

### South African Metals & Mining

### Marketing feedback: Bearish PGMs, (more) bullish bulks.

**Industry Overview** 

#### Bearish PGMs. Bullish bulks. Eyes on gold.

Last week we marketed our current EEMEA Metals & Mining view with investors in London. Investor sentiment cautious: Investors we spoke with are weighing weak macro (China, rates, inflation), rising geopolitical tensions and (some) secular headwinds vs. optically "cheap" valuation. Some of our covered companies (Northam Platinum, Anglo Platinum) are at "trough" valuation. That said, with platinum group metals (PGM) miners seeing mark-to-market downgrades, many investors remain cautious on the risk of a value trap. More positive on bulks and gold. Key charts & topics of discussion inside.

#### PGMs: Secular headwinds. Timing of trade in question.

Many investors watching Platinum Group Metals (PGMs), albeit from a distance. Northam Platinum and Anglo Platinum are now trading well below historic average P/NPV. That said, many investors are cautious PGMs on weak macro and secular headwinds, at least for now. Key topics of discussion: (1) Projects "at risk" at spot prices. Investors expect capex cuts to follow. (2) Polarized views on rate of Electric Vehicle (EV) adoption in Europe & US. Some think EV penetration will surprise to the upside driven by growth in Chinese EV exports. Others see headwinds (pricing, raw material availability, infrastructure challenges) which could mean adoption is slow. (3) Timing trade = tricky. Some investors anticipating poor results come early-2024. Others very cautious on EV penetration in China: "You hear about it once it's too late!"

#### Iron ore views "mixed" on China steel. Bullish coking coal.

Iron ore views "mixed". Bull case: Chinese iron ore inventories at ports are low. Steel restocking points to higher iron ore prices. Chinese government has shown willingness to stimulate property sector. Bear case: Chinese steel demand (still) challenged on weakness in the property sector. Production cuts "to come" = weaker iron ore prices, all else equal. Coking coal: Some clients "like" India growth story; India is looking to double steel production capacity to 300Mt by the end of the decade too. More than 90% of capacity expansions will be Blast Furnace (BF-BOF) = c. 80-90Mt incremental coking coal demand. With Chinese coking coal mines nearing end of life, this points to big supply deficits. Global equities exposed to coking coal: Anglo American (Buy), Teck Resources (No Rating), Whitehaven (Buy), Coronado (Buy).

### Gold: Balancing geopolitical tensions vs higher rates

Gold looms large in most investors thinking as geopolitical tensions continue to rise. Gold = uncertainty trade. That said, some are still cautious on the potential for rates to be higher for longer. Current real rates suggest gold should be much lower. On equities, most investors prefer Gold Fields on quality of underlying portfolio. Some clients "like" Centamin, but single asset risk deters many. Investors also not convinced that growth in Cote d'Ivoire lowers jurisdictional risk. Investors more cautious, relative, on AngloGold (turnaround in progress) and Harmony Gold (very high-cost assets).

>> Employed by a non-US affiliate of BofAS and is not registered/qualified as a research analyst under the FINRA rules.

Refer to "Other Important Disclosures" for information on certain BofA Securities entities that take responsibility for the information herein in particular jurisdictions.

Bof A Securities does and seeks to do business with issuers covered in its research reports. As a result, investors should be aware that the firm may have a conflict of interest that could affect the objectivity of this report. Investors should consider this report as only a single factor in making their investment decision. Refer to important disclosures on page 12 to 14.

12624024

07 November 2023

Eauity South Africa Metals & Mining

Cameron Needham >> Research Analyst MLL (UK) +44 20 7995 5464 cameron.needham@bofa.com

### **Contents**

Comparable company valuation	3
Mark-to-market	4
Commodity prices	4
Valuation charts	5
PGMs	5
Gold	6
Bulks	7
5 key topics & charts	8
Key topic #1: PGM inflection, if/when?	8
Key topic #2: PGMs: Signposts to the bottom	8
Key topic #3: Iron ore views "mixed"	9
Key topic #4: Anglo American & met coal	10
Key topic #5: Gold: Real rates vs geopolitical uncertainty	11



## **Comparable company valuation**

**Exhibit 1: Comparable company valuation**These are our latest published estimates and valuation metrics based on our house commodity price forecasts

	PER-																	
					EPS			ndar	NPV P/NPV		ND/Eq FCF Yield		Yield	ld EV/EBITDA			ΜV	ND
Big Miners	Symbol	BofA QRQ	Shr Price	Ccv	2023E	2024E	2023E	2024E	2023E	2023	2022A	2023E	2024E	2023E	2024E	DY 2022A	Śbn	Śbn
BHP Group Limited	BHPLF	BUY (B-1-8)	AUD 45.5	USD	2.58	2.91	11.0x	10.8x		#VALUE!	0.7%	7.8%	8.1%	5.6x	5.4x	11.0%	149.7	0.3
Rio Tinto Plc	RTPPF	BUY (B-1-8)	GBP 5330	USD	7.78	7.36	8.5x	9.0x	7032	0.76x	8.1%	9.0%	5.7%	5.3x	5.2x	7.5%	106.7	4.3
Rio Tinto Ltd	RTNTF	BUY (A-1-8)	AUD 122.6	USD	7.78	7.36	10.2x	10.8x	133	0.92x	8.1%	7.4%	4.7%	6.2x	6.2x	6.2%	129.0	4.3
Anglo American	AAUKF	BUY (B-1-8)	GBP 2208	USD	2.56	3.00	10.7x	9.1x	2341	0.94x	17.5%	-3.4%	8.7%	4.7x	4.4x	7.4%	33.2	6.0
Glencore Plc	GLCNF	BUY (B-1-7)	GBP 439.6	USD	0.43	0.54	12.8x	10.1x	493	0.89x	59.4%	9.3%	9.2%	5.3x	4.9x	4.8%	67.0	26.9
Vale SA	VALE	NEUT (B-2-8)	USD 14.53	USD	2.18	2.19	6.7x	6.6x	18.3	0.79x	21.4%	14.7%	10.3%	5.7x	6.3x	10.1%	64.5	8.0
South32 Ltd	SHTLF	BUY (B-1-8)	AUD 3.32	USD	-0.04	0.14	nm	13.0x	3.88	0.85x	-5.0%	9.6%	7.1%	5.0x	6.0x	11.3%	9.8	-0.5
Fortescue Metals	FSUMF	UNDE (B-3-8)	AUD 23.23	USD	1.85	1.64	8.8x	12.8x	17.0	1.4x	5.1%	9.9%	7.2%	5.1x	5.5x	9.4%	46.5	0.9
Teck Resources Ltd	TECK	NO R (-6-)	USD 37.23	CAD	5.39	9.13	9.4x	5.6x			22.1%	3.6%	18.7%	4.4x	3.0x	2.0%	19.1	4.3
Maaden	XSDRF	UNDE (B-3-9)	SAR 36.45	SAR	0.75	1.29	48.8x	28.3x			44.2%	0.8%	2.7%	17.8x	14.2x	0.0%	35.9	6.6
Mid cap		( /																
Eramet	ERMAF	BUY (C-1-9)	EUR 69.05	EUR	7.33	13.30	9.4x	5.2x	156	0.4x	15.3%	-28.1%	-8.9%	5.9x	3.6x	5.1%	2.1	0.4
Ferrexpo	FEEXF	UNDE (C-3-8)	GBP 79.65	USD	0.03	0.06	29.9x	16.1x	123	0.6x	-8.5%	15.4%	-2.8%	3.8x	3.3x	13.6%	0.6	-0.1
Ecora Resources	ECRAF	BUY (B-1-7)	GBP 89	USD	0.17	0.17	6.3x	6.3x	167	0.5x	7.2%	17.9%	18.7%	4.5x	4.2x	7.8%	0.3	0.0
South Africa		,																
Kumba	KUMBF	UNDE (C-3-8)	ZAR 543.5	ZAR	58.05	50.20	9.4x	10.8x	305	1.8x	-17.9%	11.5%	9.9%	4.6x	5.2x	8.3%	9.6	-0.6
Exxaro	EXXAF	UNDE (B-3-8)	ZAR 201.55	ZAR	46.80	35.72	4.3x	5.6x	173	1.2x	-8.9%	34.2%	33.1%	5.3x	6.2x	13.5%	3.9	-0.3
Pure plays		, ,																
Antofagasta	ANFGF	NEUT (B-2-7)	GBP 1357.5	USD	0.74	1.31	22.6x	12.8x	1015	1.3x	7.6%	0.2%	0.4%	8.1x	5.5x	3.6%	16.6	0.9
First Quantum	YFM	NEUT (C-2-7)	CAD 17.46	USD	0.86	1.39	14.9x	9.2x	23	0.8x	46.5%	7%	10.5%	5.4x	4.2x	0.8%	8.9	5.7
KGHM	KGHPF	UNDE (C-3-8)	PLN 113.8	PLN	10.55	13.41	10.8x	8.5x	42	2.7x	16.3%	-10.0%	-6.2%	6.4x	6.1x	1.3%	5.5	1.2
Atalaya Mining	XPGBF	BUY (B-1-8)	GBP 300	EUR	0.33	0.67	10.3x	5.2x	291	1.0x	-11.4%	5.8%	21.8%	4.7x	2.8x	2.1%	0.5	-0.1
HudBay Minerals	HBM	NEUT (C-2-8)	USD 4.67	USD	0.27	1.02	17.3x	4.6x	5	0.9x	61.0%	2.4%	22.7%	4.1x	2.5x	0.3%	1.6	1.0
Freeport-McMoRan	FCX	NEUT (C-2-7)	USD 35.15	USD	1.50	1.51	23.4x	23.3x	30	1.2x	9.9%	1.8%	5.8%	9.4x	8.9x	1.7%	50.4	2.5
Southern Copper	SCCO	UNDE (B-3-8)	USD 74.26	USD	3.30	4.44	22.5x	16.7x			51.3%	4.5%	4.8%	12.5x	9.4x	4.7%	57.4	4.2
Norsk Hydro	NHYKF	BUY (B-1-7)	NOK 63.06	NOK	4.12	6.41	15.3x	9.8x	47	1.4x	-1.1%	-4.2%	0.8%	6.6x	5.0x	9.0%	11.7	-0.1
Alcoa	AA	NEUT (C-2-7)	USD 26.53	USD	-2.81	4.04	nm	6.6x	67	0.4x	6.8%	-13.2%	13.9%	14.3x	3.7x	1.5%	4.7	0.4
Imerys	IMYSF	NEUT (B-2-7)	EUR 26.14	EUR	1.92	2.94	13.6x	8.9x	55	0.5x	45.2%	-4.5%	4.8%	4.8x	4.1x	14.7%	2.4	1.6
Boliden	BOLIF	UNDE (B-3-8)	SEK 284.2	SEK	22.69	26.08	12.5x	10.9x	292	1.0x	-2.0%	-5.1%	0.4%	6.2x	5.6x	9.3%	7.1	-0.1
Aurubis	AIAGF	UNDE (B-3-8)	EUR 78.2	EUR	6.20	7.68	12.0x	9.8x	61	1.3x	-8.9%	14.2%	1.9%	6.3x	5.3x	2.3%	3.7	-0.4
Befesa	BFSAF	BUY (B-1-8)	EUR 26.96	EUR	1.47	2.30	18.3x	11.7x	60	0.4x	67.0%	1.1%	-0.2%	9.9x	7.6x	4.6%	1.2	0.6
Lundin Mining	YLUN	BUY (B-1-8)	CAD 8.86	USD	0.43	0.78	nm	8.3x	6	1.5x	0.1%	-1.2%	-3.7%	5.8x	3.8x	5.5%	5.0	0.0
Kazatomprom	XWREF	BUY (B-1-7)	USD 38.5	KZT	1491	2377	nm	7.5x	43	0.9x	-1.8%	5.0%	8.3%	6.9x	4.5x	4.3%	10.0	-0.1
Yellow Cake	YLLXF	BUY (B-1-9)	GBP 542	USD	-0.56	2.35	nm	nm	449	1.2x	-14.3%	-0.4%	-0.6%			0.0%	1.3	-0.2
London Precious																		
Fresnillo plc	FNLPF	UNDE (B-3-8)	GBP 559	USD	0.16	0.11	43.4x	60.7x	254	2.2x	7.5%	-3.9%	1.2%	8.8x	7.6x	2.5%	5.1	0.3
Centamin	CELTF	BUY (B-1-7)	GBP 86.5	USD	0.10	0.13	10.5x	8.4x	154	0.6x	-7.6%	0.1%	7.2%	3.1x	2.4x	4.7%	1.2	-0.1
Hochschild	HCHDF	BUY (C-1-8)	GBP 99.9	USD	0.07	0.17	18.7x	7.1x	124	0.8x	24.2%	-14.7%	28.9%	4.6x	2.8x	1.6%	0.6	0.2
S. Africa Precious																		
AngloGold Ashanti	AULGF	NEUT (C-2-8)	ZAR 337.77	USD	1.03	1.45	18.0x	12.7x	286	1.2x	21.2%	-0.5%	5.0%	5.9x	4.7x	2.5%	7.8	0.9
Gold Fields	GFIOF	NEUT (C-2-7)	ZAR 248.72	USD	1.12	1.03	12.2x	13.2x	209	1.2x	16.2%	4.8%	9.8%	4.9x	4.7x	3.3%	12.2	0.7
Sibanye-Stillwater	SBYSF	UNDE (C-3-8)	ZAR 24.44	ZAR	1.73	0.13	14.1x	183.4x	31	0.8x	-3.7%	-3.2%	-10.8%	3.3x	5.1x	10.6%	3.8	-0.2
Harmony	HGMCF	UNDE (C-3-8)	ZAR 87.62	ZAR	7.80	10.72	9.7x	7.4x	66	1.3x	2.5%	5.4%	5.1%	5.2x	4.8x	0.7%	3.0	0.0
Anglo Platinum	AGPPF	NEUT (C-2-8)	ZAR 655.39	ZAR	57.05	45.67	11.5x	14.4x	754	0.9x	-30.4%	-0.9%	-3.7%	6.0x	7.6x	17.5%	9.5	-1.7
Northam Platinum	NPTLF	BUY (C-1-8)	ZAR 116.24	ZAR	23.76	13.28	6.8x	7.7x	84	1.4x	33.4%	18.6%	8.0%	3.4x	6.1x	0.0%	2.5	0.6
Impala Platinum	IMPUF	UNDE (C-3-8)	ZAR 82.7	ZAR	22.02	2.63	17.6x	20.3x	63	1.3x	-21.2%	15.5%	-0.4%	1.3x	3.1x	19.0%	3.9	-1.5

Source: BofA Global Research estimates BofA GLOBAL RESEARCH



### Mark-to-market

#### Exhibit 2: Mark-to-market

These are our published estimates at spot commodity prices. We then compare this to consensus estimates.

			Base Case 2024E							Spot scenario									Consensus				
																				BofA			
						EV/		FCF						EV/			FCF		EV/	VS.	Spot		
Company	Rec	Price	EPS	EBITDA	PER	EBITDA	FCF	yield	EPS	Chg	EBITDA	Chg	PER	EBITDA	FCF	Chg	yield	EBITDA	EBITDA	Cons	vs.Cons		
ВНР	BUY (B-1-8)	AUD 45	2.74	28164	10.7x	5.4x	12135	8%	3.48	27%	33187	18%	8.4x	4.6x	15174	25%	10%	28254	5.4x	0%	17%		
Rio Tinto	BUY (B-1-8)	GBP 5330	7.36	24464	8.9x	5.1x	6116	6%	9.35	27%	29339	20%	6.8x	4.2x	9138	49%	9%	23542	5.3x	4%	25%		
Anglo American	BUY (B-1-8)	GBP 2208	3.00	11692	7.9x	4.3x	2827	9%	3.75	25%	13196	13%	7.0x	3.8x	3748	33%	12%	11758	4.3x	-1%	12%		
Glencore	BUY (B-1-7)	GBP 439	0.54	18838	10.0x	4.8x	6140	9%	0.32	-41%	16045	-15%	17.0x	5.7x	5480	-11%	8%	18516	4.9x	2%	-13%		
Vale	NEUT (B-2-8)	USD 14.53	2.19	16182	6.6x	6.0x	6637	11%	3.69	68%	23989	48%	3.7x	4.1x	13448	103%	23%	18229	5.3x	-11%	32%		
Fortescue	UNDE (B-3-8)	AUD 23.23	1.28	7755	12.6x	6.4x	2108	5%	2.18	70%	11721	51%	7.0x	4.2x	4891	132%	11%	8097	6.1x	-4%	45%		
South32	BUY (B-1-8)	AUD 3.32	0.17	2308	12.8x	5.2x	833	9%	0.13	-21%	2058	-11%	15.8x	5.9x	682	-18%	7%	2396	5.0x	-4%	-14%		
Alumina	UNDE (B-3-8)	AUD 0.8	0.02	87	20.8x	22.4x	81	5%	0.01	-41%	58	-33%	38.6x	33.6x	58	nm	4%	112	17.4x	-22%	-48%		
Whitehaven	BUY (B-1-8)	AUD 7.15	1.52	2624	6.3x	3.0x	-1465	-24%	0.94	-38%	2012	-23%	10.4x	3.9x	-1886	nm	-31%	1723	4.6x	52%	17%		
Coronado	BUY (C-1-8)	AUD 1.755	0.11	509	9.9x	3.8x	156	8%	0.29	155%	911	79%	3.8x	2.1x	441	183%	23%	578	3.3x	-12%	58%		
Teck Resources	NO R (-6-)	USD 37.23	9.13	10366	5.6x	3.2x	4874	17%	11.26	23%	11874	15%	5.0x	2.8x	5587	15%	19%	7865	4.3x	32%	51%		
Ferrexpo	UNDE (C-3-8)	GBP 79	0.06	141	15.3x	nm	-16	-3%	0.27	344%	294	108%	3.3x	nm	78	nm	15%	148	nm	-5%	98%		
Antofagasta	NEUT (B-2-7)	GBP 1357	1.31	4253	12.6x	5.5x	60	0%	0.88	-33%	3343	-21%	18.8x	7.0x	-307	-608%	-2%	3426	6.8x	24%	-2%		
First Quantum Min	NEUT (C-2-7)	CAD 17.46	1.39	3549	8.2x	4.0x	928	12%	0.69	-51%	2787	-21%	16.9x	5.1x	377	-59%	5%	3298	4.3x	8%	-15%		
Eramet	BUY (C-1-9)	EUR 69.05	13.30	780	5.1x	3.3x	-176	-10%	11.79	-11%	726	-7%	5.2x	3.5x	-240	nm	-14%	712	3.6x	10%	2%		
Norsk Hydro	BUY (B-1-7)	NOK 63	6.41	29142	9.8x	4.7x	1049	1%	2.42	-62%	17453	-40%	24.6x	7.9x	-3097	-395%	-3%	27530	5.0x	6%	-37%		
Boliden	UNDE (B-3-8)	SEK 284	26.08	15956	11.0x	5.7x	339	0%	24.13	-7%	15288	-4%	12.0x	6.0x	236	-30%	0%	15914	5.8x	0%	-4%		
Lundin Mining	BUY (B-1-8)	CAD 8.86	0.78	2045	8.4x	3.7x	-187	-4%	0.60	-23%	1810	-11%	10.5x	4.2x	-343	nm	-7%	1724	4.4x	19%	5%		
Freeport-McMoRan	NEUT (C-2-7)	USD 35.15	1	9115	23.2x	7.0x	2557	5%	0.72	-46%	7377	-19%	47.0x	8.6x	1293	-49%	3%	10003	6.3x	-9%	-26%		
Anglo Platinum	NEUT (C-2-8)	ZAR 655	45.67	19078	14.0x	7.3x	-6329	-4%	26.44	-42%	12668	-34%	24.1x	11.1x	-10595	nm	-6%	33476	4.2x	-43%	-62%		
Northam Platinum	BUY (C-1-8)	ZAR 116	15.36	10055	7.5x	6.2x	3882	8%	9.58	-38%	7072	-30%	13.6x	8.8x	1834	-53%	4%	8765	7.1x	15%	-19%		
Fresnillo plc	UNDE (B-3-8)	GBP 559	0.11	776	58.3x	7.1x	61	1%	0.07	-41%	716	-8%	nm	7.7x	11	-82%	0%	1046	5.3x	-26%	-32%		
Centamin	BUY (B-1-7)	GBP 86	0.13	481	8.1x	2.3x	89	7%	0.14	12%	517	7%	7.3x	2.1x	111	25%	9%	426	2.6x	13%	21%		
Hochschild	BUY (C-1-8)	GBP 99	0.17	363	7.0x	2.5x	184	35%	0.21	18%	388	7%	5.0x	2.3x	206	12%	39%	321	2.8x	13%	21%		
Kumba	UNDE (C-3-8)	ZAR 543	50.20	34197	9.9x	4.9x	17311	10%	82.65	65%	52934	55%	6.2x	3.2x	29686	71%	18%	38149	4.4x	-10%	39%		
Sibanye-Stillwater	UNDE (C-3-8)	ZAR 24	0.13	13573	171.6x	4.8x	-7441	-11%	-1.18	nm	7807	-42%	nm	8.3x	-9981	nm	-15%	25796	2.5x	-47%	-70%		
AngloGold Ashanti	NEUT (C-2-8)	ZAR 337	1.45	1869	11.8x	4.9x	391	5%	1.71	17%	2031	9%	11.3x	4.5x	495	27%	6%	1925	4.8x	-3%	6%		
Gold Fields	NEUT (C-2-7)	ZAR 248	1.03	2551	12.5x	4.9x	1194	9%	1.14	11%	2691	6%	12.4x	4.6x	1384	16%	11%	2965	4.2x	-14%	-9%		
Median - industrial					9.9x	5.0x		5%		-11%		-7%	10.4x	4.4x		2%	7%		5.0x	0%	5%		
Median - precious					12.2x	4.9x		6%		-14%		-1%	11.9x	6.2x		14%	5%		4.2x	-8%	-14%		
Median - SA					11.8x	4.9x		0%		0%		0%	8.8x	4.5x		16%	0%		4.2x	-10%	0%		

Source: BofA Global Research estimates

BofA GLOBAL RESEARCH

### **Commodity prices**

#### **Exhibit 3: Commodity prices**

Our commodities team now expect platinum to average US\$1050/oz in 2024E

	Unit	Spot	2020A	2021A	2022A	2023E	2024E	2025E	2026E	2027E	2028E	LT 2023\$
Platinum	US\$/oz	910	886	1,093	964	976	1,050	1,250	1,322	1,394	1,466	1,295
Palladium	US\$/oz	1160	2201	2399	2110	1379	1100	1000	1155	1310	1466	1295
Rhodium	US\$/oz	5250	11206	20145	15477	6505	4000	4000	3888	3776	3664	3238
Gold - Real	US\$/oz	1924	1,771	1,799	1,803	1,924	1,927	2,046	1,961	1,879	1,800	
Currencies												
USD:ZAR	vs. USD	18.83	16.96	15.02	16.50	18.65	19.39	20.10	20.90	21.74	22.61	
ZAR Basket Price		25464	36033	45393	41021	29055	25565	28355	31140	34105	37258	

Source: BofA Global Research estimates. Note: ZAR Basket calculated basis 60%/30%/8%/2% Pt, Pd, Rh, Au respectively.

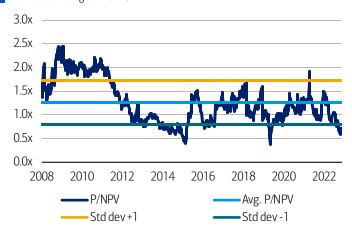


### **Valuation charts**

#### **PGMs**

#### Exhibit 4: AMS P/NPV chart

Historical average c. 1.3x P/NPV

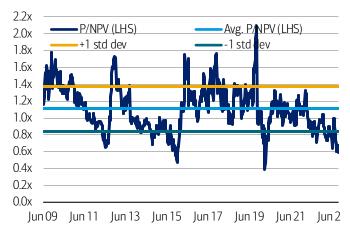


Source: BofA Global Research estimates, Bloomberg

BofA GLOBAL RESEARCH

### Exhibit 5: NPH P/NPV chart

Northam historical average c. 1.1x P/NPV

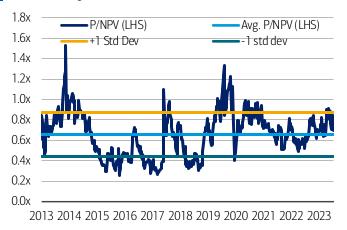


 $\textbf{Source:} \ \ BofA \ \ Global \ \ Research \ \ estimates, \ \ Bloomberg. \ \ \textbf{Note:} \ \ We \ interpolate \ our \ \ \ NPV \ \ \ estimate \ for the time in which \ \ our \ \ coverage \ \ was \ \ suspended \ \ \ during \ \ \ \ attempted \ \ \ RBP \ \ \ \ \ takeover.$ 

RofA GLOBAL RESEARCH

#### Exhibit 6: SSW P/NPV chart

Historical average c. 0.7x P/NPV

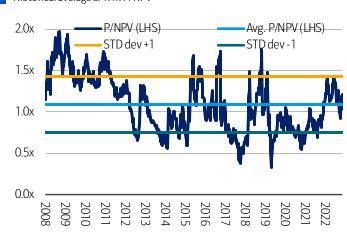


Source: BofA Global Research estimates, Bloomberg.

BofA GLOBAL RESEARCH

#### Exhibit 7: IMP P/NPV chart

Historical average c. 1.1x P/NPV

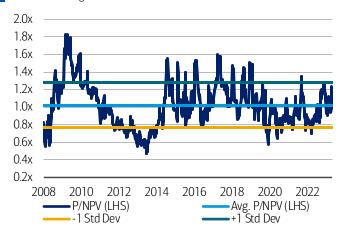


Source: BofA Global Research estimates, Bloomberg

#### Gold

#### Exhibit 8: Gold Fields P/NPV chart

Historical average c. 1x

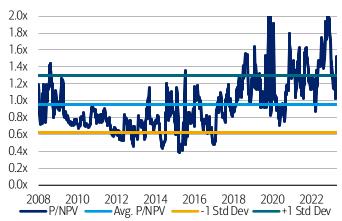


Source: BofA Global Research estimates, Bloomberg

BofA GLOBAL RESEARCH

#### Exhibit 10: HAR P/NPV chart

Historical average c. 0.95x

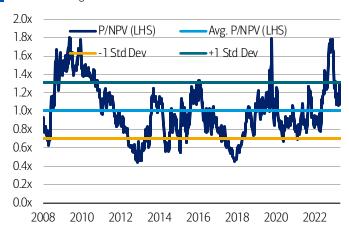


**Source:** BofA Global Research estimates, Bloomberg

BofA GLOBAL RESEARCH

#### Exhibit 9: AngloGold P/NPV chart

Historical average c. 1x



Source: BofA Global Research estimates, Bloomberg

#### **Bulks**

#### Exhibit 11: Kumba Iron Ore EV/EBITDA

Historical average c. 4.1x

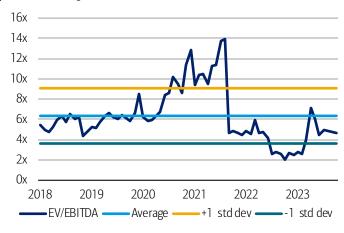


Source: BofA Global Research estimates, Bloomberg

BofA GLOBAL RESEARCH

#### Exhibit 12: Exxaro EV/EBITDA chart

Historical average c. 6.4x



Source: BofA Global Research estimates, Bloomberg



### 5 key topics & charts

#### Key topic #1: PGM inflection, if/when?

Some investors are reluctant to buy PGM equities on secular headwinds; the consumer continues to transition from Internal Combustion Engine (ICE) vehicles (PGM-intensive) to Electric Vehicles (EVs) (not PGM-intensive). "Catching a falling knife". Sizeable minority also very concerned on strength in Chinese EV market and potential for rapid penetration, both domestically and (possibly) in Europe; re: China - "you hear about it once it's too late!" Whilst we do think that this makes for a tricky overlay for PGMs, we think that supply cuts could re-balance the market. We expect (1) typical de-stocking from miners/refiners ahead of year-end as companies look to reduce inventories, (2) weak FY23 results that evidence cash burn in several PGM miners at spot prices and (3) Russian metal to continue to flow onto the market near-term. Coupled with our European Strategist expectation of trough PMIs in early 2024 (see the team's note: A world of a thousand puzzles), could 1H24 be inflection/"peak" pessimism?

**Exhibit 13: China platinum imports (koz)**China platinum imports have picked up following a weak start to the year

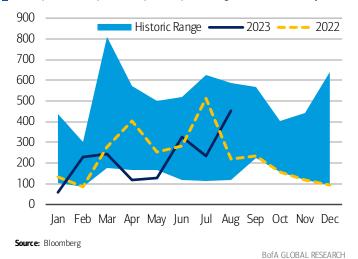
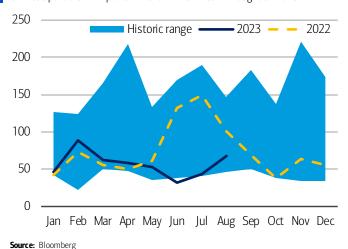


Exhibit 14: China palladium imports (koz)
Chinese palladium imports have remained weak throughout 2023



BofA GLOBAL RESEARCH

### Key topic #2: PGMs: Signposts to the bottom

We think that weak macro and secular headwinds makes for a tricky overlay for PGMs; several investors trying to weigh inflation, higher rates, rhodium destocking and Pt/Pd substitution. We think that ultimately, demand is a rates story and until Fed cuts begin, demand (and hence prices) should remain relatively weak. Separately, we do think that the bulk of rhodium destocking in China is "done". Companies are saying: China continues to take (most) of its rhodium from Russia. Whilst we acknowledge that while prices have pulled back vs 2022 highs, prices are still relatively strong versus "pre-EV, pre-Russia/Ukraine" times.



#### **Platinum**

#### **Exhibit 15: Platinum prices through history**

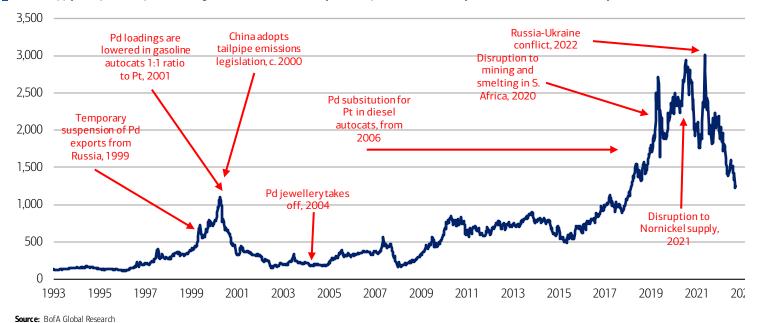
S. African supply disruptions have been key drivers of price rallies, both in 1999 (refinery lock up) and 2020 (disruptions, Eskom outages)



#### **Palladium**

#### Exhibit 16: Palladium price through history

Russia supply disruptions (or perceived heightened risk) have been a key driver of price rallies historically, both in 1999 and more recently from Russia-Ukraine conflict



### Key topic #3: Iron ore views "mixed"

Investors views "mixed" on iron ore. Iron ore rallied over the summer, hitting \$126/t in September, driven by restocking at China's steel mills after inventories fell to record lows (see our commodities team's note: <u>Bountiful iron ore supply</u>). **Bull case:** Iron ore inventories at ports remain very low (see below). Inventories at the steel mills are similarly low (typical 20-35 days, today 15 days). If there is stabilisation in the property sector, we think that iron ore prices should be on firmer footing. **Bear case:** Steel mills

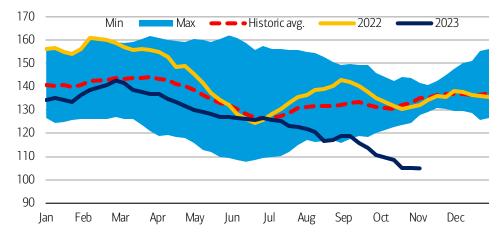


BofA GLOBAL RESEARCH

are not profitable = production cuts to come and with that, weaker iron ore demand. Hard landing on property is a real risk. Let's discuss?

#### Exhibit 17: Chinese iron ore inventories at port (Mt)

Chinese iron ore inventories at ports are low versus historic norms



Source: BofA Global Research, Bloomberg

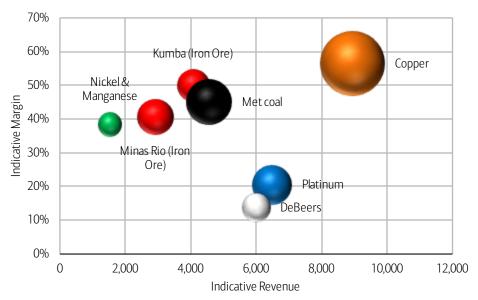
BofA GLOBAL RESEARCH

#### Key topic #4: Anglo American & met coal

We think India could double steel production capacity to 300Mt by the end of the decade too. With more than 90% of the announced capacity expansions coming via the BF-BOF route (this requires iron ore and coal), we see India's iron ore demand topping 300Mt in 2030. All else equal, this points to c. 80-90Mt incremental coking coal demand.

Key question from investors: Where will this supply come from? Equities we like with met coal exposure: BHP (Buy), Anglo American (Buy), Whitehaven (Buy), Coronado (Buy). See our recent note: Dissecting for value: There is a world-class copper business in here. Somewhere...

### **Exhibit 18: Anglo's copper business is world class and a key driver of value in the portfolio** Met coal is an important part of Anglo's business



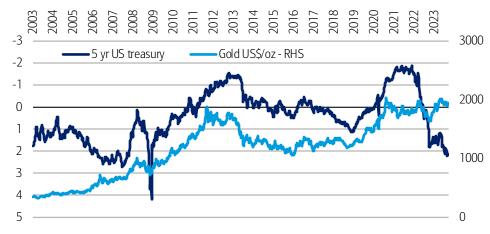
**Source:** BofA Global Research estimates. Revenue = Consolidated revenue average 2023E-2025E. Margin = average EBITDA margin 2023E-2025E. Bubble size = implied value for business in our sum-of-parts

#### Key topic #5: Gold: Real rates vs geopolitical uncertainty

Gold was a common topic of discussion with investors as geopolitical tensions continue to rise. Gold = uncertainty trade. That said, some still cautious on potential for rates to be higher for longer. On equities, most investors prefer Gold Fields on quality of underlying portfolio. Some clients "like" Centamin, but single asset risk and liquidity deters many – investors not convinced growth in Cote d'Ivoire lowers jurisdictional risk. Investors more cautious, relative, on AngloGold (turnaround in progress) and Harmony Gold (very high-cost assets).

#### Exhibit 19: 5-year US treasury real yield rate (%, LHS) and gold price (US\$/oz, RHS)

Gold = rates story. However, we have also seen rising geopolitical tensions bring gold into investors thinking once again.



Source: BofA Global Research, Bloomberg



### **Disclosures**

#### **Important Disclosures**

FUNDAMENTAL EQUITY OPINION KEY: Opinions include a Volatility Risk Rating, an Investment Rating and an Income Rating. VOLATILITY RISK RATINGS, indicators of potential price fluctuation, are: A - Low, B - Medium and C - High. INVESTMENT RATINGS reflect the analyst's assessment of both a stock's absolute total return potential as well as its attractiveness for investment relative to other stocks within its Coverage Cluster (defined below). Our investment ratings are: 1 - Buy stocks are expected to have a total return of at least 10% and are the most attractive stocks in the coverage cluster; 2 - Neutral stocks are expected to remain flat or increase in value and are less attractive than Buy rated stocks and 3 - Underperform stocks are the least attractive stocks in a coverage cluster. An investment rating of 6 (No Rating) indicates that a stock is no longer trading on the basis of fundamentals. Analysts assign investment ratings considering, among other things, the 0-12 month total return expectation for a stock and the firm's guidelines for ratings dispersions (shown in the table below). The current price objective for a stock should be referenced to better understand the total return expectation at any given time. The price objective reflects the analyst's view of the potential price appreciation (depreciation).

# Investment rating Total return expectation (within 12-month period of date of initial rating) Ratings dispersion guidelines for coverage cluster<sup>R1</sup>

 Buy
 ≥ 10%
 ≤ 70%

 Neutral
 ≥ 0%
 ≤ 30%

 Underperform
 N/A
 ≥ 20%

INCOME RATINGS, indicators of potential cash dividends, are: 7 - same/higher (dividend considered to be secure), 8 - same/lower (dividend not considered to be secure) and 9 - pays no cash dividend. Coverage Cluster is comprised of stocks covered by a single analyst or two or more analysts sharing a common industry, sector, region or other classification(s). A stock's coverage cluster is included in the most recent BofA Global Research report referencing the stock.

BofA Global Research personnel (including the analyst(s) responsible for this report) receive compensation based upon, among other factors, the overall profitability of Bank of America Corporation, including profits derived from investment banking. The analyst(s) responsible for this report may also receive compensation based upon, among other factors, the overall profitability of the Bank's sales and trading businesses relating to the class of securities or financial instruments for which such analyst is responsible.

#### **Other Important Disclosures**

From time to time research analysts conduct site visits of covered issuers. BofA Global Research policies prohibit research analysts from accepting payment or reimbursement for travel expenses from the issuer for such visits.

Prices are indicative and for information purposes only. Except as otherwise stated in the report, for any recommendation in relation to an equity security, the price referenced is the publicly traded price of the security as of close of business on the day prior to the date of the report or, if the report is published during intraday trading, the price referenced is indicative of the traded price as of the date and time of the report and in relation to a debt security (including equity preferred and CDS), prices are indicative as of the date and time of the report and are from various sources including BofA Securities trading desks.

The date and time of completion of the production of any recommendation in this report shall be the date and time of dissemination of this report as recorded in the report timestamp.

Recipients who are not institutional investors or market professionals should seek the advice of their independent financial advisor before considering information in this report in connection with any investment decision, or for a necessary explanation of its contents.

Officers of BofAS or one or more of its affiliates (other than research analysts) may have a financial interest in securities of the issuer(s) or in related investments. Refer to BofA Global Research policies relating to conflicts of interest.

BofA Securities' includes BofA Securities, Inc. ('BofAS') and its affiliates. Investors should contact their BofA Securities representative or Merrill Global Wealth Management financial advisor if they have questions concerning this report or concerning the appropriateness of any investment idea described herein for such investor. 'BofA Securities' is a global brand for BofA Global Research.

#### Information relating to Non-US affiliates of BofA Securities and Distribution of Affiliate Research Reports:

BofAS and/or Merrill Lynch, Pierce, Fenner & Smith Incorporated ("MLPF&S") may in the future distribute, information of the following non-US affiliates in the US (short name: legal name, regulator): Merrill Lynch (South Africa): Merrill Lynch South Africa (Pty) Ltd., regulated by The Financial Service Board; MLI (UK): Merrill Lynch International, regulated by the Financial Conduct Authority (FCA) and the Prudential Regulation Authority (PRA); BofASE (France): BofA Securities Europe SA is authorized by the Autorité de Contrôle Prudentiel et de Résolution (ACPR) and regulated by the ACPR and the Autorité des Marchés Financiers (AMF). BofA Securities Europe SA ("BofASE") with registered address at 51, rue La Boétie, 75008 Paris is registered under no. 842 602 690 RCS Paris. In accordance with the provisions of French Code Monétaire et Financier (Monetary and Financial Code), BofASE is an établissement de crédit et d'investissement (credit and investment institution) that is authorised and supervised by the European Central Bank and the Autorité de Contrôle Prudentiel et de Résolution (ACPR) and regulated by the ACPR and the Autorité des Marchés Financiers. BofASE's share capital can be found at www.bofaml.com/BofASEdisclaimer; BofA Europe (Milan): Bank of America Europe Designated Activity Company, Milan Branch, regulated by the Bank of Italy, the European Central Bank (ECB) and the Central Bank of Ireland (CBI); BofA Europe (Frankfurt): Bank of America Europe Designated Activity Company, Frankfurt Branch regulated by BaFin, the ECB and the CBI, BofA Europe (Madrid): Bank of America Europe Designated Activity Company, Sucursal en España, regulated by the Bank of Spain, the ECB and the CBI; Merrill Lynch (Australia): Merrill Lynch Equities (Australia) Limited, regulated by the Australian Securities and Investments Commission; Merrill Lynch (Hong Kong): Merrill Lynch (Asia Pacific) Limited, regulated by the Hong Kong Securities and Futures Commission (HKSFC); Merrill Lynch (Singapore): Merrill Lynch (Singapore) Pte Ltd, regulated by the Monetary Authority of Singapore (MAS); Merrill Lynch (Canada): Merrill Lynch (Canada): Merrill Lynch (Mexico): Mexico): Merrill Lynch (Mexico): M CV, Casa de Bolsa, regulated by the Comisión Nacional Bancaria y de Valores; Merrill Lynch (Argentina): Merrill Lynch Árgentina SA, regulated by Comisión Nacional de Valores; BofAS Japan: BofA Securities Japan Co., Ltd., regulated by the Financial Services Agency; Merrill Lynch (Seoul): Merrill Lynch International, LLC Seoul Branch, regulated by the Financial Supervisory Service; Merrill Lynch (Taiwan): Merrill Lynch Securities (Taiwan) Ltd., regulated by the Securities and Futures Bureau; BofAS India: BofA Securities India Limited, regulated by the Securities and Exchange Board of India (SEBI); Merrill Lynch (Israel): Merrill Lynch Israel Limited, regulated by Israel Securities Authority; Merrill Lynch (DIFC): Merrill Lynch International (DIFC Branch), regulated by the Dubai Financial Services Authority (DFSA); Merrill Lynch (Brazil): Merrill Lynch S.A. Corretora de Títulos e Valores Mobiliários, regulated by Comissão de Valores Mobiliários; Merrill Lynch KSA Company: Merrill Lynch Kingdom of Saudi Arabia Company, regulated by the Capital Market Authority.

This information: has been approved for publication and is distributed in the United Kingdom (UK) to professional clients and eligible counterparties (as each is defined in the rules of the FCA and the PRA) by MLI (UK), which is authorized by the PRA and regulated by the FCA and the PRA - details about the extent of our regulation by the FCA and PRA are available from us on request; has been approved for publication and is distributed in the European Economic Area (EEA) by BofASE (France), which is authorized by the ACPR and regulated by the ACPR and the AMF; has been considered and distributed in Japan by BofAS Japan, a registered securities dealer under the Financial Instruments and Exchange Act in Japan, or its permitted affiliates; is issued and distributed in Hong Kong by Merrill Lynch (Hong Kong) which is regulated by HKSFC; is issued and distributed in Taiwan by Merrill Lynch (Taiwan); is issued and distributed in India by BofAS India; and is issued and distributed in Singapore to institutional investors and/or accredited investors (each as defined under the Financial Advisers Regulations) by Merrill Lynch (Singapore) (Company Registration No 198602883D). Merrill Lynch (Singapore) is regulated by MAS. Merrill Lynch Equities (Australia) Limited (ABN 65 006 276 795), AFS License 235132 (MLEA) distributes this information in Australia only to 'Wholesale' clients as defined by s.761G of the Corporations Act 2001. With the exception of Bank of America N.A., Australia Branch, neither MLEA nor any of



Ratings dispersions may vary from time to time where BofA Global Research believes it better reflects the investment prospects of stocks in a Coverage Cluster.

its affiliates involved in preparing this information is an Authorised Deposit-Taking Institution under the Banking Act 1959 nor regulated by the Australian Prudential Regulation Authority. No approval is required for publication or distribution of this information in Brazil and its local distribution is by Merrill Lynch (Brazil) in accordance with applicable regulations. Merrill Lynch (DIFC) is authorized and regulated by the DFSA. Information prepared and issued by Merrill Lynch (DIFC) is done so in accordance with the requirements of the DFSA conduct of business rules. BofA Europe (Frankfurt) distributes this information in Germany and is regulated by BaFin, the ECB and the CBI. BofA Securities entities, including BofA Europe and BofASE (France), may outsource/delegate the marketing and/or provision of certain research services or aspects of research services to other branches or members of the BofA Securities group. You may be contacted by a different BofA Securities entity acting for and on behalf of your service provider where permitted by applicable law. This does not change your service provider. Please refer to the Electronic Communications Disclaimers for further information.

This information has been prepared and issued by BofAS and/or one or more of its non-US affiliates. The author(s) of this information may not be licensed to carry on regulated activities in your jurisdiction and, if not licensed, do not hold themselves out as being able to do so. BofAS and/or MLPF&S is the distributor of this information in the US and accepts full responsibility for information distributed to BofAS and/or MLPF&S clients in the US by its non-US affiliates. Any US person receiving this information and wishing to effect any transaction in any security discussed herein should do so through BofAS and/or MLPF&S and not such foreign affiliates. Hong Kong recipients of this information should contact Merrill Lynch (Asia Pacific) Limited in respect of any matters relating to dealing in securities or provision of specific advice on securities or any other matters arising from, or in connection with, this information. Singapore recipients of this information should contact Merrill Lynch (Singapore) Pte Ltd in respect of any matters arising from, or in connection with, this information. For clients that are not accredited investors, expert investors or institutional investors Merrill Lynch (Singapore) Pte Ltd accepts full responsibility for the contents of this information distributed to such clients in Singapore.

#### General Investment Related Disclosures:

Taiwan Readers: Neither the information nor any opinion expressed herein constitutes an offer or a solicitation of an offer to transact in any securities or other financial instrument. No part of this report may be used or reproduced or quoted in any manner whatsoever in Taiwan by the press or any other person without the express written consent of BofA Securities. This document provides general information only, and has been prepared for, and is intended for general distribution to, BofA Securities clients. Neither the information nor any opinion expressed constitutes an offer or an invitation to make an offer, to buy or sell any securities or other financial instrument or any derivative related to such securities or instruments (e.g., options, futures, warrants, and contracts for differences). This document is not intended to provide personal investment advice and it does not take into account the specific investment objectives, financial situation and the particular needs of, and is not directed to, any specific person(s). This document and its content do not constitute, and should not be considered to constitute, investment advice for purposes of ERISA, the US tax code, the Investment Advisers Act or otherwise. Investors should seek financial advice regarding the appropriateness of investing in financial instruments and implementing investment strategies discussed or recommended in this document and should understand that statements regarding future prospects may not be realized. Any decision to purchase or subscribe for securities in any offering must be based solely on existing public information on such security or the information in the prospectus or other offering document issued in connection with such offering, and not on this document.

Securities and other financial instruments referred to herein, or recommended, offered or sold by BofA Securities, are not insured by the Federal Deposit Insurance Corporation and are not deposits or other obligations of any insured depository institution (including, Bank of America, N.A.). Investments in general and, derivatives, in particular, involve numerous risks, including, among others, market risk, counterparty default risk and liquidity risk. No security, financial instrument or derivative is suitable for all investors. Digital assets are extremely speculative, volatile and are largely unregulated. In some cases, securities and other financial instruments may be difficult to value or sell and reliable information about the value or risks related to the security or financial instrument may be difficult to obtain. Investors should note that income from such securities and other financial instruments, if any, may fluctuate and that price or value of such securities and instruments may rise or fall and, in some cases, investors may lose their entire principal investment. Past performance is not necessarily a guide to future performance. Levels and basis for taxation may change.

This report may contain a short-term trading idea or recommendation, which highlights a specific near-term catalyst or event impacting the issuer or the market that is anticipated to have a short-term price impact on the equity securities of the issuer. Short-term trading ideas and recommendations are different from and do not affect a stock's fundamental equity rating, which reflects both a longer term total return expectation and attractiveness for investment relative to other stocks within its Coverage Cluster. Short-term trading ideas and recommendations may be more or less positive than a stock's fundamental equity rating.

BofA Securities is aware that the implementation of the ideas expressed in this report may depend upon an investor's ability to "short" securities or other financial instruments and that such action may be limited by regulations prohibiting or restricting "shortselling" in many jurisdictions. Investors are urged to seek advice regarding the applicability of such regulations prior to executing any short idea contained in this report.

Foreign currency rates of exchange may adversely affect the value, price or income of any security or financial instrument mentioned herein. Investors in such securities and instruments, including ADRs, effectively assume currency risk.

BofAS or one of its affiliates is a regular issuer of traded financial instruments linked to securities that may have been recommended in this report. BofAS or one of its affiliates may, at any time, hold a trading position (long or short) in the securities and financial instruments discussed in this report.

BofA Securities, through business units other than BofA Global Research, may have issued and may in the future issue trading ideas or recommendations that are inconsistent with, and reach different conclusions from, the information presented herein. Such ideas or recommendations may reflect different time frames, assumptions, views and analytical methods of the persons who prepared them, and BofA Securities is under no obligation to ensure that such other trading ideas or recommendations are brought to the attention of any recipient of this information. In the event that the recipient received this information pursuant to a contract between the recipient and BofAS for the provision of research services for a separate fee, and in connection therewith BofAS may be deemed to be acting as an investment adviser, such status relates, if at all, solely to the person with whom BofAS has contracted directly and does not extend beyond the delivery of this report (unless otherwise agreed specifically in writing by BofAS). If such recipient uses the services of BofAS in connection with the sale or purchase of a security referred to herein, BofAS may act as principal for its own account or as agent for another person. BofAS is and continues to act solely as a broker-dealer in connection with the execution of any transactions, including transactions in any securities referred to herein.

#### Copyright and General Information:

Copyright 2023 Bank of America Corporation. All rights reserved. iQdatabase® is a registered service mark of Bank of America Corporation. This information is prepared for the use of BofA Securities clients and may not be redistributed, retransmitted or disclosed, in whole or in part, or in any form or manner, without the express written consent of BofA Securities. BofA Global Research information is distributed simultaneously to internal and client websites and other portals by BofA Securities and is not publicly-available material. Any unauthorized use or disclosure is prohibited. Receipt and review of this information constitutes your agreement not to redistribute, retransmit, or disclose to others the contents, opinions, conclusion, or information contained herein (including any investment recommendations, estimates or price targets) without first obtaining express permission from an authorized officer of BofA Securities. Materials prepared by BofA Global Research personnel are based on public information. Facts and views presented in this material have not been reviewed by, and may not reflect information known to, professionals in other business areas of BofA Securities, including investment banking personnel. BofA Securities has established information barriers between BofA Global Research and certain business groups. As a result, BofA Securities does not disclose certain client relationships with, or compensation received from, such issuers. To the extent this material discusses any legal proceeding or issues, it has not been prepared as nor is it intended to express any legal conclusion, opinion or advice. Investors should consult their own legal advisers as to issues of law relating to the subject matter of this material. BofA Global Research personnel's knowledge of legal proceedings in which any BofA Securities entity and/or its directors, officers and employees may be plaintiffs, defendants, co-defendants or co-plaintiffs with or involving issuers mentioned in this material is based on public inform

This information has been prepared independently of any issuer of securities mentioned herein and not in connection with any proposed offering of securities or as agent of any issuer of any securities. None of BofAS any of its affiliates or their research analysts has any authority whatsoever to make any representation or warranty on behalf of the issuer(s). BofA Global Research policy prohibits research personnel from disclosing a recommendation, investment rating, or investment thesis for review by an issuer prior to the publication of a research report containing such rating, recommendation or investment thesis.

Any information relating to the tax status of financial instruments discussed herein is not intended to provide tax advice or to be used by anyone to provide tax advice. Investors are urged to seek tax advice based on their particular circumstances from an independent tax professional.

The information herein (other than disclosure information relating to BofA Securities and its affiliates) was obtained from various sources and we do not guarantee its accuracy. This information may contain links to third-party websites. BofA Securities is not responsible for the content of any third-party website or any linked content contained in a third-party website. Content contained on such third-party websites is not part of this information and is not incorporated by reference. The inclusion of a link does not imply any endorsement by or any affiliation with BofA Securities. Access to any third-party website is at your own risk, and you should always review the terms and privacy policies at third-party websites before submitting any personal information to them. BofA Securities is not responsible for such terms and privacy policies and expressly disclaims any liability for them.

All opinions, projections and estimates constitute the judgment of the author as of the date of publication and are subject to change without notice. Prices also are subject to change without notice. BofA Securities is under no obligation to update this information and BofA Securities ability to publish information on the subject issuer(s) in the future is subject to applicable quiet periods. You should therefore assume that BofA Securities will not update any fact, circumstance or opinion contained herein.

Certain outstanding reports or investment opinions relating to securities, financial instruments and/or issuers may no longer be current. Always refer to the most recent research report relating to an issuer prior to making an investment decision.

In some cases, an issuer may be classified as Restricted or may be Under Review or Extended Review. In each case, investors should consider any investment opinion relating to such issuer (or its security and/or financial instruments) to be suspended or withdrawn and should not rely on the analyses and investment opinion(s) pertaining to such issuer (or its securities and/or financial instruments) nor should the analyses or opinion(s) be considered a solicitation of any kind. Sales persons and financial advisors affiliated with BofAS or any of its affiliates may not solicit purchases of securities or financial instruments that are Restricted or Under Review and may only solicit securities under Extended Review in accordance with firm policies.

Neither BofA Securities nor any officer or employee of BofA Securities accepts any liability whatsoever for any direct, indirect or consequential damages or losses arising from any use of this information.

