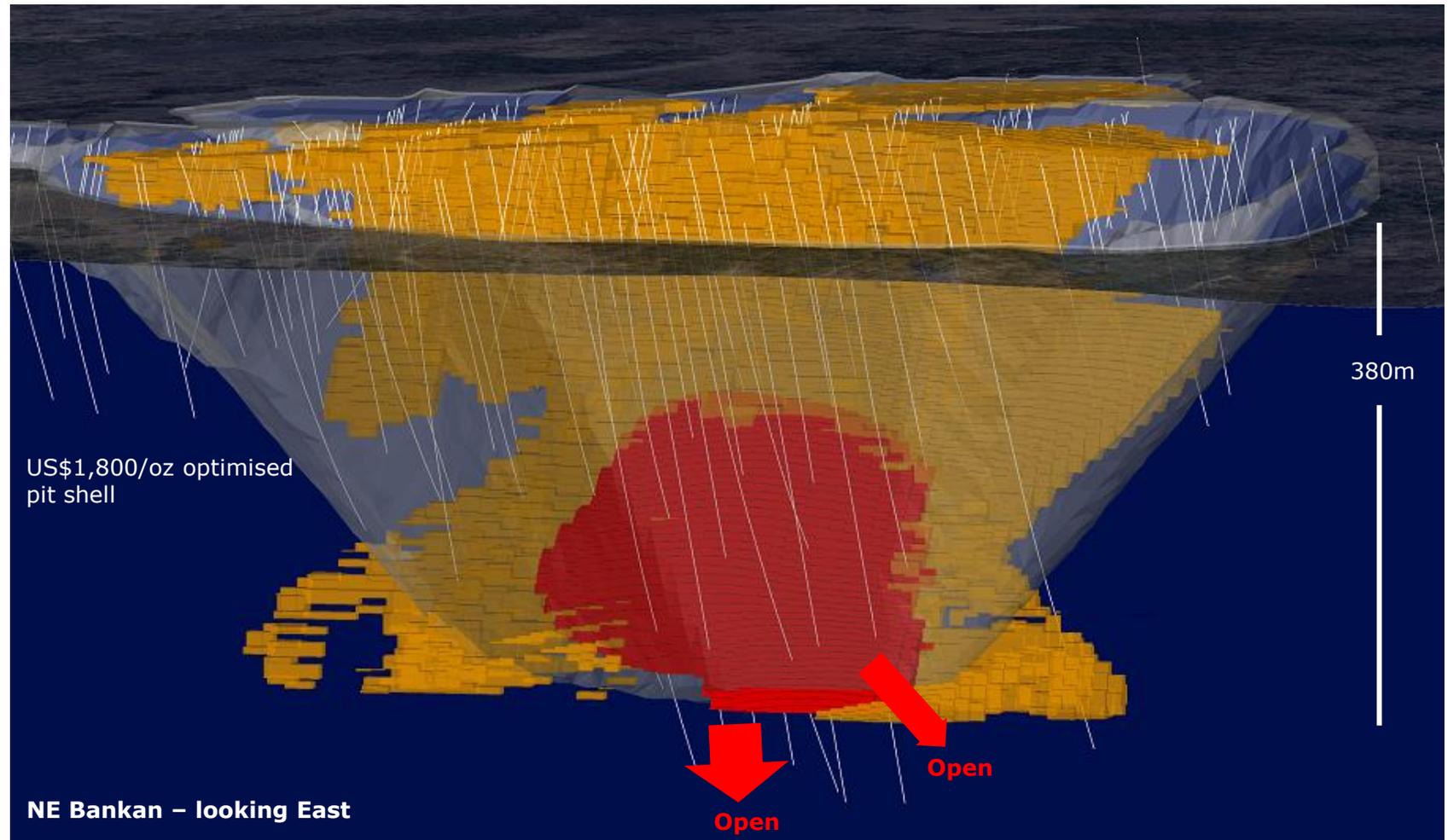
NE Bankan's high-grade core

Outstanding mineralisation continuity at higher cut-off grades

Resource block model

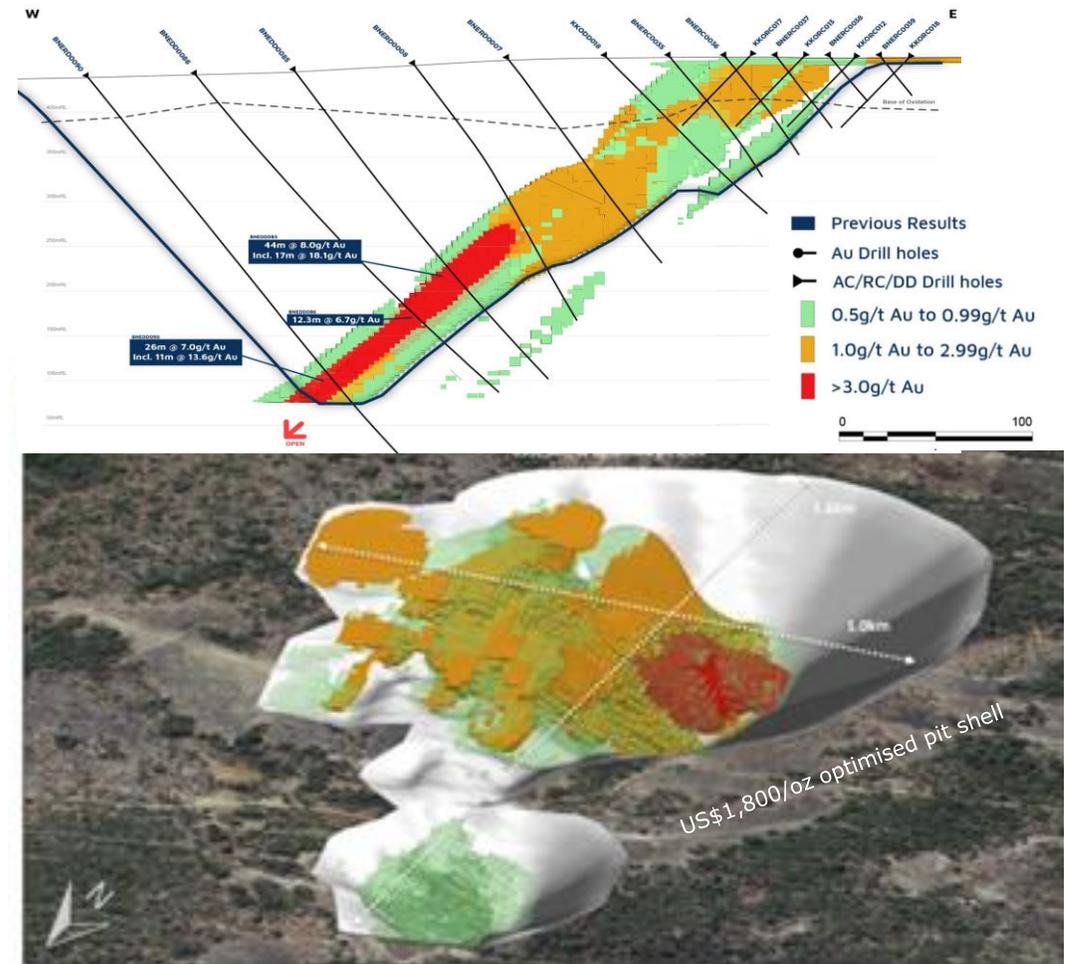
Legend

- > 3.0g/t Au
- 1.0 – 3.0g/t Au



Potential for straightforward open-pit mine

- Initial scoping-level metallurgical testwork completed has returned excellent gold recoveries under standard test conditions
- Gold mineralisation confirmed as free-milling with high gold recoveries and amenable to a simple, industry-standard processing
- Straightforward processing of ore
- Leach recoveries from all gold mineralisation types ranged from 94.2% to 98.5% under optimised conditions



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

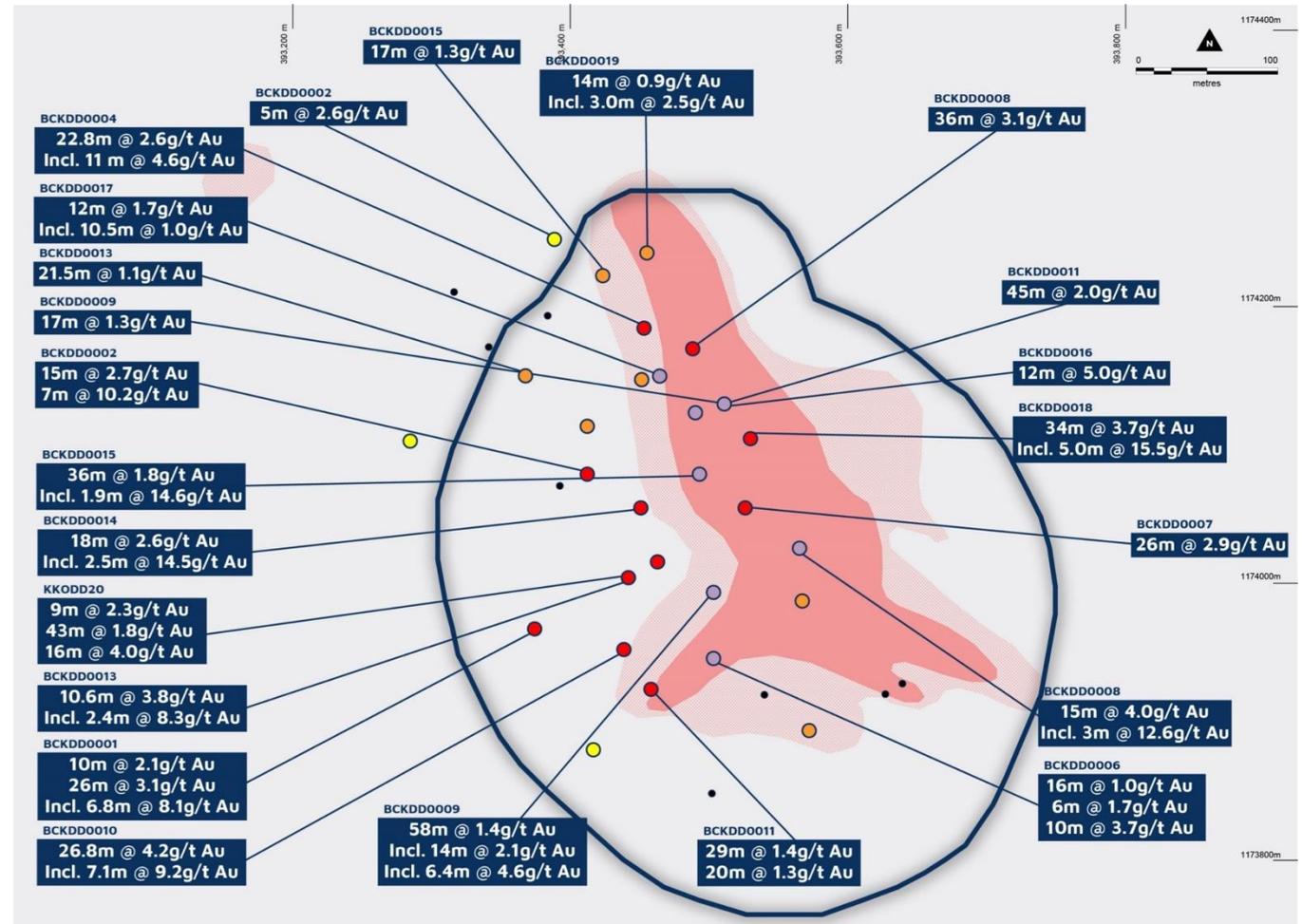
Power Auger

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

Notes

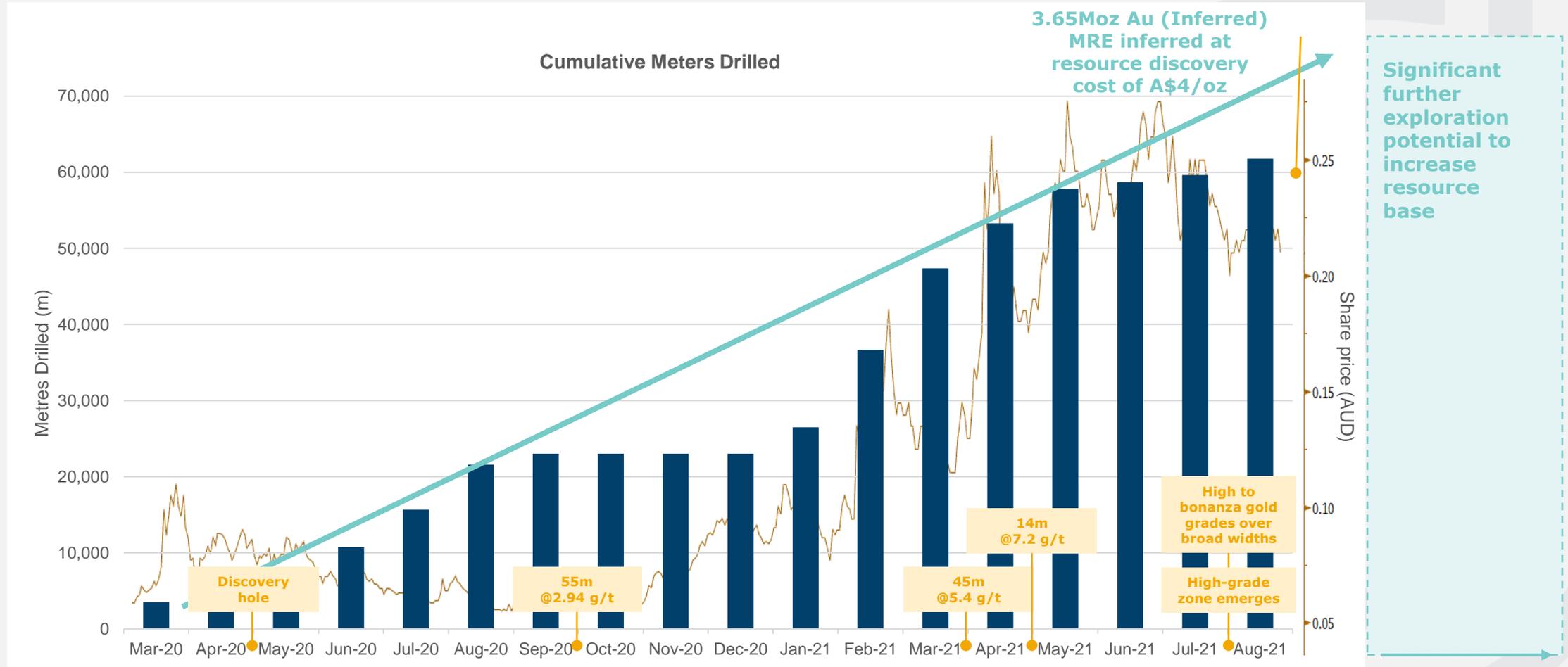
Intercept values shown = aggregate of reported intercepts (0.25g/t Au cutoff grade) excluding intercepts averaging <0.5g/t Au.

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



Bankan Project – high-return drilling campaign

Additional rigs to aggressively target additional ounces and gold discovery



Guinea: West Africa's next mining district

Established Mining Code & fiscal regime

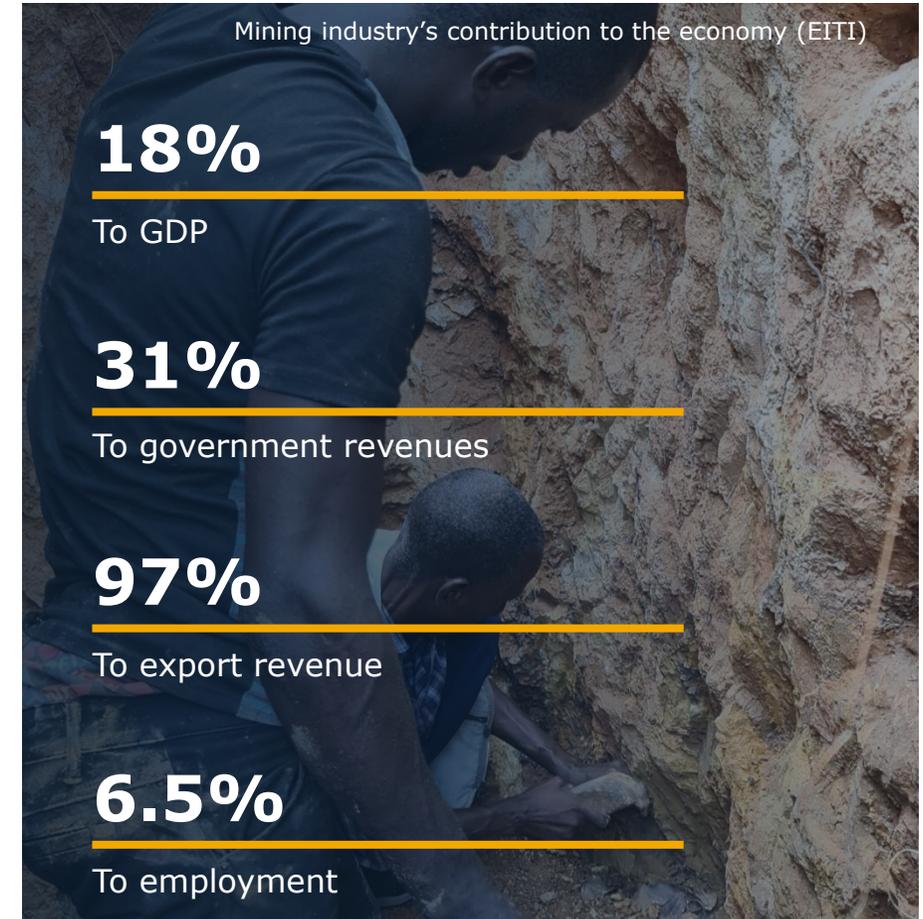
- Royalty of 5% plus a 1% contribution to Local Development
- State entitled to 15% free carry
- Advanced and robust environmental management expectations
- Latest Guinea Tax Code published in 2021

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



Bankan Project – Significant growth potential

Significant evidence structural corridor has potential to host numerous “NE Bankan-style” discoveries

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*

Company to test depth and strike extensions to this zone

- Drilling to ascertain ability to significantly add to resource ounces in the next MRE update
- Drilling is now in progress with two drill rigs to test this zone at depth
- 5-6 more rigs to be added to build out and prove up resource base

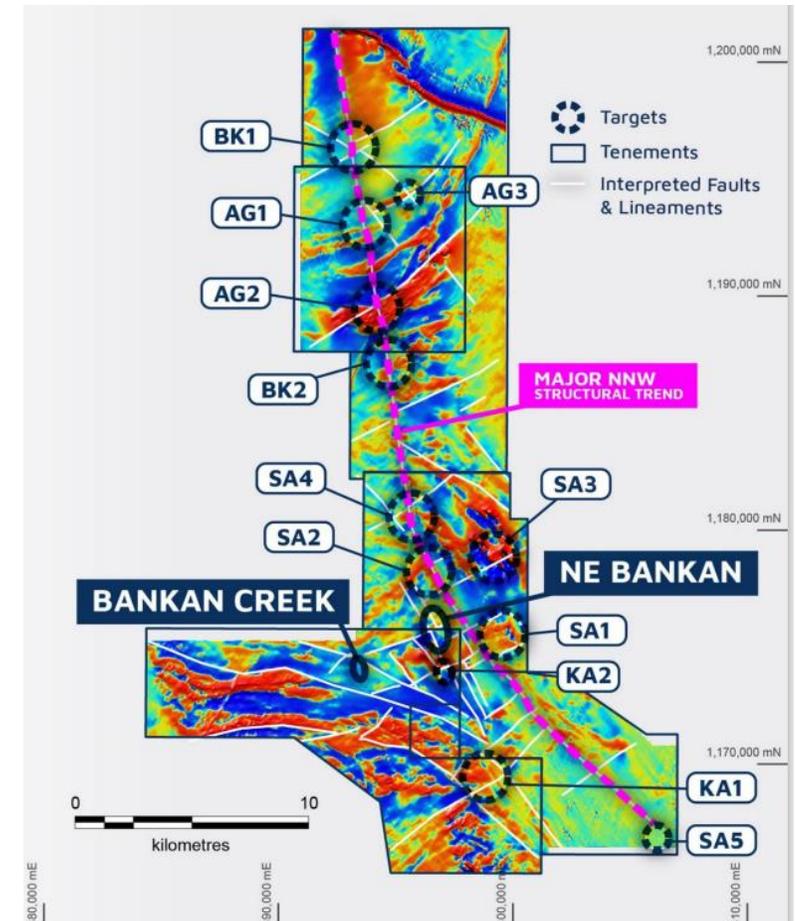
Bankan Creek

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 deposit - 3.7Moz (Inferred) MRE of 72.8 million tonnes at 1.56g/t with 9 drill rigs on site, 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

RESOURCE UPDATE DUE Q3 20220

Guinea is a mining-friendly jurisdiction

Well-established mining code

Uninterrupted mining

EITI member state





Conclusion



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

Bankan Project – Mineral resource estimate

Full table and totals

Ne bankan				Bankan creek				Totals			
Cutoff Au g/t	Tonnes	Grade Au g/t	Contained Au ounces	Cutoff Au g/t	Tonnes	Grade Au g/t	Contained Au ounces	Cutoff Au g/t	Tonnes	Grade	Ounces
0	95,515,657	1.18	3,614,576	0	8,964,356	1.22	352,706	0	104,480,013	1.18	3,967,282
0.1	94,847,388	1.18	3,613,287	0.1	8,964,356	1.22	352,706	0.1	103,811,744	1.19	3,965,993
0.2	92,422,238	1.21	3,600,811	0.2	8,952,028	1.23	352,639	0.2	101,374,266	1.21	3,953,450
0.3	81,552,613	1.34	3,513,445	0.3	8,709,644	1.25	350,613	0.3	90,262,257	1.33	3,864,058
0.4	72,373,263	1.47	3,413,103	0.4	8,235,435	1.3	345,429	0.4	80,608,698	1.45	3,758,532
0.5	65,562,063	1.57	3,314,560	0.5	7,235,710	1.42	330,965	0.5	72,797,773	1.56	3,645,525
0.6	59,801,863	1.67	3,212,702	0.6	6,446,001	1.53	317,255	0.6	66,247,864	1.66	3,529,957
0.7	52,796,432	1.81	3,066,303	0.7	5,451,798	1.69	296,798	0.7	58,248,230	1.8	3,363,101
0.8	46,792,763	1.94	2,923,466	0.8	4,768,314	1.83	280,537	0.8	51,561,077	1.93	3,204,003
0.9	40,682,038	2.11	2,756,472	0.9	4,318,467	1.93	268,388	0.9	45,000,505	2.09	3,024,860
1	34,282,544	2.32	2,561,011	1	3,952,608	2.02	257,213	1	38,235,152	2.29	2,818,224
1.1	28,568,657	2.58	2,369,957	1.1	3,291,695	2.22	235,114	1.1	31,860,352	2.54	2,605,071
1.2	24,358,938	2.83	2,215,663	1.2	2,935,998	2.35	222,077	1.2	27,294,936	2.78	2,437,740
1.3	20,447,057	3.13	2,058,450	1.3	2,720,223	2.44	213,475	1.3	23,167,280	3.05	2,271,925
1.4	16,928,938	3.5	1,905,752	1.4	2,488,485	2.54	203,491	1.4	19,417,423	3.38	2,109,243
1.5	14,110,569	3.91	1,775,269	1.5	2,286,691	2.64	194,149	1.5	16,397,260	3.74	1,969,418
1.6	12,202,457	4.28	1,680,795	1.6	2,148,266	2.71	187,295	1.6	14,350,723	4.05	1,868,090
1.7	10,716,457	4.65	1,602,442	1.7	2,082,172	2.75	183,789	1.7	12,798,629	4.34	1,786,231
1.8	9,477,313	5.03	1,533,121	1.8	2,000,569	2.79	179,198	1.8	11,477,882	4.64	1,712,319
1.9	8,499,369	5.4	1,475,269	1.9	1,878,872	2.85	171,998	1.9	10,378,241	4.94	1,647,267
2	7,576,600	5.82	1,417,713	2	1,775,769	2.9	165,568	2	9,352,369	5.27	1,583,281

Notes to Resource table:

1. The Mineral Resource is estimated with all drilling data available at 11th September 2021. Drillholes BNERD0090 and BNERD0091 (reported to ASX on 16 September 2021) were included in the resource database.
2. The Mineral Resource is reported in accordance with the JORC Code 2012 Edition at a 0.5g/t cut-off.
3. The Competent Person is Phil Jankowski MAusIMM (CP) of CSA Global.
4. The Mineral Resources are constrained by optimised pit shells using a metal price of USD1,800 per ounce Au and process recovery of 94%.
5. Rounding may lead to minor apparent discrepancies.