

Ticker: PDI AU Pro-forma Cash: A\$39m Project: Bankan Ck / NE Market cap: A\$182m Price: A\$0.135/sh Country: Guinea

RECOMMENDATION (unc): BUY TARGET (up): A\$0.20/sh RISK RATING: VENTURE

Recent drilling lifts our SCPe Bankan NE resource from 1.3Moz to 1.8Moz as, most importantly, the prior 44m @ 8.0g/t links to today's 50m @ 12g/t ~100m along strike, showing (i) grades improve at depth, and (ii) the system plunges ~300m further south than we anticipated (Figure 1, RHS). With the dip at ~40-45°, endowment could be ~40% higher than we model (100m vertical is 140m down-plane). We have not modelled Bankan Creek, but with 20-30m @ 2-3q/t at surface, and 58m @ 1.4q/t reported today bottoming just ~100m below, while smaller, that satellite has starter-pit grades and solid roots too. We undertook a site visit to Guinea in May, with the key takeaway being (i) broad disseminated zones of mineralisation, with (ii) higher grades on the granitoid-volcanic contact at Bankan NE, with (iii) evenly distributed gold throughout weathered and fresh rock pointing potential for deep roots. The Bankan Creek satellite is smaller, but veining drives higher-grade hits like 40m @ 3.0q/t (incl. 7m @ 10q/t), and 23m @ 2.6g/t (incl. 9m @ 6g/t). Beyond this, regional highlights along strike today at Argo/Bokro saw 20m @ 1.3g/t (10-15km N) and on regional projects, Koundian reported 6m @ 32g/t (~115km ENE). With our MRE at 1.8Moz @ 1.35q/t, we maintain a 75% reserve conversion, lifting our inventory from 1.2Moz @ 1.31q/t to 1.7Moz @ 1.33g/t takes our asset NPV from A\$613m to A\$658m. Adding SCPe resources outside SCPe inventory, plus a nominal 250koz, both at US\$50/oz, and adjusting for the recent capital raise drives our A\$757m NAV. Applying a 0.4xNAV_{5%-1850}, we maintain our BUY rating, lifting our PT from A\$0.16/sh to **A\$0.20/sh.** Even at 2.25Mtpa our inventory estimate supports a 14-year life at \sim 100koz pa, hence the next 'step change' to the upside would logically come from upsizing the operation, but all in due course. With the wet season on us, drilling should slow ahead of the MRE this quarter, including infill (Bankan Ck) and step-down (Bankan NE) drilling that is now complete except for a single deep diamond hole pending.

SCPe Old SCPe New 0 25 50 75 100 125 150 175 200 225 250 275 300 325 350 375 400 425 450 475 500 525 550 575 600 625 650 675 700 725 750 775 800 625 Ounces Oz/vm 98,361 25x25m blocks (#) SG incl. ~50m oxide 2.5 25 -50 20 25 25 27 28 31 44 40 71 50 60 65 70 100 125 151 150 150 152 140 100 288 250 100 115 95 70 187 50 25 17 20 141 714 5 669 Average grams.meters 91.2 105.3 **-75** 20 25 25 25 27 31 44 43 72 55 60 70 60 100 168 168 145 130 170 170 125 88 105 115 127 100 75 45 30 25 20 **20** 123.730 4.949 Ounces <425m 1.835 -100 20 20 25 23 35 36 40 43 43 55 600 70 100 135 168 168 140 120 90 130 157 157 140 135 130 115 100 55 20 20 20 156 484 6 259 Implied grade at 78m TT 1.15 1.35 -125 25 30 36 36 55 55 60 80 100 176 150 130 110 110 135 157 157 155 150 140 100 55 <mark>25 25 20</mark> 116,948 4 678 Implied tonnes 35.2 42.4 -150 25 50 50 50 55 60 80 100 120 120 120 120 120 145 170 160 155 145 145 100 43 25 20 113,281 4,531 MAX STRIP @ 50% MARGIN @ US\$1,500/oz -175 25 63 63 45 55 55 60 70 90 110 130 146 160 170 186 165 145 125 100 75 108.006 4.320 Grade (g/t Au) 1.50 -200 25 25 40 50 55 66 70 70 90 120 146 160 170 186 145 125 95 75 90.826 3 633 47 60 70 90 140 140 140 140 185 150 140 120 95 85 Gross NSR (US\$/t) 65 1 65 1 -225 90 524 3 621 Maximum costs (US\$/t) 32.6 32.6 -250 150 Pre-existing SCP estimate 50 75 75 85 100 125 150 150 **330** 125 125 100 95 85 60 96,151 3.846 37 50 75 85 100 125 150 150 330 125 110 100 95 85 100 109 -275 97.256 3.890 Non-mining cost (US\$/t) 21.26 21.26 150 New estimate today 75 56 100 125 155 150 456 440 425 385 354 100 100 110 Mining cost (US\$/t ROM) 11.3 -300 New drill hole today 152,264 6,091 11.3 85 100 125 **303** 582 125 295 265 245 233 105 105 105 -325 Old SCPe resource limit 5 370 Strip @ 50% margin (x) 3.52 3 52 134,254 100 125 450 350 250 150 105 105 112 115 115 116 105,143 4.206 Ore body width (m) *Max pit depth (x) 79.121 *Based on simple 45 degree linear pit 150 150 150 150 150 150 150 150 150 150 67,818 150 150 150 150 150 150 150

Figure 1. SCPe resource estimate old vs new (blue squares) showing >500koz added

Source: SCP estimates, Predictive

Site visit, equity, & deep drilling hits 50m @ 11.7g/t: SCPe lifts to 1.8Moz with 2-3Moz potential

<u>Todays release:</u> Two deep holes released in the core of Bankan NE returned **49.7m @ 11.7g/t** (composite 56m @ 10.6g/t, including 17m @ 31.9g/t) and **55.6m @ 5.7g/t** (composite 74m @ 4.5g/t, including 40m @ 7.3g/t) ~225m and ~275m below surface. The company also reported **18m @ 2.3g/t** from 6m, and **58m @ 1.4g/t** from 72m at satellite Bankan Creek. Finally, regional auger on northern Argo and Bokoro permits hit 4m @ 1.2-6.0g/t from 4-8m from three targets ~5km apart from each other at AG2 / AG3 / BK2 with up to 14g/t chip samples of quartz-tourmaline veins.

<u>Prior releases:</u> The two deep holes at Bankan NE lie ~100m north of prior drilling reported on <u>June 30th</u> of **44m @ 8g/t** from 265m in deepest drilling on core of NE Bankan (Figure 1). That release also saw Bankan Creek hits of **15m @ 4g/t** from 48m and **12m @ 5g/t** from 30m. Prior to this, on <u>June 17th</u>, drilling at Bankan NE hit **44m @ 2g/t**, **9m @ 1.3g/t**, and **6m @ 2.5g/t** from 310m for an total downhole composite



of **61m** @ **1.9g/t** (116gm), extending high-grade mineralization in the deepest hole to date. Additionally, shallow RC holes from Bankan Creek returned 36m @ 3.1g/t, 45m @ 2g/t, and 15m @ 1.2g/t near surface. Separately on June 3rd, Predictive reported **18m** @ **3g/t** and **23m** @ **1.9g/t** from ~250m downhole in a single hole, with **13m** @ **1.1g/t** and **25m** @ **1.5g/t** from 275m, and **15m** @ **1.1g/t** from 114m in the next hole. The two big hits are in the core zone (composite **50m** @ **1.1g/t** and **46m** @ **2.4g/t**), but deepest / furthest step downs / step backs to date, and open at depth. Drilling is ongoing and expected to be completed this month for a maiden MRE in September.

Site visit solidifies our conviction: big, wide and should be a mine

We visited Predictive's Bankan discovery in Guinea in early May. The area is readily accessible, with drilling to carry on aggressively until the wet season (~3Q), which gives the company time to report ~2,800m of RC to tighten drilling at Bankan Creek, ~4000m in ~10 deeper diamond holes at Bankan NE (subsequently largely drilled). In addition, over 2,000m of air core and 10-15,000m of auger is planned on regional targets. This will all slow down in early July, allowing the company to get assays completed for a targeted maiden MRE in 3Q21.

Figure 2. Bankan (A) Creek and (B) NE showing savannah & laterite peneplain with minimal artisanals



Source: SCP

Bankan NE appears to be a vanilla orogenic gold deposit hosted at the edge of a tonalite intrusion in a typical 'pressure shadow' environment. Figure 1A shows a plan map (north to left of page), with the main body of mineralisation potentially in a roof-pendant of volcanics given drilling of intrusive further west. Looking at the core, the mineralisation is intensely overprinting the tonalite with hematite and sulphides, with quartz veining in fractures and veinlets rather than discrete quartz veins, likely the reason for the even grade distributions. Grades do spike around the contact offering a nice sweetener. Proximal alteration in the basalt / volcanics is defined by pervasive silica-sericite-albite alteration typical of most orogenic gold deposits globally, fading outboard to finer fractures and sulphide alteration (Figure 1C). Distal volcanics appear chlorite-epidote altered, while epidote may be simple sea floor alteration, the chlorite could represent magmatic / aureole alteration around the granitoid, providing an ideal brittle iron-rich host rock.



Figure 3. Bankan NE (A) plan- and (B) cross-section (C) core showing gold on tonalite/basalt contact

TONALITE: Distal > moderate > intensely altered tonalite

// BASALT: intensely > moderately seritised > distal epidote



Source: SCP, Predictive, core ~8cm width

Bankan Creek: is a different style of mineralisation, hosted within a metasedimentary and volcanic sequence, but there is tonalite in the system, potentially reflecting a Galiano / Cardinal system of gold around dykes, and/or around structural traps. This isn't dissimilar to nearby Kouroussa (1Moz @ 3g/t) where most gold is granitoid hosted, with subsidiary volcanic-hosted-only satellites. The sections below are very preliminary as infill is underway but show a geology team working hard to interpret this. Gold forms in thick quartz veins / breccia zones (Figure 4C) and in epidote altered volcanics with a series of smaller veins and a network of sulphides and fractures.

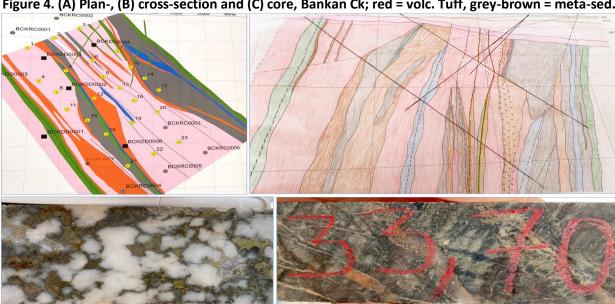


Figure 4. (A) Plan-, (B) cross-section and (C) core, Bankan Ck; red = volc. Tuff, grey-brown = meta-sed.

Source: SCP, Predictive, core ~8cm width



Shallow high-grade from first drilling at Koundian hit 6m @ 32g/t at surface

On May 31st, Predictive reported the results from the first 8,012m drilled at Koundian, highlighting shallow intercepts of **6m @ 32g/t**, **6m @ 9.8g/t**, **and 6m @ 1.3g/t**, all starting from 4m with the headline hole included a higher-grade interval of **4m @ 45g/t**. Drilling was completed on a 320m x 80m grid to test structural targets generated by the recent aeromagnetic surveys and artisanal workings. Additionally, rock chip samples confirmed gold mineralization and returned grades up to 33.6g/t. Drilling is now complete for the season as the company awaits full results that will form the basis for the follow up drill program next season.

© Lauro (12.5Moz)

© Tabakoto (3.8Moz)

© Gaunkoto (3.8Moz)

MALI

Mandiana Project

O.61 Moz @ 1.18g/t Au

(Resources)

MALI

SIGUIRI BASIN

Nonta

SIGUIRI BASIN

Nonta

Rouroussa (1.2Moz)

MGC

Siguiri Mine(*18Moz)

S

Figure 5. (A) PDI's permitted exploration holdings showing (B) Koundian project and recent results

Source: Predictive

Auger beefs up Argo / Bokro

Power auger released today ~10-15km north of Bankan returned highlights of 15-24m @ 0.5-1.3g/t, cornerstoned by 4m @ 1.2-6.0g/t in quartz-tourmaline veins from 4m depth. Rock chips returned higher grades of up to 14g/t Au on artisanal mines extending over ~1km. Along with a recent mag survey, the company has nine high-priority regional targets along the 35km corridor. An air core rig is now being sort to undertake regional drilling.

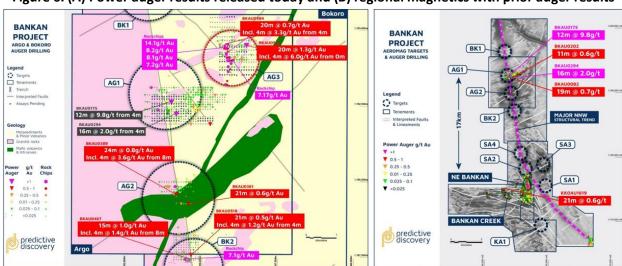


Figure 6. (A) Power auger results released today and (B) regional magnetics with prior auger results

Source: Predictive

Why we like Predictive Discovery

- 1. New discovery Bankan NE hosts SCPe 1.8Moz bred out of hard-science
- 2. Potential for 2-3Moz between depth, satellites and shallow ore
- 3. Stands out from peers with width, grade, deep roots and satellites
- 4. Over 5,000km² regional holding, including new geophysics along strike package

Catalysts

- 3Q21: SCPe maiden resource
- 2H21: Regional aircore dirlling
- CY23: SCPe final investment decision
- CY25: SCPe first gold

Research

Brock Salier (London) M: +44 7400 666 913 <u>bsalier@sprott.com</u>

Justin Chan (London) M: +44 7554 784 688 <u>ichan@sprott.com</u>

Brandon Gaspar (Toronto) M: +1 437 533 3142 <u>bgaspar@sprott.com</u>

Eleanor Magdzinski (Toronto) M: +1 705 669 7456 <u>emagdzinski@sprott.com</u>



Ticker: PDI AU Author: B Salier B Gaspar	Price / m	•		sh, A\$182 \$0.2/sh	m	Project PNAV today:	0.28x C\$0.43/s	h	Asset:	Bankan C	k/NE
Author: B Saller B Gaspar	Rec/U.4X	NAV PI:	but, A	Φ U.2/5Π		1xNAV _{3Q24} FF FD:	C\$0.45/5		Country:	Guinea	
Commodity price	CY21E	CY22E	CY23E	CY24E	CY25E	Resource / Reserve	Tonnes	Grade	Ounces		
Gold price	1,850	1,850	1,850	1,850	1,850	SCPe resource	42Mt	1.15g/t	2096koz		
SOTP <i>project</i> valuation*						SCP mining inventory	32Mt	1.65g/t	1677koz		
		A\$m	O/ship	NAVx	A\$/sh	Project: USES			Funding:	SOURCES	
Ungeared @ build start (30	Q23)	658	100%	1.00x	0.44	Pre-DFS exploration / G&A:	A\$24m	Cash 4Q2	20 + pre-A	u ITM op.:	A\$46m
Pro-forma cash		39.4	100%	1.00x	0.03	Build capex:	A\$227m		Pre-bu	ild equity:	A\$15m
Cash from options		7.8	100%	1.00x	0.01	Fin. cost + WC over DFS	A\$15m	Build	equity @	0.6xNAV:	A\$85m
Resources ex inventory @ \$100/oz		27.4	100%	1.00x	0.02	TOTAL USES:	A\$266m	65%	geared d	ebt @ 8%:	A\$148m
Explor'n (SCPe 250koz @ \$	75/oz)	24.5	100%	1.00x	0.02	Buffer / drill budget:	A\$28m		TOTAL S	SOURCES:	A\$294m
Asset NAV5% US\$1850/oz		757			0.51	Share data	Basic	FD with	ptions	FD for	build
*Shares diluted for options i	mine build	Ma	ırket P/N <i>P</i>	N5 _% 3Q20	0.28x	Basic shares (m)	1,348.3	1,493.2		1,894	
Asset value: 1xNPV projec	t @ build	start (A\$	n, ungear	ed)*		Ratio analysis	CY20E	CY21E	CY22E	CY23E	CY24E
Project NPV (A\$m)	\$1650oz	\$1750oz	\$1850oz	\$1950oz	\$2050oz	Average shares out (m)	1,348.3	1,475.1	1,493.2	1,493.2	1,493.2
Discount rate: 9%	511	569	627	678	736	EPS (A\$/sh)	-	-	-	-	-
Discount rate: 7%	560	623	687	744	808	CFPS (A\$/sh)	-	-	-	-	-
Discount rate: 5%	616	686	757	821	891	EV (A\$m)	169.2	180.5	193.3	154.8	350.6
Ungeared project IRR:	50%	54%	58%	62%	66%	FCF yield (%)	-	-	-	-	-
Project NPV (A\$/sh)	\$1650oz	\$1750oz	\$1850oz	\$1950oz	\$2050oz	PER (x)	-	-	-	-	-
Discount rate: 9%	0.34	0.38	0.42	0.45	0.49	P/CF (x)	-	-	-	-	-
Discount rate: 7%	0.37	0.42	0.46	0.50	0.54	EV/EBITDA (x)	-	-	-	-	-
Discount rate: 5%	0.41	0.46	0.51	0.55	0.60	Income statement	CY20E	CY21E	CY22E	CY23E	CY24E
*Project NPV, ex fin. costs an	d cent G&A	l, discounte	d to build s	start		Net revenue (A\$m)	-	-	-	-	-
G <i>roup</i> NAV over time^	2Q21	2Q22	2Q23	2Q24	2Q25	COGS (A\$m)	-	-	-	-	-
Bankan NPV (A\$m)	586.5	615.8	648.3	764.5	941.4	Gross profit (A\$m)	-	-	-	-	-
G&A and finance costs (A\$	(83.4)	(76.5)	(70.4)	(68.1)	(57.7)	D&A, attrib (A\$m)	0.0	-	-	-	-
Net cash prior qtr (A\$m)	10.5	15.3	6.0	10.9	(139.2)	G&A + sh based costs (A\$m)	2.2	1.3	1.3	2.7	4.0
Cash from options (A\$m)	7.8	7.8	7.8	7.8	7.8	Finance cost (A\$m)	2.5	8.0	9.0	3.9	4.8
Resource / exlo nom. (A\$m	51.9	51.9	51.9	51.9	51.9	Taxes (A\$m)	-	-	-	-	-
NAV FF FD (A\$m)	573	614	644	767	804	Net income (A\$m)	(4.8)	(9.3)	(10.3)	(6.6)	(8.8)
Shares in issue (m)	1,348	1,493	1,493	1,894	1,894	Cash flow, attrib.	CY20E	CY21E	CY22E	CY23E	CY24E
1xNAV/sh FF FD (A\$/sh)*	0.43	0.41	0.43	0.40	0.42	EBIT (A\$m)	(2.2)	(1.3)	(1.3)	(2.7)	(4.0)
Geared NAV at first pour,	diluted fo	r build, ne	t G&A and	fin. costs	^	Add back D&A (A\$m)	0.0	-	-	-	_
NAV at first gold (C\$m)		\$1750oz				Less tax + net interest (A\$m)	2.5	8.0	9.0	3.9	4.8
Discount rate: 9%	581	649	716	777	844	Net change in wkg cap (A\$m)	(0.9)	_	_	0.1	_
Discount rate: 7%	613	685	757	822	894	Other non-cash (A\$m)	(7.0)	(15.9)	(17.9)	(7.9)	(9.6)
Discount rate: 5%	649	726	804	875	952	Cash flow ops (A\$m)	(7.5)	(9.3)	(10.3)	(6.5)	(8.8)
Geared project IRR:	46%	50%	54%	58%	62%	PP&E - build + sust. (A\$m)	2.1	-	-	40.0	187.1
NAV at first gold (C\$/sh)*		\$1750oz				PP&E - expl'n (A\$m)	-	_	_	-	_
Discount rate: 9%	0.28	0.33	0.37	0.40	0.44	Cash flow inv. (A\$m)	(2.1)	-	-	(40.0)	(187.1)
Discount rate: 7%	0.31	0.35	0.39	0.43	0.48	Share issue (A\$m)	21.3	15.0	_	85.0	-
Discount rate: 5%	0.33	0.38	0.42	0.47	0.51	Debt draw (repay) (A\$m)	-	-	_	-	147.6
^Project NPV incl grp SG&A &						Cash flow fin. (A\$m)	21.3	15.0	-	85.0	147.6
Production	Y1	Y2	Y3	Y4	, Y5	Net change in cash (A\$m)	11.7	5.7	(10.3)	38.5	(48.3)
Gold production (000oz)	114	123	115	107	100	EBITDA (A\$m)	(4.7)	(9.3)	(10.3)	(6.6)	(4.0)
C1 cost (US\$/oz)	354	377	402	430	460	Balance sheet	CY20E	CY21E	CY22E	CY23E	CY24E
AISC cost (US\$/oz)	430	447	476	506	539	Cash (A\$m)	12.9	18.6	8.3	46.8	(1.4)
AISC = C1 + ug sustaining ca			470	200	222	Acc rec., inv, prepaid (A\$m)	0.1	0.1	0.1	-	-
			uce (pure	ucė/ ·		PP&E + other (A\$m)	8.5	8.5	8.5	- 48.5	235.5
150koz Gold prod'n	(LHS, 000c	oz) ~	AISC (RHS,	US\$/0Z AU	¹ 600/oz	Total assets (A\$m)	21	27	17	95	233.5
			-	-		Debt (A\$m)	-	-	-	-	147.6
100koz					400/oz	Accounts payable (A\$m)					
							1.0	1.0	1.0	1.0	1.0
50koz					200/oz	Others (A\$m)	1.0	1.0	1.0	1.0	1/.0 6
					,	Total liabilities (A\$m)	1.0	1.0	1.0	1.0	148.6
Okoz					0/oz	Issued capital (A\$m)	52.9	67.9	67.9 (51.0)	152.9	152.9
0koz Y1 Y	2	Y3	Y4	Y5	0/ 02	Retained earnings (A\$m)	(32.4)	(41.7)	(51.9)	(58.5)	(67.3)
						Liabilities + equity (A\$m)	21	27	17	95	234

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Summary of recommendations as of July 2021				
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HOLD:	0			
SELL:	0			
UNDER REVIEW:				
TENDER:	0			
NOT RATED:	0			
TOTAL	44			

¹ As at the end of the month immediately preceding the date of issuance of the research report or the end of the second most recent month if the issue date is less than 10 calendar days after the end of the most recent month



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