

L3Harris

Still a “wait-and-see” story – reiterate Neutral

Reiterate Rating: NEUTRAL | PO: 215.00 USD | Price: 209.30 USD

Same old problems, but intentions are in right place

For L3Harris (NYSE: LHX), the ‘usual suspects’ (excessive costs, IMS woes) persist. However, intentions remain in the right place post-investor day. We remain constructive on LHX’s aims to 1) focus on cutting costs through the LHX NeXt program and 2) pay down debt and deploy remaining capital to shareholders ([see post-LHX investor day report](#)). Additionally, we believe the imposition of a Business Review Committee and the cooperation agreement with shareholder DE Shaw will continue to drive transparency and accountability within the ranks. However, many of the programmatic concerns seem to persist. The IMS business continues to lag the broader company ([see 4Q23 recap](#)). We continue to wonder when LHX will turn the page and see profitability expansion.

Need to see progress – reiterate Neutral and PO to \$215

While we look favorably on LHX’s efforts to clean up its portfolio, we continue to see the stock as a “wait-and-see” story. We are awaiting signs of progress toward LHX’s cost and footprint reduction goals outlined during its 2023 investor day. In the meantime, we continue to value LHX with a 0.8x relative multiple to the S&P 500 on 2025 estimates (unchanged). We believe a multiple in line with LHX’s historical relative average and the historical relative average of the defense primes to the S&P 500 fairly reflects upside from heightened defense spending both domestically and abroad offset by continued operational hurdles (Exhibit 1). We revise ests, reiterate Neutral, and raise PO to \$215.

Outlook implies strong 2025/26 to hit investor day targets

In our view, even after accounting for the integration of AJRD, LHX’s 2024 outlook is conservative (only ~20bps operating margin improvement Y/Y at midpoint) despite a full year of LHX NeXt cost savings baked in. The small bump will necessitate a steeper margin improvement in 2025 and 2026 in order for the company to achieve its investor day target of 100bps margin expansion. We expect LHX to come ~15bps short of this expectation, but understand that this could change depending on LHX’s progress on cost cutting efforts.

Estimates (Dec) (US\$)	2022A	2023A	2024E	2025E	2026E
EPS	12.90	12.36	12.60	14.40	15.80
GAAP EPS	5.49	6.44	8.95	12.22	13.84
EPS Change (YoY)	-0.4%	-4.2%	1.9%	14.3%	9.7%
Consensus EPS (Bloomberg)			12.80	14.07	15.64
DPS	4.90	5.39	5.65	5.94	6.23
Valuation (Dec)					
P/E	16.2x	16.9x	16.6x	14.5x	13.2x
GAAP P/E	38.1x	32.5x	23.4x	17.1x	15.1x
Dividend Yield	2.3%	2.6%	2.7%	2.8%	3.0%
EV / EBITDA*	22.1x	31.4x	15.4x	13.5x	12.6x
Free Cash Flow Yield*	4.8%	4.2%	5.6%	6.5%	6.9%

* For full definitions of *IQmethod*SM measures, see page 6.

09 February 2024

Equity

Key Changes

(US\$)	Previous	Current
Price Obj.	210.00	215.00

Ronald J. Epstein
Research Analyst
BofAS
r.epstein@bofa.com

Mariana Perez Mora
Research Analyst
BofAS
mariana.perez mora@bofa.com

Andre Madrid
Research Analyst
BofAS
andre.madrid@bofa.com

Jordan Lyonna
Research Analyst
BofAS
jordan.lyonna@bofa.com

Samantha Stiroh
Research Analyst
BofAS
samantha.stiroh@bofa.com

Stock Data

Price	209.30 USD
Price Objective	215.00 USD
Date Established	9-Feb-2024
Investment Opinion	B-2-7
52-Week Range	160.25 USD - 219.31 USD
Mrkt Val (mn) / Shares Out (mn)	39,671 USD / 189.5
Free Float	99.5%
Average Daily Value (mn)	241.71 USD
BofA Ticker / Exchange	LHX / NYS
Bloomberg / Reuters	LHX US / LHX.N
ROE (2024E)	12.7%
Net Dbt to Eqty (Dec-2023A)	66.7%
ESGMeter TM	High

ESGMeter is not indicative of a company's future stock price performance and is not an investment recommendation or rating. ESGMeter is independent of BofA Global Research's equity investment rating, volatility risk rating, income rating, and price objective for that company. For full details, refer to ["BofA ESGMeter Methodology"](#).

IMS – Integrated Mission Systems

CAS – Commercial Aviation Solutions

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 7 to 9. Analyst Certification on page 5. Price Objective Basis/Risk on page 5.

12657733

Timestamp: 09 February 2024 06:07AM EST

iQprofileSM L3Harris

iQmethodSM – Bus Performance*

(US\$ Millions)	2022A	2023A	2024E	2025E	2026E
Return on Capital Employed	5.1%	4.0%	7.7%	8.5%	9.2%
Return on Equity	13.2%	12.6%	12.7%	14.1%	14.9%
Operating Margin	10.7%	13.2%	14.8%	15.3%	15.9%
Free Cash Flow	1,920	1,647	2,206	2,593	2,746

iQmethodSM – Quality of Earnings*

(US\$ Millions)	2022A	2023A	2024E	2025E	2026E
Cash Realization Ratio	0.9x	0.9x	1.1x	1.1x	1.1x
Asset Replacement Ratio	0.3x	0.4x	0.4x	0.5x	0.6x
Tax Rate	16.7%	56.9%	13.3%	13.3%	13.3%
Net Debt-to-Equity Ratio	33.2%	66.7%	62.8%	55.4%	49.4%
Interest Cover	6.5x	4.7x	4.8x	7.1x	8.3x

Income Statement Data (Dec)

(US\$ Millions)	2022A	2023A	2024E	2025E	2026E
Sales	17,062	19,419	21,112	22,009	22,890
% Change	-17.2%	13.8%	8.7%	4.3%	4.0%
Gross Profit	4,927	5,113	5,911	6,383	6,867
% Change	-39.6%	3.8%	15.6%	8.0%	7.6%
EBITDA	2,490	1,749	3,570	4,090	4,352
% Change	-29.2%	-29.7%	104.1%	14.6%	6.4%
Net Interest & Other Income	22	(436)	(386)	(217)	(175)
Net Income (Adjusted)	2,496	2,356	2,396	2,734	2,983
% Change	-5.1%	-5.6%	1.7%	14.1%	9.1%

Free Cash Flow Data (Dec)

(US\$ Millions)	2022A	2023A	2024E	2025E	2026E
Net Income from Cont Operations (GAAP)	1,063	46	1,701	2,321	2,614
Depreciation & Amortization	938	1,166	963	938	904
Change in Working Capital	(568)	(315)	224	149	82
Deferred Taxation Charge	0	(423)	0	0	0
Other Adjustments, Net	725	1,622	(260)	(352)	(350)
Capital Expenditure	(238)	(449)	(422)	(462)	(504)
Free Cash Flow	1,920	1,647	2,206	2,593	2,746
% Change	-18.4%	-14.2%	33.9%	17.6%	5.9%
Share / Issue Repurchase	57	24	24	24	24
Cost of Dividends Paid	(864)	(868)	(1,075)	(1,127)	(1,177)
Change in Debt	(10)	4,398	(750)	(750)	(750)

Balance Sheet Data (Dec)

(US\$ Millions)	2022A	2023A	2024E	2025E	2026E
Cash & Equivalents	880	560	465	705	798
Trade Receivables	4,238	4,426	4,579	4,593	4,651
Other Current Assets	1,636	3,069	2,960	2,992	3,005
Property, Plant & Equipment	2,104	2,862	2,878	2,913	2,969
Other Non-Current Assets	24,666	30,770	30,213	29,794	29,428
Total Assets	33,524	41,687	41,095	40,997	40,851
Short-Term Debt	839	1,965	1,965	1,965	1,965
Other Current Liabilities	4,937	6,039	6,307	6,502	6,655
Long-Term Debt	6,225	11,160	10,410	9,660	8,910
Other Non-Current Liabilities	2,899	3,694	3,434	3,174	2,914
Total Liabilities	14,900	22,858	22,116	21,301	20,444
Total Equity	18,624	18,829	18,979	19,696	20,407
Total Equity & Liabilities	33,524	41,687	41,095	40,997	40,851

* For full definitions of iQmethodSM measures, see page 6.

Company Sector

Defense Electronics

Company Description

L3Harris Technologies is a global aerospace and defense company that focuses on technology driven solutions to mission requirements in sea, land, air, space, and cyber domains. L3Harris is a combined entity resulting from the merger of equals between L3 Technologies and Harris Corporation. The merger, which was announced in the fall of 2018, closed on 1 July 2019. LHX has four segments: Integrated Mission Systems, Space and Airborne Systems, Communication Systems, and Aerojet Rocketdyne.

Investment Rationale

L3Harris is a leader in defense technologies globally, offering a broad portfolio of defense electronics and communications equipment. Minor overlap between legacy LLL and HRS provides LHX with revenue synergy-driven opportunities to deliver integrated end-to-end solutions that meet future DoD requirements. Management has a proven track record of successful integration. Additionally, LHX's uniquely commercial style business model drives innovation and an increased focus on cost.

Stock Data

Average Daily Volume 1,154,873

Quarterly Earnings Estimates

	2023	2024
Q1	2.86A	2.86E
Q2	2.97A	3.10E
Q3	3.19A	3.13E
Q4	3.35A	3.51E

Cap. deployment: pay down debt then return to investors

Reinforcing their comments from the investor day, management stated that it would focus on paying down debt in order to bring LHX's leverage ratio down to 3x or less. Any excess capital would then be distributed to shareholders, with the company aiming to return 35-40% of FCF through the dividend and ~\$500mn through share repurchases (in line with 2023 levels). Share buybacks are expected to accelerate through 2025 and 2026, with less focus on M&A in the near future. Our model reflects \$750mn in debt repayment, ~\$1bn in dividend payments, and \$500mn in shares repurchased (>60% of FCF returned to shareholders).

Record orders further highlights heightened demand

We continue to see LHX benefiting from heightened global demand. 2023 saw a record \$23bn in orders, resulting in record backlog of \$33bn, over double the backlog at the time of the LLL/HRS merger in 2019. Some major wins include a \$247mn US Army award for Manpack and Leader radios as well as an award for increased levels of rocket motors in support of the US Army's Guided Multiple Launch Rocket System (GMLRS) program. Additionally, 2024 is off to strong start, with a \$919mn award from the Space Development Agency (SDA) to provide 18 sensing satellites for Tranche 2 Tracking Layer (T2TL) of its Proliferated Warfighter Space Architecture (PWSA) program ([see The Orbit #20](#)).

Robust international demand should support margin expansion

Robust international demand continues, which should be a tailwind to margins as FMS and DCS sales generally carry higher margins. This should especially benefit the Communication Systems business, which has the highest concentration of international work through its Tactical Radio business. We expect CS margins to exceed 25% by 2026.

LHX NeXt – targeting \$1bn in gross savings over 3 years

At LHX's 2023 investor day, significant time was spent detailing the company's LHX NeXt program ([see 2023 investor day takeaways](#)). The three-year program is intended to achieve significant cost savings that will unlock over 100bps of margin expansion (~\$400mn). While implementation is slated to cost ~\$400mn, the company aims to reduce overall costs by 6%, yielding gross savings of ~\$1bn (~\$450mn in direct spend, ~\$200mn in indirect spend, ~\$350mn in workforce and labor). Some specific cost takeouts include:

- Reducing footprint to 200 facilities (vs. current 275)
- Consolidating to two data centers (vs. current 85)
- Reduce IT application portfolio and spend by 25%
- Outsource vendor management to yield a ~5% indirect spending reduction
- Reducing indirect labor costs by 15-20% through organizational redesign and AI adoption
- Reduce supplier spending by 8% through rationalization and inflation claw back

We look favorably upon these efforts. However, we wonder why this has not been done sooner. Many of these problems were carried over from L-3 Technologies, which was the product of roughly 160 acquisitions over 25 years, many of which were never fully integrated. We have little doubt that if they integrate, there is indeed operational upside.

IMS margins falter on program challenges

The Integrated Mission Systems continues to be the problem child of the LHX portfolio. Management attributes some of the margin lumpiness to aircraft purchases required for ISR aircraft modernization work. No aircraft purchases are planned for 2H24, which



should alleviate some profitability burden through the year. Additionally, LHX is looking to fix operation challenges through a multitude of other tools, including leadership changes, training, and risk management programs. We look favorably on management's newfound emphasis on execution and evaluating the portfolio to streamline operations. LHX's decision to not bid on fixed-price development programs that do not fit the company's risk tolerance can also be seen as a step in the right direction.

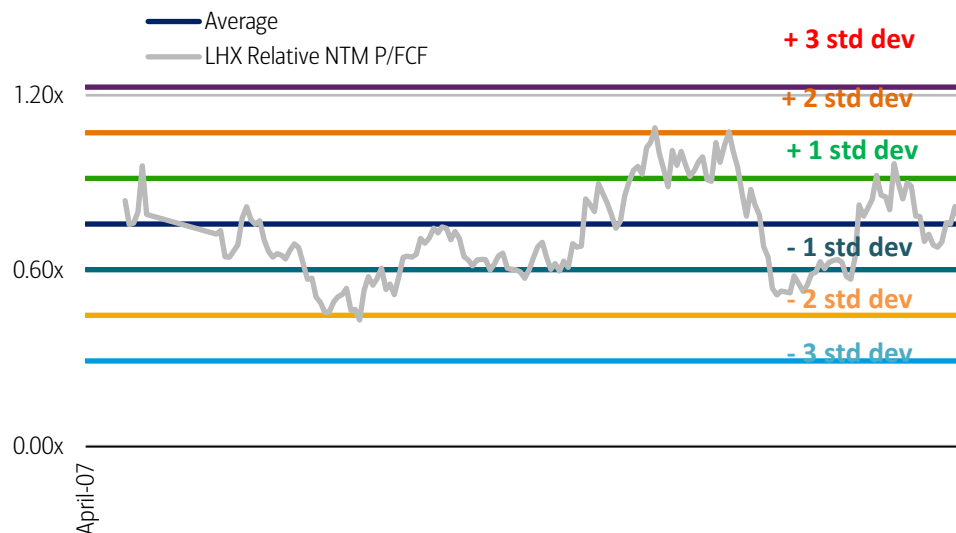
PO to \$215 and lower EPS estimates

We raise our PO to \$215 from \$210 based on a 15.8x 2024e P/FCF multiple (unchanged), which reflects a 0.8x relative multiple to the S&P 500 on 2025 estimates (unchanged). We continue to value LHX with a 0.8x relative multiple to the S&P 500 on 2025 estimates (unchanged). We believe a multiple in line with LHX's historical relative average and the historical relative average of the defense primes to the S&P 500 fairly reflects upside from heightened defense spending both domestically and abroad offset by continued operational hurdles.

We lower our EPS estimates on a softer 2024E pushing out the margin ramp through the outyears. We expect EPS of \$12.60 (vs. prior \$13.05) in 2024E, \$14.40 (vs. prior \$14.90) in 2025E, and \$15.80 (vs. prior \$16.20) in 2026E.

Exhibit 1: LHX P/FCF multiple relative to S&P 500

On average, LHX has historically traded at 0.8x the market multiple on a NTM P/FCF basis



Source: BofA Global Research, FactSet

BofA GLOBAL RESEARCH

Price objective basis & risk

L3Harris (LHX)

Our PO of \$215 is based on an 15.8x 2024E P/FCF multiple. The P/FCF multiple reflects a 0.8x relative multiple to the S&P 500 on 2025 estimates. Improved sentiment on defense spending offset by operational hurdles is reflected through a relative valuation in line with the LHX and defense historical average, in our view.

Upside risk to our PO could result from LHX winning more content on new and existing programs vs. our expectations. Downside risk to our PO could result from continued supply chain challenges and LHX not integrating LLL and HRS as we expect. Integration challenges could put a strain on cash and impact our FCF estimates.

Analyst Certification

I, Ronald J. Epstein, hereby certify that the views expressed in this research report accurately reflect my personal views about the subject securities and issuers. I also certify that no part of my compensation was, is, or will be, directly or indirectly, related to the specific recommendations or view expressed in this research report.

US - Aerospace and Defense Coverage Cluster

Investment rating	Company	BofA Ticker	Bloomberg symbol	Analyst
BUY				
	AerCap Holdings N.V.	AER	AER US	Ronald J. Epstein
	Air Lease Corporation	AL	AL US	Ronald J. Epstein
	Booz Allen Hamilton	BAH	BAH US	Mariana Perez Mora
	BWX Technologies, Inc.	BWXT	BWXT US	Ronald J. Epstein
	CACI International	CACI	CACI US	Mariana Perez Mora
	Cadre Holdings Inc	CDRE	CDRE US	Ronald J. Epstein
	Crane Co.	CR	CR US	Ronald J. Epstein
	Embraer	ERJ	ERJ US	Ronald J. Epstein
	General Dynamics	GD	GD US	Ronald J. Epstein
	HEICO Corporation	HEI	HEI US	Ronald J. Epstein
	Howmet Aerospace Inc.	HWM	HWM US	Ronald J. Epstein
	KBR	KBR	KBR US	Mariana Perez Mora
	Leidos Holdings	LDOS	LDOS US	Mariana Perez Mora
	Leonardo DRS, Inc.	DRS	DRS US	Ronald J. Epstein
	Northrop Grumman	NOC	NOC US	Ronald J. Epstein
	Palantir Technologies	PLTR	PLTR US	Mariana Perez Mora
	Parsons Corporation	PSN	PSN US	Mariana Perez Mora
	RBC Bearings Inc	RBC	RBC US	Ronald J. Epstein
	Rocket Lab	RKLB	RKLB US	Ronald J. Epstein
	Teledyne Technologies Inc	TDY	TDY US	Ronald J. Epstein
	TransDigm Group Inc.	TDG	TDG US	Ronald J. Epstein
	Triumph Group	TGI	TGI US	Ronald J. Epstein
NEUTRAL				
	Albany International	AIN	AIN US	Ronald J. Epstein
	Boeing	BA	BA US	Ronald J. Epstein
	Garmin	GRMN	GRMN US	Ronald J. Epstein
	Hexcel Corporation	HXL	HXL US	Ronald J. Epstein
	L3Harris	LHX	LHX US	Ronald J. Epstein
	Lockheed Martin	LMT	LMT US	Ronald J. Epstein
	RTX Corp	RTX	RTX US	Ronald J. Epstein
	Textron	TXT	TXT US	Ronald J. Epstein
UNDERPERFORM				
	Bombardier	BDRBF	BDRBF US	Ronald J. Epstein
	Bombardier Inc.	YBBD B	BBD/B CN	Ronald J. Epstein
	CAE Inc.	YCAE	CAE CN	Ronald J. Epstein
	CAE Inc.	CAE	CAE US	Ronald J. Epstein
	Huntington Ingalls Industries	HII	HII US	Ronald J. Epstein
	Mercury Systems	MRCY	MRCY US	Ronald J. Epstein



US - Aerospace and Defense Coverage Cluster

Investment rating	Company	BofA Ticker	Bloomberg symbol	Analyst
	Spirit AeroSys-A	SPR	SPR US	Ronald J. Epstein

iQmethodSM Measures Definitions**Business Performance**

Return On Capital Employed

Return On Equity
Operating Margin
Earnings Growth
Free Cash Flow

Quality of Earnings

Cash Realization Ratio
Asset Replacement Ratio
Tax Rate
Net Debt-To-Equity Ratio
Interest Cover

Valuation Toolkit

Price / Earnings Ratio
Price / Book Value
Dividend Yield
Free Cash Flow Yield
Enterprise Value / Sales

EV / EBITDA

Numerator

NOPAT = (EBIT + Interest Income) × (1 – Tax Rate) + Goodwill Amortization

Net Income
Operating Profit
Expected 5 Year CAGR From Latest Actual
Cash Flow From Operations – Total Capex

Numerator

Cash Flow From Operations
Capex
Tax Charge
Net Debt = Total Debt – Cash & Equivalents
EBIT

Numerator

Current Share Price
Current Share Price
Annualised Declared Cash Dividend
Cash Flow From Operations – Total Capex
EV = Current Share Price × Current Shares + Minority Equity + Net Debt +
Other LT Liabilities
Enterprise Value

Denominator

Total Assets – Current Liabilities + ST Debt + Accumulated Goodwill
Amortization
Shareholders' Equity
Sales
N/A
N/A

Denominator

Net Income
Depreciation
Pre-Tax Income
Total Equity
Interest Expense

Denominator

Diluted Earnings Per Share (Basis As Specified)
Shareholders' Equity / Current Basic Shares
Current Share Price
Market Cap = Current Share Price × Current Basic Shares
Sales

Basic EBIT + Depreciation + Amortization

iQmethodSM is the set of BofA Global Research standard measures that serve to maintain global consistency under three broad headings: Business Performance, Quality of Earnings, and validations. The key features of *iQmethod* are: A consistently structured, detailed, and transparent methodology. Guidelines to maximize the effectiveness of the comparative valuation process, and to identify some common pitfalls.

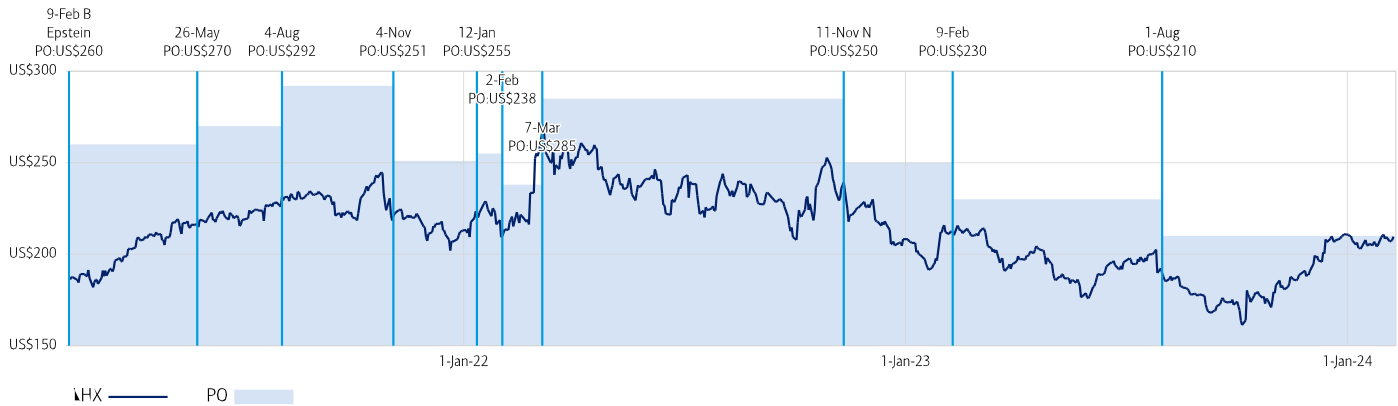
iQdatabase[®] is our real-time global research database that is sourced directly from our equity analysts' earnings models and includes forecasted as well as historical data for income statements, balance sheets, and cash flow statements for companies covered by BofA Global Research.

iQprofileSM, *iQmethodSM* are service marks of Bank of America Corporation. *iQdatabase[®]* is a registered service mark of Bank of America Corporation.

Disclosures

Important Disclosures

L3Harris (LHX) Price Chart



B: Buy, N: Neutral, U: Underperform, PO: Price Objective, NA: No longer valid, NR: No Rating

The Investment Opinion System is contained at the end of the report under the heading "Fundamental Equity Opinion Key". Dark grey shading indicates the security is restricted with the opinion suspended. Medium grey shading indicates the security is under review with the opinion withdrawn. Light grey shading indicates the security is not covered. Chart is current as of a date no more than one trading day prior to the date of the report.

Equity Investment Rating Distribution: Aerospace/Defense Electronics Group (as of 31 Dec 2023)

Coverage Universe	Count	Percent	Inv. Banking Relationships ^{R1}	Count	Percent
Buy	31	62.00%	Buy	23	74.19%
Hold	11	22.00%	Hold	9	81.82%
Sell	8	16.00%	Sell	6	75.00%

Equity Investment Rating Distribution: Global Group (as of 31 Dec 2023)

Coverage Universe	Count	Percent	Inv. Banking Relationships ^{R1}	Count	Percent
Buy	1895	53.62%	Buy	1083	57.15%
Hold	832	23.54%	Hold	454	54.57%
Sell	807	22.84%	Sell	383	47.46%

^{R1} Issuers that were investment banking clients of BofA Securities or one of its affiliates within the past 12 months. For purposes of this Investment Rating Distribution, the coverage universe includes only stocks. A stock rated Neutral is included as a Hold, and a stock rated Underperform is included as a Sell.

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

Investment rating	Total return expectation (within 12-month period of date of initial rating)	Ratings dispersion guidelines for coverage cluster ^{R2}
Buy	≥ 10%	≤ 70%
Neutral	≥ 0%	≤ 30%
Underperform	N/A	≥ 20%

^{R2} Ratings dispersions may vary from time to time where BofA Global Research believes it better reflects the investment prospects of stocks in a Coverage Cluster.

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

Price Charts for the securities referenced in this research report are available on the [Price Charts website](#), or call 1-800-MERRILL to have them mailed.

BofAS or one of its affiliates acts as a market maker for the equity securities recommended in the report: L3Harris.

BofAS or an affiliate was a manager of a public offering of securities of this issuer within the last 12 months: L3Harris.

The issuer is or was, within the last 12 months, an investment banking client of BofAS and/or one or more of its affiliates: L3Harris.

BofAS or an affiliate has received compensation from the issuer for non-investment banking services or products within the past 12 months: L3Harris.

The issuer is or was, within the last 12 months, a non-securities business client of BofAS and/or one or more of its affiliates: L3Harris.

BofAS or an affiliate has received compensation for investment banking services from this issuer within the past 12 months: L3Harris.

BofAS or an affiliate expects to receive or intends to seek compensation for investment banking services from this issuer or an affiliate of the issuer within the next three months: L3Harris.

BofAS together with its affiliates beneficially owns one percent or more of the common stock of this issuer. If this report was issued on or after the 9th day of the month, it reflects the ownership position on the last day of the previous month. Reports issued before the 9th day of a month reflect the ownership position at the end of the second month preceding the date of



the report: L3Harris.

BofAS or one of its affiliates is willing to sell to, or buy from, clients the common equity of the issuer on a principal basis: L3Harris.

The issuer is or was, within the last 12 months, a securities business client (non-investment banking) of BofAS and/or one or more of its affiliates: L3Harris.

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

Other Important Disclosures

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

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

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

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

Officers of BofAS or one or more of its affiliates (other than research analysts) may have a financial interest in securities of the issuer(s) or in related investments.

Refer to [BofA Global Research policies relating to conflicts of interest](#).

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

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

BofAS and/or Merrill Lynch, Pierce, Fenner & Smith Incorporated ("MLPF&S") may in the future distribute, information of the following non-US affiliates in the US (short name: legal name, regulator): Merrill Lynch (South Africa): Merrill Lynch South Africa (Pty) Ltd., regulated by The Financial Service Board; MLI (UK): Merrill Lynch International, regulated by the Financial Conduct Authority (FCA) and the Prudential Regulation Authority (PRA); BofASE (France): BofA Securities Europe SA is authorized by the Autorité de Contrôle Prudentiel et de Résolution (ACPR) and regulated by the ACPR and the Autorité des Marchés Financiers (AMF). BofA Securities Europe SA ("BofASE") with registered address at 51, rue La Boétie, 75008 Paris is registered under no 842 602 690 RCS Paris. In accordance with the provisions of French Code Monétaire et Financier (Monetary and Financial Code), BofASE is an établissement de crédit et d'investissement (credit and investment institution) that is authorised and supervised by the European Central Bank and the Autorité de Contrôle Prudentiel et de Résolution (ACPR) and regulated by the ACPR and the Autorité des Marchés Financiers. BofASE's share capital can be found at www.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 (HKSCF); 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 HKSCF; 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.

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.

BofA ESGMeter Methodology:

ESGMeter is a proprietary metric based on quantitative analysis and fundamental analyst inputs that reflects our assessment of a company's Environmental, Social and Governance-related attributes. The ESGMeter is intended to indicate a company's likelihood of experiencing stronger financial stability (higher return on equity and lower earnings and price volatility) over the next three years relative to peer group. There are three ESGMeter levels - Low, Medium, and High - which indicate whether a company has attributes most likely to translate into superior financial stability (in the case of a High level) or weaker financial stability (in the case of a Low level) over the next three years relative to its peer group. A Medium level suggests that a company exhibits ESG characteristics that are likely associated with financial stability results in line with its peer group over the next three years. Full details of our methodology, financial stability definition and disclaimers are available at [BofA ESGMeter methodology](#). ESGMeter is not indicative of a company's future stock price performance and is not an investment recommendation or rating.

ESGMeter is independent of the BofA Global Research fundamental equity analyst's investment rating, volatility risk rating, income rating or price objective for that company.

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 or 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.

Subject to the quiet period applicable under laws of the various jurisdictions in which we distribute research reports and other legal and BofA Securities policy-related restrictions on the publication of research reports, fundamental equity reports are produced on a regular basis as necessary to keep the investment recommendation current.

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.

