

North American Precious Metals Weekly

Re-visiting gold price leverage + Newmont site visit and Endeavour CEO departure

Industry Overview

Bullish gold? IAG, SSRM, PAAS offer most torque

We refresh gold price sensitivities across our coverage universe on the back of the recent volatility in gold prices. For investors bullish of gold, we highlight IAMGOLD (IAG), SSR Mining (SSRM) and Pan American Silver (PAAS) for highest sensitivity to gold price changes. For less volatile exposure we recommend royalty/streaming company equities including Franco-Nevada (FNV), Wheaton Precious Metals (WPM), and Triple Flag Precious Metals (TFPM). For charts, please see Exhibits 3-9 on pages 2-3.

Newmont: Australia site visit highlights

Last week, we published a report highlighting our recent site visit to Newmont's Boddington and Tanami mines in Australia. These assets account for 10% and 6% of our NAV respectively, with the broader country accounting for 36% of our NAV. Our biggest takeaway: both assets showed significant potential for mine life extension and/or expansion. At Tanami, the Tanami Expansion 2 (TE2) which is expected to boost annual production and reduce costs remains on track for H2'25 completion and on-budget (\$1.2-1.3 billion). Also of interest at Tanami was the Oberon deposit (30km from Tanami) which could be a future source of open-pit production. At Boddington, NEM continues to expect lower grades in 2024 and 2025 as stripping of the South pit results in milling of medium-grade stockpiles. However, we were encouraged by efficiency gains from the relatively new autonomous haulage truck fleet and there appears to significant potential to substantially extend the mine life through both resource conversion and exploration upside. For more details, see (BofA: Site visit to Newmont Australia: with a focus on the Tanami and Boddington mines, 04-Jan-24)

Endeavour Mining: abrupt CEO termination spurs sell-off

Last week, Endeavour Mining (EDV) announced the termination of Sébastien de Montessus, President and CEO, with immediate effect. Also effective immediately, lan Cockerill (Deputy Chair of the Board) was been appointed replacement CEO and Executive Director. To our understanding, lan appears to be a permanent replacement for the CEO role. Sébastien's termination comes as an unexpected surprise, and an investigation is still ongoing. Information is still limited. Nevertheless, we note: (1) the situation appears unrelated to the company's ongoing operations, (2) a permanent CEO replacement has already been appointed, and (3) the CEO replacement has extensive mining experience spanning nearly 5 decades and thus appears an appropriate fit to lead EDV. Shares were down ~10% on the lack of information and potential for further headline risks as the situation unfolds. We await further information and expect this to be a focus with the company's upcoming expected releases including Q4'23 operational results with 2024 guidance and thereafter Q4'23 financial results. For more details see (BofA: A shock to kick off 2024: CEO terminated on serious misconduct, 04-Jan-24).

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Refer to important disclosures on page 15 to 17.

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Exhibit 1: Real metal prices

Bof A sees gold at \$1,975 in 2024E

	2023A	2024E
Gold, real (\$/oz)	1,943	1,975
Silver, real (\$/oz)	23.40	23.26
Palladium (\$/oz)	1,340	750
Platinum (\$/oz)	968	1,050
Copper (\$/lb)	3.85	3.91

Source: Bloomberg, BofA Global Research

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NAV = net asset value WoW: week-over-week

YTD: year-to-date

ETF: exchange traded fund

NAV: net asset value

Cap: capitalization

PO: Price Objective

yoy: year-over-year

AMC: After market close

BMO: Before market open

mn: million

bn: billion

IRR = internal rate of return

Source: Bloomberg

Exhibit 2: Gold Indices and Closing Prices

Week-over-Week changes in key metals prices and indices

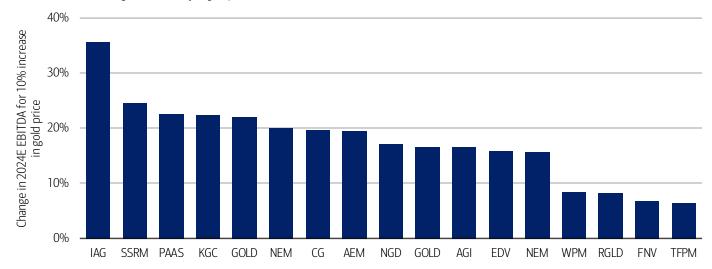
	5-Jan-24	29-Dec-23	Weekly	52 Week		
		Close	% Change	High	Low	
Gold Indices						
Philadelphia Gold and Silver Index (XAU)	120.30	125.69	-4.3%	145.15	102.39	
NYSE Arca Exchange Gold Bugs Index (HUI)	232.98	243.31	-4.2%	284.46	197.04	
S&P/TSX Global Gold Index	275.61	284.05	-3.0%	345.05	244.14	
FT Australasia Gold Index	10,223.52	11,659.13	-12.3%	12,259.24	8,765.00	
FT Africa Gold Index	2,275.04	2,510.23	-9.4%	3,075.09	1,765.76	
FT North American Gold Index	1,340.03	1,396.59	-4.0%	1,584.24	1,134.17	
FT All Gold Mines Index	1,808.51	1,908.73	-5.3%	2,163.38	1,512.48	
Precious Metal Prices						
Gold Prices - US\$/oz	2,045.45	2,062.98	-0.8%	2,135.39	1,804.92	
Silver Price - US\$/oz	23.19	23.80	-2.5%	26.14	19.90	
Platinum Price - US\$/oz	964.18	991.90	-2.8%	1,134.95	843.10	
Palladium Price - US\$/oz	1,030.56	1,100.24	-6.3%	1,843.18	925.11	

Gold declines on robust US employment report

Last week, gold experienced a modest decline of 0.8% to \$2,045 per ounce (/oz). The downward movement can be attributed to softening Fed rate cut expectations. The US nonfarm payroll report (5-Jan-24) was better than expected with an employment increase of 216,000 that beat estimates at 170,000 and was much stronger vs. the prior reading of 173,000. Additionally, average hourly earnings grew at 0.4%, beating estimates at 0.3%. The strong employment report, in our view, pushed real US real rates higher, with two year TIPS increasing by 1.5%. Gold has historically found support in January, partly due to Chinese New Year buying. BofA is forecasting for gold to average \$1,975/oz in 2024E (silver is forecast to average \$23.26/oz). the BofA Commodities team thinks gold could rise to \$2,400/oz by the end of 2024, if rate cuts start before Q2'24. Gold equities were lower last week with the S&P/TSX Global Gold Index down 3.0%, the Philadelphia Gold and Silver Index (XAU) down 4.3%, and the NYSE Arca Exchange Gold Bugs Index (HUI) down 4.2%.

Exhibit 3: EBITDA Sensitivity to Gold Price Change

IAG, SSRM and PAAS have the highest sensitivity to gold price increases.

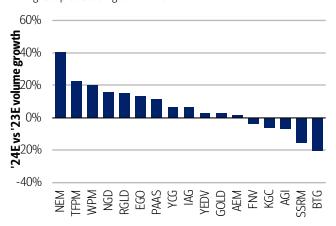


Source: BofA Global Research

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Exhibit 4: 2024E vs 2023E Production Growth Ranked

NEM highest production growth in 2024E.

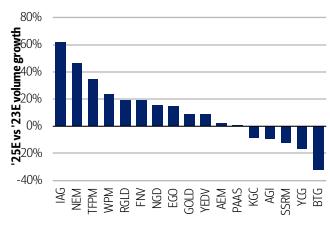


Source: BofA Global Research

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Exhibit 5: 2025E vs 2023E Production Growth Ranked

IAG highest production growth in 2025E.

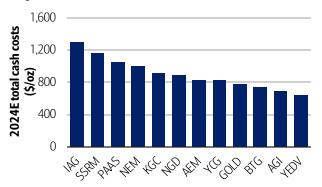


Source: BofA Global Research

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Exhibit 6: 2024E Total Cash Cost Ranked

IAG highest cost base in 2024E.

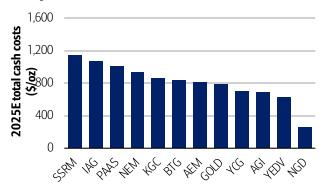


Source: BofA Global Research

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Exhibit 7: 2025E Total Cash Cost Ranked

SSRM highest cost base in 2025E.

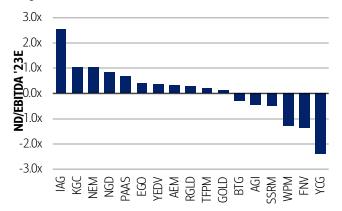


Source: BofA Global Research

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Exhibit 8: ND/EBITDA 2023E Ranked

IAG highest ND/EBITDA '23E.

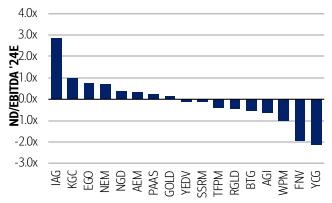


Source: BofA Global Research

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Exhibit 9: ND/EBITDA 2024E Ranked

IAG highest ND/EBITDA '24E.



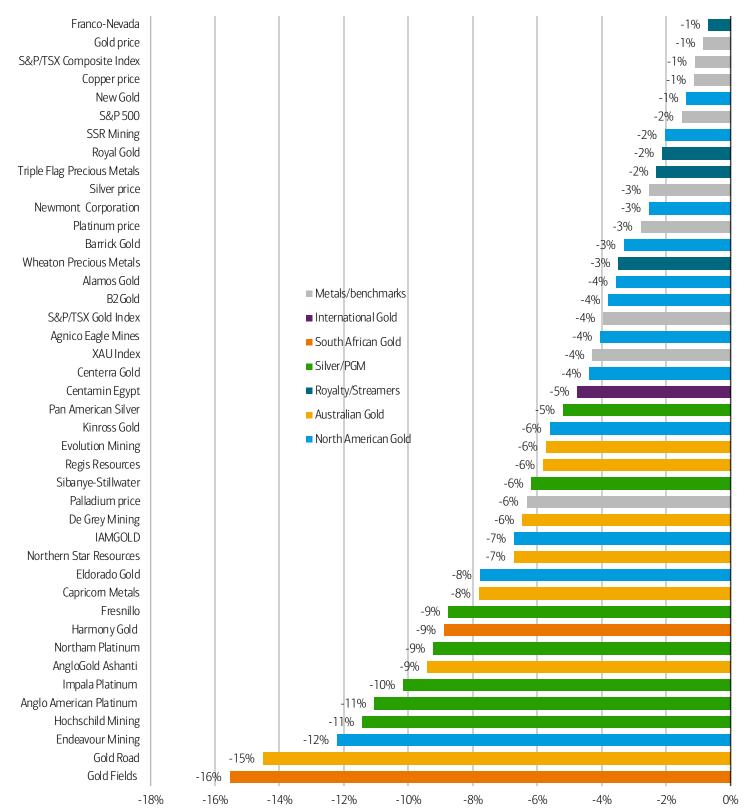
Source: BofA Global Research



WoW returns for the gold sector

Exhibit 10: WoW returns for the global gold sector and key metals/benchmarks

Gold equities traded lower week-over-week due to climbing metal price. Franco-Nevada was the best performer, down -1%



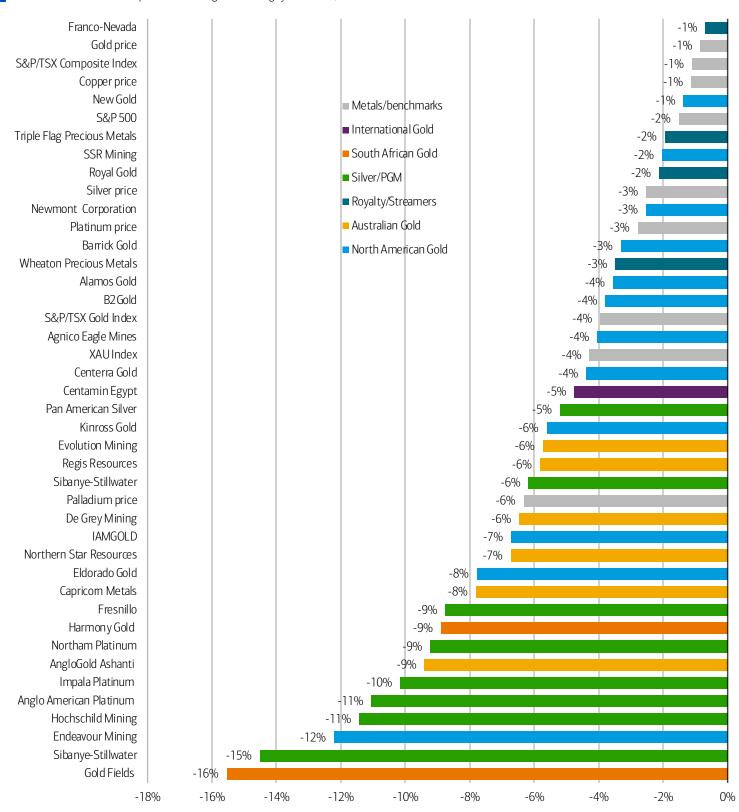
Source: Bloomberg. Note: this is not an exhaustive list of global precious metal equities



YTD returns for the gold sector (2024)

Exhibit 11: Year to date returns for the global gold sector and key metals/benchmarks

Franco-Nevada was the best performer in our global coverage year-to-date, down -1%



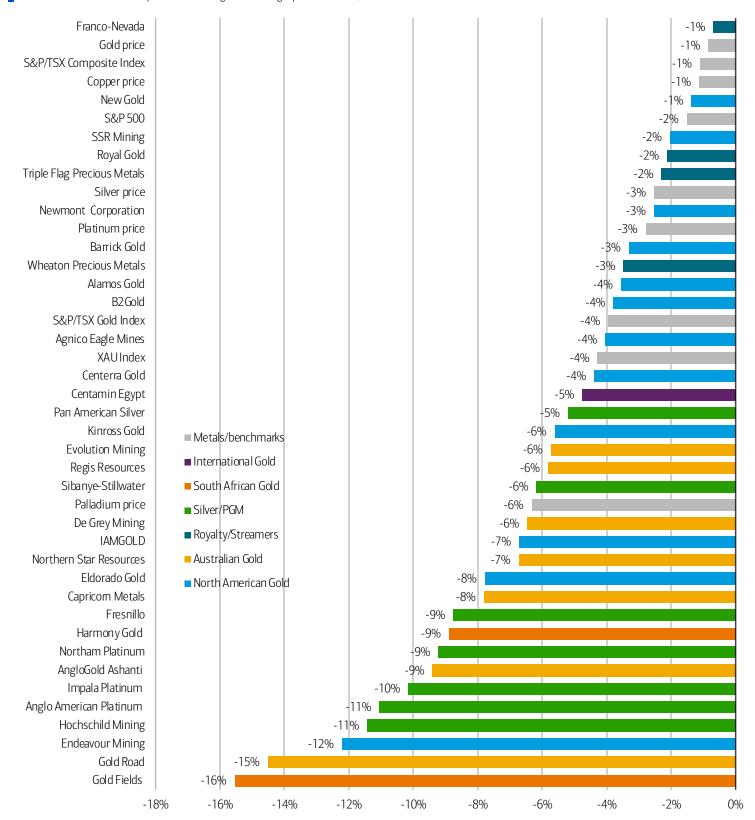
Source: Bloomberg. Note: this is not an exhaustive list of global precious metal equities



QTD returns for the gold sector

Exhibit 12: Quarter to date returns for the global gold sector and key metals/benchmarks

Franco-Nevada was the best performer in our global coverage quarter-to-date, down -1%



Source: Bloomberg. Note: this is not an exhaustive list of global precious metal equities

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Valuation overview

Exhibit 13: Valuation Comparables for North American Gold and Precious Metals Producers and Royalty Companies

North American precious metal stocks are trading at 1.32x NAV (market value weighted), vs. the 10-year range of 1.0-2.0x NAV

Priced as of 05-Jan-2024				Market Cap		El	PS	P/E	(x)	CF	PS	P/CF	PS (x)		
	Bof A Sym	Share Price	Shares O/S	(USDmn)	Pating	2023E	2024E	2023E	2024E	2023E	2024E	2023E	2024E	NAV	P/NAV
Senior Gold Producers	Jyiii	rice	0/3	(U JUIIII)	Katilig	202JL	2027L	202JL	2027L	202JL	2024L	2023L	2024L	IVAV	I / IVAV
Agnico Eagle Mines	AEM	52.63	497	26.133	BUY	2.12	2.49	24.8	21.1	5.37	5.88	9.8	8.9	36.75	1.43
Barrick Gold	GOLD	17.49	1.756	30,704	BUY	0.83	1.24	21.1	14.1	2.37	2.54	7.4	6.9	19.95	0.88
Kinross Gold	KGC	5.71	1,228	7,011	UNDE	0.44	0.46	13.0	12.4	1.19	1.22	4.8	4.7	5.30	1.08
Newmont Corporation	NEM	40.34	1,152	46,492	BUY	1.51	2.20	26.7	18.3	3.49	4.54	11.6	8.9	38.40	1.05
Market Cap Weighted Average			.,	,				23.8	17.4			9.5	8.1		1.09
Mid-Tier Gold Producers															
B2Gold	BTG	3.04	1,300	3,953	BUY	0.27	0.29	11.3	10.5	0.63	0.51	4.8	6.0	3.25	0.94
Centerra Gold ⁽¹⁾	YCG	7.64	216	1,233	UNDE	0.00	0.39	NA	14.7	0.60	1.05	9.6	5.5	14.15	0.54
Eldorado Gold	EGO	11.96	205	2,447	UNDE	0.49	0.36	24.4	33.2	1.61	1.69	7.4	7.1	14.25	0.84
Endeavour Mining ⁽¹⁾	YEDV	26.40	248	4,895	BUY	1.36	2.71	14.5	7.3	3.13	4.87	6.3	4.1	34.80	0.76
IAMGOLD	IAG	2.36	481	1,136	BUY	0.03	0.00	78.7	NA	0.67	0.45	3.5	5.2	4.90	0.48
SSR Mining	SSRM	10.54	204	2,149	UNDE	1.09	0.60	9.7	17.6	2.15	1.57	4.9	6.7	12.55	0.84
Market Cap Weighted Average								19.6	14.6			6.0	5.6		0.79
Intermediate/Junior Gold Producers															
Alamos Gold	AGI	12.99	397	5,154	NEUT	0.51	0.57	25.5	22.8	1.32	1.35	9.8	9.6	10.15	1.28
New Gold	NGD	1.44	687	989	UNDE	(0.03)	0.21	NA	6.9	0.43	0.49	3.3	3.0	2.80	0.51
Market Cap Weighted Average								25.5	20.2			8.8	8.5		1.16
Royalty Companies															
Franco-Nevada	FNV	110.04	192	21,141	BUY	3.41	3.24	32.3	34.0	4.91	4.98	22.4	22.1	56.35	1.95
Royal Gold	RGLD	118.38	66	7,777	UNDE	3.45	4.29	34.3	27.6	6.11	7.72	19.4	15.3	60.05	1.97
Triple Flag Precious Metals	TFPM	13.05	202	2,630	BUY	0.33	0.63	39.5	20.7	0.76	0.97	17.2	13.4	9.60	1.36
Wheaton Precious Metals	WPM	47.62	453	21,572	BUY	1.12	1.37	42.5	34.8	1.59	2.15	29.9	22.1	22.80	2.09
Market Cap Weighted Average								37.1	32.7			24.8	20.7		1.98
Primary Silver Producers															
Pan American Silver	PAAS	15.48	364	5,642	BUY	0.15	0.48	NA	32.3	1.44	1.97	10.8	7.9	15.00	1.03
Market Cap Weighted Average								0.0	32.3			10.8	7.9		1.03
Gold producer only: Overall average:								23.4 27.4	17.3 22.0			9.1 13.5	7.8 11.4		1.06 1.32

Source: Bloomberg, Company reports, BofA Global Research estimates (1) stock price in CAD; EPS, CFPS, NAV in USD (2) CAD (3) stock price in AUD (4) 2021 metrics actual

Note: (1) stock price in CAD\$, EPS, CFPS, NAV in USD\$; (2) CAD\$ (3) AUD\$ (4) ZAR (5) stock price, NAV in pence; market cap in GBP, EPS, CFPS in USD; (6) stock price, market cap and NAV in CAD\$; EPS and CFPS in USD\$; (7) share price and NAV in HKD; EPS and CFPS in CNY, market cap in USD; (8) stock price, NAV in pence; market cap in USD EPS, CFPS in GBP; (9) stock price, market cap, NAV in AUD, EPS, and CFPS in USD; (10) stock price and market cap in CAD; NAV in GBP, EPS and CFPS in USD; (11) stock price, market cap, EPS, CFPS and NAV in TRY; (12) Estimates are based on Bloomberg consensus; (13) stock price, market cap and NAV in ZAR; EPS and CFPS in USD, (14) stock price, market cap in ZAR; NAV, EPS and CFPS in AUD (15) stock price and market cap in ZAR; EPS and CFPS in USD, NAV in GBP (16) stock price and market cap in ZAR; EPS, CFPS and NAV in CAD; (17) June 30th year end; (18) Adjusted P/NAV = (share price - net cash and investments) / DCF of mining assets using a 5% discount rate. (21) stock price listed in RUB



Exhibit 14: Valuation Comparables for Global Gold and Precious Metals Producers and Royalty Companies Global precious metal stocks are trading at 1.20x NAV (market value weighted)

Priced as of 05-Jan-2024	BofA Sym	Share Price	Shares Outstanding	MC (USDmn)	Rating	_	PS 2025	P/E 2024	(x) 2025	CF 2024	PS 2025	P/CF 2024	PS (x) 2025	NAV	P/NAV
Australian Gold Producers ⁽⁹⁾	Jylli	riice	Outstailuing	(U SDIIIII)	Kating	2024	2023	2024	2023	2024	2023	2024	2023	IVAV	F/INAV
Capricorn Metals	CRNLF	4.42	377	1,120	NEUT	0.29	0.25	15.2	17.4	0.44	0.34	10.1	12.9	4.33	1.02
De Grey Mining	DGMLF	1.20	1,851	1,485	BUY	(0.01)	(0.02)	NA	NA	(0.01)	(0.02)	NA	NA	1.54	0.77
Evolution Mining	CAHPF	3.80	1,976	5,039	NEUT	0.28	0.47	13.7	8.1	0.59	0.78	6.5	4.9	3.69	1.03
Gold Road	ELKMF	1.71	1,081	1,241	BUY	0.13	0.17	8.5	6.7	0.25	0.29	4.6	4.0	2.13	0.80
Northern Star Resources	NESRF	12.96	1,149	9,998	BUY	0.58	1.03	22.5	12.6	1.79	2.12	7.2	6.1	12.97	1.00
Regis Resources	RGRNF	2.09	755	1,060	BUY	(0.03)	0.28	NA	4.9	0.54	0.72	2.6	2.0	2.27	0.92
Market Cap Weighted Average								17.5	10.9			6.8	5.8		0.97
South African Gold Producers (19)															
Gold Fields ⁽¹³⁾	GFIOF	240.00	894	11,477	NEUT	1.14	2.02	11.2	6.4	2.16	n/a	6.0	NA	235.06	1.02
Harmony Gold (14,18)	HGMCF	111.46	620	3,698	UNDE	12.19	16.22	9.1	6.9	16.12	15.29	6.9	7.3	79.94	1.39
Market Cap Weighted Average								10.7	6.5			6.7	8.2		1.15
International Gold Producers															
AngloGold Ashanti	AULGF	327.55	420	7,357	NEUT	1.35	2.46	13.0	7.1	3.13	4.19	5.6	4.2	310.60	1.05
Centamin Egypt ^(5,18)	CELTF	95.25	1,158	1,404	BUY	0.14	0.18	8.8	6.7	0.26	0.31	4.6	3.9	130.78	0.73
Market Cap Weighted Average								12.3	7.1			5.4	4.1		1.00
South African PGM Producers ⁽⁵⁾															
Anglo American Platinum	AGPPF	877.23	265	12,455	NEUT	29.50	23.50	29.7	37.3	48.03	43.80	18.3	20.0	665.71	1.32
Impala Platinum	IMPUf	83.89	904	4,060	UNDE	(0.67)	2.21	NA	37.9	11.07	13.98	7.6	6.0	59.58	1.41
Northam Platinum	NPTLF	130.41	396	2,765	BUY	8.65	7.38	15.1	17.7	16.85	12.10	7.7	10.8	62.97	2.07
Sibanye-Stillwater	SBYSF	23.90	2,831	3,621	UNDE	(1.02)	(0.97)	NA	NA	2.78	2.62	8.6	9.1	18.40	1.30
Market Cap Weighted Average								27.1	34.6			16.1	17.5		
International Silver Producers															
Fresnillo	FNLPF	544.00	737	5,099	UNDE	0.16	0.24	43.6	28.4	109.28	126.70	5.0	4.3	272.85	2.54
Hochschild	HCHDF	95.15	514	623	BUY	0.11	0.27	11.3	4.4	56.79	77.72	1.7	1.2	98.83	1.22
Market Cap Weighted Average Global average Global average ex-royalty								40.1 10.6	25.8			4.6	4.0		2.39 1.20 1.08

Source: Bloomberg, Company reports, BofA Global Research estimates (1) stock price in CAD; EPS, CFPS, NAV in USD (2) CAD (3) stock price in AUD (4) 2021 metrics actual

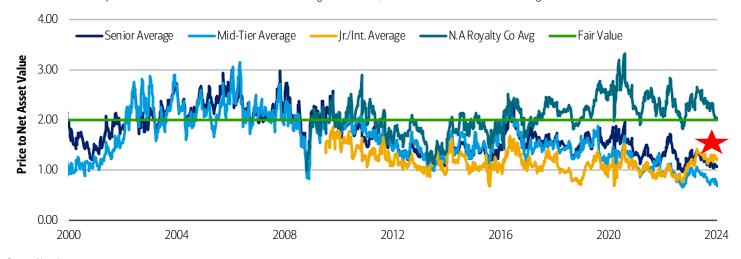
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Exhibit 15: North American gold producer and royalty & streamer P/NAV history

Historical P/NAV multiples for the North American sector. Sector trading at 1.32x NAV, between the 1.0-2.0x historical range



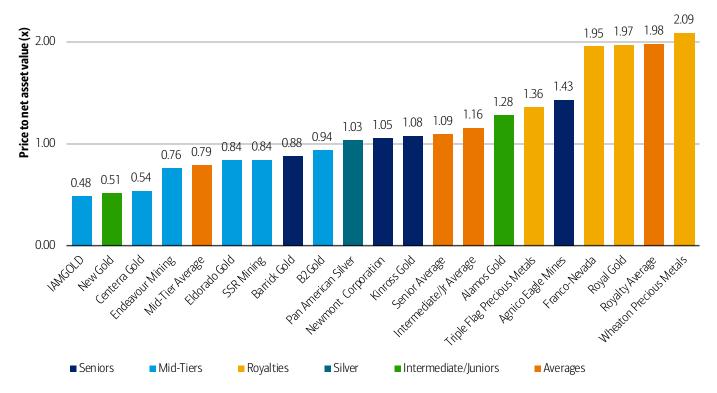
Source: Bloomberg

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Exhibit 16: Price to Net Asset Value (P/NAV) for North American Gold and Precious Metals Producers and Royalty Companies

P/NAV multiples for our North American Precious metals coverage. Royalty & Streamers most expensive

3.00



Source: BofA Global Research, Bloomberg



Exhibit 17: Net asset value, reserves and resources North American precious metals coverage universe, ratings and NAV's

Priced as of 05-Jan-2024 Senior Gold Producers	BofA Sym	Share Price	Shares O/S	Market Cap	NAV	P/NAV	Primary Metal Reserves Moz	Primary Metal Resources Moz
Agnico Eagle Mines	AEM	52.63	497	26,133	36.75	1.43	44.6	114.8
Barrick Gold	GOLD	17.49	1,756	30,704	19.95	0.88	69.0	271.0
Kinross Gold	KGC	5.71	1,228	7,011	5.30	1.08	32.6	70.3
Newmont Corporation	NEM	40.34	1,152	46,492	38.40	1.05	95.5	208.0
Market Cap Weighted Average						1.09		
Mid-Tier Gold Producers								
B2Gold	BTG	3.04	1,300	3,953	3.25	0.94	6.3	22.0
Centerra Gold ⁽¹⁾	YCG	7.64	216	1,233	14.15	0.40	4.8	13.0
Eldorado Gold	EGO	11.96	205	2,447	14.25	0.84	17.7	57.9
Endeavour Mining	YEDV	26.40	248	6,540	34.80	0.57	17.8	53.8
IAMGOLD	IAG	2.36	481	1,136	4.90	0.48	12.4	45.6
SSR Mining	SSRM	10.54	204	2,149	12.55	0.84	9.2	21.1
Market Cap Weighted Average						0.79		
Intermediate/Junior Gold Producers								
Alamos Gold ⁽⁶⁾	AGI	12.99	397	5,154	10.15	1.28	10.3	21.8
New Gold	NGD	1.44	687	989	2.50	0.58	3.7	6.8
Market Cap Weighted Average						1.16		
Royalty Companies								
Franco-Nevada	FNV	110.04	192	21,141	56.35	1.95	NA	NA
Royal Gold	RGLD	118.38	66	7,777	60.05	1.97	NA	NA
Triple Flag Precious Metals	TFPM	13.05	202	2,630	9.60	1.36	NA	NA
Wheaton Precious Metals	WPM	47.62	453	21,572	22.80	2.09	NA	NA
Market Cap Weighted Average						1.98		
Primary Silver Producers								
Pan American Silver	PAAS	15.48	364	5,642	15.00	1.03	529.3	1,807.6
Market Cap Weighted Average						1.03		

Source Bloomberg, Company reports, BofA Global Research estimates

Note: (1) stock price in CAD\$, EPS, CFPS, NAV in USD\$; (2) CAD\$ (3) AUD\$ (4) ZAR (5) stock price, NAV in pence; market cap in GBP, EPS, CFPS in USD; (6) stock price, market cap and NAV in CAD\$; EPS and CFPS in USD\$; (7) share price and NAV in HKD; EPS and CFPS in CSP\$, in USD; (8) stock price, market cap in USD; (8) stock price, market cap in USD EPS, CFPS in GBP; (9) stock price, market cap, NAV in AUD, EPS, and CFPS in USD; (10) stock price and market cap in CAD; NAV in GBP, EPS and CFPS in USD; (11) stock price, market cap, EPS, CFPS and NAV in TRY; (12) Estimates are based on Bloomberg consensus; (13) stock price, market cap and NAV in ZAR; EPS and CFPS in USD, (14) stock price, market cap in ZAR; NAV, EPS and CFPS in AUD (15) stock price and market cap in ZAR; EPS and CFPS in USD, NAV in GBP (16) stock price and market cap in ZAR; EPS, CFPS and NAV in CAD; (17) June 30th year end; (18) Adjusted P/NAV = (share price - net cash and investments) / DCF of mining assets using a 5% discount rate. (21) stock price listed in RUB



Exhibit 18: Net asset value, reserves and resources Global precious metals coverage universe, ratings and NAV's

Priced as of 05-Jan-2024 Australian Gold Producers ^(3,12)	BofA Sym	Share Price	Shares O/S	MC	NAV	P/NAV	P&P Primary Metal Reserves (million oz)	Total Primary Metal Resources incd'g P&P (mln oz)
Capricorn Metals	CRNLF	4.42	377	1,123	4.33	1.02	1.3	3.6
De Grey Mining	DGMLF	1.20	1,851	1,490	1.54	0.77	5.1	15.7
Evolution Mining	CAHPF	3.80	1,976	5,056	3.69	1.03	10.0	40.3
Gold Road	ELKMF	1.71	1,081	1,245	2.13	0.80	4.1	8.9
Northern Star	NESRF	12.96	1,149	10,032	12.97	1.00	20.2	77.6
Regis Resources	RGRNF	2.09	755	1,063	2.27	0.92	3.6	10.6
Market Cap Weighted Average						0.97		
South African Gold Producers(4)								
Gold Fields	GFIOF	240.00	894	11,477	235.06	1.02	52.1	96.9
Harmony Gold (12)	HGMCF	111.46	620	3,698	79.94	1.39	42.5	66.9
Market Cap Weighted Average						1.15		
International Gold Producers								
AngloGold Ashanti	AULGF	327.55	420	7,701	310.60	1.05	29.7	154.2
Centamin Egypt ⁽⁵⁾	CELTF	95.25	1,158	1,404	130.78	0.73	5.0	14.8
Market Cap Weighted Average						1.00		
South African PGM Producers (16)								
Anglo American Platinum (5)	AGPPF	877.23	265	12,455	665.71	1.32	177.2	847.4
Impala Platinum ⁽⁵⁾	IMPUF	83.89	850	4,060	59.58	1.41	34.1	250.0
Northam Platinum (5)	NPTLF	130.41	397	2,765	62.97	2.07	14.0	195.9
Sibanye-Stillwater	SBYSF	23.90	2,853	3,621	18.40	1.30	57.7	373.3
Market Cap Weighted Average						2.39		
International Silver Producers								
Fresnillo ⁽⁵⁾	FNLPF	544.00	737	5,099	272.85	2.54	397.8	1,265.5
Hochschild Mining (5)	HCHDF	95.15	514	623	99	1.22	41.2	288.8
Market Cap Weighted Average						0.00		

Source: Bloomberg, Company reports, BofA Global Research estimates

All tickers represent BofA Global Research covered companies. (1) stock price in CAD; NAV in USD (2) CAD (3) AUD (4)ZAR (5) stock price in pence; NAV in USD, (6) NAV in CAD; (7) silver reserves, silver resources and silver mined in model (8) palladium reserves, palladium resources and palladium mined in model; (9) Reserves and resources on a GEO basis; (10) stock price in CAD, NAV in GBp, (11) stock price and NAV in TRY; (12) June 30th year end; (13) Forecasts based on management guidance; (14) Reserves and resources on a Platinum Equivalent (4E->Platinum + Palladium + Rhodium + Gold) basis; (16) stock price in ZAR, NAV in GBP; (17) stock price in ZAR, NAV in GBP; (17) stock price in ZAR, NAV in CAD; (18) stock price and NAV in HKD; (19) stock price and NAV in GBpAdjusted P/NAV = (share price - net cash and investments) / DCF of mining assets using a 5% discount rate. (20) stock price in RUB



Exhibit 19: EV/EBIT and EV/EBITDA ratios for North American Gold and Precious Metal Producers and Royalty/Streaming Companies Valuation metrics for the North American precious metal sector

Priced as of 05-Jan-2024	D (4	Share	Shares	MC	Enterprise	EBIT	(\$mn)	EV/E	BIT (x)	EBITD/	\ (\$mn)	EV/EBI	TDA (x)
	Bof A Sym	Price	Outstanding	(USDmn)	Value (EV)	2024E	2025E	2024E	2025E	2023E	2025E	2024E	2025E
Senior Gold Producers					(USDmn)								
Agnico Eagle Mines	AEM	52.63	497	26,133	27,885	2,014	2,566	13.8	10.9	4,704	4,127	5.9	6.8
Barrick Gold	GOLD	17.49	1,756	30,704	39,896	4,998	6,050	8.0	6.6	5,032	7,991	7.9	5.0
Kinross Gold	KGC	5.71	1,228	7,011	9,090	918	1,365	9.9	6.7	1,798	2,211	5.1	4.1
Newmont Corporation	NEM	40.34	1,152	46,492	49,530	3,193	7,148	15.5	6.9	3,527	9,971	14.0	5.0
Market Cap Weighted Average								12.4	7.7			9.7	5.3
Mid-Tier Gold Producers													
B2Gold	BTG	3.04	1,300	3,953	3,815	671	578	5.7	6.6	917	786	4.2	4.9
Centerra Gold ⁽¹⁾	YCG	7.64	216	1,233	742	155	189	4.8	3.9	233	317	3.2	2.3
Eldorado Gold	EGO	11.96	205	2,447	2,578	206	167	12.5	15.5	391	473	6.6	5.5
Endeavour Mining ⁽¹⁾	YEDV	26.40	248	6,540	5,711	1,014	1,149	5.6	5.0	941	1,747	6.1	3.3
IAMGOLD	IAG	2.36	481	1,136	1,598	82	352	19.6	4.5	205	715	7.8	2.2
SSR Mining	SSRM	10.54	204	2,149	2,991	188	266	15.9	11.3	485	447	6.2	6.7
Market Cap Weighted Average								9.2	6.6			5.6	4.2
Intermediate/Junior Gold Producers													
Alamos Gold	AGI	12.99	397	5,154	4,919	367	455	13.4	10.8	507	632	9.7	7.8
New Gold	NGD	1.44	687	989	1,198	140	237	8.5	5.1	314	563	3.8	2.1
Market Cap Weighted Average								12.4	9.7			8.5	6.7
Royalty Companies													
Franco-Nevada	FNV	110.04	192	21,141	19,844	761	1,066	26.1	18.6	1,031	1,389	19.2	14.3
Royal Gold	RGLD	118.38	66	7,777	8,007	361	396	22.2	20.2	462	625	17.3	12.8
Triple Flag Precious Metals	TFPM	13.05	202	1,923	1,951	142	165	13.8	11.8	115	232	17.0	8.4
Wheaton Precious Metals	WPM	47.62	453	21,572	20,744	654	750	31.7	27.7	705	1,103	29.4	18.8
Market Cap Weighted Average								26.8	21.9			22.4	15.4
Primary Silver Producers													
Pan American Silver	PAAS	15.48	364	5,642	6,867	320	637	21.5	10.8	574	1,097	12.0	6.3
Market Cap Weighted Average								21.5	10.8			12.0	6.3

Source: BofA Global Research estimates. Company reports

Note: 1)stock price in CADS, EPS, CFPS, NAV in USDS; (2) CADS (3) AUDS (4) ZAR (5) stock price, NAV in pence; market cap in GBP, EPS, CFPS in USD; (6) stock price, market cap and NAV in CADS; EPS and CFPS in USD; (7) share price and NAV in HKD; EPS and CFPS in CNY, market cap in USD; (8) stock price, NAV in pence; market cap in USD EPS, CFPS in GBP; (9) stock price, market cap, NAV in AUD, EPS, and CFPS in USD; (10) stock price and market cap in CAD; NAV in GBp, EPS and CFPS in USD; (11) stock price, market cap, EPS, CFPS and NAV in TRY; (12) Estimates are based on Bloomberg consensus; (13) stock price, market cap and NAV in ZAR; EPS and CFPS in USD, (14) stock price, market cap in ZAR; NAV, EPS and CFPS in AUD (15) stock price and market cap in ZAR; EPS and CFPS in USD, NAV in GBP (16) stock price and market cap in ZAR; EPS, CFPS and NAV in CAD; (17) June 30th year end; (18) Adjusted P/NAV = (share price - net cash and investments) / DCF of mining assets using a 5% discount rate. (21) stock price listed in RUB

Exhibit 20: EV/EBIT and EV/EBITDA ratios for Global Gold and Precious Metal Producers and Royalty/Streaming Companies Valuation metrics for the Global precious metal sector

Priced as of 05-Jan-2024	BofA	Share	Shares	MC	Enterprise	EBIT	BIT (\$mn) EV/EBIT (x)		EBITDA		EV/EBITDA (
Australian Gold Producers(4,12,18)	Sym	Price	Outstanding	(USDmn)	Value (EV) (USDmn)	2023E	2024E	2023E	2024E	2023E	2024E	2023E	2024E
Capricorn Metals	CRNLF	4.42	377	1,120	1,106	159	141	10.4	11.7	162	174	10.2	9.4
De Grey Mining	DGMLF	1.20	1,851	1,485	1,411	(16)	(16)	NA	NA	(21)	(14)	NA	NA
Evolution Mining	CAHPF	3.80	1,976	5,039	6,223	891	1,389	10.4	6.7	886	1,974	10.5	4.7
Gold Road	ELKMF	1.71	1,081	1,241	1,219	205	251	8.9	7.2	259	346	7.0	5.3
Northern Star Resources	NESRF	12.96	1,149	9,998	10,124	1,021	1,742	9.9	5.8	1,537	2,987	6.6	3.4
Regis Resources	RGRNF	2.09	755	1,060	1,378	(8)	317	NA	6.5	401	645	5.1	3.2
Market Cap Weighted Average								10.0	6.1			7.6	4.0
South African Gold Producers(16)													
Gold Fields (4)	GFIOF	240	894	11,477	11,851	1,651	2,691	7.2	4.4	2,480	3,879	4.8	3.1
Harmony Gold	HGMCF	111	620	3,698	3,837	8,591	11,151	8.3	6.4	609	866	6.3	4.4
Market Cap Weighted Average								7.5	4.9			4.2	2.8
International Gold Producers													
AngloGold Ashanti	AULGF	328	420	7,357	8,743	1,041	1,729	8.4	5.1	1,419	2,566	6.2	3.4
Centamin Egypt	CELTF	95.25	1,158	1,404	1,301	342	478	3.8	2.7	367	648	3.5	2.0
Market Cap Weighted Average								7.8	4.8			5.8	3.2
South African PGM Producers													
Anglo American Platinum	AGPPF	877.23	265	12,455	9,848	10,142	8,520	18.1	21.6	26,459	14,825	7.0	12.4
Impala Platinum (4)	IMPUF	83.89	904	4,060	3,123	472	4,709	NA	12.4	30,074	13,477	1.9	4.3
Northam Platinum (4)	NPTLF	130.41	396	2,765	3,290	5,753	4,496	10.7	13.7	16,594	5,771	3.7	10.7
Sibanye-Stillwater	SBYSF	23.90	2,831	3,621	3,445	1,421	2,647	45.3	24.3	24,290	12,471	2.6	5.2
Market Cap Weighted Average								22.3	19.3			4.2	9.6
International Silver Producers													
Fresnillo	FNLPF	544.00	737	5,099	5,770	338	452	17.1	12.8	634	997	9.1	5.8
Hochschild Mining	HCHDF	95.15	514	623	797	122	270	6.5	3.0	150	410	5.3	1.9
Market Cap Weighted Average								15.8	11.6			8.6	5.3

Source: BofA Global Research estimates. Company reports

Note: 1)stock price in CADS, EPS, CFPS, NAV in USDS; (2) CADS (3) AUDS (4) ZAR (5) stock price, NAV in pence; market cap in GBP, EPS, CFPS in USD; (6) stock price, market cap and NAV in CADS; EPS and CFPS in USD; (7) share price and NAV in HKD; EPS and CFPS in CNY, market cap in USD; (8) stock price, NAV in pence; market cap in USD EPS, CFPS in GBP; (9) stock price, market cap, NAV in AUD, EPS, and CFPS in USD; (10) stock price and market cap in CAD; NAV in GBp, EPS and CFPS in USD; (11) stock price, market cap, EPS, CFPS and NAV in TRY; (12) Estimates are based on Bloomberg consensus; (13) stock price, market cap and NAV in ZAR; EPS and CFPS in USD, (14) stock price, market cap in ZAR; NAV, EPS and CFPS in AUD (15) stock price and market cap in ZAR; EPS and CFPS in USD, NAV in GBP (16) stock price and market cap in ZAR; EPS, CFPS and NAV in CAD; (17) June 30th year end; (18) Adjusted P/NAV = (share price - net cash and investments) / DCF of mining assets using a 5% discount rate. (21) stock price listed in RUB



Operating Comparables

Exhibit 21: Operating Forecasts for Global Gold and Precious Metal Producers
Senior golds have 2+ Moz of annual output. Mid-tiers are between 0.5-1.5 Moz of annual output. Intermediates have <0.5 Moz of annual output

Senior Gold Producers	Priced as of 05-Jan-2024							Produ	ıction	EV	
Senior Gold Producers		BofA	Share	Shares	Market	Enterprise	P&P Gold				
Agnico-Eagle Mines AEM 52.63 497 26,133 27,885 44.6 3,499 3,523 7,970 7,916 Barrick Gold GOLD 17,49 1,756 30,704 39,896 69.0 4,189 4,445 9,523 8,976 Kinross Gold KGC 5,71 1,228 7,011 9,090 32.6 2,032 1,786 4,473 4,596 Newmont Corporation NEM 40,34 1,152 46,492 49,530 95,5 7,835 8,168 6,321 6,064 Market Cap Weighted Average W 46,492 49,530 95,5 7,835 8,168 6,321 6,064 Market Cap Weighted Average W 46,07 5,429 49,530 3,815 6,3 828 703 4,607 5,429 Centerra Gold*** YCG 7,64 216 1,233 742 4.8 372 290 1,995 2,560 Eldorado Gold EGO 11,96 26.40 2,44		Sym	Price	O/S	Сар	Value	Reserves				
Barrick Gold GOLD 17,49 1,756 30,704 39,896 69.0 4,189 4,445 9,523 8,976 Kinross Gold KGC 5.71 1,228 7,011 9,090 32.6 2,032 1,978 4,473 4,596 Newmont Corporation NEM 40.34 1,152 46.492 49,530 95.5 7,835 8,168 6,321 6,506 Market Cap Weighted Average T 7,568 7,726 7,726 7,726 7,726 7,726 7,726 7,726 7,726 7,726 7,726 7,726 7,726 7,726 7,726 7,726 7,726 7,726 7,726 7,726 7,726 7,726 7,726 7,726 7,726 7,726 7,726 7,726 7,726 7,726 7,726 7,726 7,726 7,726 1,723 7,72 4,8 372 290 1,933 4,510 2,102 2,102 2,102 2,102 2,102 2,102 2,102 2,102 <td< th=""><th>Senior Gold Producers</th><th></th><th></th><th></th><th></th><th></th><th>(moz)</th><th>('000 oz)</th><th>('000 oz)</th><th></th><th></th></td<>	Senior Gold Producers						(moz)	('000 oz)	('000 oz)		
Kinross Gold KGC 5.71 1,228 7,011 9,090 32.6 2,032 1,978 4,473 4,596 Newmont Corporation NEM 40.34 1,152 46,492 49,530 95.5 7,835 8,168 6,321 6,064 Market Cap Weighted Average Mid-Tier Gold Producers Wid-Tier Gold Producers 8 7,033 4,607 5,429 Edgold BTG 3.04 1,300 3,953 3,815 6.3 828 703 4,607 5,429 Centera Gold ¹¹ 0 YCG 7,64 216 1,233 742 4.8 372 290 1,995 2,560 Eldorado Gold EGO 11,96 205 2,447 2,578 17,7 538 547 4,899 4,526 4,885 Eldorado Gold IEGO 1,164 2,24 2,578 17,7 538 526 1,833 4,526 4,285 BAMarket Cap Weighted Average IEGO 2,931 2,911 1,18 1,262<	Agnico-Eagle Mines		52.63	497	,	,		,	3,523		
Newmont Corporation NEM 40.34 1,152 46.492 49.530 95.5 7,835 8,168 6,321 6,064					,			,	,		
Market Cap Weighted Average Mid-Tier Gold Producers James Teach Producers James Tea	Kinross Gold	KGC		1,228	,	9,090		,	,	4,473	,
Mid-Tier Gold Producers Section 1,300 1,300 3,953 3,815 6.3 828 703 4,607 5,429	Newmont Corporation	NEM	40.34	1,152	46,492	49,530	95.5	7,835	8,168	6,321	6,064
B2Gold										7,563	7,286
Centerra Gold(Mid-Tier Gold Producers										
Eldorado Gold EGO 11.96 205 2.447 2.578 17.7 538 547 4.789 4.712 Endeavour Mining(1) YEDV 26.40 248 6.540 5.711 17.8 1.262 1.333 4.526 4.285 IAMGOLD IAG 2.36 481 1.136 1.598 12.4 497 757 3.216 2.110 SSR Mining SSR M 10.54 204 2.149 2.991 9.2 508 526 5.886 5.687 Market Cap Weighted Average SSR M 10.54 204 2.149 2.991 9.2 508 526 5.886 5.687 New Gold AGI 12.99 397 5.154 4.919 10.3 487 475 10.095 10.362 New Gold NGD 1.44 687 989 1.198 3.7 372 372 3.224 3.224 Market Cap Weighted Average SRA M 10.04 192 21.141 19.844 NA 628 778 31.611 25.521 Royal Gold RGL 118.38 66 7.777 8.007 NA 363 376 22.056 21.320 Triple Flag Precious Metals YTFPM 17.41 202 3.509 2.665 NA 130 143 20.516 18.629 Market Cap Weighted Average Triple Flag Precious Metals WPM 47.62 435 21.572 20.744 NA 363 376 22.056 27.494 Market Cap Weighted Average Triple Flag Precious Metals WPM 47.62 435 21.572 20.744 NA 363 376 22.056 27.494 Market Cap Weighted Average Triple Flag Precious Metals WPM 47.62 435 21.572 20.744 NA 363 376 22.056 27.494 Market Cap Weighted Average Triple Flag Precious Metals WPM 47.62 435 21.572 20.744 NA 363 376 22.056 27.494 Market Cap Weighted Average Triple Flag Precious Metals Triple F	B2Gold	BTG	3.04	1,300	,					4,607	5,429
Findeavour Mining(1)	Centerra Gold ⁽¹⁾	YCG	7.64	216	1,233	742	4.8	372	290	1,995	2,560
IAMGOLD IAG 2.36 481 1,136 1,598 12.4 497 757 3,216 2,110 SSR Mining SSRM 10.54 204 2,149 2,991 9.2 508 526 5,886 5,687 Market Cap Weighted Average Intermediate/Junior Gold Producers Alamos Gold AGI 12.99 397 5,154 4,919 10.3 487 475 10,095 10,362 New Gold NGD 1.44 687 989 1,198 3,7 372 372 3,224 3,224 3,224 Royal Fornoco-Nevada FNV 110.04 192 21,141 19,844 NA 628 778 31,611 25,521 Franco-Nevada RLD 110.04 192 21,141 19,844 NA 628 778 31,611 25,521 Royal Gold RLD 110.04 192 21,141 19,844 NA 363 376 22,506 21,320	Eldorado Gold	EGO	11.96	205	2,447	2,578	17.7	538	547	4,789	4,712
SSR Minning SSRM 10.54 204 2,149 2,991 9.2 508 526 5,886 5,687 Market Cap Weighted Average Intermediate/Junior Gold Producers 4,588 4,566 4,566 4,566 4,566 4,566 4,566 4,566 4,566 4,566 4,566 4,566 4,566 4,919 10.3 487 475 10,095 10,362 10,362 10,362 10,362 10,362 10,362 10,362 10,362 10,362 10,362 10,362 10,362 10,362 10,362 10,362 10,362 10,362 10,362 10,362 10,362 10,362 10,362 10,362 10,362 10,362 10,362 10,362 10,362 10,362 10,362 10,362 10,362 10,362 10,362 10,362 10,362 10,362 10,362 10,362 10,362 10,362 10,362 10,362 10,362 10,362 10,362 10,362 10,362 10,362 10,362 10,362 10,362 10,362	Endeavour Mining ⁽¹⁾	YEDV	26.40	248	6,540	5,711	17.8	1,262	1,333	4,526	4,285
Market Cap Weighted Average Intermediate/Junior Gold Producers 4,588 4,568 Alamos Gold AGI 12.99 397 5,154 4,919 10.3 487 475 10,095 10,362 New Gold NGD 1.44 687 989 1,198 3.7 372 372 3,224 3,224 Market Cap Weighted Average Expression Metals FNV 110.04 192 21,141 19,844 NA 628 778 31,611 25,521 Royal Gold RGLD 118.38 66 7,777 8,007 NA 363 376 22,056 21,320 Triple Flag Precious Metals YTFPM 17.41 202 3,509 2,665 NA 130 143 20,516 18,629 Wheaton Precious Metals WPM 47.62 453 21,572 20,744 NA 731 754 28,369 27,494 Market Cap Weighted Average YFFM 47.62 45.62 20,744 <td>IAMGOLD</td> <td>IAG</td> <td>2.36</td> <td>481</td> <td>1,136</td> <td>1,598</td> <td>12.4</td> <td>497</td> <td>757</td> <td>3,216</td> <td>2,110</td>	IAMGOLD	IAG	2.36	481	1,136	1,598	12.4	497	757	3,216	2,110
Intermediate/Junior Gold Producers Alamos Gold AGI 12.99 397 5,154 4,919 10.3 487 475 10,095 10,362 New Gold NGD 1.44 687 989 1,198 3.7 372 372 3,224 3,224 Market Cap Weighted Average Expression Metals FNV 110.04 192 21,141 19,844 NA 628 778 31,611 25,521 Royal Gold RGLD 118.38 66 7,777 8,007 NA 363 376 22,056 21,320 Wheaton Precious Metals YTFPM 17.41 202 3,509 2,665 NA 130 143 20,516 18,629 Wheaton Precious Metals WPM 47.62 453 21,572 20,744 NA 731 754 28,369 27,494 Market Cap Weighted Average Primary Silver Producers PAAS 15.48 364 5,642	SSR Mining	SSRM	10.54	204	2,149	2,991	9.2	508	526	5,886	5,687
Alamos Gold AGI 12.99 397 5,154 4,919 10.3 487 475 10,095 10,362 New Gold NGD 1.44 687 989 1,198 3.7 372 372 3,224 3,224 Market Cap Weighted Average • Expossibly Companies • Attributable Troduction Franco-Nevada FNV 110.04 192 21,141 19,844 NA 628 778 31,611 25,521 Royal Gold RGLD 118.38 66 7,777 8,007 NA 363 376 22,056 21,320 Wheaton Precious Metals YTFPM 17.41 202 3,509 2,665 NA 130 143 20,516 18,629 Wheaton Precious Metals WPM 47.62 453 21,572 20,744 NA 731 754 28,369 27,494 Market Cap Weighted Average 2 2 2 2 2 2 2 2 2	Market Cap Weighted Average									4,588	4,566
New Gold NGD 1.44 687 989 1,198 3.7 372 372 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,224 3,234 3,224 3,224 <td>Intermediate/Junior Gold Producers</td> <td></td>	Intermediate/Junior Gold Producers										
Market Cap Weighted Average Royalty Companies Attributabr-roduction Franco-Nevada FNV 110.04 192 21,141 19,844 NA 628 778 31,611 25,521 Royal Gold RGLD 118.38 66 7,777 8,007 NA 363 376 22,056 21,320 Triple Flag Precious Metals YTFPM 17.41 202 3,509 2,665 NA 130 143 20,516 18,629 Wheaton Precious Metals WPM 47.62 453 21,572 20,744 NA 731 754 28,369 27,494 Market Cap Weighted Average Primary Silver Producers FAAS 15.48 364 5,642 6,867 529.3 21,686 21,046 317 326	Alamos Gold	AGI	12.99	397	5,154	4,919	10.3	487	475	10,095	10,362
Royalty Companies Franco-Nevada FNV 110.04 192 21,141 19,844 NA 628 778 31,611 25,521 Royal Gold RGLD 118.38 66 7,777 8,007 NA 363 376 22,056 21,320 Triple Flag Precious Metals YTFPM 17.41 202 3,509 2,665 NA 130 143 20,516 18,629 Wheaton Precious Metals WPM 47.62 453 21,572 20,744 NA 731 754 28,369 27,494 Market Cap Weighted Average Primary Silver Producers FAAS 15.48 364 5,642 6,867 529.3 21,686 21,046 317 326	New Gold	NGD	1.44	687	989	1,198	3.7	372	372	3,224	3,224
Franco-Nevada FNV 110.04 192 21,141 19,844 NA 628 778 31,611 25,521 Royal Gold RGLD 118.38 66 7,777 8,007 NA 363 376 22,056 21,320 Triple Flag Precious Metals YTFPM 17.41 202 3,509 2,665 NA 130 143 20,516 18,629 Wheaton Precious Metals WPM 47.62 453 21,572 20,744 NA 731 754 28,369 27,494 Market Cap Weighted Average Primary Silver Producers E 28,230 25,305 Pan American Silver PAAS 15.48 364 5,642 6,867 529.3 21,686 21,046 317 326	Market Cap Weighted Average									8,749	8,963
Royal Gold RGLD 118.38 66 7,777 8,007 NA 363 376 22,056 21,320 Triple Flag Precious Metals YTFPM 17.41 202 3,509 2,665 NA 130 143 20,516 18,629 Wheaton Precious Metals WPM 47.62 453 21,572 20,744 NA 731 754 28,369 27,494 Market Cap Weighted Average Primary Silver Producers FAAS 15.48 364 5,642 6,867 529.3 21,686 21,046 317 326	Royalty Companies							Attributable	Production		
Triple Flag Precious Metals YTFPM 17.41 202 3,509 2,665 NA 130 143 20,516 18,629 Wheaton Precious Metals WPM 47.62 453 21,572 20,744 NA 731 754 28,369 27,494 Market Cap Weighted Average Primary Silver Producers Fan American Silver FAAS 15.48 364 5,642 6,867 529.3 21,686 21,046 317 326	Franco-Nevada	FNV	110.04	192	21,141	19,844	NA	628	778	31,611	25,521
Wheaton Precious Metals WPM 47.62 453 21,572 20,744 NA 731 754 28,369 27,494 Market Cap Weighted Average Primary Silver Producers PAAS 15.48 364 5,642 6,867 529.3 21,686 21,046 317 326	Royal Gold	RGLD	118.38	66	7,777	8,007	NA	363	376	22,056	21,320
Market Cap Weighted Average Primary Silver Producers 28,230 25,305 Pan American Silver PAAS 15.48 364 5,642 6,867 529.3 21,686 21,046 317 326	Triple Flag Precious Metals	YTFPM	17.41	202	3,509	2,665	NA	130	143	20,516	18,629
Primary Silver Producers Pan American Silver PAAS 15.48 364 5,642 6,867 529.3 21,686 21,046 317 326	Wheaton Precious Metals	WPM	47.62	453	21,572	20,744	NA	731	754	28,369	27,494
Pan American Silver PAAS 15.48 364 5,642 6,867 529.3 21,686 21,046 317 326	Market Cap Weighted Average									28,230	25,305
	Primary Silver Producers										
Market Cap Weighted Average 317 326	Pan American Silver	PAAS	15.48	364	5,642	6,867	529.3	21,686	21,046	317	326
	Market Cap Weighted Average									317	326

Source: BofA Global Research estimates. Company reports.

Note: All tickers represent BofA Global Research covered companies. (1) stock price in CAD; NAV in USD (2) CAD (3) AUD (4)ZAR (5) stock price in pence; NAV in USD, (6) NAV in CAD; (7) silver reserves, silver resources and silver mined in model (8) palladium reserves, palladium reserves and palladium mined in model; (9) Reserves and resources on a GEO basis; (10) stock price in CAD, NAV in GBp, (11) stock price and NAV in TRY; (12) June 30th year end; (13) Forecasts based on management guidance; (14) Reserves and resources on a SEO basis (15) Reserves and resources on a Platinum Equivalent (4E->Platinum + Palladium + Rhodium + Gold) basis; (16) stock price in ZAR, NAV in GBP; (17) stock price in ZAR, NAV in CAD; (18) stock price and NAV in HKD; (19) stock price and NAV in GBp. Adjusted P/NAV = (share price - net cash and investments) / DCF of mining assets using a 5% discount rate. (20) stock price in RUB



Exhibit 22: Operating Forecasts for Global Gold and Precious Metal Producers (Cont'd) International gold producers operating forecasts

Priced as of 05-Jan-2024			Shares				Produ	ıction	E	V
Australian Gold Producers ⁽³⁾	BofA Sym	Share Price	O/S	Market Cap	Enterprise Value	P&P Gold Reserves	2024	2025	Per Oz of I 2024E	Prod. (USD)
	CDAILE	4.42	277	1 122	1.100	(million oz)	('000 oz)	('000 oz)		2025E
Capricorn Metals	CRNLF	4.42	377	1,123	1,106	1.3	NA	NA	NA	NA
De Grey Mining	DGMLF	1.20	1,851	1,490	1,411	5.1	NA 77.F	NA	NA 0.027	NA 7.255
Evolution Mining	CAHPF	3.80	1,976	5,056	6,223	10.0	775	858	8,027	7,255
Gold Road	ELKMF	1.71	1,081	1,245	1,219	4.1	183	185	6,663	6,597
Northern Star	NESRF	12.96	1,149	10,032	10,124	20.2	1,676	1,873	6,039	5,404
Regis Resources	RGRNF	2.09	755	1,063	1,378	3.6	438	415	3,146	3,319
Market Cap Weighted Average South African Gold Producers ⁽⁴⁾									6,787	6,143
Gold Fields	GFIOF	240.00	894	11,515	11,851	52.1	2,572	2,927	4,608	4,048
Harmony Gold (12)	HGMCF	111.46	620	3,710	3,837	42.5	1,464	1,425	2,621	2,693
Market Cap Weighted Average									4,557	4,013
International Gold Producers										
AngloGold Ashanti	AULGF	327.55	420	7,381	8,743	29.7	2,617	2,822	3,340	3,098
Centamin Egypt ⁽⁵⁾	CELTF	95.25	1,158	1,407	1,301	5.0	488	511	2,665	2,547
Market Cap Weighted Average									3,253	3,026
South African PGM Producers										
Anglo American Platinum (5)	AGPPF	877.23	265	12,496	9,848	177.2	NA	NA	NA	NA
Impala Platinum (5)	IMPUF	83.89	850	3,830	3,123	34.1	NA	NA	NA	NA
Northam Platinum (5)	NPTLF	130.41	397	2,777	3,290	14.0	NA	NA	NA	NA
Sibanye-Stillwater	SBYSF	23.90	2,853	3,662	3,445	57.7	NA	NA	NA	NA
Market Cap Weighted Average									NA	NA
Primary Silver Producers										
Fresnillo ^(5,7)	FNLPF	544.00	737	5,099	5,770	397.8	58,669	59,339	98	97
Hochschild Mining (5,7)	HCHDF	95.15	514	623	797	41.2	30,532	29,935	26	27
Market Cap Weighted Average									90	89

Source: : BofA Global Research estimates. Company reports.

Note: All tickers represent BofA Global Research covered companies. (1) stock price in CAD; NAV in USD (2) CAD (3) AUD (4)ZAR (5) stock price in pence; NAV in USD, (6) NAV in CAD; (7) silver reserves, silver resources and silver mined in model (8) palladium reserves, palladium resources and palladium mined in model; (9) Reserves and resources on a GEO basis; (10) stock price in CAD, NAV in GBp, (11) stock price and NAV in TRY; (12) June 30th year end; (13) Forecasts based on management guidance; (14) Reserves and resources on an SEO basis (15) Reserves and resources on a Platinum Equivalent (4E->Platinum + Palladium + Rhodium + Gold) basis; (16) stock price in ZAR, NAV in GBp; (17) stock price in ZAR, NAV in CAD; (18) stock price and NAV in HKD; (19) stock price and NAV in GBpAdjusted P/NAV = (share price - net cash and investments) / DCF of mining assets using a 5% discount rate. (20) stock price in RUB

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