

Latam Equity Quant

After 2 years of waiting, outflows stopped

Investment Strategy

Key takeaways

- Outflows from local equity funds stopped in Brazil. We continue to see a slowdown in outflows from local hedge funds.
- Key to watch if inflows pick up in the future as rates move lower.
- We continue to see foreign outflows from B3 in 2024 (R\$27bn outflows).

Last week in numbers

Performance of the week. Ibov -0.4%, Mexbol flat, SPX +0.4%, EM +0.3%, oil flat and iron ore +2.2% (USD terms).

Materials and financials are the main drags for Ibovespa this year. YTD, Ibov -6% (USD terms, total return). Energy outperformed YTD (+3%) thanks to oil (+8%). Main drags are materials (-12%, as iron ore -17%) and financials -7% (as Bradesco -20%).

SPX touching new highs. After reaching new highs in Dec-23, SPX continue to rally: +8% YTD (total return). This week, our US strategy team revised SPX year-end forecast from 5000 to 5400 (see: <u>S&P 500 Target Update</u>). US performance is not just Magnificent 7. S&P500 equal weight is up 4% YTD (total return).

Meanwhile in LatAm, investors are in standby mode. Appetite for risk taking in Latin America appears limited as investors wait for a clear picture on the beginning of the monetary easing cycle in the US (see: The LatAm Feedbeker). We still think a June cut remains likely (see: Federal Reserve Watch).

Ibov ex-commodities trades at 11% discount vs hist (vs 5% discount at the start of 2024, Exhibit 3). Mexbol now trades at 6% discount vs historicals (Exhibit 7).

Outflows from BZ equity funds stopped. Flows were flat last week compared to -R\$0.6bn/week in the last 6M (Exhibit 8). Local hedge funds had R\$4.7bn inflows but if we remove 5 outlier funds, it would be -R\$1.5bn net outflows (vs -R\$2.1bn/week in the last 6M, Exhibit 9). For more details see Flows to Know.

Foreigners continue to withdraw from BZ local exchange (B3): -R\$1.7bn this week (-R\$2.7bn/week on avg YTD, Exhibit 11). In fact, we saw R\$27bn outflows from foreigners in BZ local exchange YTD, mostly redeemed from cash equities.

US\$3bn inflows into EM this week, (Exhibit 13). YTD, EM equity funds had US\$55bn inflows, with almost all flows going into China.

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

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 14 to 16.

12668452

08 March 2024

Investment Strategy Latin America

David Beker >> Bz Econ/FI & LatAm EQ Strategy Merrill Lynch (Brazil) +55 11 2188 4371 david.beker@bofa.com

Paula Andrea Soto, CFA >> LatAm Equity Strategist Merrill Lynch (Brazil) +55 11 2188 4226 paula.soto@bofa.com

Carlos Peyrelongue >> Research Analyst Merrill Lynch (Mexico) +52 55 5201 3276 carlos.peyrelongue@bofa.com

Mateus Conceicao >> LatAm Equity Strategist Merrill Lynch (Brazil) +55 11 2188 4201 mateus.conceicao@bofa.com

Exhibit 1: LatAm Earnings Revision Ratio

Earnings Revision Ratio = #Up Revisions / #Down Revisions. Brazil ERR at 0.9. Sector details in Exhibit 22.

LatAm countries	Dec-23	Jan-24
Argentina	1.2	1.2
Brazil	0.9	1.0
Chile	0.9	1.0
Colombia	0.6	0.3
Mexico	0.8	1.0
Peru	0.4	0.6
LatAm	0.8	0.9

Source: BofA Global Research, Factset, Bloomberg BofA GLOBAL RESEARCH

B7 = Brazil

EM = Emergent Markets

ERR = Earnings Revision Ratio

LatAm valuation

Exhibit 2: Ibovespa P/E ratio (12m fwd)

Trading at 1 Std Dev below historical average, mostly driven by commodities.

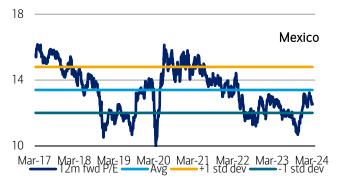


Source: BofA Global Research, Bloomberg

BofA GLOBAL RESEARCH

Exhibit 4: Mexbol P/E ratio, Mar-17 to Mar-24

Trading at 7% discount vs hist.



Source: BofA Global Research, Bloomberg

BofA GLOBAL RESEARCH

Exhibit 6: Colcap P/E ratio, Mar-17 to Mar-24

Trading more than 1 Std Dev below historical average.

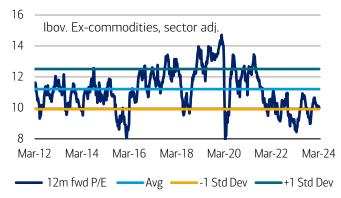


Source: BofA Global Research, Bloomberg

BofA GLOBAL RESEARCH

Exhibit 3: Ibovespa P/E ratio (12m fwd, sector adjusted ex. commodities)

Ibov ex-commodities at 11% discount vs hist.



Note: Sector weights were adjusted and kept constant through time.

Source: BofA Global Research, Bloomberg

BofA GLOBAL RESEARCH

Exhibit 5: IPSA P/E ratio, Mar-17 to Mar-24

Trading 1 Std Dev below historical average.



Source: BofA Global Research, Bloomberg

BofA GLOBAL RESEARCH

Exhibit 7: Valuation summary

Brazil 24% discounted vs hist.

Country	Index	Current	Average	Std. Dev	Prem. to Hist	Prem. to EM*
Brazil	Ibov	8.1	10.6	2.7	-24%	-35%
BZ Ex-commod	l.	10.0	11.2	11.2	-11%	-16%
Mexico	Mexbol	12.5	13.4	1.4	-6%	6%
Chile	lpsa	9.8	12.5	3.4	-22%	-17%
Peru	SPBLPGPT	11.9	12.1	2.6	-2%	6%
Colombia	Colcap	6.8	9.9	2.7	-32%	-50%
Argentina	Merval	7.9	9.7	2.9	-18%	-38%
EM	MXEF	11.9	12.2	1.2	-2%	

Source: BofA Global Research, Bloomberg

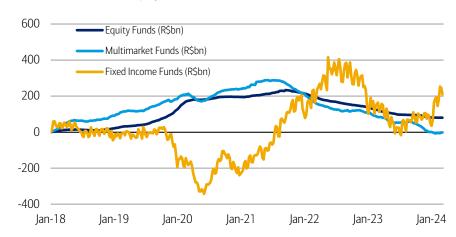


Flows & Positioning

Brazil flows

Exhibit 8: Cumulative flows into Brazil local fixed income, equity funds and local multimarket (hedge) funds (R\$bn)

R\$57bn outflows from local equity funds in 2023.



Source: BofA Global Research, Economatica

BofA GLOBAL RESEARCH

Exhibit 9: Equity and Multimarket funds weekly flows (R\$mn) (Brazil local funds)

R\$57bn outflows from local equity funds in 2023.

Fund type (R\$ mn)	AUM	5-Jan	12-Jan	19-Jan	26-Jan	2-Feb	9-Feb	16-Feb	23-Feb	1-Mar	8-Mar*	2024	2023	2022
Free Portfolio	256,912	-1,144	-483	638	830	135	-22	-311	207	-198	-203	-551	-35,568	-42,836
Closed-end Funds	130,473	-272	34	37	16	100	21	0	17	420	-42	330	373	2,377
Index Enhanced	42,194	-669	-383	-10	-54	-256	-230	-77	-45	91	-8	-1,640	-11,081	-16,714
Value / Growth	18,114	-86	-30	56	179	-111	84	12	55	-1	-71	88	-4,634	-6,745
FMP - FGTS	12,708	-25	-29	-41	-27	-49	-33	-15	-43	-31	-8	-300	-1,269	4,462
Dividends	11,936	-77	-6	-69	19	23	27	2	-21	68	9	-25	-2,658	-434
Sector	10,406	-10	-16	-12	-9	-5	-12	0	-25	-6	3	-90	420	-1,860
Indexed	10,663	115	43	-32	82	62	3	35	-84	-53	24	194	-2,045	-2,932
Small Caps	5,544	-33	-8	-4	-16	-101	-20	-11	-5	30	-18	-186	-453	-2,243
Single Stocks	11,045	-1	0	-16	-41	6	62	32	37	38	2	119	-967	-2,225
Sustainability / Governance	40	0	0	-9	0	0	0	0	0	0	0	-11	0	-366
Foreign Investments	156,442	867	257	2	46	112	163	56	-109	-37	-6	1,351	21,794	-18,740
Equity Funds (Total)	666,477	-1,335	-622	539	1,026	-83	43	-276	-16	319	-318	-723	-36,088	-88,257
Equity Funds (Total ex. Foreign Invest.)	366,855	-1,905	-883	542	991	-246	-109	-317	118	-32	-261	-2,103	-56,986	-76,355
Free Portfolio	859,923	1.711	-2,356	-2,735	-1.753	1,826	4,378	-285	-166	5.806	-119	6,308	-36,493	-69,300
Foreign Investments	795,870	-1,408	-995	-768	-2,218	377	-3,734	-1,638	-2,267	1.791	-188	-11.047	-69,450	-22,102
Macro	231,083	-1,284	-478	-128	-604	-763	-1,435	-1,286	-619	-974	-448	-8,018	-61,875	-14,754
Dynamic	43,981	-105	-124	-134	-138	-337	-271	-305	-341	-153	13	-1.897	-7,210	-16,130
Specific Strategy	76,368	-25	254	-5	90	106	156	91	475	17	68	1.228	2.110	-2,279
Long/Short Directional	7,218	-121	1	-27	50	-12	-19	-61	-12	8	8	-185	-2.555	-3,384
Balanced / Mixed	12,104	42	-12	-20	11	-70	95	-3	-28	-37	-3	-24	-1,065	-54
Trading	3,005	0	-1	-10	-11	3	-1	-3	-14	2	0	-34	-625	-1,154
Long/Short Neutral	2,284	-12	-3	-2	0	0	-1	-5	-12	-4	-4	-43	-381	-527
Protected Capital	770	0	0	-13	0	-14	0	0	0	-15	0	-43	73	-196
Multimarket Funds (Total)	2,032,605	-1,201	-3,714	-3,839	-4,574	1,117	-832	-3,495	-2,984	6,442	-675	-13,756	-177,471	-129,878
Multimarket Funds (Total ex. Foreign Invest.)	1,236,735	207	-2,718	-3.072	-2.356	739	2,902	-1.857	-716	4,651	-488	-2.708	-108.022	-107,777

(*) Preliminary data, up to Wednesday.

Source: Economatica

Exhibit 10: Fixed Income funds weekly flows (R\$bn) (Brazil local funds)

Brazil local fixed income funds had R\$176bn inflows YTD

Fund type	AUM	9-Feb	16-Feb	23-Feb	1-Mar	8-Mar*	YTD
Short Duration Inv. Grade	1,060	2.4	8.6	4.7	5.1	-1.9	28.6
Short Duration Sovereign	940	29.1	21.8	-21.2	-26.3	9.8	71.7
All Duration Credit	386	3.5	2.7	3.5	0.5	3.1	22.6
All Duration Inv. Grade	776	-2.2	9.0	7.5	0.4	-2.9	20.4
All Duration Sovereign	239	0.9	3.7	-2.2	-0.6	-0.9	6.1
Simple	374	5.1	12.9	-1.0	-12.8	1.5	24.7
Other	500	0.8	9.4	1.8	-2.1	0.3	10.1
Fixed Income (Total)	4.260	40	59	-7	-36	9	176
Ex. Foreign Invest.	4,260	40	29	-/	-30	9	1/6

(*) Preliminary data, up to Wednesday.

Source: Economatica

BofA GLOBAL RESEARCH BofA GLOBAL RESEARCH

Exhibit 11: Foreign flow to B3 (R\$bn), Apr-23 to Mar-24

Foreign flows into BZ local exchange (B3) had R\$27bn outflows YTD.

Month	Futures	Cash	IPO/follow-on	TOTAL
Apr-23	3	3	1	6
May-23	-6	-4	0	-10
Jun-23	-7	10	4	7
Jul-23	3	7	3	13
Aug-23	-3	-13	3	-13
Sep-23	10	-2	0	8
Oct-23	5	-3	0	2
Nov-23	9	21	0	30
Dec-23	-7	17	0	11
Jan-24	-5	-8	1	-12
Feb-24	-3	-9	0	-12
Mar-24	-1	-1	0	-2
12M Cumulative	-1	18	11	28
2024 YTD	-9	-19	1	-27
2023	2	45	13	60
2022	-2	101	17	116

Source: B3, Bloomberg

BofA GLOBAL RESEARCH

Global flows

Exhibit 12: Cumulative flows into EM equity funds (US\$bn), 2018-2024 EM equity funds had US\$55bn inflows YTD.



BofA GLOBAL RESEARCH

Exhibit 13: Weekly flows to LatAm and EM funds (US\$mn)

EM inflows YTD went almost entirely into China.

		%		%		%
		Current	4	Current		Current
Region	Week	Assets	Weeks	Assets	YTD	Assets
LatAm	(68)	-0.6%	(254)	-2.1%	(425)	-3.5%
Brazil	10	0.1%	(530)	-3.2%	(872)	-5.2%
Mexico	86	0.9%	254	2.7%	(47)	-0.5%
Andean	(0)	0.0%	(6)	-0.2%	(139)	-4.3%
LatAmTotal	29	0.1%	(529)	-1.3%	(1,432)	-3.4%
China	4,153	0.3%	8,062	0.5%	53,932	3.3%
EM Total	3,055	0.2%	7,457	0.5%	55,619	3.4%

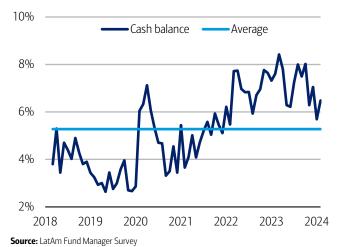
Source: EPFR



LatAm positioning

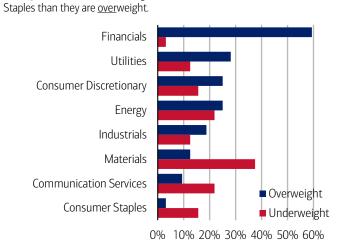
Exhibit 14: Average cash position (2018-2024)

Cash levels increased to 6.5% in Feb-24, vs 5.7% last month



BofA GLOBAL RESEARCH

Exhibit 15: Which sectors among equities are you most <u>under</u>**weight?** Participants are more <u>under</u>weight Materials, Communication Services and C.



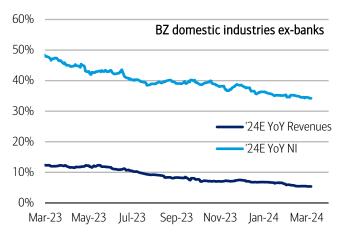
Source: LatAm Fund Manager Survey



Consensus Earnings Revisions for Brazil

Exhibit 16: Brazil domestic industries: consensus revised NI downwards but still expected at 34% YoY growth

Brazil domestic industries (ex-banks) revenues vs NI consensus estimates (2024E YoY growth).



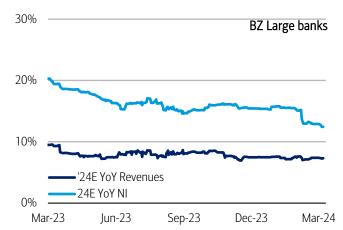
Consensus estimates.

Source: Bloomberg, BofA Global Research

BofA GLOBAL RESEARCH

Exhibit 17: Brazil Banks: consensus revised NI downwards since Jan-23, but still expected at +12% YoY for 2024.

BZ large banks revenues vs NI consensus estimates (2024 YoY growth).



Consensus estimates.

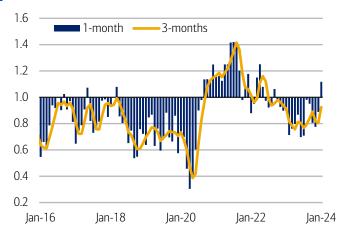
Source: Bloomberg, BofA Global Research

Earnings Revision Ratio (ERR)

The Earnings Revision Ratio measures the number of revisions for which the consensus EPS estimate has risen versus the number for which it has fallen.

An ERR above 1 means more upwards revisions than downwards revisions. However, historically analysts tend to start overly optimistic and do more downwards revisions down the line. As a result, the overall historical average of the 3-month ERR is close to 0.8

Exhibit 19: LatAm Earnings Revision Ratio (Jan 16-Jan 24) 3-month ERR at 0.9 in Jan-24.

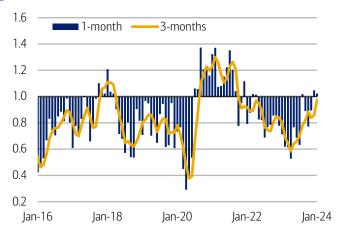


Source: BofA Global Research, Factset, Bloomberg

BofA GLOBAL RESEARCH

Exhibit 21: Brazil Earnings Revision Ratio (Jan 16-Jan 24)

Brazil 3-month ERR nearing to 1 in Jan-24.



Source: BofA Global Research, Factset, Bloomberg

BofA GLOBAL RESEARCH

Exhibit 18: LatAm 3-month ERR - country details

Brazil 3-month ERR at 0.9 in Jan-24.

LatAm countries	12m Avg	Nov-23	Dec-23	Jan-24	1M Chg in 3M ERR
Argentina	2.5	1.1	1.2	1.2	0.01
Brazil	0.8	0.8	0.9	1.0	0.11
Chile	0.8	1.0	0.9	1.0	0.02
Colombia	0.6	0.6	0.6	0.3	-0.22
Mexico	0.9	0.8	0.8	1.0	0.19
Peru	0.7	0.4	0.4	0.6	0.26
LatAm	0.8	0.8	8.0	0.9	0.12

Source: BofA Global Research, Factset, Bloomberg

BofA GLOBAL RESEARCH

1M Chain

Exhibit 20: LatAm 3-month ERR - sector details

IT shows the highest ERR (2.2).

						IM Cng in
La	atAm sectors	12m Avg	Nov-23	Dec-23	Jan-24	3M ERR
C.	Discretionary	0.8	0.9	0.8	0.8	-0.01
C.	Staples	0.8	0.8	1.0	1.0	0.00
Er	nergy	0.9	1.1	1.0	0.7	-0.27
Fi	nancials	1.3	1.1	1.0	1.1	0.13
Н	ealth Care	0.7	0.6	0.6	0.7	0.04
In	dustrials	0.8	0.7	0.8	0.9	0.12
IT		1.3	1.5	1.9	2.2	0.39
M	aterials	0.6	0.5	0.5	0.7	0.25
Re	eal Estate	1.2	1.6	1.8	2.1	0.25
Cc	mmunication	0.8	1.0	1.0	1.4	0.33
Ut	tilities	1.1	1.5	1.5	1.2	-0.24
La	ıtAm	8.0	0.8	8.0	0.9	0.12

Source: BofA Global Research, Factset, Bloomberg

BofA GLOBAL RESEARCH

Exhibit 22: Brazil 3-month ERR - sector details

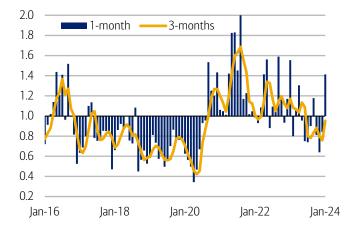
Communication and IT show highest ERR in December.

Brazil sectors	12m Avg	Nov-23	Dec-23	Jan-24	1M Chg in 3M ERR
C. Discretionary	0.6	0.9	0.8	0.7	-0.08
C. Staples	0.6	0.6	0.8	1.0	0.23
Energy	0.9	1.2	1.1	0.8	-0.29
Financials	1.2	1.2	1.1	1.2	0.12
Health Care	0.6	0.5	0.6	0.6	0.02
Industrials	0.7	0.7	0.7	0.8	0.07
IT	1.5	1.8	2.4	2.9	0.53
Materials	0.5	0.5	0.5	0.8	0.27
Real Estate	2.3	8.0	4.5	1.8	-2.75
Communication	3.8	4.8	4.3	3.7	-0.62
Utilities	1.1	1.5	1.5	1.3	-0.24
Brazil	0.8	0.8	0.9	1.0	0.11

Source: BofA Global Research, Factset, Bloomberg

Exhibit 23: Mexico Earnings Revision Ratio (Jan 16-Jan 24)

Mexico 3-month ERR at 1 in Jan-24.



Source: BofA Global Research, Factset, Bloomberg

BofA GLOBAL RESEARCH

Exhibit 24: Mexico 3-month ERR - sector details

Financials has the highest ERR in Mexico (2.1 in Jan-24).

Mexico					1M Chg in
sectors	12m Avg	Nov-23	Dec-23	Jan-24	3M ERR
C. Discretionary	1.0	0.5	0.6	0.6	0.03
C. Staples	1.1	1.2	1.4	1.0	-0.43
Energy	NA	NA	NA	NA	NA
Financials	2.2	1.9	1.6	2.1	0.54
Health Care	NA	NA	NA	NA	NA
Industrials	0.8	0.7	0.7	0.9	0.21
IT	NA	NA	NA	NA	NA
Materials	8.0	0.6	0.5	8.0	0.28
Real Estate	0.9	0.8	1.1	1.7	0.58
Communication	0.4	0.3	0.1	0.1	-0.04
Utilities	NA	NA	NA	NA	NA
Mexico	0.9	0.8	0.8	1.0	0.19

Source: BofA Global Research, Factset, Bloomberg

BofA GLOBAL RESEARCH

ERR methodology

The Earnings Revision Ratio (ERR) is calculated as follows: ERR = #Up Revisions / #Down Revisions, where:

Up Revisions = All instances when an analyst revises an estimate up. # Down Revisions = All instances when an analyst revises an estimate down.

We look at 1-Month and 3-Month ERRs; the former may anticipate market turns, while the latter is less volatile. Each company may contribute more than once as the total number of analyst revisions are considered. A company covered by several analysts will have a higher weight in the ratio.

The considered universe is composed of all companies within our current LatAm Coverage countries (Argentina, Brazil, Chile, Colombia, Mexico and Peru). A company will be included in the sample if at least one of the following variables is listed as one of said countries: country of risk, country of incorporation, country of registration, country of Headquarters, and country of top revenue. Panama's Copa Holdings is the only exception to the rule and was also added to the sample. Number of companies with at least one revision in the last 12 months: Argentina: 35, Brazil: 185, Chile: 37, Colombia: 20, Mexico: 106, Peru: 19.



Stock screens

Exhibit 25: Value screen

Within this screen, utilities and retail have the best performance YTD.

Company	Country	Industry	BBG Ticker	BofA Ticker	P/E 2023E	P/E 2024E	Net Debt/EBITDA	30D Performance (local crncy)	YTD Performance (local crncy)
Petrobras PN	BZ	Oils	PETR4 BZ	PTRBF	4.3	4.5	0.8	-3%	8%
Petro-Rio	BZ	Oil & Gas Producers	PRIO3 BZ	HRTPF	7.1	5.1	1.1	-1%	-6%
Сора	CO	Airlines	CPA US	CPA	6.2	5.5	0.7	0%	-6%
Vale ON	BZ	Non-Ferrous-Mining	VALE3 BZ	VALEF	5.3	5.7	0.5	0%	-14%
Ternium	MX	Steels	TX US	TX	5.3	5.8	-0.5	3%	-8%
Ecopetrol	CO	Oil & Gas Producers	ECOPETL CB	XESSF	5.5	6.0	1.6	-11%	-11%
Sanepar	BZ	Water Utilities	SAPR11 BZ	XJALF	6.2	6.4	1.6	-6%	-11%
COPASA	BZ	Water Utilities	CSMG3 BZ	CSAOF	6.0	6.6	1.4	-2%	2%
Cemig	BZ	Electric Utilities	CMIG4 BZ	CEMCF	5.3	6.7	1.1	3%	3%
Gerdau	BZ	Steels	GGBR4 BZ	GGBUF	7.4	7.4	0.5	-3%	-11%
SQM	CL	Fertilizers	SQM US	SQM	10.0	7.7	0.7	15%	-22%
Liverpool Puerto	MX	Retailing-Broadline/Department Stores	LIVEPOLC MM	ELPQF	8.7	8.1	0.4	4%	14%
CPFL Energia	BZ	Electric Utilities	CPFE3 BZ	XPFGF	7.8	8.4	1.5	-6%	-11%
Danhos	MX	REITs	DANHOS13 MM	GRFFF	9.0	9.2	1.9	-3%	-4%
GMexico	MX	Non-Ferrous-Mining	GMEXICOB MM	GMBXF	12.0	9.2	0.4	-6%	-11%
Usiminas	BZ	Steels	USIM5 BZ	USSPF	11.7	9.3	0.0	15%	14%
AMX	MX	Telecom Services-Wireless/Cellular	AMXB MM	AMXVF	11.3	9.6	2.0	4%	2%
Prom y Oper Infra	MX	Toll Road Operators	PINFRA* MM	PYOIF	10.6	10.1	-0.9	1%	-1%
M. Dias Branco	BZ	Food Processors	MDIA3 BZ	XDMIF	11.1	10.5	0.2	5%	5%
Soriana	MX	Supermarkets/Food Retailers	SORIANAB MM	ONZBF	12.0	10.6	1.3	-4%	-8%
Median								0%	-6%

Source: BofA Global Research, Bloomberg.

Stocks are selected from our LatAm universe of coverage regardless of the rating. Stocks must have at least 5y of trading. Screen criteria: Mkt Cap>US\$1bn. 2021E and 2022E fwd P/E ratio below MSCI LatAm median P/E. Net Debt/EBITDA <2 (this condition is ignored for Financials). If results exceed 20 companies, those with the lowest 2022E P/E ratio are selected. Fundamental ratings are not part of the screening criteria. This screen is not a recommended list either individually or as a group of stocks. Investors should consider the fundamentals of the companies and their own individual circumstances/objectives before making any investment decision. Fundamental ratings are not part of the screening criteria.

BofA GLOBAL RESEARCH

Exhibit 26: Growth screen

Many traditional retail and e-commerce names in this screen.

				BofA	P/E	Div. Yield	30D Performance	YTD Performance
Company	Country	Industry	BBG Ticker	Ticker	2024E	2023E	(local crncy)	(local crncy)
Magazine Luiza	BZ	Retailing-Hardlines	MGLU3 BZ	MGZZF	70.3	0%	0%	-5%
Mercado Libre	BZ	Internet/e-Commerce	MELI US	MELI	32.1	0%	-11%	-3%
DASA	BZ	Healthcare Technology & Distribution	DASA3 BZ	DIAOF	31.5	0%	1%	-20%
WEG	BZ	Industrials/Multi-Industry	WEGE3 BZ	WGSEF	25.6	2%	11%	0%
Natura	BZ	Cosmetics/Personal Care	NTCO3 BZ	XZVAF	25.3	0%	1%	2%
Raia Drogasil	BZ	Drug Store Chains	RADL3 BZ	RAIAF	23.4	1%	3%	-12%
Brasil Foods	BZ	Food Processors	BRFS3 BZ	BRFFF	20.6	2%	10%	19%
Vesta	MX	Real Estate/Property	VESTA* MM	VESTF	20.0	2%	-4%	-8%
Eneva	BZ	Electric Utilities	ENEV3 BZ	XZUMF	19.5	1%	-5%	-10%
TOTVS	BZ	Server & Enterprise Software	TOTS3 BZ	XBEGF	19.0	1%	-7%	-11%
Rumo Logistica	BZ	Rail Transport/Railroads	RAIL3 BZ	RUMOF	18.8	0%	-2%	-4%
Falabella	CL	Retailing-Broadline/Department Stores	FALAB CI	XDIYF	17.0	1%	6%	10%
Omega Geração	BZ	Renewable Energy	SRNA3 BZ	XZQAF	16.5	1%	-12%	-18%
Energisa	BZ	Utilities-Other	ENGI11 BZ	XLXGF	16.3	2%	-4%	-6%
Dexco	BZ	Forest Products	DXCO3 BZ	DURXF	16.0	2%	-1%	-5%
Alpargatas	BZ	Footwear	ALPA4 BZ	SRDDF	15.7	0%	17%	-5%
Localiza	BZ	Car Rental	RENT3 BZ	LZRFF	15.5	2%	1%	-16%
Bimbo	MX	Bakers	BIMBOA MM	GRBMF	15.3	2%	-12%	-16%
Banco Macro	AR	Banks-Retail	BMA US	BMA	15.0	3%	24%	40%
PARAUCO	CL	Real Estate/Property	PARAUCO CI	XNNJF	14.2	2%	4%	6%
Median							0%	-5%

Source: BofA Global Research, Bloomberg

Stocks are selected from our LatAm universe of coverage regardless of the rating. Stocks must have at least 5y of trading. Screen criteria: Mkt Cap>US\$1bn. 2021E and 2022E fwd P/E ratio above MSCI LatAm median P/E. Dividend yield (2022E) below MSCI LatAm dividend yield. If results exceed 20 companies, those with the highest 2022E P/E ratio are selected. Fundamental ratings are not part of the screening criteria. This screen is not a recommended list either individually or as a group of stocks. Investors should consider the fundamentals of the companies and their own individual circumstances/objectives before making any investment decision.



Exhibit 27: High dividend screenThis screen encompasses many utilities, banks and commodities.

				BofA	Div. Yield	30D Performance	YTD Performance
Company	Country	Industry	BBG Ticker	Ticker	2023E	(local crncy)	(local crncy)
Petrobras PN	BZ	Oils	PETR4 BZ	PTRBF	20.6	-3%	8%
Ecopetrol	CO	Oil & Gas Producers	ECOPETL CB	XESSF	12.0	-11%	-11%
Bradespar	BZ	Non-Ferrous-Mining	BRAP4 BZ	BRDQF	11.3	-7%	-19%
BanColombia	CO	Banks-Multinational/Universal	PFBCOLO CB	XAFFF	10.6	5%	10%
Danhos	MX	REITs	DANHOS13 MM	GRFFF	10.4	-3%	-4%
BB Seguridade	BZ	Insurance - Multi-line	BBSE3 BZ	XBDPF	10.3	-7%	-2%
Banco do Brasil	BZ	Banks-Retail	BBAS3 BZ	XBBAF	9.6	-2%	5%
CPFL Energia	BZ	Electric Utilities	CPFE3 BZ	XPFGF	9.1	-6%	-11%
Fibra Uno	MX	REITs	FUNO11 MM	FBASF	8.9	1%	-2%
Vale ON	BZ	Non-Ferrous-Mining	VALE3 BZ	VALEF	8.6	0%	-14%
Banrisul	BZ	Banks-Retail	BRSR6 BZ	XGRBF	8.4	3%	12%
TAESA	BZ	Electric Utilities	TAEE11 BZ	XTAEF	8.3	-3%	-8%
SQM	CL	Fertilizers	SQM US	SQM	8.0	15%	-22%
Trans Paulista	BZ	Electric Utilities	TRPL4 BZ	XOOTF	8.0	-8%	-7%
Auren Energia	BZ	Electric Utilities	AURE3 BZ	XZMXF	7.9	-6%	-9%
Cemig	BZ	Electric Utilities	CMIG4 BZ	CEMCF	7.8	3%	3%
Itau Unibanco	BZ	Banks-Multinational/Universal	ITUB4 BZ	ITUBF	7.7	-3%	-1%
Banorte	MX	Banks-Retail	GFNORTEO MM	GBOOF	7.5	-5%	3%
COPASA	BZ	Water Utilities	CSMG3 BZ	CSAOF	7.4	-2%	2%
Banco de Chile	CL	Banks-Retail	CHILE CI	XHNDF	7.3	4%	9%
Median						-3%	-2%

Source: BofA Global Research, Bloomberg

Stocks are selected from our LatAm universe of coverage regardless of the rating. Stocks must have at least 5y of trading. Screen criteria: Mkt Cap>US\$1bn. Dividend yield

(2022E) above MSCI LatAm dividend yield. If results exceed 20 companies, those with the highest dividend yield are selected. Fundamental ratings are not part of the screening criteria. This screen is not a recommended list either individually or as a group of stocks. Investors should consider the fundamentals of the companies and their own individual circumstances/objectives before making any investment decision. BofA GLOBAL RESEARCH

Exhibit 28: Defensive screen

Many bond proxies, Utilities, Soft Drinks and Telecom.

Company	Country	Industry	BBG Ticker	BofA Ticker	Beta	Net Debt/EBITDA	30D Performance (local crncy)	YTD Performance (local crncy)
Soriana	MX	Supermarkets/Food Retailers	SORIANAB MM	ONZBF	0.2	1.3	-4%	-8%
Danhos	MX	REITs	DANHOS13 MM	GRFFF	0.4	1.9	-3%	-4%
BB Seguridade	BZ	Insurance - Multi-line	BBSE3 BZ	XBDPF	0.4	NA	-7%	-2%
Auren Energia	BZ	Electric Utilities	AURE3 BZ	XZMXF	0.4	1.9	-6%	-9%
Chedraui	MX	Supermarkets/Food Retailers	CHDRAUIB MM	GCHEF	0.4	1.5	11%	30%
Grupo Financiero Galicia	AR	Banks-Retail	GGAL US	GGAL	0.4	NA	11%	33%
TIM	BZ	Telecom Services-Wireless/Cellular	TIMS3 BZ	XZUAF	0.5	0.9	2%	4%
Coca-Cola Andina	CL	Soft Drinks	ANDINAB CI	AKOBF	0.5	1.6	7%	16%
Banco Macro	AR	Banks-Retail	BMA US	BMA	0.5	NA	24%	40%
Vivo	BZ	Telecom Equipment-Wireless/Cellular	VIVT3 BZ	XCPTF	0.5	0.7	-2%	-2%
Qualitas	MX	Insurance - Non-Life	Q* MM	QUCOF	0.5	NA	3%	16%
AmBev	BZ	Brewers	ABEV3 BZ	AVBPF	0.5	-0.5	-4%	-8%
Grupo BMV	MX	Other Financials	BOLSAA MM	BOMXF	0.5	NA	6%	6%
Сора	CO	Airlines	CPA US	CPA	0.5	0.7	0%	-6%
Gruma	MX	Food Producers	GRUMAB MM	GPAGF	0.5	1.6	-6%	-4%
Sanepar	BZ	Water Utilities	SAPR11 BZ	XJALF	0.5	1.6	-6%	-11%
Liverpool Puerto	MX	Retailing-Broadline/Department Stores	LIVEPOLC MM	ELPQF	0.5	0.4	4%	14%
Banco de Chile	CL	Banks-Retail	CHILE CI	XHNDF	0.6	NA	4%	9%
Arca	MX	Soft Drinks	AC* MM	EMBVF	0.6	0.6	-6%	-3%
CPFL Energia	BZ	Electric Utilities	CPFE3 BZ	XPFGF	0.6	1.5	-6%	-11%
Median							-1%	-2%

Source: BofA Global Research, Bloomberg

Stocks are selected from our LatAm universe of coverage regardless of the rating. Stocks must have at least 5y of trading. Screen criteria: Mkt Cap>US\$1bn. Net Debt/EBITDA <2 (this condition is ignored for

Beta relative to the local index <0.9. If results exceed 20 companies, those with the lowest beta are selected. Fundamental ratings are not part of the screening criteria.

This screen is not a recommended list either individually or as a group of stocks. Investors should consider the fundamentals of the companies and their own individual circumstances/objectives before making any investment decision.

BofA GLOBAL RESEARCH



10

Exhibit 29: High Beta screen

Several Banks and Retail names in this screen.

Company	Country	Industry	BBG Ticker	BofA Ticker	Beta	Net Debt/EBITDA	Performance (local crncy)	Performance (local crncy)
Cemex	MX	Building Materials	CX US	CX	2.0	2.3	-9%	2%
Banco inter	BZ	Banks-Retail	INTR US	INTR	1.9	NA	13%	8%
Televisa	MX	Cable TV	TLEVICPO MM	GRPFF	1.6	2.6	-3%	-8%
Banco Pan	BZ	Banks-Retail	BPAN4 BZ	XQSFF	1.6	NA	3%	1%
B3 SA	BZ	Financial Services-Consumer/Commercial	B3SA3 BZ	XIMAF	1.6	NA	-7%	-15%
Ecorodovias	BZ	Toll Road Operators	ECOR3 BZ	XVEDF	1.6	3.7	2%	-4%
Cogna	BZ	Education & Training Services	COGN3 BZ	KROTF	1.6	3.4	7%	-22%
Estacio	BZ	Education & Training Services	YDUQ3 BZ	ECPCF	1.5	2.4	14%	-3%
CSN	BZ	Steels	CSNA3 BZ	SIDHF	1.4	3.0	-12%	-19%
BTG Pactual	BZ	Banks-Retail	BPAC11 BZ	XNXCF	1.4	NA	-5%	-5%
GFInbursa	MX	Banks-Retail	GFINBURO MM	GPFOF	1.4	NA	-4%	10%
Cosan	BZ	Energy Commodities	CSAN3 BZ	CSAIF	1.4	3.2	-13%	-17%
Brasil Foods	BZ	Food Processors	BRFS3 BZ	BRFFF	1.3	3.9	10%	19%
DASA	BZ	Healthcare Technology & Distribution	DASA3 BZ	DIAOF	1.3	5.0	1%	-20%
Localiza	BZ	Car Rental	RENT3 BZ	LZRFF	1.3	3.6	1%	-16%
Credicorp	PE	Banks-Retail	BAP US	BAP	1.3	NA	14%	17%
Embraer	BZ	Aerospace	ERJ US	ERJ	1.3	2.3	21%	16%
Dexco	BZ	Forest Products	DXCO3 BZ	DURXF	1.2	4.0	-1%	-5%
BanColombia	CO	Banks-Multinational/Universal	PFBCOLO CB	XAFFF	1.2	NA	5%	10%
Aliansce	BZ	Real Estate/Property	ALOS3 BZ	XADSF	1.1	4.0	-1%	-9%
Median							1%	-5%

Source: BofA Global Research, Bloomberg

Stocks are selected from our LatAm universe of coverage regardless of the rating. Stocks must have at least 5y of trading. Screen criteria: Mkt Cap>US\$1bn. Net Debt/EBITDA > 2 (this condition is ignored for Financials). Beta relative to the local index > 1.1. If results exceed 20 companies, those with the highest beta are selected. Fundamental ratings are not part of the screening criteria.

This screen is not a recommended list either individually or as a group of stocks. Investors should consider the fundamentals of the companies and their own individual circumstances/objectives before making any investment decision. Fundamental ratings are shown only for information and are not part of the screening criteria

BofA GLOBAL RESEARCH

YTD

30D

Exhibit 30: List of stocks within our coverage most discounted to historicals

Many retailers and financials in this screen.

Company	Country	Industry	BBG Ticker	BofA Ticker	Discount to hist.	Current Valuation	10-Year Avg. Valuation	Net Debt/EBITDA		YTD Performance (local crncy)
Cogna	BZ	Education	COGN3 BZ	KROTF	-91%	12.5	134.7	3.4	7%	-22%
Televisa	MX	Cable TV	TLEVICPO MM	GRPFF	-86%	1.3	9.5	2.6	-3%	-8%
Eneva	BZ	Electric Utilities	ENEV3 BZ	XZUMF	-79%	9.6	45.9	4.9	-5%	-10%
Omega Geração	BZ	Renewable Energy	SRNA3 BZ	XZQAF	-78%	16.5	74.8	6.6	-12%	-18%
Rumo Logistica	BZ	Rail Transport/Railroads	RAIL3 BZ	RUMOF	-74%	18.8	72.1	2.3	-2%	-4%
Embraer	BZ	Aerospace	ERJ US	ERJ	-64%	9.5	26.7	2.3	21%	16%
Ecorodovias	BZ	Toll Road Operators	ECOR3 BZ	XVEDF	-50%	7.3	14.7	3.7	2%	-4%
Bradesco	BZ	Banks-Retail	BBDC4 BZ	BRDPF	-50%	0.9	1.8	NA	-17%	-19%
BanColombia	CO	Banks-Multinational	PFBCOLO CB	XAFFF	-48%	0.8	1.6	NA	5%	10%
Cielo	BZ	Financial Services	CIEL3 BZ	CIOXF	-44%	7.2	12.9	NA	2%	14%
Banrisul	BZ	Banks-Retail	BRSR6 BZ	XGRBF	-40%	0.6	1.0	NA	3%	12%
BB Seguridade	BZ	Insurance - Multi-line	BBSE3 BZ	XBDPF	-39%	7.9	12.9	NA	-7%	-2%
Gentera	MX	Banks-Retail	GENTERA* MM	CMPRF	-39%	1.6	2.6	NA	7%	10%
Cencosud	CL	Retailing-Broadline	CENCOSUD CI	XCSCF	-38%	5.8	9.5	3.4	1%	1%
Cemex	MX	Building Materials	CX US	CX	-36%	5.2	8.1	2.3	-9%	2%
Fibra Uno	MX	REITs	FUNO11 MM	FBASF	-35%	9.1	13.9	6.4	1%	-2%
BTG Pactual	BZ	Banks-Retail	BPAC11 BZ	XNXCF	-34%	14.0	21.2	NA	-5%	-5%
GFInbursa	MX	Banks-Retail	GFINBURO MM	GPFOF	-34%	9.3	14.1	NA	-4%	10%
COPEC	CL	Paper Products	COPEC CI	PZDCF	-33%	6.5	9.6	5.2	4%	-2%
Brasil Foods	BZ	Food Processors	BRFS3 BZ	BRFFF	-32%	6.1	9.0	3.9	10%	19%
Median									1%	-2%

Source: BofA Global Research, Bloomberg

Stocks are selected from our LatAm universe of coverage regardless of the rating. Stocks must have at least 5y of trading. Screen criteria: Mkt Cap>US\$1bn. Net Debt/EBITDA <2 (this condition is ignored for Financials). Valuation ratio < 10y hist avg (or longest available). Valuation ratios are chosen according to a company's sector: for Materials, Energy, Airlines and C. Staples EV/EBITDA is used; for Retail EV/Sales is used; for Financials Price/Book Value is used. For remaining sectors Price/Earnings is used. If results exceed 20 companies, those with the greatest discounts to historicals are selected.

This screen is not a recommended list either individually or as a group of stocks. Investors should consider the fundamentals of the companies and their own individual circumstances/objectives before making any investment decision. Fundamental ratings are shown only for information and are not part of the screening criteria



Stock screens methodology

Our monthly screens are a quantitative approach for monitoring performance across several investment strategies. The screens are generated through a quantitative process, using consensus projections and historical data. There are two main steps to the selection process: filtering and ranking. For each screening process, filter criteria is applied first, then resulting assets are ranked according to the core variable for each strategy. Each month, we select and rank the 20 stocks that best fit the screen criteria. The stocks are selected from our universe of coverage in LatAm regardless of the rating but must have a market cap above US\$1bn.

There are 5 different screens: Growth, Value, Dividends, Defensive and High Beta. Our Growth screen looks for companies with high projected growth that reinvests free cash flow. Our Value screen looks for companies with low or moderate leverage that are trading at a discounted valuation. The Dividends screen looks for companies with high dividend yields, supported by low moderate leverage. Defensive screen looks for assets with solid performance and lowest volatility while High beta screen looks for market-dependent assets with high leverage and volatility. We also provide a list of stocks within our coverage that are most discounted to historicals.





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	Ratings dispersion guidelines for coverage cluster ^R			
	rating)				

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

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 Prudential 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 (Hong Kong): Merr (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 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; 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): Merrill Lynch (DIFC): Merrill Lynch (DIFC): Merrill Lynch (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



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.

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, 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 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 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.

