

The Flow Show

"We're Not Far From It..."

Scores on the Doors: crypto 55.8%, oil 10.8%, stocks 5.6%, gold 4.6%, commodities 4.6%, US dollar 1.5%, HY bonds 1.0%, cash 0.9%, IG bonds -0.8%, gov bonds -2.4% YTD.

Zeitgeist: "\$6tn to \$7tn in money market funds and all of it getting 5% in interest...maybe that's what giving everyone the confidence to go speculate."

March 10th 2000: Nasdaq bubble peaked; note that semiconductors relative to S&P500 hit the highest level since Mar'00 (Chart 4) over the past few days.

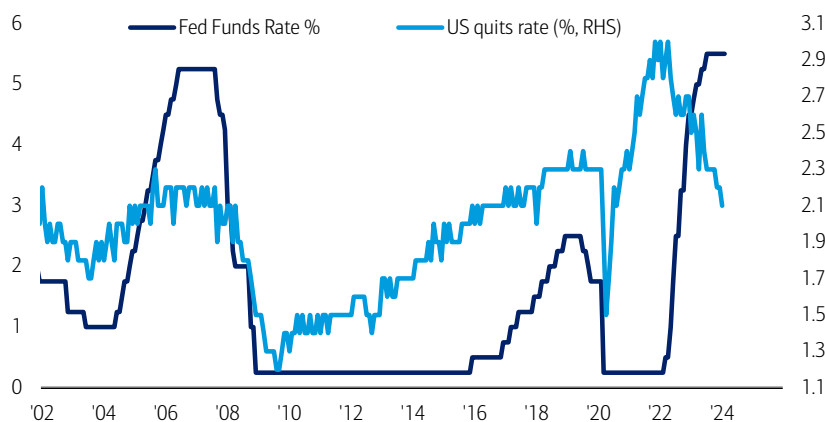
March 9th 2020: 10-year Treasury yield hit 0.3%, all-time low; wars, inflation, deficits...historic bond losses past 4 years (52% for 30-year UST, 67% for 100-year Austria bond); my American wife was once asked "what's the best thing about living in London?"...she replied "Paris"; today: what's the best thing about stocks?...bonds.

March 9th 2023: SVB collapsed & kick-started Silicon Valley bull with aid of \$0.5tn Fed liquidity and AI; while this decade's social, political, geopolitical, fiscal trends are unlike 2010s, the enduring "bromance" of the Fed & Wall St (Chart 5), plus bull leadership of IG bonds & US tech stocks remain like 2010s.

The Biggest Picture: "hard" landing probability (5%) very low vs "soft" (75%) & "no" (20%); yet slumping "quits ratio" (lowest since Jun'20 - Chart 2) consistent with Fed cuts & says "labor market risk" growing; Feb payrolls >225k = no landing, 175-200k soft landing, but <100k likely kick-starts bonds & hard landing price action.

Chart 2: The Fed & the Quitters

Fed Funds rate vs US quits rate



Source: BofA Global Investment Strategy, Bloomberg

BofA GLOBAL RESEARCH

More on page 2...

Trading ideas and investment strategies discussed herein may give rise to significant risk and are not suitable for all investors. Investors should have experience in relevant markets and the financial resources to absorb any losses arising from applying these ideas or strategies.

>> 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.

BofA 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.

12668559

Timestamp: 07 March 2024 10:50PM EST

07 March 2024

Investment Strategy
Global

BofA

Data
Analytics



Michael Hartnett
Investment Strategist
BofAS
+1 646 855 1508
michael.hartnett@bofa.com

Elyas Galou >>
Investment Strategist
BofASE (France)
+33 1 8770 0087
elyas.galou@bofa.com

Anya Shelekhin
Investment Strategist
BofAS
+1 646 855 3753
anya.shelekhin@bofa.com

Myung-Jee Jung
Investment Strategist
BofAS
+1 646 855 0389
myung-jee.jung@bofa.com

Chart 1: BofA Bull & Bear Indicator

Stays at 6.4



Source: BofA Global Investment Strategy The indicator identified above as the BofA Bull & Bear Indicator is intended to be an indicative metric only and may not be used for reference purposes or as a measure of performance for any financial instrument or contract, or otherwise relied upon by third parties for any other purpose, without the prior written consent of BofA Global Research. This indicator was not created to act as a benchmark.

BofA GLOBAL RESEARCH

Weekly Flows: \$32.0bn to cash, \$17.3bn to bonds, \$6.9bn to stocks, \$1.9bn to crypto, \$1.0bn from gold.

Flows to Know:

- Cash: YTD cash inflow annualized suggests a remarkable \$1.4tn;
- Crypto: YTD crypto inflow annualized suggests a record \$40bn (Chart 10);
- IG bonds: largest inflow since Sep'20 (\$13.3bn – Chart 11), YTD inflow annualizing \$523bn;
- Stocks: 7th straight week of inflows (total \$91bn – Chart 14), strongest trend in 2 years;
- Tech: largest outflow ever (\$4.4bn – Chart 12), 1st outflow in 9 weeks;
- Real estate: largest inflow (\$1.2bn – Chart 13) since Jan'22.

BofA Private Clients: \$3.5tn AUM...61.3% stocks, 20.4% bonds, 11.7% cash; private clients favoring cash YTD at expense of T-bills (\$4.1bn outflow past 8 weeks largest since Nov'21 – Chart) & stocks (modest outflow YTD); in ETFs GWIM clients buying REITs, discretionary, financials, and selling staples, low-vol, energy past 4 weeks.

BofA Bull & Bear Indicator: stable at 6.4 as EM debt outflows and S&P500 hedges offset low FMS cash levels.

2020s = 2020s: past 48 months...pandemic, 4.5bn people in lockdown, \$30tn policy stimulus, 40% surge in US nominal GDP, Russia/Ukraine/Israel/Hamas wars, >10% inflation for 2 billion people, US deficit 9% GDP, Japan yen fell to 32-year low, 50% collapse in 30-year Treasury bond, bond bubble...bond pop...tech bubble, "Magnificent 7" 30% of US market cap, first ever decline in China population...2020s are the 2020s & abnormal price action decade-to-date set to remain the norm.

2024: abnormal times, abnormal gains...stocks ferocious +25% in 5 months has happened just 10 times since 1930s, normally such surges occur from recession lows (1938, 1975, 1982, 2009, 2020) or start of bubbles (Jan'99 – Chart 9); stretched & extended we are (semis 36% & NDX 16% >200dma, Mag 7 trailing PE 45x...) but [A Short History of Bubbles](#) shows it can go further (e.g. Nasdaq was 55% >200dma Mar'00, Nifty Fifty trailing PE peaked at 54x in Sep'74 – Chart 15); Fed causes bubbles & Fed pops bubbles and in 2024 Fed's determination to cut rates means "we're not too far from it..."; it paid to be "dogmatic bear" in '22, "pragmatic bear" in '23 (at least until Oct), and "cynical bull" past 5 months into '24, and cynical bulls determined to stay long until day before Fed cuts, until combo of BofA Bull & Bear Indicator >8, 10-year real rates >2½%, SPX trailing PE >25x (currently 23x – Chart 7) says "run-for-the-hills", and only a -ve payroll near-term likely to melt this determination.

Landings & Leanings: hard landing = bust = "buy bonds, sell stocks"; soft landing = bull = "buy stock breadth, trade bonds", no landing = bubble = "sell bonds, barbell stocks with Nasdaq & something distressed" (banks/REITs or speculative tech or China); bonds say soft landing but stock price action YTD leans no landing.

State of the Union: 30-year Treasury, T-bills, oil, stocks, China, Japan, Mexico all assets that got extended under past 2 administrations; 243 days to go until US election...we see simple framework for election...impact on Wall Street is the macro conclusion election winner will draw from result; Biden win scenario = unemployment matters more than inflation...more negative for bonds (Biden has lowest U-rate of any US president – Chart 8); Trump win scenario = inflation more important than unemployment, so positive bonds; note both candidates are tough on China (so buy China just before election), and

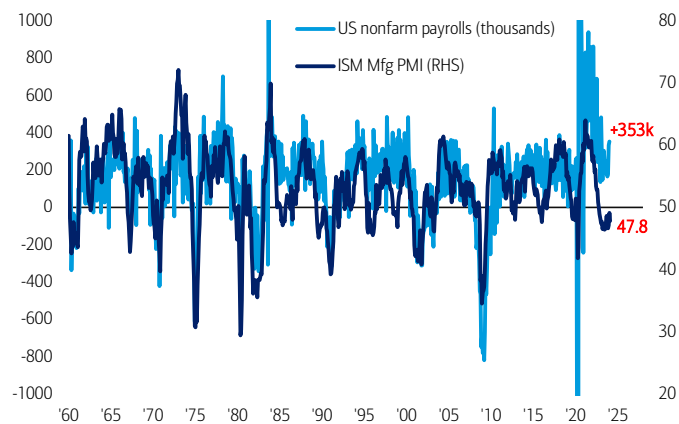
neither likely to campaign on "balancing the budget" (fiscal deficit 7.5% of GDP under Biden, 6.6% under Trump, both biggest since Great Depression/WW2).

Biden & Trump's "Winners" & "Losers": tables 1 & 2 rank returns across assets, equities, sectors, bonds, currencies, and commodities under both Trump (9 Nov'16 - 3 Nov'20) and Biden (4 Nov'20 - today) with highlights for best and worst returns...

- best asset...Biden commodities vs Trump stocks;
- worst asset...Biden govt bonds vs Trump commodities;
- best bond...Biden HY bonds vs Trump 30-year Treasury;
- worst bond...Biden 30-year Treasury vs Trump 3-month T-bills;
- best currency...Biden Mexican peso vs Trump Swiss franc;
- worst currency...Biden Japan yen vs Trump Brazil real;
- best stock market...Biden Mexico vs Trump Taiwan/China/US;
- worst stock market...Biden China vs Trump Mexico;
- best sector...Biden energy vs Trump tech;
- worst sector...Biden real estate vs Trump energy;
- best commodity...Biden oil vs Trump gold;
- worst commodity...Biden silver vs Trump oil.

Chart 3: Payrolls >225k no landing, 175-200k soft, <100k hard

US nonfarm payrolls vs ISM manufacturing PMI



Source: BofA Global Investment Strategy, Bloomberg

BofA GLOBAL RESEARCH

Chart 4: Semis relative to S&P500 just exceeded Mar'00 high

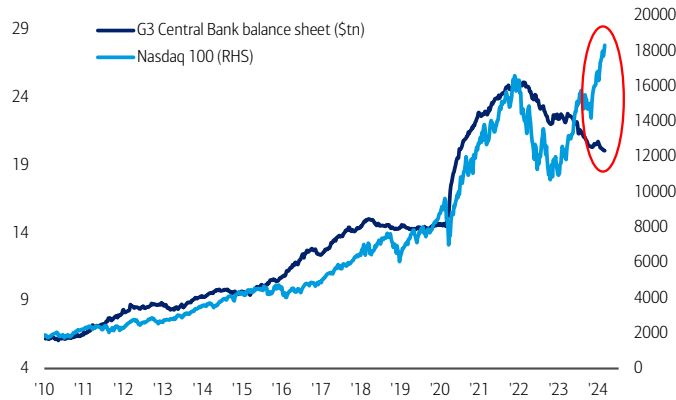
Semiconductors (SOX) vs S&P 500 (price relative)



Source: BofA Global Investment Strategy, Bloomberg

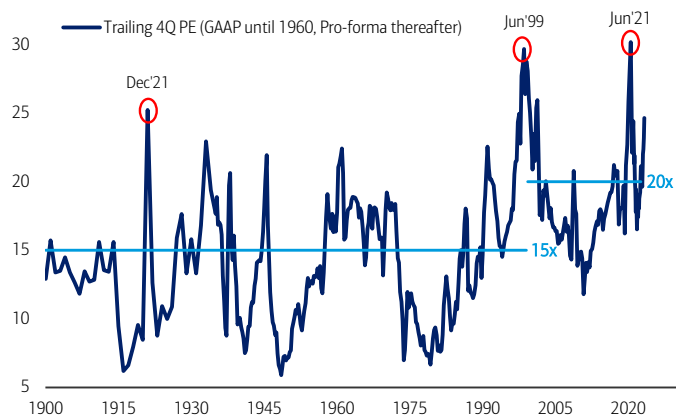
BofA GLOBAL RESEARCH

Chart 5: Enduring “bromance” of the Fed & Wall St
G3 Central Bank balance sheet (\$tn) vs Nasdaq 100



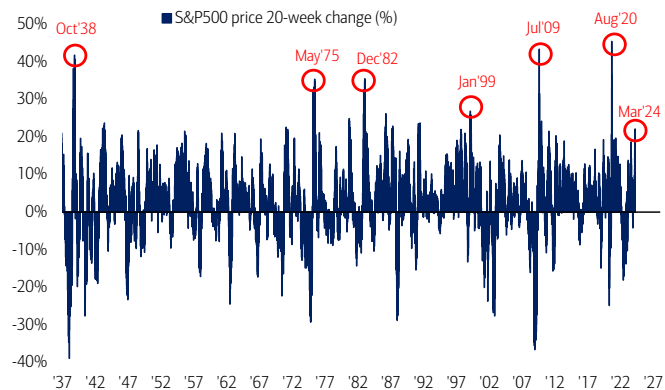
Source: BofA Global Investment Strategy, Bloomberg. G3 central banks = Fed, ECB, BoJ
BofA GLOBAL RESEARCH

Chart 7: Bulls stay long until SPX trailing PE >25x
S&P 500 trailing 4Q P/E



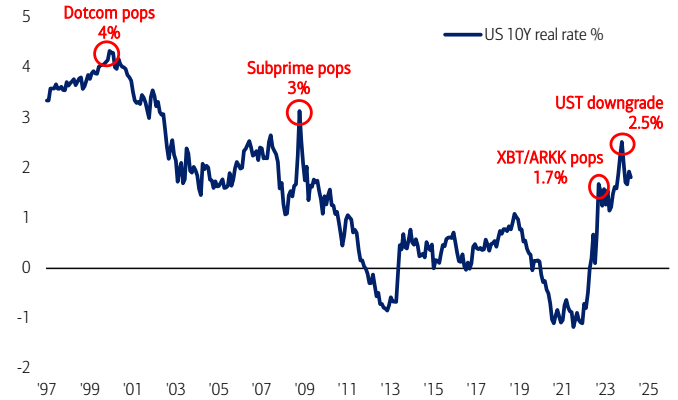
Source: BofA Global Investment Strategy, BofA US Equity & Quant Strategy, Bloomberg
BofA GLOBAL RESEARCH

Chart 9: Stocks +25% in 5mos...has happened 10 times since 1930s
S&P 500 price 20-week change



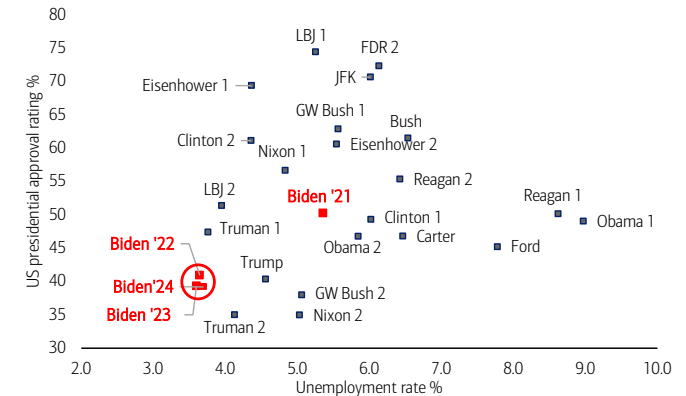
Source: BofA Global Investment Strategy, Bloomberg
BofA GLOBAL RESEARCH

Chart 6: Real rates >2.5% pops the bubble
US 10-year real rate



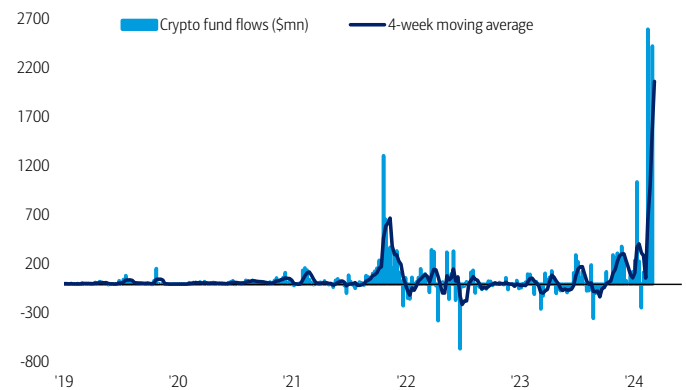
Source: BofA Global Investment Strategy, Bloomberg (GTM10 Govt)
BofA GLOBAL RESEARCH

Chart 8: Biden has lowest U-rate of any US president
US presidential approval rating vs unemployment rate



Source: BofA Global Investment Strategy, Bloomberg
BofA GLOBAL RESEARCH

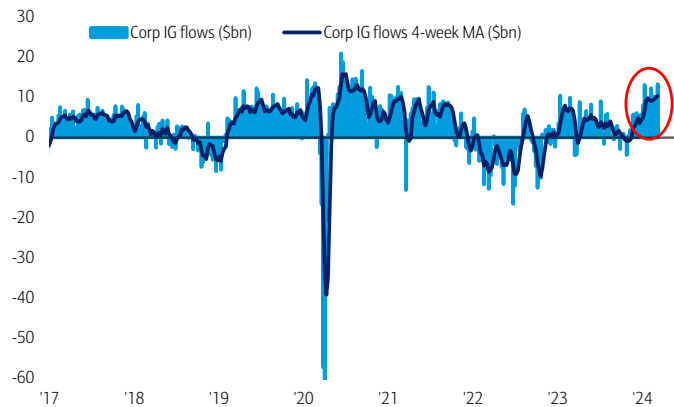
Chart 10: Record 4-week inflow to crypto funds
Crypto fund flows (weekly & 4-week moving average)



Source: BofA Global Investment Strategy, EPFR
BofA GLOBAL RESEARCH

Chart 11: Largest inflow to IG bonds since Sep'20

IG bond fund flows (weekly & 4-week moving average)

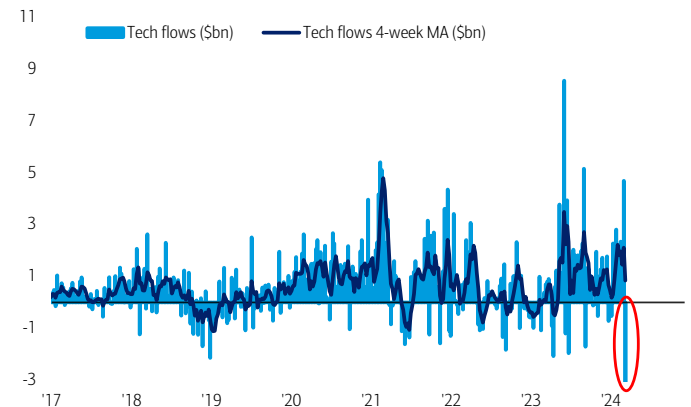


Source: BofA Global Investment Strategy, EPFR

BofA GLOBAL RESEARCH

Chart 12: Largest outflow ever from tech

Tech fund flows (weekly & 4-week moving average)

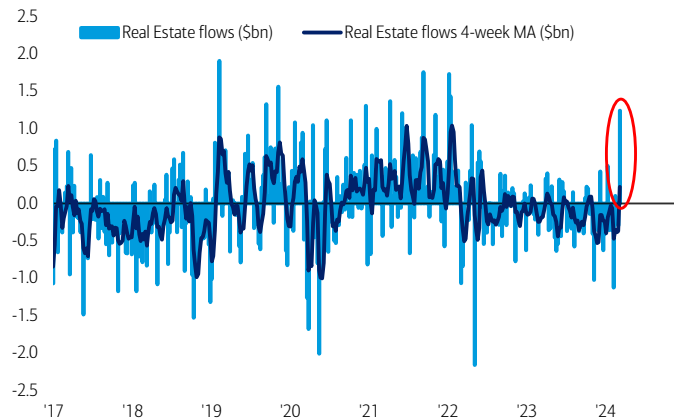


Source: BofA Global Investment Strategy, EPFR

BofA GLOBAL RESEARCH

Chart 13: Largest inflow to real estate since Jan'22

Real estate fund flows (weekly & 4-week moving average)

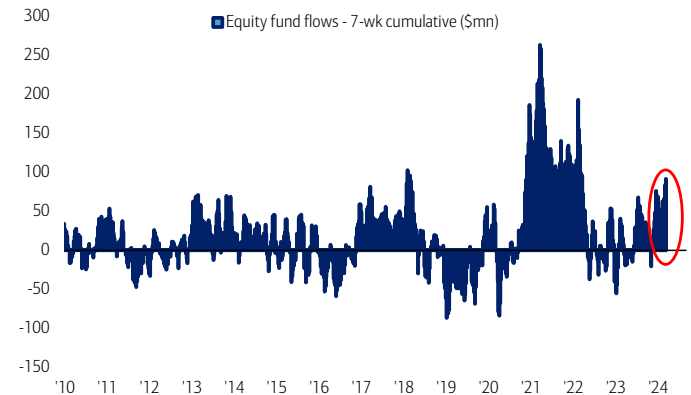


Source: BofA Global Investment Strategy, EPFR

BofA GLOBAL RESEARCH

Chart 14: 7th week of inflows to equities...strongest trend in 2 years

Equity fund flows -7-week cumulative



Source: BofA Global Investment Strategy, EPFR

BofA GLOBAL RESEARCH

Chart 15: A Short History of Bubbles

History and characteristics of bubbles

Bubble	Index	Start	Peak	Trough	Rise	Decline	Velocity	Duration (years)	Peak-to-trough (yrs)	Valuation (P/E)	Bond yield	Policy rate
Mississippi Co.	CAC All-Tradable	7/31/1718	1/31/1720	9/30/1721	2955%	-95%	73%	1.5	1.7	n/a	👉	👉
South Sea Co.	South Sea Co.	2/2/1720	6/25/1720	12/13/1720	707%	-89%	188%	0.4	0.5	n/a	👉	👉
Roaring 20s	Dow Jones	3/30/1926	9/3/1929	7/8/1932	153%	-53%	21%	3.4	2.8	19x	👉	👉
Nifty Fifty	Blue-chip NYSE stocks	9/30/1966	12/31/1972	9/30/1974	153%	-53%	9%	6.3	1.7	54x	👉	👉
Gold	Gold (\$/oz)	4/27/1978	1/21/1980	6/21/1982	428%	-65%	142%	1.7	2.4	n/a	👉	👉
Black Monday	Dow Jones	9/20/1985	8/25/1987	10/20/1987	111%	-41%	21%	1.9	0.2	19x	👉	👉
Japan	Nikkei 225	10/23/1986	12/29/1989	8/19/1992	149%	-64%	12%	3.2	2.6	67x	👉	👉
Dotcom	Nasdaq	9/23/1998	3/10/2000	9/21/2001	192%	-73%	55%	1.5	1.5	65x	👉	👉
Saudi Arabia	Tadaw ul	5/27/2004	2/26/2006	6/18/2007	316%	-67%	28%	1.8	1.3	124x	👉	👉
China	Shanghai	6/6/2005	10/16/2007	10/28/2008	513%	-73%	37%	2.4	1.0	53x	👉	👉
Govt bonds	Negative-yielding debt	7/31/2014	12/11/2020	n/a	+\$18.4tn	-\$18.3tn	33%	6.4	n/a	n/a	👉	👉
Tech Disruptors	ARKK	3/18/2020	2/16/2021	12/28/2022	384%	-82%	62%	0.9	1.9	n/a	👉	👉
FAANG	NYSE FANG	3/18/2020	11/4/2021	11/9/2022	229%	-49%	15%	1.6	1.0	60x	👉	👉
Crypto	Bitcoin	3/13/2020	11/10/2021	11/21/2022	1662%	-78%	49%	1.7	1.0	n/a	👉	👉
Magnificent 7	Magnificent 7	12/28/2022	-	n/a	149%	-	21%	1.2	-	44x	👉	👉

Source: BofA Global Investment Strategy, Frehen (2012), Bloomberg, Global Financial Data, Refinitiv Datastream; velocity: price vs 200dma (%) at peak; valuation: trailing P/E; yield: direction of bond yields 3-6 months prior to peak.

BofA GLOBAL RESEARCH



Table 1: Biden winners & losers

Ranked cross-asset returns during Biden administration

Ranked Returns, USD-terms (Biden administration 4 Nov'20 - today)

Assets		Equities		Sectors		Fixed Income		FX vs. USD		Commodities	
Oil	102.1%	Mexico Equities	105.8%	ACWI Energy	117.6%	CCC HY	25.4%	Mexican peso	24.0%	Commodities	120.9%
US Equities	53.5%	Italy Equities	85.0%	ACWI Info Tech	63.0%	US Corp HY	11.6%	Brazilian real	14.5%	WTI Crude Oil	102.1%
UK Equities	49.6%	India Equities	81.4%	ACWI Banks	51.9%	3-Month Treasury Bills	7.6%	Swiss franc	3.4%	Brent Crude Oil	101.2%
Europe Equities	42.8%	Brazil Equities	59.2%	ACWI Financials	51.3%	European HY	1.0%	Singapore dollar	1.5%	Copper	24.5%
Japan Equities	29.3%	Spain Equities	58.9%	ACWI Industrials	39.8%	2-year Treasury	-1.2%	British pound	-2.0%	Gold	13.8%
Industrial Metals	26.5%	France Equities	57.1%	ACWI Healthcare	21.3%	TIPS	-1.9%	Canadian dollar	-2.8%	Iron Ore	6.9%
Pacific Rim xJapan	19.4%	US Equities	53.5%	ACWI BioTechnology	20.3%	EM Corporate	-3.3%	Euro	-7.0%	Platinum	5.1%
Gold	13.8%	Taiwan Equities	50.6%	ACWI Materials	17.3%	BBB IG	-5.7%	Chinese renminbi	-7.6%	Silver	1.6%
US Dollar	10.7%	UK Equities	49.6%	ACWI Telecoms	8.5%	US Corp IG	-7.6%	NZ dollar	-8.5%		
High Yield Bonds	6.5%	Canada Equities	48.8%	ACWI Consumer Staples	7.9%	US Mortgage Master	-9.2%	Australian dollar	-8.5%		
EM Equities	-0.7%	Australia Equities	40.2%	ACWI Cons. Discretionary	6.7%	EM Sovereign	-9.3%	Taiwanese dollar	-8.8%		
EM Sovereign Bonds	-9.3%	Japan Equities	29.3%	ACWI Utilities	0.0%	Treasury Master	-12.6%	Indian rupee	-9.7%		
Investment Grade Bonds	-9.4%	Germany Equities	24.6%	ACWI Real Estate	-3.6%	German Govt	-23.3%	Norwegian krone	-11.0%		
Government Bonds	-21.3%	Switzerland Equities	21.6%			Non-US IG Government	-27.3%	Swedish krona	-14.7%		
		Singapore Equities	15.0%			UK Govt	-29.4%	Korean won	-14.7%		
		Korea Equities	3.6%			Japan Govt	-33.9%	Japanese yen	-30.0%		
		Hong Kong Equities	-19.3%			30-year Treasury	-38.6%				
		China Equities	-46.0%								

Source: BofA Global Investment Strategy, Bloomberg

BofA GLOBAL RESEARCH

Table 2: Trump winners & losers

Ranked cross-asset returns during Trump administration

Ranked Returns, USD-terms (Trump administration 9 Nov'16 - 3 Nov'20)

Assets		Equities		Sectors		Fixed Income		FX vs. USD		Commodities	
US Equities	71.1%	Taiwan Equities	92.7%	ACWI Info Tech	134.6%	30-year Treasury	40.8%	Taiwanese dollar	9.3%	Iron Ore	63.0%
Gold	50.0%	China Equities	85.4%	ACWI Cons. Discretionary	73.5%	BBB IG	27.3%	Swiss franc	7.9%	Gold	50.0%
EM Equities	42.0%	US Equities	71.1%	ACWI Healthcare	46.0%	US Corp IG	25.8%	Euro	7.4%	Silver	32.4%
Japan Equities	37.1%	Switzerland Equities	56.2%	ACWI Industrials	28.8%	UK Govt	24.8%	British pound	5.3%	Copper	26.1%
Europe Equities	25.4%	Korea Equities	46.9%	ACWI BioTechnology	28.1%	US Corp HY	23.8%	Singapore dollar	2.8%	Natural Gas	13.7%
Pacific Rim xJapan	25.4%	Japan Equities	37.1%	ACWI Materials	25.5%	EM Corporate	22.8%	Swedish krona	2.6%	Commodities	-9.1%
High Yield Bonds	24.3%	France Equities	30.8%	ACWI Telecoms	25.5%	European HY	22.1%	Canadian dollar	2.1%	Platinum	-12.8%
Investment Grade Bonds	22.9%	India Equities	27.9%	ACWI Utilities	25.5%	TIPS	19.2%	Chinese renminbi	1.7%	Brent Crude Oil	-14.3%
EM Sovereign Bonds	18.0%	Italy Equities	27.5%	ACWI Consumer Staples	16.6%	EM Sovereign	18.0%	Korean won	1.3%		
Industrial Metals	17.4%	Australia Equities	27.1%	ACWI Real Estate	5.1%	Treasury Master	17.5%	Japanese yen	1.1%		
Government Bonds	13.4%	Hong Kong Equities	23.5%	ACWI Financials	1.4%	German Govt	14.9%	Mexican peso	-6.0%		
UK Equities	0.2%	Canada Equities	22.7%	ACWI Banks	-12.4%	CCC HY	12.9%	Australian dollar	-6.2%		
US Dollar	-5.0%	Germany Equities	20.3%	ACWI Energy	-44.9%	US Mortgage Master	12.9%	NZ dollar	-8.0%		
Oil	-16.8%	Singapore Equities	11.4%			Non-US IG Government	11.0%	Indian rupee	-10.7%		
		UK Equities	0.2%			2-year Treasury	7.9%	Norwegian krone	-11.1%		
		Spain Equities	-6.2%			3-Month Treasury Bills	5.8%	Brazilian real	-43.9%		
		Brazil Equities	-11.6%			Japan Govt	0.2%				
		Mexico Equities	-18.8%								

Source: BofA Global Investment Strategy, Bloomberg

BofA GLOBAL RESEARCH



Asset Class Flows (Table 3)

Equities: \$6.9bn inflow (\$15.1bn inflow to ETFs, \$8.2bn outflow from mutual funds)

Bonds: inflows past 11 weeks (\$17.3bn)

Precious metals: outflows past 6 weeks (\$1.0bn)

Fixed Income Flows (Chart 16)

IG Bond inflows past 19 weeks (\$13.3bn)

HY Bond inflows resume (\$1.3bn)

EM Debt outflows past 4 weeks (\$1.0bn)

Munis inflows past 9 weeks (\$0.5bn)

Govt/Tsy inflows past 4 weeks (\$3.1bn)

TIPS outflows resume (\$0.6bn)

Bank loan inflows past 2 weeks (\$0.6bn)

Equity Flows (Table 4)

US: outflows resume (\$0.1bn)

Japan: inflows past 8 weeks (\$1.2bn)

Europe: outflows past 10 weeks (\$1.2bn)

EM: inflows resume (\$3.1bn)

By style: inflows **US large cap** (\$2.0bn); **US growth** (\$0.6bn), outflows **US small cap** (\$0.1bn), **US value** (\$2.4bn).

By sector: inflows **materials** (\$2.3bn), **real estate** (\$1.2bn), **hcare** (\$0.5bn), outflows **consumer** (\$0.2bn), **utilities** (\$0.2bn), **energy** (\$0.7bn), **financials** (\$0.7bn), **tech** (\$4.4bn).

Table 3: Cumulative YTD flows by asset class

Global flows by asset class, \$mn

	Wk % AUM	YTD	YTD %AUM
Equities	0.0%	90,964	0.5%
ETFs	0.2%	171,778	1.9%
LO	-0.1%	-80,776	-0.9%
Bonds	0.2%	130,008	1.8%
Commodities	0.1%	83	0.0%
Money-market	0.4%	265,551	3.1%

*week of 03/06/2024: Source: EPFR Global

BofA GLOBAL RESEARCH

Table 4: EM equity inflows outpacing DM equity inflows YTD

Global equity flows by region, \$mn

	Wk % AUM	YTD
Total Equities	0.0%	90,964
long-only funds	-0.1%	-80,776
ETFs	0.2%	171,778
Total EM	0.2%	55,619
Brazil	0.1%	-872
Russia	0.0%	-3
India	1.0%	6,586
China	0.9%	51,991
Total DM	0.0%	35,345
US	0.0%	24,129
Europe	-0.1%	-9,794
Japan	0.1%	8,328
International	0.1%	15,159

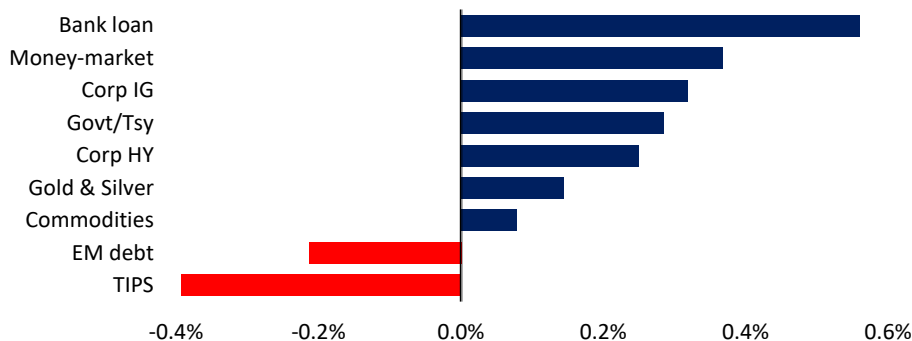
Total Equities = Total EM + Total DM

Source: EPFR Global

BofA GLOBAL RESEARCH

Chart 16: FICC inflows to bank loan, money market, IG bond funds

Weekly FICC flows as a % AUM



Source: EPFR Global

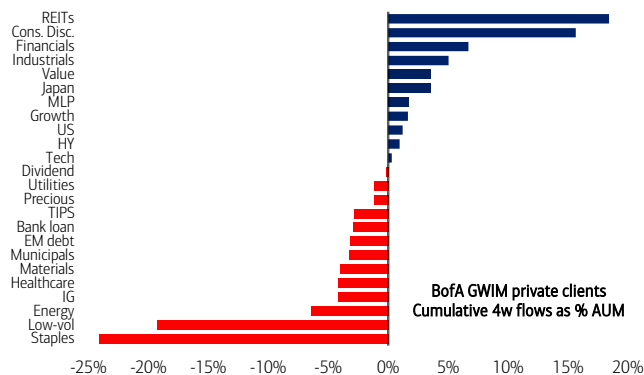
BofA GLOBAL RESEARCH



BofA private client flows & allocations

Chart 17: Private clients bought REITs, consumer, financials

BofA private clients 4-week ETF flows as % of AUM

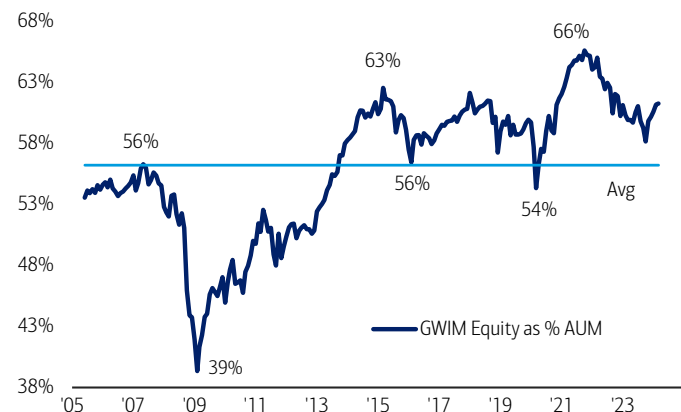


Source: BofA Global investment Strategy

BofA GLOBAL RESEARCH

Chart 18: GWIM equity allocation at 61%

BofA private client equity holdings as % of AUM

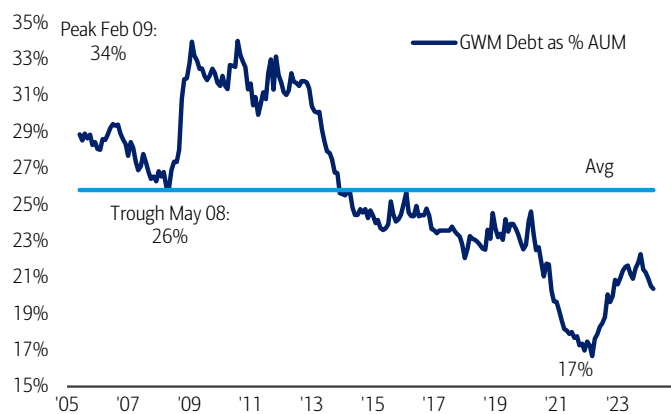


Source: BofA Global investment Strategy

BofA GLOBAL RESEARCH

Chart 19: GWIM debt allocation at 21%

BofA private client debt holdings as % of AUM

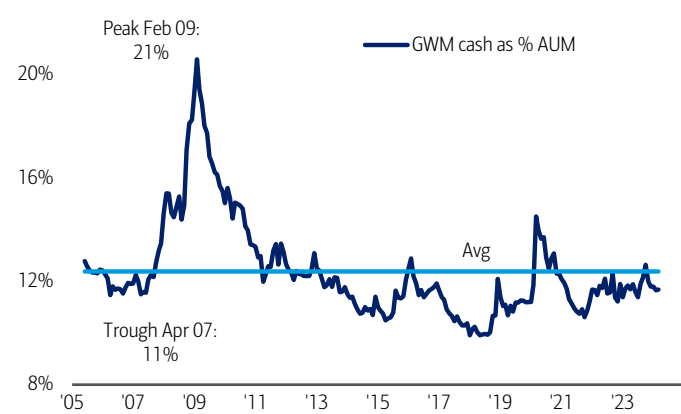


Source: BofA Global Investment Strategy

BofA GLOBAL RESEARCH

Chart 20: GWIM cash allocation vs LT average

BofA private client cash holdings as % of AUM

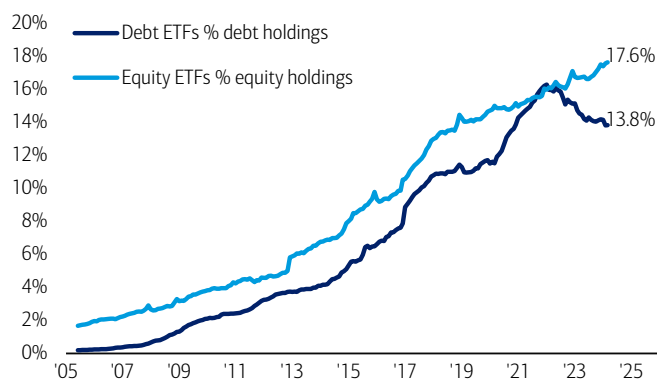


Source: BofA Global Investment Strategy

BofA GLOBAL RESEARCH

Chart 21: GWIM ETF holdings as % of AUM

BofA private client ETF holdings as % of AUM



Source: BofA Global Investment Strategy

BofA GLOBAL RESEARCH

Chart 22: GWIM top 10 stocks for 1-year SPX beta

1-yr S&P 500 beta for top 10 stocks held by BofA private clients



Source: BofA Global Investment Strategy

BofA GLOBAL RESEARCH

The Asset Class Quilt of Total Returns

Chart 23: S&P 500 the best performing asset of 2023, and the best performer thus far of 2024
 Ranked cross asset returns by year since 2000

2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024*
Commodities 58.2%	US Treasuries 6.7%	Commodities 39.5%	MSCI EM 56.3%	REITS 32.0%	MSCI EM 34.5%	REITS 37.5%	MSCI EM 39.8%	US Treasuries 14.0%	MSCI EM 79.0%	Gold 29.2%	US Treasuries 9.8%	REITS 23.8%	S&P 500 32.4%	S&P 500 13.7%	S&P 500 1.4%	Commodities 17.5%	MSCI EM 37.8%	Cash 1.8%	S&P 500 31.5%	Gold 24.8%	Commodities 46.3%	Commodities 31.1%	S&P 500 26.3%	S&P 500 8.4%
US Treasuries 13.4%	Global IG 4.6%	Gold 25.6%	MSCI EAFE 39.2%	Commodities 28.7%	Commodities 33.7%	MSCI EM 32.6%	Commodities 33.0%	Gold 4.3%	Global HY 62.0%	MSCI EM 19.2%	Gold 8.9%	Global HY 19.3%	MSCI EAFE 23.3%	REITS 11.7%	US Treasuries 0.8%	Global HY 14.8%	MSCI EAFE 25.9%	US Treasuries 0.8%	REITS 27.4%	MSCI EM 18.8%	REITS 37.1%	Cash 1.5%	MSCI EAFE 18.9%	Gold 4.6%
REITS 8.5%	Cash 4.4%	Global IG 14.9%	REITS 33.5%	MSCI EM 26.0%	Gold 17.8%	MSCI EAFE 26.9%	Gold 31.9%	Cash 2.1%	MSCI EAFE 32.5%	REITS 15.9%	Global IG 4.5%	MSCI EM 18.6%	Global HY 8.0%	US Treasuries 6.0%	Cash 0.1%	S&P 500 12.0%	S&P 500 22.0%	Gold -1.9%	MSCI EAFE 22.8%	S&P 500 18.4%	S&P 500 28.7%	Gold -0.8%	Global HY 13.4%	Commodities 4.4%
Cash 6.2%	Global HY 3.1%	US Treasuries 11.6%	Commodities 30.1%	MSCI EAFE 20.7%	MSCI EAFE 14.0%	Gold 23.2%	MSCI EAFE 11.6%	Global IG -8.3%	REITS 31.7%	S&P 500 15.1%	Global HY 2.6%	MSCI EAFE 17.9%	REITS 0.7%	Global IG 3.2%	MSCI EAFE -0.8%	MSCI EM 11.2%	Gold 12.9%	Global HY -3.3%	Commodities 20.1%	Global IG 10.3%	MSCI EAFE 11.9%	US Treasuries -12.9%	Gold 12.7%	MSCI EAFE 4.2%
Global IG 3.1%	Gold -0.7%	Cash 1.8%	Global HY 30.7%	Global HY 12.4%	REITS 10.7%	S&P 500 15.8%	US Treasuries 9.1%	Global HY -27.9%	S&P 500 26.5%	Global HY 13.9%	S&P 500 2.1%	S&P 500 16.0%	Global IG 0.1%	Gold 0.1%	REITS -3.4%	Gold 8.6%	REITS 11.5%	Global IG -3.4%	MSCI EM 18.6%	MSCI EAFE 8.4%	Global HY 1.4%	Global HY -13.2%	REITS 11.3%	Global HY 1.0%
Gold -5.4%	MSCI EM -2.4%	Global HY -1.1%	S&P 500 28.7%	S&P 500 10.9%	S&P 500 4.9%	Global HY 13.5%	Global IG 7.3%	S&P 500 -37.0%	Commodities 26.1%	Commodities 13.3%	Cash 0.1%	Global IG 11.1%	Cash 0.1%	Cash 0.0%	Global IG -3.8%	Global IG 4.3%	Global HY 10.2%	REITS -3.9%	Gold 17.9%	US Treasuries 8.2%	Cash 0.0%	MSCI EAFE -13.9%	MSCI EM 10.1%	Cash 0.9%
Global HY -5.8%	REITS -7.8%	REITS -2.4%	Gold 19.9%	Global IG 9.4%	Cash 3.1%	Global IG 7.2%	S&P 500 5.5%	Commodities -42.6%	Gold 25.0%	MSCI EAFE 8.2%	Commodities -2.6%	Gold 8.3%	Commodities -2.1%	Global HY -0.1%	Global HY -4.2%	REITS 1.3%	Global IG 9.3%	S&P 500 -4.3%	Global HY 13.7%	Global HY 8.0%	MSCI EM -2.3%	Global IG -16.7%	Global IG 9.5%	MSCI EM 0.6%
S&P 500 -9.1%	S&P 500 -11.9%	MSCI EM -6.0%	Global IG 14.5%	Gold 4.6%	US Treasuries 2.8%	Cash 4.9%	Cash 5.0%	MSCI EAFE -43.1%	Global IG 19.2%	Global IG 6.0%	REITS -9.4%	US Treasuries 2.2%	MSCI EM -2.3%	MSCI EM -1.8%	Gold -10.4%	US Treasuries 1.1%	Commodities 7.6%	Commodities -13.1%	Global IG 11.4%	Cash 0.5%	US Treasuries -2.4%	S&P 500 -18.1%	Cash 5.1%	US Treasuries -0.6%
MSCI EAFE -14.0%	MSCI EAFE -21.2%	MSCI EAFE -15.7%	US Treasuries 2.3%	US Treasuries 3.5%	Global HY 1.5%	US Treasuries 3.1%	Global HY 3.0%	REITS -50.2%	Cash 0.2%	US Treasuries 5.9%	MSCI EAFE -11.7%	Cash 0.1%	US Treasuries -3.3%	MSCI EAFE -4.5%	MSCI EM -14.9%	MSCI EAFE 1.0%	US Treasuries 2.4%	MSCI EAFE -13.2%	US Treasuries 7.0%	REITS -4.4%	Global IG -3.0%	MSCI EM -19.8%	US Treasuries 3.9%	Global IG -0.8%
MSCI EM -30.6%	Commodities -21.4%	S&P 500 -22.1%	Cash 1.1%	Cash 1.3%	Global IG -3.0%	Commodities -0.2%	REITS -10.0%	MSCI EM -53.2%	US Treasuries -3.7%	Cash 0.1%	MSCI EM -18.2%	Commodities -0.3%	Gold -27.3%	Commodities -29.3%	Commodities -29.4%	Cash 0.3%	Cash 0.8%	MSCI EM -14.3%	Cash 2.2%	Commodities -15.0%	Gold -4.1%	REITS -25.2%	Commodities -3.5%	REITS -1.7%

Source: BofA Global Investment Strategy, Bloomberg. *2024 YTD

BofA GLOBAL RESEARCH

BofA Rules & Tools

Table 5: BofA Global Investment Strategy Proprietary Indicators

Current reading of all BofA Global Investment Strategy Proprietary Indicators

Proprietary Indicators	Category	Current reading	Current signal	Duration of signal
Contrarian				
BofA Bull & Bear Indicator (B&B)	Contrarian	6.4	Neutral	1-3 months
Sell when investor sentiment > 8.0; Buy when investor sentiment < 2.0				
BofA Global FMS Cash Indicator	Contrarian	4.2%	Neutral	4 weeks
Buy when cash at or above 5.0%; Sell when cash at or below 4.0%				
BofA Global Breadth Rule	Contrarian	48.9%	Neutral	3 months
Buy when net 88% of markets in MSCI ACWI trading below 200-day moving & 50-day moving averages				
BofA Global Flow Trading Rule	Contrarian	0.4%	Neutral	8 weeks
Buy when outflows from global equities & HY > 1.0% AUM over 4wks; Sell when inflows > 1.0% AUM over 4wks				
BofA EM Flow Trading Rule	Contrarian	0.4%	Neutral	8 weeks
Buy when outflows from EM equities > 3.0% of AUM; Sell when inflows > 1.5% of AUM over 4 wks				
Macro				
BofA Global EPS Growth Model	Macro	8%	EPS growth rising	6-12 months
Model indicates trend in year-on-year change in 12-month forward global EPS growth.				

 Source: BofA Global Investment Strategy/ For a [guide to our trading models](#)

BofA GLOBAL RESEARCH

BofA Bull & Bear Indicator (B&B)

Our BofA Bull & Bear Indicator is at 6.4 signal is Neutral.

Chart 24: BofA Bull & Bear Indicator

Stays at 6.4

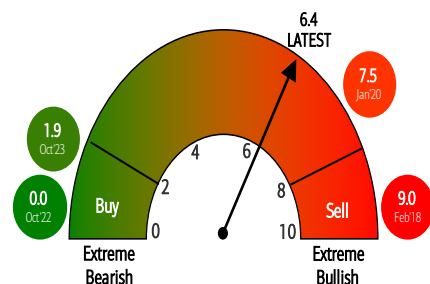

 Source: BofA Global Investment Strategy
BofA GLOBAL RESEARCH

Table 6: Table 5: BofA B&B Indicator

BofA Bull & Bear current component readings

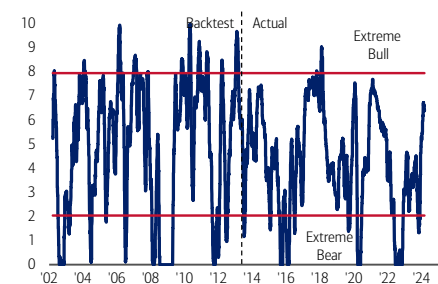
Components	Percentile	Sentiment
HF positioning	45%	Neutral
Credit mkt technicals	69%	Bullish
Equity market breadth	64%	Bullish
Equity flows	95%	V. Bullish
Bond flows	57%	Bullish
LO positioning	38%	Neutral

Source: BofA Global Investment Strategy, Bloomberg, EPFR Global, Lipper FMI, Global FMS, CFTC, MSCI

BofA GLOBAL RESEARCH

Chart 25: BofA Bull & Bear Indicator

BofA Bull & Bear Indicator since 2002



Source: BofA Global Investment Strategy, EPFR Global, FMS, CFTC, MSCI

BofA GLOBAL RESEARCH

Disclaimer: The indicators identified above as the BofA Bull & Bear Indicator, MVP Model, BofA Global Breadth Rule, BofA EM Flow Trading Rule, BofA Global Flow Trading Rule, BofA Global FMS Macro Indicator, BofA Global FMS Cash Rule, Global Wave, Sell-Side Indicator, and Global Financial Stress Indicator are intended to be indicative metrics only and may not be used for reference purposes or as a measure of performance for any financial instrument or contract, or otherwise relied upon by third parties for any other purpose, without the prior written consent of BofA Global Research. These indicators were not created to act as a benchmark.

The analysis of the BofA Bull & Bear Indicator in this report is back-tested and does not represent the actual performance of any account or fund. Back-tested performance depicts the hypothetical back-tested performance of a particular strategy over the time period indicated. In future periods, market and economic conditions will differ and the same strategy will not necessarily produce the same results. No representation is being made that any actual portfolio is likely to have achieved returns similar to those shown herein. In fact, there are frequently sharp differences between back-tested returns and the actual results realized in the actual management of a portfolio. Back-tested performance results are created by applying an investment strategy or methodology to historical data and attempts to give an indication as to how a strategy might have performed during a certain period in the past if the product had been in existence during such time. Back-tested results have inherent limitations including the fact that they are calculated with the full benefit of hindsight, which allows the security selection methodology to be adjusted to maximize the returns. Further, the results shown do not reflect actual trading or the impact that material economic and market factors might have had on a portfolio manager's decision-making under actual circumstances. Back-tested returns do not reflect advisory fees, trading costs, or other fees or expenses.

2024 Cross-Asset Winners & Losers

Table 7: 2024 YTD ranked returns

Year-to-date ranked cross asset returns

Ranked Returns, USD-terms (2024)

Assets		Equities		Sectors		Fixed Income		FX vs. USD		Commodities	
1 US Equities	5.6%	1 Taiwan Equities	9.2%	1 ACWI Info Tech	7.3%	1 CCC HY	2.9%	1 Bitcoin	56.6%	1 Gold	5.4%
2 Japan Equities	5.6%	2 Italy Equities	9.1%	2 ACWI Industrials	6.4%	2 EM Sovereign	1.4%	2 Mexican peso	2.0%	2 Silver	4.8%
3 EM Equities	5.5%	3 China Equities	7.7%	3 ACWI Cons. Discretionary	6.2%	3 European HY	0.9%	3 Swedish krona	0.9%	3 WTI Crude Oil	4.3%
4 Gold	5.4%	4 Korea Equities	7.2%	4 ACWI Banks	4.8%	4 US Corp HY	0.8%	4 Euro	0.8%	4 Brent Crude Oil	1.5%
5 Oil	4.3%	5 US Equities	5.6%	5 ACWI Financials	4.5%	5 EM Corporate	0.6%	5 Indonesian rupiah	0.5%	5 Commodities	0.8%
6 Europe Equities	3.1%	6 Japan Equities	5.6%	6 ACWI Healthcare	3.3%	6 3-Month Treasury Bills	0.5%	6 British pound	0.3%	6 Copper	-0.3%
7 EM Sovereign Bonds	1.4%	7 Germany Equities	5.1%	7 ACWI Materials	3.1%	7 UK Govt	-0.1%	7 Indian rupee	0.3%	7 Platinum	-2.0%
8 UK Equities	1.4%	8 India Equities	4.7%	8 ACWI Energy	3.0%	8 TIPS	-0.1%	8 Brazilian real	0.2%	8 Natural Gas	-8.1%
9 Pacific Rim xJapan	1.3%	9 Greece Equities	4.6%	9 ACWI Telecoms	2.8%	9 30-year Treasury	-0.2%	9 NZ dollar	0.2%		
10 High Yield Bonds	0.9%	10 France Equities	3.6%	10 ACWI Real Estate	2.5%	10 2-year Treasury	-0.3%	10 Singapore dollar	0.1%		
11 Industrial Metals	0.1%	11 Singapore Equities	3.5%	11 ACWI Utilities	1.3%	11 BBB IG	-0.4%	11 Norwegian krone	0.1%		
12 US Dollar	0.1%	12 Canada Equities	2.1%	12 ACWI Consumer Staples	1.1%	12 Treasury Master	-0.5%	12 Korean won	0.0%		
13 Investment Grade Bonds	-0.4%	13 Hong Kong Equities	1.9%	13 ACWI BioTechnology	-1.2%	13 US Corp IG	-0.5%	13 Australian dollar	-0.1%		
14 Government Bonds	-0.6%	14 Spain Equities	1.6%			14 US Mortgage Master	-0.6%	14 Chinese renminbi	-0.4%		
		15 UK Equities	1.4%			15 German Govt	-0.7%	15 Canadian dollar	-0.6%		
		16 Australia Equities	0.8%			16 Non-US IG Government	-0.7%	16 South African rand	-0.8%		
		17 Brazil Equities	0.8%			17 Japan Govt	-1.8%	17 Taiwanese dollar	-0.9%		
		18 Switzerland Equities	-1.4%					18 Japanese yen	-1.6%		
		19 S. Africa Equities	-1.8%					19 Swiss franc	-2.3%		
		20 Mexico Equities	-2.3%					20 Turkish lira	-4.5%		
		21 Turkey Equities	-3.1%								
		22 Portugal Equities	-4.0%								

Source: BofA Global Investment Strategy, Bloomberg, as of 6 Mar 2024.

BofA GLOBAL RESEARCH

Table 8: The Overbought & Oversold

Ranked deviation from 200-day moving averages in US dollar terms

Ranked Deviation from 200-Day Moving Average, USD-terms

Assets		Equities		Sectors		Fixed Income		FX vs. USD		Commodities	
1 Japan Equities	14.6%	1 Italy Equities	16.7%	1 ACWI Info Tech	17.8%	1 CCC HY	8.1%	1 Swedish krona	3.5%	1 Gold	9.4%
2 US Equities	12.8%	2 Taiwan Equities	16.3%	2 ACWI Banks	12.7%	2 EM Sovereign	5.7%	2 Mexican peso	2.1%	2 Silver	3.9%
3 Gold	9.0%	3 India Equities	15.7%	3 ACWI Financials	12.5%	3 US Corp HY	5.5%	3 Norwegian krone	1.3%	3 Copper	2.2%
4 Europe Equities	8.8%	4 Japan Equities	14.6%	4 ACWI Industrials	12.4%	4 European HY	5.2%	4 British pound	1.2%	4 WTI Crude Oil	1.4%
5 High Yield Bonds	5.9%	5 Greece Equities	13.7%	5 ACWI Telecoms	9.6%	5 BBB IG	4.6%	5 NZ dollar	0.9%	5 Brent Crude Oil	0.7%
6 EM Sov Bonds	5.7%	6 US Equities	12.8%	6 ACWI Cons. Discretionary	7.9%	6 EM Corporate	4.4%	6 Euro	0.6%	6 Iron Ore	0.0%
7 EM Equities	5.1%	7 Germany Equities	10.0%	7 ACWI Healthcare	7.7%	7 US Corp IG	4.1%	7 Singapore dollar	0.6%	7 Platinum	-1.3%
8 Pacific Rim xJapan	4.9%	8 Australia Equities	9.1%	8 ACWI BioTechnology	6.1%	8 UK Govt	3.5%	8 Chinese renminbi	0.2%	8 Natural Gas	-26.6%
9 UK Equities	4.7%	9 France Equities	8.5%	9 ACWI Materials	4.3%	9 US Mortgage Master	2.8%	9 Indian rupee	0.1%		
10 Investment Grade Bonds	4.1%	10 Canada Equities	8.4%	10 ACWI Energy	3.2%	10 30-year Treasury	2.6%	10 Swiss franc	0.1%		
11 Industrial Metals	2.2%	11 Spain Equities	7.7%	11 ACWI Consumer Staples	1.9%	11 TIPS	2.4%	11 Australian dollar	0.1%		
12 Government Bonds	1.8%	12 Mexico Equities	5.7%	12 ACWI Utilities	1.6%	12 Treasury Master	2.3%	12 Russian ruble	0.0%		
13 Oil	1.4%	13 Brazil Equities	5.6%	13 ACWI Real Estate	0.0%	13 3-Month Treasury Bills	2.0%	13 Taiwanese dollar	-0.1%		
14 US Dollar	-0.3%	14 UK Equities	4.7%			14 German Govt	1.8%	14 Canadian dollar	-0.3%		
		15 Korea Equities	4.5%			15 2-year Treasury	1.7%	15 South African rand	-0.4%		
		16 Switzerland Equities	3.5%			16 Non-US IG Government	1.4%	16 Brazilian real	-0.6%		
		17 Singapore Equities	3.0%			17 Japan Govt	-0.4%	17 Korean won	-1.3%		
		18 Turkey Equities	2.6%					18 Indonesian rupiah	-1.8%		
		19 Russia Equities	0.0%					19 Japanese yen	-2.2%		
		20 S. Africa Equities	-0.3%					20 Turkish lira	-12.1%		
		21 Portugal Equities	-4.9%					21 Argentine peso	-44.2%		
		22 China Equities	-6.2%								
		23 Hong Kong Equities	-7.6%								

Source: BofA Global Investment Strategy, Bloomberg, as of 6 Mar 2024.

BofA GLOBAL RESEARCH



Acronyms

FMS – Fund Manager Survey
 GWIM – Global Wealth and Investment Management
 MMF – Money Market Fund
 YCC – Yield Curve Control
 QE – Quantitative Easing
 QT – Quantitative Tightening
 S&L – Savings & Loan
 FCI – Financial conditions index
 AUM – Assets Under Management
 U-rate – unemployment rate
 n.b. – “nota bene”...Latin for “pay attention to”

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 ^{R1}
Buy	≥ 10%	≤ 70%
Neutral	≥ 0%	≤ 30%
Underperform	N/A	≥ 20%

^{R1} 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.

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.

Due to the nature of strategic analysis, the issuers or securities recommended or discussed in this report are not continuously followed. Accordingly, investors must regard this report as providing stand-alone analysis and should not expect continuing analysis or additional reports relating to such issuers and/or securities.

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

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.

This report may refer to fixed income securities or other financial instruments that may not be offered or sold in one or more states or jurisdictions, or to certain categories of investors, including retail investors. Readers of this report are advised that any discussion, recommendation or other mention of such instruments is not a solicitation or offer to transact in such instruments. Investors should contact their BofA Securities representative or Merrill Global Wealth Management financial advisor for information relating to such instruments.

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. BofA's share capital can be found at www.bofam.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 (HKSF); Merrill Lynch (Singapore): Merrill Lynch (Singapore) Pte Ltd, regulated by the Monetary Authority of Singapore (MAS); Merrill Lynch (Canada): Merrill Lynch Canada Inc, regulated by the Canadian Investment Regulatory Organization; Merrill Lynch (Mexico): Merrill Lynch Mexico, SA de CV, Casa de Bolsa, regulated by the Comisión Nacional Bancaria y de Valores; Merrill Lynch (Argentina): Merrill Lynch Argentina SA, regulated by Comisión Nacional de Valores; BofA 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; BofA 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 BofA (France), which is authorized by the ACPR and regulated by the ACPR and the AMF; has been considered and distributed in Japan by BofA 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 HKSF; is issued and distributed in Taiwan by Merrill Lynch (Taiwan); is issued and distributed in India by BofA 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 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 BofA (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 BofA 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. BofA and/or MLPF&S is the distributor of this information in the US and accepts full responsibility for information distributed to BofA 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 BofA 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.

BofA or one of its affiliates is a regular issuer of traded financial instruments linked to securities that may have been recommended in this report. BofA 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 BofA for the provision of research services for a separate fee, and in connection therewith BofA may be deemed to be acting as an investment adviser, such status relates, if at all, solely to the person with whom BofA has contracted directly and does not extend beyond the delivery of this report (unless otherwise agreed specifically in writing by BofA). If such recipient uses the services of BofA in connection with the sale or purchase of a security referred to herein, BofA may act as principal for its own account or as agent for another person. BofA 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 2024 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 information. Facts and views presented in this material that relate to any such proceedings have not been reviewed by, discussed with, and may not reflect information known to, professionals in other business areas of BofA Securities in connection with the legal proceedings or matters relevant to such proceedings.

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.