

# Industrial Weekly

## The Nuts and Bolts

### Industry Overview

### Boeing replaces leader of 737 Max program

Boeing (BA) is replacing the head of its troubled 737 MAX program, the first major executive departure since the Jan. 5 mid-air panel incident of a new Alaska Airlines MAX 9. Katie Ringgold is replacing Ed Clark as vice president and general manager of the 737 program, according to a memo seen by Reuters sent to staff by Boeing Commercial Airplanes CEO Stan Deal.

### Union Pacific to invest \$3.4bn to revamp railroad safety

Union Pacific (UNP) plans to invest \$3.4bn in 2024 to support safe operations. An estimated 56% of the capital plan, or \$1.9bn will go toward upgrading and replacing infrastructure, such as rail, ties, and ballasts, along with \$0.6bn toward locomotives and equipment.

### JB Hunt to buy Walmart's intermodal assets

J.B. Hunt Transport Services (JBHT) has entered into a multi-year intermodal service agreement with Walmart, in an arrangement that includes J.B. Hunt's purchase of Walmart's intermodal assets.

### Market news

For the week ended 2/22, IG and HY spreads were 4bps and 13bps tighter, respectively. The 5yr treasury, 10yr treasury, and 30yr treasury yields were all 13bps, 10bps, and 5bps wider, respectively. The S&P 500 was +1.1% on the week and +6.7% YTD.

#### Exhibit 3: Weekly Bond Movers 2/22/24

ETN 29s were 13bps tighter; R 27s were 8bps wider

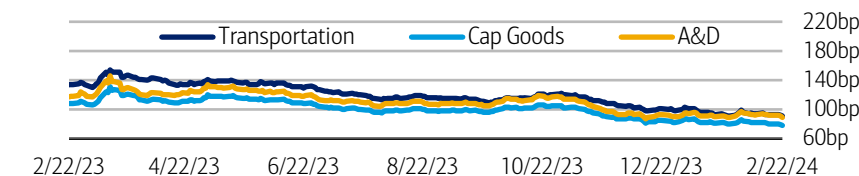
Leaders			Laggards		
Bond		Sprd Ch.	Bond		Sprd Ch.
ETN 7.650	11/15/29	(13)	R 4.300	06/15/27	+8
JBHT 3.875	03/01/26	(10)	NSC 5.640	05/17/29	+6
NOC 7.750	02/15/31	(9)	PCAR 1.800	02/06/25	+4
LDOS 2.300	02/15/31	(9)	RTX 2.150	05/18/30	+2
JCI 0.375	09/15/27	(9)	BNSF 6.875	12/01/27	+2

Source: Bloomberg

BofA GLOBAL RESEARCH

#### Exhibit 4: Weekly Bond Movers 2/22/24

Cap Goods trade through both Transportation & A&D by 11-13bps



Source: Bloomberg

BofA GLOBAL RESEARCH

23 February 2024

High Grade Credit  
United States  
Aerospace/Defense, Autos, Capital Goods, Transportation

**Douglas Karson**  
Research Analyst  
BofAS  
+1 646 855 7405  
doug.karson@bofa.com

**Somaia Barakah**  
Research Analyst  
BofAS  
somaia.barakah@bofa.com

**Drew Thompson**  
Research Analyst  
BofAS  
andrew.thompson2@bofa.com

#### Exhibit 1: U.S. Mutual Fund Flows

Changes in mutual fund flows

\$ MN	Week	% Ch.	YTD	% Ch.
High Grade	+3,007	+0.1%	+53,400	+1.3%
High Yield	+698	+0.3%	+5,472	+1.5%
Bank Loans	+6	+0.0%	+1,231	+1.0%
EM Debt	(737)	(0.2%)	(3,090)	(0.5%)
Money Markets	+1,726	+0.0%	+96,782	+1.5%
Equities	+12,709	+0.1%	+913	+0.0%

Source: BofA Global Research, EPFR Global. Note: Week Ended 2/21/24.

BofA GLOBAL RESEARCH

#### Exhibit 2: Markets Monitor (as of 2/22/24)

Macro data and indices snapshots

Market	Value	Week Δ
ICE BofA IG Index (sprd)	94	(4)
ICE BofA IG Index (yield)	5.45	+5
ICE BofA HY Index (sprd)	340	(13)
ICE BofA HY Index (yield)	7.87	(2)
ICE BofA BBB Index (sprd)	118	(4)
ICE BofA BB Index (sprd)	211	(11)
ICE BofA CCC Index (yield)	13.36	(13)
CDX IG 5yr (sprd)	51	(1)
CDX HY 5yr (sprd)	336	(5)
5yr Treasury (yield)	4.36	+13
10yr Treasury (yield)	4.35	+10
30yr Treasury (yield)	4.46	+5
S&P 500 (index)	5,087	1.1%
Dow Jones (index)	39,069	0.8%
Gold (\$/oz)	2,024	1.0%
Crude Oil (WTI \$/bbl)	77.28	-0.4%

Source: BofA Global Research; ICE Data Indices, LLC  
BofA GLOBAL RESEARCH

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 3 to 4.

12663396

Timestamp: 23 February 2024 03:35PM EST

**Exhibit 5: Relative Value by Sector (\$ million, unless otherwise noted)**

Relative value for A&amp;D, Industrials &amp; Transportation sectors.

Credit Metrics (LTM 6/30/23)													TEV/ 2023E
Issuer	Mdy's / S&P / F	Outlook	Coupon	Maturity	STW	G- Sprd	5yr CDS	Revenue	Adj. EBITDA	Debt/ EBITDA	EBITDA/ Int. Exp	FCF	EBITDA
Aerospace & Defense													
BAE Systems (BA) (€)*	Baa2/BBB+/BBB+	P/S/S	3.850%	12/15/2025	63	59	33	22,516	3,204	2.1x	10.7x	2,977	10.8x
Boeing (BA) <sup>1</sup>	Baa2/BBB-/BBB-	S/S/P	2.950%	2/1/2030	110	109	79	73,608	4,258	12.3x	1.7x	7,830	27.1x
General Dynamics (GD)	A3/A-/WD	P/P/#	2.250%	6/1/2031	60	58	38	40,859	6,004	1.6x	17.1x	3,023	14.3x
Honeywell (HON)	A2/A/A	P/S/S	1.950%	6/1/2030	51	50	25	36,147	9,234	2.3x	15.4x	4,174	13.9x
L3Harris Technologies (LHX)	Baa2/BBB/BBB+	N/N/N	2.900%	12/15/2029	91	90	38	17,988	3,006	3.2x	8.4x	1,446	13.7x
Lockheed Martin (LMT)	A2/A-/A-	S/S/S	1.850%	6/15/2030	56	55	24	67,393	7,909	1.8x	10.2x	6,004	12.9x
Northrop Grumman (NOC)	Baa1/BBB+/BBB+	S/S/S	3.250%	1/15/2028	57	49	38	37,881	5,292	2.2x	10.2x	2,262	14.2x
RTX (RTX)	Baa1/BBB+	N/N	2.250%	7/1/2030	77	76	38	70,573	12,502	3.0x	0.1x	2,846	12.6x
Textron (TXT) <sup>2</sup>	Baa2/BBB	S/S	2.450%	3/15/2031	98	96	38	13,162	1,450	2.2x	14.6x	954	9.5x
1 Boeing financials exclude Boeing Capital.    2 Textron financials exclude Textron Financial.    *Reports Semi-Annually													
Industrials													
ABB (ABBN)	A3/A-/WD	S/S/#	3.800%	4/3/2028	20	14	68	31,252	5,476	1.5x	33.8x	1,800	14.7x
Aptiv (APTV)	Baa2/BBB/BBB	S/S/S	4.350%	3/15/2029	79	79	NA	19,272	2,698	2.5x	10.2x	1,015	8.4x
AutoNation (AN)	Baa3/BBB-/BBB-	S/S/S	2.400%	8/1/2031	163	161	185	26,652	1,971	2.1x	8.5x	896	6.6x
BorgWarner (BWA)	Baa1/BBB/BBB+	S/S/S	2.650%	7/1/2027	68	71	185	16,868	2,668	1.6x	50.3x	593	4.8x
Caterpillar (CAT)	A2/A/A+	S/S/S	2.600%	4/9/2030	39	38	34	61,793	11,492	0.8x	23.8x	8,343	10.9x
Cat Financial (CAT) <sup>1</sup>	A2/A/A+	S/S/S	1.700%	1/8/2027	24	21	38	61,793	11,492	0.8x	23.8x	8,343	10.9x
Cummins (CMI)	A2/A	S/S	1.500%	9/1/2030	56	55	38	32,194	4,654	1.7x	13.9x	1,098	8.6x
Mercedes-Benz (MBG) (€) <sup>2</sup>	A2/A/Au	S/S/S	3.450%	1/6/2027	52	50	48	154,476	26,462	4.4x	89.4x	12,798	2.2x
Deere (DE)	A1/A	S/S	3.100%	4/15/2030	54	53	38	56,404	13,346	0.7x	17.0x	9,282	10.1x
John Deere Capital (DE) <sup>1</sup>	(P)A1/A	S/S	2.450%	1/9/2030	51	50	38	56,404	13,346	0.7x	17.0x	9,282	10.1x
Eaton (ETN)	A3/A-/WD	S/S/#	7.650%	11/15/2029	58	57	38	22,046	4,344	2.1x	25.1x	2,706	21.9x
Ford (F) <sup>2,3</sup>	Ba1/BBB-/BBB-	S/S/S	7.450%	7/16/2031	176	174	156	160,462	15,359	1.3x	12.3x	1,300	2.8x
Ford Credit (F) <sup>1,2,3</sup>	Ba1/BBB-/BBB-	S/S/S	4.000%	11/13/2030	167	166	185	160,462	15,359	1.3x	12.3x	1,300	2.8x
General Electric (GE) <sup>2</sup>	Baa1/BBB+/BBB+	P/S/S	4.418%	11/15/2035	86	81	42	72,057	9,383	2.3x	7.0x	2,848	8.9x
General Motors (GM) <sup>2,3</sup>	Baa2/BBB/BBB	S/S/S	5.000%	4/9/2027	74	76	123	156,437	20,408	0.8x	120.8x	14,568	3.0x
GM Financial (GM) <sup>1,2</sup>	Baa2/BBB/BBB	S/S/S	2.350%	1/8/2031	129	127	164	156,437	20,408	0.8x	120.8x	14,568	3.0x
Hubbell (HUBB)	Baa1/BBB+/A-	S/S/S	2.300%	3/15/2031	97	95	NA	5,187	1,064	1.4x	24.9x	647	16.4x
Illinois Tool Works (ITW)	A1/A+	S/S	2.650%	11/15/2026	-8	9	38	16,075	4,351	1.9x	18.4x	2,587	18.3x
Johnson Controls (JCI)	Baa2/BBB+/WD	P/S/#	1.750%	9/15/2030	80	79	81	26,612	4,807	2.0x	17.3x	1,482	15.2x
Lear Corp (LEA)	Baa2/BBB	S/S	3.500%	5/30/2030	119	118	NA	22,457	1,667	1.7x	14.9x	449	5.4x
Magna (MGA)	A3/A-	S/S	2.450%	6/15/2030	87	86	83	40,491	3,258	1.8x	36.6x	(279)	5.3x
Paccar (PCAR) <sup>2</sup>	WR/A+	S/S	2.000%	2/4/2027	38	37	NA	30,913	4,802	0.0x	9.5x	3,025	9.2x
Pentair (PNR)	WR/BBB-	#/S	4.500%	7/1/2029	94	94	NA	4,169	958	2.2x	8.6x	448	14.3x
Republic Services (RSG)	Baa1/BBB+/A-	S/S/S	1.450%	2/15/2031	73	71	38	14,436	4,172	2.9x	8.9x	1,872	16.0x
Roper Technologies (ROP)	Baa2/BBB+	S/S	2.000%	6/30/2030	83	82	NA	5,535	2,299	2.9x	13.7x	1,056	23.7x
Waste Management (WM)	Baa1/A-/A-	P/S/S	1.500%	3/15/2031	66	64	38	20,021	5,597	2.7x	12.6x	1,506	15.5x
1 Parent company credit metrics are used for captive industrial finance companies.    2 Caterpillar, Deere, Ford, Mercedes, GE, GM, Paccar financials exclude financial businesses.    3 FCF = Automotive operating cash flow													
Transportation													
Burlington Northern (BNI)	A3/AA-	P/S	3.250%	6/15/2027	30	33	38	25,127	10,427	2.3x	10.1x	4,319	Private
Canadian National (CNR) (CAD)	A2/A-	S/S	2.750%	3/1/2026	30	31	38	17,425	8,889	1.9x	14.1x	4,424	14.5x
Canadian Pacific (CP) (CAD)	Baa2/BBB+	S/S	2.050%	3/5/2030	79	79	38	13,735	6,732	3.5x	8.5x	3,013	17.6x
CSX (CSX)	A3/BBB+	S/S	2.400%	2/15/2030	62	62	22	15,030	7,550	2.4x	9.5x	3,235	12.4x
GATX (GATX)	Baa2/BBB	S/S	1.900%	6/1/2031	115	113	38	1,326	879	7.7x	3.8x	(868)	11.5x
Norfolk Southern (NSC)	Baa1/BBB+	S/S	2.550%	11/1/2029	73	73	22	12,732	5,424	2.8x	7.8x	1,998	13.3x
Penske Truck Leasing	Baa2/BBB/BBB+	S/S/S	3.350%	11/1/2029	126	126	NA			Private			
Ryder (R)	Baa2/BBB+/BBB+	S/S/P	2.850%	3/1/2027	68	69	73	11,959	2,958	2.2x	11.5x	382	4.5x
Southwest (LUV)	Baa1/BBB/BBB+	S/S/S	5.125%	6/15/2027	40	42	77	25,135	1,955	4.1x	6.9x	(1,463)	6.7x
Union Pacific (UNP)	A3/A-	S/S	2.400%	2/5/2030	60	59	22	24,765	11,824	2.8x	8.9x	5,471	15.3x

Source: Company Filings, Bloomberg



# 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. BoFA Securities fixed income analysts regularly interact with sales and trading desk personnel in connection with their research, including to ascertain pricing and liquidity in the fixed income markets.

## 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.

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. Rule 144A securities may be offered or sold only to persons in the U.S. who are Qualified Institutional Buyers within the meaning of Rule 144A under the Securities Act of 1933, as amended. SECURITIES OR OTHER FINANCIAL INSTRUMENTS DISCUSSED HEREIN MAY BE RATED BELOW INVESTMENT GRADE AND SHOULD THEREFORE ONLY BE CONSIDERED FOR INCLUSION IN ACCOUNTS QUALIFIED FOR SPECULATIVE INVESTMENT.

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.

The securities or other financial instruments discussed in this report may be traded over-the-counter. Retail sales and/or distribution of this report may be made only in states where these instruments are exempt from registration or have been qualified for sale.

Officers of BoFA 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.

This report, and the securities or other financial instruments discussed herein, may not be eligible for distribution or sale in all countries or to certain categories of investors, including retail investors.

### Information relating to Affiliates of BoFAS, MLPF&S and Distribution of Affiliate Research Reports:

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.**

BoFAS and/or Merrill Lynch, Pierce, Fenner & Smith Incorporated ("MLPF&S") may in the future distribute, information of the following non-US affiliates in the US (short name: legal name, regulator): Merrill Lynch (South Africa): Merrill Lynch South Africa (Pty) Ltd., regulated by The Financial Service Board; MLI (UK): Merrill Lynch International, regulated by the Financial Conduct Authority (FCA) and the Prudential Regulation Authority (PRA); BoFASE (France): BoFA Securities Europe SA is authorized by the Autorité de Contrôle Prudentiel et de Résolution (ACPR) and regulated by the ACPR and the Autorité des Marchés Financiers (AMF). BoFA Securities Europe SA ("BoFASE") with registered address at 51, rue La Boétie, 75008 Paris is registered under no 842 602 690 RCS Paris. In accordance with the provisions of French Code Monétaire et Financier (Monetary and Financial Code), BoFASE is an établissement de crédit et d'investissement (credit and investment institution) that is authorised and supervised by the European Central Bank and the Autorité de Contrôle Prudentiel et de Résolution (ACPR) and regulated by the ACPR and the Autorité des Marchés Financiers. BoFASE's share capital can be found at [www.bofam.com/BoFASEdisclaimer](http://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; BoFAS Japan: BoFA Securities Japan Co., Ltd., regulated by the Financial Services Agency; Merrill Lynch (Seoul): Merrill Lynch International, LLC Seoul Branch, regulated by the Financial Supervisory Service; Merrill Lynch (Taiwan): Merrill Lynch Securities (Taiwan) Ltd., regulated by the Securities and Futures Bureau; BoFAS India: BoFA Securities India Limited, regulated by the Securities and Exchange Board of India (SEBI); Merrill Lynch (Israel): Merrill Lynch Israel Limited, regulated by Israel Securities Authority; Merrill Lynch (DIFC): Merrill Lynch International (DIFC Branch), regulated by the Dubai Financial Services Authority (DFSA); Merrill Lynch (Brazil): Merrill Lynch S.A. Corretora de Títulos e Valores Mobiliários, regulated by Comissão de Valores Mobiliários; Merrill Lynch KSA Company: Merrill Lynch Kingdom of Saudi Arabia Company, regulated by the Capital Market Authority.

This information: has been approved for publication and is distributed in the United Kingdom (UK) to professional clients and eligible counterparties (as each is defined in the rules of the FCA and the PRA) by MLI (UK), which is authorized by the PRA and regulated by the FCA and the PRA - details about the extent of our regulation by the FCA and PRA are available from us on request; has been approved for publication and is distributed in the European Economic Area (EEA) by BoFASE (France), which is authorized by the ACPR and regulated by the ACPR and the AMF; has been considered and distributed in Japan by BoFAS Japan, a registered securities dealer under the Financial Instruments and Exchange Act in Japan, or its permitted affiliates; is issued and distributed in Hong Kong by Merrill Lynch (Hong Kong) which is regulated by HKSF; is issued and distributed in Taiwan by Merrill Lynch (Taiwan); is issued and distributed in India by BoFAS India; and is issued and distributed in Singapore to institutional investors and/or accredited investors (each as defined under the Financial Advisers Regulations) by Merrill Lynch (Singapore) (Company Registration No 198602883D). Merrill Lynch (Singapore) is regulated by MAS. Merrill Lynch Equities (Australia) Limited (ABN 65 006 276 795), AFS License 235132 (MLEA) distributes this information in Australia only to 'Wholesale' clients as defined by s.761G of the Corporations Act 2001. With the exception of Bank of America N.A., Australia Branch, neither MLEA nor any of its affiliates involved in preparing this information is an Authorised Deposit-Taking Institution under the Banking Act 1959 nor regulated by the Australian Prudential Regulation Authority. No approval is required for publication or distribution of this information in Brazil and its local distribution is by Merrill Lynch (Brazil) in accordance with applicable regulations. Merrill Lynch (DIFC) is authorized and regulated by the DFSA. Information prepared and issued by Merrill Lynch (DIFC) is done so in accordance with the requirements of the DFSA conduct of business rules. BoFA Europe (Frankfurt) distributes this information in Germany and is regulated by BaFin, the ECB and the CBI. BoFA Securities entities, including BoFA Europe and BoFASE (France), may outsource/delegate the marketing and/or provision of certain research services or aspects of research services to other branches or members of the BoFA Securities group. You may be contacted by a different BoFA Securities entity acting for and on behalf of your service provider where permitted by applicable law. This does not change your service provider. Please refer to the [Electronic Communications Disclaimers](#) for further information.



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

#### General Investment Related Disclosures:

Taiwan Readers: Neither the information nor any opinion expressed herein constitutes an offer or a solicitation of an offer to transact in any securities or other financial instrument. No part of this report may be used or reproduced or quoted in any manner whatsoever in Taiwan by the press or any other person without the express written consent of BofA Securities.

This document provides general information only, and has been prepared for, and is intended for general distribution to, BofA Securities clients. Neither the information nor any opinion expressed constitutes an offer or an invitation to make an offer, to buy or sell any securities or other financial instrument or any derivative related to such securities or instruments (e.g., options, futures, warrants, and contracts for differences). This document is not intended to provide personal investment advice and it does not take into account the specific investment objectives, financial situation and the particular needs of, and is not directed to, any specific person(s). This document and its content do not constitute, and should not be considered to constitute, investment advice for purposes of ERISA, the US tax code, the Investment Advisers Act or otherwise. Investors should seek financial advice regarding the appropriateness of investing in financial instruments and implementing investment strategies discussed or recommended in this document and should understand that statements regarding future prospects may not be realized. Any decision to purchase or subscribe for securities in any offering must be based solely on existing public information on such security or the information in the prospectus or other offering document issued in connection with such offering, and not on this document.

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

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.

This report may contain a trading idea or recommendation which highlights a specific identified near-term catalyst or event impacting a security, issuer, industry sector or the market generally that presents a transaction opportunity, but does not have any impact on the analyst's particular "Overweight" or "Underweight" rating (which is based on a three month trade horizon). Trading ideas and recommendations may differ directionally from the analyst's rating on a security or issuer because they reflect the impact of a near-term catalyst or event.

Foreign currency rates of exchange may adversely affect the value, price or income of any security or financial instrument mentioned in this report. Investors in such securities and instruments 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 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.