

Airlines

BofA Seat Tracker: SAVE lowers capacity starting in May

Industry Overview

BofA Seat Tracker tracks weekly changes in capacity

In this report, we track weekly system changes by carrier and outline monthly capacity by domestic, Europe, Latin America, and Asia Pacific regions. We also include changes in the Canadian market on a regional basis.

SAVE lowers capacity each month beginning in May

In the latest schedule update, SAVE lowered capacity growth each month beginning in May. While summer months saw around 400bps of system capacity reductions, May cuts were the most significant, lowered by 790bps. While cuts were seen across SAVE's network, Latin America flying saw a greater share of the reduction, coming down by about 800bps each month. Domestic cuts this summer were more modest at around 300bps each month, but May domestic capacity was reduced by 800bps.

DAL modestly lowers Atlantic capacity beginning in May

DAL modestly lowered Atlantic capacity by 140bps each month beginning in May. Cuts appear broad across the region. DAL partners across the Atlantic (Air France, KLM, and Virgin Atlantic) also lowered capacity by a collective 20bps over the same period. Cuts were not related to service adjustments to Tel Aviv.

WestJet responds to Lynx ceasing operations

Canada domestic system capacity fell by around 500bps each month beginning in April as Lynx Air capacity is removed from the market after last week's cessation of operations. As of last week, Lynx's capacity contributed 455bps to Canada domestic capacity from April to October. This week, WestJet responded by raising domestic capacity each month from March to August, with the greatest adds seen from June to August at around 140bps per month.

Exhibit 1: System capacity changes versus prior week

SAVE lowered capacity each month from May

			Change vs. P	rior Week		
_	Mar 2024	Apr 2024	May 2024	Jun 2024	Jul 2024	Aug 2024
System						
DAL	0.0%	0.0%	-0.2%	-0.5%	-0.5%	-0.5%
AAL	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%
UAL	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%
LUV	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
ALK	0.0%	0.1%	0.6%	0.4%	0.0%	0.0%
JBLU	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%
HA	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
SAVE	0.1%	0.0%	-7.9%	-4.7%	-4.1%	-3.9%
ALGT	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
ULCC	-0.1%	0.0%	1.1%	1.9%	1.9%	146.3%
SNCY	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%
System Total	-0.1%	-0.2%	-0.4%	-0.3%	-0.3%	0.9%
Source: OAG						

BofA GLOBAL RESEARCH

04 March 2024

Equity **United States** Airlines

Andrew G. Didora, CFA Research Analyst +1 646 855 2924 andrew.didora@bofa.com

Samuel Clough Research Analyst BofAS +1 646 855 5193 samuel.clough@bofa.com

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 6 to 7. 12666993

Exhibit 2: US airline capacity changes vs prior week and monthly capacity growth DAL lowered Atlantic capacity each month beginning in May

			Change vs.	Prior Week	(Current Capacity Growth YoY						
	Mar 2024	Apr 2024		Jun 2024	Jul 2024	Aug 2024	Mar 2024	Apr 2024		Jun 2024	Jul 2024	Aug 2024
System												
DAL	0.0%	0.0%	-0.2%	-0.5%	-0.5%	-0.5%	5.7%	7.5%	7.4%	8.3%	7.7%	8.8%
\AL	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	7.7%	8.2%	11.3%	7.8%	7.6%	6.1%
JAL	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	8.6%	8.7%	8.9%	6.2%	8.5%	5.8%
LUV	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	13.0%	8.4%	5.4%	12.2%	7.8%	1.1%
ALK	0.0%	0.1%	0.6%	0.4%	0.0%	0.0%	6.1%	3.0%	7.3%	9.1%	6.7%	1.5%
BLU	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	-3.1%	-3.8%	-4.1%	-0.1%	-0.2%	-1.0%
ΗA	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	3.2%	-0.4%	3.8%	7.4%	6.5%	6.6%
SAVE	0.1%	0.0%	-7.9%	-4.7%	-4.1%	-3.9%	5.7%	0.9%	-1.9%	4.9%	8.6%	-79.2%
ALGT	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	1.4%	-11.7%	1.6%	7.2%	5.9%	7.0%
JLCC	-0.1%	0.0%	1.1%	1.9%	1.9%	146.3%	10.0%	12.8%	13.7%	15.2%	12.9%	8.4%
SNCY	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	20.2%	15.6%	22.5%	10.3%	8.8%	15.3%
System Total	-0.1%	-0.2%	-0.4%	-0.3%	-0.3%	0.9%	9.0%	9.0%	9.2%	8.5%	8.4%	4.7%
JS Domestic	211,70	0.270	31175	0.070	7.0 /	0.0 /	2.0 /.0	2.0 /0	J /J	0.0 /0	0.170	,0
)AL	0.0%	0.0%	0.2%	-0.3%	-0.2%	-0.2%	0.8%	5.6%	7.0%	8.5%	8.0%	9.3%
AL	0.0%	0.0%	0.0%	0.0%	0.0%	0.9%	4.9%	8.6%	12.5%	8.2%	8.5%	6.9%
JAL	0.0%	0.0%	-0.1%	-0.2%	-0.1%	0.0%	2.1%	5.0%	6.2%	3.3%	8.7%	5.6%
.UV	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	12.7%	8.6%	5.2%	11.6%	7.4%	1.7%
ALK	0.0%	0.1%	0.8%	0.6%	0.0%	0.0%	1.7%	1.6%	7.4%	9.0%	6.7%	1.5%
BLU	0.0%	0.1%	-0.3%	0.0%	0.0%	0.0%	-12.9%	-14.7%	-13.1%	-10.5%	-8.6%	-8.5%
IA	0.0%	0.0%	0.0%	0.0%	0.0%		-5.9%	-2.0%	3.7%	7.5%	6.9%	8.6%
						0.0%						
AVE	0.1%	0.0%	-8.0%	-3.9%	-3.1%	-3.1%	3.2%	-0.4%	0.5%	10.5%	15.8%	-78.1%
LGT	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	1.4%	-11.7%	1.6%	7.2%	5.9%	7.0%
JLCC	-0.1%	0.0%	1.3%	2.3%	2.3%	165.0%	8.2%	10.6%	17.5%	19.2%	15.0%	13.0%
SNCY	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	21.0%	20.4%	23.0%	16.0%	14.8%	18.5%
Domestic Total	-0.2%	-0.2%	-0.6%	-0.5%	-0.5%	1.9%	3.6%	4.6%	6.5%	7.3%	7.4%	1.6%
Atlantic	0.00/	0.00/	1.20/	1 40/	1 40/	1 40/	2.00/	2.40/	0.20/	2.10/	1 [0/	1 20/
DAL	0.0%	0.0%	-1.3%	-1.4%	-1.4%	-1.4%	2.8%	3.4%	0.2%	2.1%	1.5%	1.3%
AAL	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	13.3%	7.5%	6.4%	5.8%	3.1%	2.1%
JAL	0.0%	0.0%	0.2%	0.5%	0.5%	0.2%	-4.7%	3.1%	1.4%	-0.2%	-0.1%	-0.8%
BLU	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	115.5%	128.2%	135.1%	155.0%	124.7%	119.0%
nternational Carriers	-0.1%	0.0%	0.4%	0.3%	0.4%	0.0%	18.1%	34.6%	40.0%	31.9%	24.8%	24.4%
Atlantic Total	0.0%	0.0%	-0.2%	-0.1%	-0.1%	-0.3%	7.4%	11.9%	11.5%	10.3%	8.4%	7.9%
Pacific	0.00/	0.00/	0.00/	0.00/	0.00/	0.00/	25.00/	10.00/	20.00/	2410/	25.00/	20.00/
DAL	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	35.9%	19.8%	26.6%	34.1%	35.9%	36.0%
AL	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	36.7%	12.2%	13.9%	7.7%	22.2%	21.9%
JAL	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	55.5%	38.7%	33.6%	31.1%	30.9%	26.3%
nternational Carriers	0.0%	0.1%	0.0%	0.1%	0.1%	0.2%	26.5%	26.2%	21.2%	18.3%	15.4%	13.9%
acific Total	0.0%	0.0%	0.0%	0.1%	0.1%	0.1%	31.8%	27.0%	23.0%	20.7%	19.0%	17.2%
atin America												
DAL	0.0%	0.0%	-0.2%	-0.4%	-0.4%	-0.5%	26.4%	24.4%	20.5%	11.2%	7.8%	13.0%
AAL .	0.0%	0.0%	0.0%	0.0%	0.0%	-2.5%	10.0%	6.5%	11.7%	8.9%	7.2%	4.6%
JAL	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	23.4%	11.5%	18.0%	14.5%	7.7%	3.3%
UV	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	19.7%	4.2%	9.9%	24.0%	14.8%	-13.6%
NLK	0.0%	0.0%	-2.8%	-2.2%	0.0%	0.0%	62.1%	20.8%	5.1%	12.3%	6.9%	1.7%
BLU	-0.1%	0.0%	0.3%	0.0%	0.0%	0.0%	10.6%	9.1%	4.5%	8.2%	3.8%	1.7%
SAVE	0.0%	-0.2%	-7.5%	-8.1%	-8.4%	-7.4%	16.8%	6.6%	-11.1%	-14.8%	-15.7%	-83.2%
JLCC	0.0%	0.1%	0.1%	0.3%	0.2%	73.2%	19.9%	24.7%	0.0%	1.6%	5.1%	-12.9%
SNCY	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	18.6%	-4.7%	16.2%	-18.5%	-22.4%	-29.1%
nternational Carriers	0.0%	-1.5%	-0.5%	0.1%	0.5%	0.2%	16.1%	10.3%	0.5%	-9.6%	12.4%	12.9%
atin America Total	0.0%	-0.6%	-0.6%	-0.4%	-0.3%	0.7%	17.6%	11.2%	6.6%	1.6%	7.5%	1.7%

Source: OAG

BofA GLOBAL RESEARCH



Source: OAG

Exhibit 3: Canadian airline capacity changes and monthly capacity growthCanada domestic capacity was lowered by nearly 20% each month as Lynx Air ceases operations

	Change vs. Prior Week							Current Capacity Growth YoY						
	Mar 2024	Apr 2024	May 2024	Jun 2024	Jul 2024	Aug 2024	Mar 2024	Apr 2024	May 2024	Jun 2024	Jul 2024	Aug 2024		
Canada Domestic														
AC	-0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	1.1%	1.7%	1.1%	0.7%	3.2%	2.8%		
WestJet	0.6%	0.9%	0.7%	1.5%	1.4%	1.3%	-2.1%	2.1%	2.7%	1.5%	7.0%	5.6%		
Canadian ULCCs	-14.9%	-18.7%	-18.2%	-19.3%	-19.8%	-20.7%	-25.2%	-27.5%	-14.2%	-15.0%	-19.6%	-20.6%		
Canada Domestic Total	-3.4%	-4.7%	-5.1%	-5.4%	-5.3%	-5.6%	-6.6%	-6.7%	-2.8%	-3.6%	-2.5%	-3.4%		
Canada Transborder														
AC	0.4%	0.6%	0.0%	0.0%	0.0%	0.0%	7.4%	7.8%	11.7%	5.6%	1.5%	1.8%		
WestJet	0.3%	0.0%	0.0%	0.0%	0.4%	0.4%	13.9%	16.1%	44.0%	35.1%	31.1%	33.8%		
US Carriers	-7.1%	-8.0%	-8.2%	-5.9%	-5.4%	-6.4%	14.4%	8.8%	22.8%	21.0%	25.6%	28.5%		
Canada Transborder Total	-2.0%	-2.4%	-2.8%	-2.1%	-2.0%	-2.4%	10.9%	9.9%	21.1%	16.0%	14.9%	16.7%		
Air Canada International														
Atlantic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	14.5%	10.8%	7.6%	3.5%	2.0%	2.0%		
Pacific	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	31.4%	40.1%	22.8%	20.3%	23.4%	21.4%		
Latin America	0.0%	0.0%	1.4%	0.0%	0.0%	0.0%	5.7%	-5.1%	-1.0%	-4.2%	-7.0%	-4.8%		
Canada System														
AC	0.1%	0.1%	0.1%	0.0%	0.0%	0.0%	11.3%	10.6%	8.5%	5.2%	4.6%	4.5%		
WestJet	0.3%	0.3%	0.2%	0.5%	0.7%	0.7%	18.2%	17.6%	27.9%	20.6%	22.4%	23.3%		
Canada System Total	0.1%	0.2%	0.1%	0.1%	0.2%	0.2%	13.0%	12.3%	12.7%	8.6%	8.6%	8.7%		

BofA GLOBAL RESEARCH



Airlines | 04 March 2024

Exhibit 4: Absolute capacity by quarter

AAL's current schedules reflect the highest domestic growth rate among network carriers in 2Q24

	Absolute ASM's per Schedules								Absolute ASM's per Company Reports					ASM growth per Schedules		
	1Q23	2Q23	3Q23	4Q23	1Q24	2Q24	3Q24	4Q22	1Q23	2Q23	3Q23	1Q24	2Q24	3Q24		
Delta Air Lines																
Domestic	40,782,928,940	43,737,271,601	46,375,937,178	44,122,531,148	41,342,069,728	46,848,979,736	51,182,753,247	39,506,000,000	40,328,690,600	43,069,446,950	45,967,320,000	1.4%	7.1%	10.4%		
Atlantic	10,834,654,887	17,001,508,254	18,909,136,130	13,926,734,767	11,027,061,506	17,478,275,024	19,354,071,988	12,220,000,000	10,769,090,388	16,862,778,000	18,540,340,000	1.8%	2.8%	2.4%		
Latin America	6,772,778,785	5,536,827,886	5,174,841,249	6,175,095,546	8,539,362,735	6,593,078,074	5,763,390,955	4,795,000,000	6,749,385,562	5,500,847,929	5,114,620,000	26.1%	19.1%	11.4%		
Asia Pacific	3,442,753,025	3,562,171,938	3,601,333,880	4,376,457,637	4,837,293,391	4,519,352,091	4,894,564,486	2,985,000,000	3,503,850,000	3,560,179,200	3,570,000,000	40.5%	26.9%	35.9%		
Total System	61,833,115,637	69,837,779,679	74,061,248,437	68,600,819,098	65,745,787,360	75,439,684,925	81,194,780,676	59,506,000,000	61,351,016,550	68,993,252,079	73,192,280,000	6.3%	8.0%	9.6%		
American Airline	S															
Domestic	44,206,452,218	45,291,039,280	47,975,519,557	46,022,562,506	46,420,107,425	49,711,147,498	51,452,567,234	44,939,000,000	44,554,000,000	45,700,000,000	48,146,000,000	5.0%	9.8%	7.2%		
Atlantic	8,313,675,817	12,835,123,274	14,293,793,240	10,775,653,278	9,106,227,271	13,672,675,024	14,724,321,365	9,725,000,000	8,242,000,000	12,823,000,000	14,262,000,000	9.5%	6.5%	3.0%		
Latin America	11,455,096,068	9,933,544,788	9,520,590,821	10,682,272,146	12,790,801,455	10,828,183,053	10,199,207,125	9,853,000,000	10,510,000,000	9,200,000,000	8,872,000,000	11.7%	9.0%	7.1%		
Asia Pacific	1,675,744,644	1,939,669,388	2,012,116,047	2,304,579,033	2,651,757,336	2,158,225,809	2,456,991,192	1,445,000,000	1,700,000,000	1,935,000,000	2,005,000,000	58.2%	11.3%	22.1%		
Total System	65,650,968,747	69,999,376,730	73,802,019,665	69,785,066,963	70,968,893,487	76,370,231,384	78,833,086,916	65,962,000,000	65,006,000,000	69,658,000,000	73,285,000,000	8.1%	9.1%	6.8%		
United Airlines																
Domestic	38,653,982,293	40,869,880,089	42,988,978,334	40,266,178,844	39,737,119,775	42,868,522,247	45,834,696,395	37,551,000,000	38,516,000,000	40,120,000,000	42,345,000,000	2.8%	4.9%	6.6%		
Atlantic	13,074,400,433	18,700,179,574	20,842,877,207	15,064,118,564	12,327,518,492	18,902,129,844	20,483,377,334	14,372,000,000	12,951,000,000	18,368,000,000	20,535,000,000	-5.7%	1.1%	-1.7%		
Latin America	7,119,366,783	7,546,577,710	7,291,115,190	7,825,470,040	8,978,308,952	8,646,446,153	7,539,251,068	6,447,000,000	7,101,000,000	7,435,000,000	7,245,000,000	26.1%	14.6%	3.4%		
Asia Pacific	6,868,216,974	7,405,445,234	7,889,931,978	10,399,673,027	11,465,102,205	9,952,923,716	10,063,840,109	5,924,000,000	7,152,000,000	7,615,000,000	8,223,000,000	66.9%	34.4%	27.6%		
Total System	65,715,966,483	74,522,082,607	79,012,902,709	73,555,440,475	72,508,049,424	80,370,021,960	83,921,164,906	64,294,000,000	65,720,000,000	73,538,000,000	78,348,000,000	10.3%	7.8%	6.2%		
System Capacity																
Southwest	38,632,839,702	42,750,660,135	44,460,284,801	45,529,407,149	42,725,842,884	46,447,884,664	46,460,141,354	37,490,000,000	38,062,000,000	42,579,000,000	44,169,000,000	10.6%	8.6%	4.5%		
Alaska	15,841,116,909	17,127,241,929	18,542,153,218	17,002,491,983	16,305,392,197	18,181,866,367	19,072,309,313	15,031,400,000	15,705,000,000	17,160,000,000	18,582,000,000	2.9%	6.2%	2.9%		
JetBlue	16,826,215,355	17,575,182,764	17,768,890,374	16,954,482,935	16,420,293,310	17,109,793,899	17,800,146,199	16,470,000,000	16,769,000,000	17,353,000,000	17,362,000,000	-2.4%	-2.6%	0.2%		
Hawaiian	4,941,445,907	5,066,587,608	5,216,239,082	5,145,700,016	5,107,211,235	5,250,759,909	5,520,821,540	4,940,514,000	4,917,517,000	5,014,432,000	5,168,883,000	3.4%	3.6%	5.8%		
Spirit	13,399,474,501	14,213,062,288	13,933,305,381	14,832,569,784	13,640,038,878	15,053,040,586	6,379,077,056	12,871,503,000	13,209,136,000	13,908,113,000	13,769,941,000	1.8%	5.9%	-54.2%		
Allegiant	4,650,397,590	4,822,173,420	4,190,379,060	4,325,395,476	4,552,683,222	4,777,056,486	4,435,086,975	4,192,352,000	4,573,766,000	4,925,194,000	4,280,034,000	-2.1%	-0.9%	5.8%		
Frontier	8,928,293,316	9,459,772,478	10,004,454,084	10,017,988,404	9,584,324,058	10,668,633,590	5,305,810,936	8,670,000,000	8,775,000,000	9,337,000,000	9,697,000,000	7.3%	12.8%	-47.0%		
Sun Country	1,634,330,106	1,433,903,760	1,453,500,414	1,547,104,848	1,883,592,426	1,653,680,988	1,577,806,008	1,352,830,000	1,625,728,000	1,417,778,000	1,446,462,000	15.3%	15.3%	8.6%		

Source: BofA Global Research, OAG

BofA GLOBAL RESEARCH





Disclosures

Important Disclosures

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

Other Important Disclosures

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

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

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

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

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

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

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

BofAS and/or Merrill Lynch, Pierce, Fenner & Smith Incorporated ("MLPF&S") may in the future distribute, information of the following non-US affiliates in the US (short name: legal name, regulator): Merrill Lynch (South Africa): Merrill Lynch South Africa (Pty) Ltd., regulated by The Financial Service Board; MLI (UK): Merrill Lynch International, regulated by the Financial Conduct Authority (FCA) and the Prudential Regulation Authority (PRA); BofASE (France): BofA Securities Europe SA is authorized by the Autorité de Contrôle 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 (Gustralia): Merrill Lynch (Hong Kong): Merrill (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 (I 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); is issued and distributed in India by BofAS India; and is issued and distributed in Singapore to institutional investors and/or accredited investors (each as defined under the Financial Advisers Regulations) by Merrill Lynch (Singapore) (Company Registration No 198602883D). Merrill Lynch (Singapore) is regulated by MAS. Merrill Lynch Equities (Australia) Limited (ABN 65 006 276 795), AFS License 235132 (MLEA) distributes this information in Australia only to "Wholesale' clients as defined by s.761G of the Corporations Act 2001. With the exception of Bank of America N.A., Australia Branch, neither MLEA nor any of 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 in Germany and is regulated by BaFin, the ECB and the CBI. BofA Securities entities, including Bo

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.

