

## Adobe

# Slower Al ramp impacts Q1/outlook; medium-term opportunity intact

Reiterate Rating: BUY | PO: 640.00 USD | Price: 570.45 USD

## Softness raises concerns on ability to monetize Al

Adobe reported disappointing Q1 results and introduced uncertainty by not updating FY24E guidance for digital media net new ARR or EPS, which is a break from the past. Net new digital media ARR for Q1 of \$432 million represents a \$22 million beat from guidance, coming down from the previous range of \$49 million to \$54 million in each of the last three quarters. Coupled with the lack of FY24E guidance, this reintroduces concerns about Adobe's pricing power to monetize AI offerings like Firefly.

## An intentional pivot to proliferation is the right tradeoff

A still a tough comparison with the price increase was again cited as the reason for the softer upside. However, an intentional pivot to proliferation of Al for later monetization appears to be the real culprit. Adobe is not alone amongst software platforms moving toward that strategy. A number of developments suggest that the success of this strategy could become more apparent later this year. Notably, 6.5 billion images generated on Firefly is up 2 billion from the end of Q4 (largely keeping pace with a solid 2.5 billion incremental in the prior quarter), which represents a significant base for potential upsell. Also, a number of more credit intensive Al services like text to video and music composition are slated to launch later this year, which have potential for meaningful credit consumption and incremental revenue.

## Multiple paths for monetization later this year & long term

This backs the company's expectation for an H2 digital media ARR acceleration (in addition to incremental pricing). We also highlight that Digital Media growth is increasingly more balanced between Document Cloud and Creative Cloud (Document Cloud represented 33% of total new digital media ARR, versus 25% in Q1F23), which provides a more diversified growth profile. With an equally impressive list of enterprise AI offerings to be embedded into Document Cloud, we believe this line of business is likely to continue driving incremental ARR growth.

## No change to positive view of Adobe as early Al beneficiary

No change to our view that Adobe is a major AI beneficiary. While the monetization ramp is slower than anticipated, Firefly is one of the mostly widely used generative AI offerings, with potential for multiple paths to monetization (Firefly and others) later this year and over the longer term. We reiterate our Buy rating, lowering our PO to \$640 (28x C25E FCF) from \$700 (was 31x C25E FCF) to reflect to slower monetization ramp.

Estimates (Nov) (US\$)	2022A	2023A	2024E	2025E	2026E		
EPS	13.72	16.06	17.85	20.43	23.45		
EPS Change (YoY)	10.0%	17.1%	11.1%	14.5%	14.8%		
Consensus EPS (Bloomberg)			17.94	20.34	23.45		
DPS	0	0	0	0	0		
Valuation (Nov)							
P/E	41.6x	35.5x	32.0x	27.9x	24.3x		
EV / EBITDA*	28.9x	26.0x	24.0x	21.6x	19.3x		
Free Cash Flow Yield*	2.9%	2.7%	3.2%	3.9%	4.5%		
* For full definitions of <i>IQ</i> nethod <sup>SM</sup> measures, see page 6.							

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.

#### 14 March 2024

#### Equity

Key Changes		
(US\$)	Previous	Current
Price Obj.	700.00	640.00
2024E Rev (m)	21,400.1	21,398.6
2025E Rev (m)	23,947.5	23,876.7
2026E Rev (m)	26,766.5	26,689.2
2024E EPS	17.80	17.85
2025E EPS	20.25	20.43
2026E EPS	23.03	23.45

**Brad Sills** Research Analyst BofAS

+1 415 436 1400 brad.sills@bofa.com

Adam Bergere Research Analyst BofAS +1 415 279 8591 adam.bergere@bofa.com

#### **Stock Data**

Price	5/0.45 USD
Price Objective	640.00 USD
Date Established	14-Mar-2024
Investment Opinion	B-1-9
52-Week Range	328.17 USD - 638.25 USD
Mrkt Val (mn) / Shares Out	257,843 USD / 452.0
(mn)	
Free Float	99.8%
Average Daily Value (mn)	1943.41 USD
BofA Ticker / Exchange	ADBE / NAS
Bloomberg / Reuters	ADBE US / ADBE.OQ
ROE (2024E)	50.7%
Net Dbt to Eqty (Nov-2023A)	-46.2%
ESGMeter™	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".

MM = mid market

DM = Digital Media

ARR = annual recurring revenue

## **iQ**profile<sup>™</sup> Adobe

iQmethod <sup>SM</sup> − Bus Performance*					
(US\$ Millions)	2022A	2023A	2024E	2025E	2026
Return on Capital Employed	33.1%	37.4%	39.7%	42.8%	59.0%
Return on Equity	44.8%	50.0%	50.7%	52.1%	75.6%
Operating Margin	45.1%	45.9%	45.5%	45.8%	46.1%
Free Cash Flow	7,396	6,942	8,298	10,167	11,672
<i>iQ</i> method <sup>™</sup> – <b>Quality of Earnings*</b>					
(US\$ Millions)	2022A	2023A	2024E	2025E	2026
Cash Realization Ratio	1.2x	1.0x	1.1x	1.1x	1.2>
Asset Replacement Ratio	0.5x	0.4x	0.3x	0.3x	0.3
Tax Rate	18.0%	18.5%	18.5%	18.5%	18.5%
Net Debt-to-Equity Ratio	-30.1%	-46.2%	-44.8%	-51.2%	0%
Interest Cover	NM	NA	NA	NA	NA
Income Statement Data (Nov)					
(US\$ Millions)	2022A	2023A	2024E	2025E	2026
Sales	17,606	19,409	21,399	23,877	26,689
% Change	11.5%	10.2%	10.3%	11.6%	11.8%
Gross Profit	15,768	17,376	19,135	21,449	24,035
% Change	11.3%	10.2%	10.1%	12.1%	12.1%
EBITDA	8,801	9,790	10,577	11,772	13,144
% Change	9.4%	11.2%	8.0%	11.3%	11.7%
Net Interest & Other Income	(71)	133	172	206	248
Net Income (Adjusted) % Change	6,457 7.6%	7,377 14.2%	8,071 9.4%	9,073 12.4%	10,225 12.7%
Free Cash Flow Data (Nov)					
(US\$ Millions)	2022A	2023A	2024E	2025E	2026
• •	4,756	5,428			
Net Income from Cont Operations (GAAP)  Depreciation & Amortization	4,756 856	5,426 872	5,264 848	7,122 848	8,115 848
Change in Working Capital	(200)	(891)	(626)	(551)	(362
Deferred Taxation Charge	NA	NA	NA	NA	(302 N/
Other Adjustments, Net	2,426	1,893	3,040	2,985	3,308
Capital Expenditure	(442)	(360)	(228)	(237)	(237
Free Cash Flow	7,396	6,942	8,298	10,167	11,672
% Change	7.3%	-6.1%	19.5%	22.5%	14.8%
Share / Issue Repurchase	(6,884)	(5,190)	(8,500)	(8,500)	(8,500)
Cost of Dividends Paid	0	0	0	0	(
Change in Debt	0	0	0	0	(
Balance Sheet Data (Nov)					
(US\$ Millions)	2022A	2023A	2024E	2025E	2026
Cash & Equivalents	4,236	7,141	7,349	9,427	(
Trade Receivables	2,065	2,224	3,119	4,167	4,969
Other Current Assets	2,695	1,719	1,686	1,692	1,686
Property, Plant & Equipment	1,908	2,030	1,988	1,988	1,988
Other Non-Current Assets	16,261	15,593	15,597	15,807	16,036
Total Assets	27,165	28,707	29,738	33,081	24,679
Short-Term Debt	0	0	0	0	12.240
Other Current Liabilities	8,128	8,251	9,558	10,886	12,240
Long-Term Debt	4.096	0 E 010	2 777	2 770	2 707
Other Non-Current Liabilities <b>Total Liabilities</b>	4,986	5,010	3,777	3,778 14 664	3,797
Total Equity	13,114 14,051	13,261 15,446	13,335 16,403	14,664 18,417	16,037 8,642
Total Equity Total Equity & Liabilities	27,165	28,707	29,738	33,081	24,679
rotal Equity & Liabilities	27,100	20,707	25,730	33,001	24,0/9

## **Company Sector**

Server & Enterprise Software

## **Company Description**

Adobe is a diversified software company that offers electronic document technology and graphic content authoring applications to creative professionals, designers, knowledge workers, high-end consumers, developers and enterprises. Flagship products from Adobe include Creative Suite, Photoshop, Acrobat, Premiere, Dreamweaver, Illustrator, InDesign and LiveCycle. PDF and Flash technologies from the company have become industry standards and act as a platform for other Adobe products.

#### **Investment Rationale**

Adobe looks well positioned to continue gaining share across its product suite given its competitive advantages: 1) large Creative Cloud subscriber base 2) distribution channel of 4,900 sales & marketing personnel 3) breadth & depth of the digital content and experience software suite. This is balanced by 1) competition from point solutions, 2) slowing adoption with potential saturation in the core creative professional market segment, and 3) acquisitions may weigh on margins and profitability.

#### **Stock Data**

Average Daily Volume

3,514,842

### **Quarterly Earnings Estimates**

	2023	2024
Q1	3.80A	4.48E
Q2	3.91A	4.38E
Q3	4.09A	4.43E
Q4	4.27A	4.55E

## Earnings review & estimate changes

## Exhibit 1: Reported versus BofA estimates

Revenue landed +1% ahead of our estimate

\$ in Millions	BofA	1Q24	Variance
(except per share data)	Estimates	actuals	
Digital Media	\$3,781	\$3,816	1%
Digital Experience	\$1,280	\$1,289	1%
Publishing & Advertising	\$71	\$7,203	8%
Total revenue	\$5,132	\$5,182	1%
Total revenue	33,132	<b>33,102</b>	1 70
Cost of revenues	\$521	\$560	7%
Gross Profit	\$4,611	\$4,622	0%
Operating Expenses			
Sales and marketing	\$1,249	\$1,216	-3%
Research and development	\$676	\$703	4%
General and administrative	\$303	\$285	-6%
Total Operating Expenses	\$2,228	\$2,155	-3%
PF Operating Income (loss)	\$2,383	\$2,467	4%
Interest and other income (expense), net	\$61	\$43	-30%
Income (loss) before provision for income taxes	\$2,444	\$2,510	3%
Not become	£1.003	£2.046	30/
Net Income EPS (diluted)	\$1,992 \$ 4.37	\$2,046 \$ 4.48	3% 3%
Weighted Average Diluted Shares Outstanding	456	456	0%
Growth Analysis - Y-Y			
Digital Media	11%	12%	1.0%
Digital Experience	9%	10%	0.7%
Publishing & Advertising	-15%	-8%	6.7%
Total Revenues	10%	11%	1.1%
Gross profit	10.6%	10.8%	0.3%
Non-GAAP net income	14.1%	17.2%	3.1%
Margin Analysis			
Total gross margin	88.3%	89.2%	0.9%
	12.20	12.60/	0.40/
Sales and marketing	13.2%	13.6%	0.4%
Research and development	24.3%	23.5%	-0.9%
General and administrative	5.9%	5.5%	-0.4%
Operating Margin	46.4%	47.6%	1.2%
Pre-tax margin	47.6%	48.4%	0.8%
Net Margin	38.8%	39.5%	0.7%
Balance Sheet & Cash Flow Data			
Cash & equivalents	\$8,318	\$6,254	-24.8%
Deferred revenue	\$129	\$135	4.4%
Cash flow from operations	\$2,284	\$1,174	-48.6%
Free cash flow	\$2,194	\$1,137	-48.2%

**Source:** BofA Global Research estimates, company report

BofA GLOBAL RESEARCH



**Exhibit 2: BofA estimate changes**We estimate \$21.4 billion (+10% y/y) of revenue for FY24E

	2Q24E			FY24E			FY25E					
	Previous	Previous	New	New Y/Y	Previous	Previous	New	New Y/Y	Previous	Previous	New	New Y/Y
	Estimate	Y/Y Growth	Estimate	Growth	Estimate	Y/Y Growth	Estimate	Growth	Estimate	Y/Y Growth	Estimate	Growth
												ļ
Digital Media	\$3,888	10.8%	\$3,888	10.8%	\$15,810	11.2%	\$15,816	11.3%	\$17,769	12.4%	\$17,776	12.4%
Digital Experience	\$1,329	8.8%	\$1,321	8.1%	\$5,326	8.9%	\$5,314	8.6%	\$5,941	11.5%	\$5,858	10.3%
Publishing & Advertising	\$73	-12.5%	\$73	-12.5%	\$264	-12.1%	\$269	-10.2%	\$237	-10.0%	\$242	-10.0%
Total revenue	\$5,290	9.8%	\$5,282	9.7%	\$21,400	10.3%	\$21,399	10.3%	\$23,947	11.9%	\$23,877	11.6%
Operating profit	\$2,378	9.1%	\$2,392	9.7%	\$9,683	8.6%	\$9,729	9.1%	\$10,902	12.6%	\$10,924	12.3%
PF operating margin	44.9%		45.3%		45.2%		45.5%		45.5%		45.8%	
Net Income	\$1,987	10.8%	\$1,985	10.6%	\$8,089	9.7%	\$8,071	9.4%	\$9,122	12.8%	\$9,073	12.4%
PF EPS	\$4.37	11.8%	\$4.38	12.1%	\$17.80	10.8%	\$17.85	11.1%	\$20.25	13.8%	\$20.43	14.5%
FCF	\$2,697	33.6%	\$2,880	42.7%	\$9,178	32.2%	\$8,298	19.5%	\$10,132	10.4%	\$10,167	22.5%
Digital Media ARR	\$16,244	14.9%	\$16,204	14.6%	\$17,232	13.6%	\$17,232	13.6%	\$19,528	13.3%	\$19,729	14.5%
Creative Cloud ARR	\$13,185	13.3%	\$13,137	12.9%	\$13,945	12.8%	\$13,897	12.4%	\$15,572	11.7%	\$15,476	11.4%
Document Cloud ARR	\$3,059	22.3%	\$3,067	22.6%	\$3,287	17.2%	\$3,335	18.9%	\$3,956	20.4%	\$4,253	27.5%

 $\textbf{Source:} \ \mathsf{BofA} \ \mathsf{Global} \ \mathsf{Research} \ \mathsf{estimates}, \mathsf{company} \ \mathsf{report}$ 

BofA GLOBAL RESEARCH

## Price objective basis & risk

## Adobe (ADBE)

Our PO of \$640 is based on an EV/FCF multiple of 28x our C25E free cash flow estimate. This represents 1.2x our 3-year high teens FCF CAGR, a discount to the large-cap GARP (growth at reasonable price) software group average of 1.3x. We view a discount is justified given choppier recent execution as well as a slower AI monetization ramp versus peers.

Risks to our PO are 1) competition from point solutions and platform vendors, 2) application spending cyclicality, and 3) future acquisitions, which could weigh on margin expansion.

## **Analyst Certification**

I, Brad Sills, 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 - Enterprise Software Coverage Cluster** 

Investment rating	Company	BofA Ticker	Bloomberg symbol	Analyst
BUY				
	8x8	EGHT	EGHT US	Michael J. Funk
	Adobe	ADBE	ADBE US	Brad Sills
	Alarm.com	ALRM	ALRM US	Michael J. Funk
	Amplitude, Inc.	AMPL	AMPL US	Koji Ikeda, CFA
	Asana	ASAN	ASAN US	Michael J. Funk
	BILL	BILL	BILL US	Brad Sills
	CCC Intelligent Solutions	CCCS	CCCS US	Michael J. Funk
	Dynatrace	DT	DT US	Koji Ikeda, CFA
	Elastic NV	ESTC	ESTC US	Koji Ikeda, CFA
	GitLab Inc.	GTLB	GTLB US	Koji Ikeda, CFA
	Global-e Online Ltd.	GLBE	GLBE US	Koji Ikeda, CFA
	HubSpot	HUBS	HUBS US	Brad Sills
	Informatica Inc.	INFA	INFA US	Koji Ikeda, CFA
	Intapp Inc.	INTA	INTA US	Koji Ikeda, CFA
	Intuit	INTU	INTU US	Brad Sills
	JFrog Ltd	FROG	FROG US	Koji Ikeda, CFA
	MeridianLink, Inc.	MLNK	MLNK US	Koji Ikeda, CFA
	Microsoft Corporation	MSFT	MSFT US	Brad Sills
	Monday.com	MNDY	MNDY US	Michael J. Funk
	MongoDB Inc	MDB	MDB US	Brad Sills
	nCino, Inc.	NCNO	NCNO US	Adam Bergere
	NICE Ltd.	NICE	NICE US	Michael J. Funk
	NICE Ltd.	NCSYF	NICE IT	Michael J. Funk
	PagerDuty	PD	PD US	Koji Ikeda, CFA
	PowerSchool Holdings, Inc.	PWSC	PWSC US	Koji Ikeda, CFA
	RingCentral	RNG	RNG US	Michael J. Funk
	Salesforce.com	CRM	CRM US	Brad Sills
	ServiceNow	NOW	NOW US	Brad Sills
	UiPath	PATH	PATH US	Brad Sills
	Unity	U	U US	Michael J. Funk
	Weave	WEAV	WEAV US	Michael J. Funk
	Workday Inc.	WDAY	WDAY US	Brad Sills
	Zeta Global	ZETA	ZETA US	Koji Ikeda, CFA
	ZoomInfo	ZI	ZI US	Koji Ikeda, CFA
NEUTRAL				
	Autodesk	ADSK	ADSK US	Michael J. Funk
	Bentley Systems	BSY	BSY US	Michael J. Funk
	BigCommerce Holdings, Inc.	BIGC	BIGC US	Koji Ikeda, CFA
	0,			,



## **US - Enterprise Software Coverage Cluster**

Investment rating	Company	BofA Ticker	Bloomberg symbol	Analyst
	Coveo	YCVO	CVO CN	Koji Ikeda, CFA
	Datadog Inc	DDOG	DDOG US	Koji Ikeda, CFA
	DocuSign	DOCU	DOCU US	Brad Sills
	Freshworks, Inc.	FRSH	FRSH US	Adam Bergere
	HashiCorp	HCP	HCP US	Brad Sills
	Jamf	JAMF	JAMF US	Koji Ikeda, CFA
	Lightspeed Commerce Inc.	LSPD	LSPD US	Koji Ikeda, CFA
	Lightspeed Commerce Inc.	YLSPD	LSPD CN	Koji Ikeda, CFA
	Oracle Corporation	ORCL	ORCL US	Brad Sills
	Paycom	PAYC	PAYC US	Adam Bergere
	Paylocity	PCTY	PCTY US	Adam Bergere
	Shopify, Inc.	SHOP	SHOP US	Brad Sills
	Snowflake	SNOW	SNOW US	Brad Sills
	Veeva Systems, Inc.	VEEV	VEEV US	Brad Sills
	Vertex, Inc.	VERX	VERX US	Brad Sills
	Zoom Video Communications	ZM	ZM US	Michael J. Funk
UNDERPERFORM				
	AvidXchange, Inc.	AVDX	AVDX US	Brad Sills
	Blackbaud, Inc.	BLKB	BLKB US	Koji Ikeda, CFA
	BlackLine, Inc.	BL	BL US	Koji Ikeda, CFA
	C3.ai	Al	AI US	Brad Sills
	Confluent	CFLT	CFLT US	Brad Sills
	CS Disco, Inc.	LAW	LAW US	Koji Ikeda, CFA
	Dropbox	DBX	DBX US	Michael J. Funk
	Enfusion, Inc.	ENFN	ENFN US	Koji Ikeda, CFA
	Five9	FIVN	FIVN US	Michael J. Funk
	Guidewire Software, Inc.	GWRE	GWRE US	Michael J. Funk
	Smartsheet	SMAR	SMAR US	Michael J. Funk
	Twilio	TWLO	TWLO US	Michael J. Funk
RSTR				
110:11	Splunk	SPLK	SPLK US	Brad Sills
	-F	J. J. (	2. 2., 65	

## **IQ**method<sup>™</sup> Measures Definitions

<b>Business Performance</b>	Numerator	Denominator
Return On Capital Employed	NOPAT = (EBIT + Interest Income) $\times$ (1 $-$ Tax Rate) + Goodwill Amortization	Total Assets – Current Liabilities + ST Debt + Accumulated Goodwill
Return On Equity	Net Income	Amortization Shareholders' Equity
Operating Margin	Operating Profit	Sales
Earnings Growth	Expected 5 Year CAGR From Latest Actual	N/A
Free Cash Flow	Cash Flow From Operations — Total Capex	N/A
Quality of Earnings	Numerator	Denominator
Cash Realization Ratio	Cash Flow From Operations	Net Income
Asset Replacement Ratio	Capex	Depreciation
Tax Rate	Tax Charge	Pre-Tax Income
Net Debt-To-Equity Ratio	Net Debt = Total Debt - Cash & Equivalents	Total Equity
Interest Cover	EBIT	Interest Expense
Valuation Toolkit	Numerator	Denominator
Price / Earnings Ratio	Current Share Price	Diluted Earnings Per Share (Basis As Specified)
Price / Book Value	Current Share Price	Shareholders' Equity / Current Basic Shares
Dividend Yield	Annualised Declared Cash Dividend	Current Share Price
Free Cash Flow Yield	Cash Flow From Operations – Total Capex	Market Cap = Current Share Price × Current Basic Shares
Enterprise Value / Sales	EV = Current Share Price × Current Shares + Minority Equity + Net Debt +	Sales
	Other LT Liabilities	
EV / EBITDA	Enterprise Value	Basic EBIT + Depreciation + Amortization

Manethod suis 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.

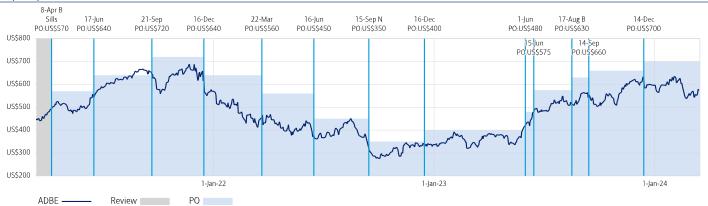
\*\*Rotatabase\*\* is our real-time global research database that is sourced directly from our equity analysts' earnings models and includes forecasted as well as historical data for income statements, balance sheets, and cash flow statements for companies covered by BofA Global Research.

**/Q**profile<sup>SM</sup>, **/Q**method<sup>SM</sup> are service marks of Bank of America Corporation. **/Q**database ® is a registered service mark of Bank of America Corporation.

## **Disclosures**

## **Important Disclosures**

#### Adobe (ADBE) 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: Technology Group (as of 31 Dec 2023)

Coverage Universe	Count	Percent	Inv. Banking Relationships R1	Count	Percent
Buy	215	53.09%	Buy	111	51.63%
Hold	97	23.95%	Hold	45	46.39%
Sell	93	22.96%	Sell	24	25.81%

#### 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<sup>R2</sup>

Buy	≥ 10%	≤ 70%
Neutral	≥ 0%	≤ 30%
Inderperform	N/A	≥ 20%

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: Adobe.

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

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

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: Adobe.

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

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: Adobe. 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: Adobe.

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: Adobe.

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 (Hong Kong): Merrill (Hong Ko (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): Merrill Lynch (Mexico): Merrill Ly de Bolsa, regulated by the Comisión Nacional Bancaria y de Valores; Merrill Lynch (Argentina): Merrill Lynch Argentina SA, regulated by Comisión Nacional de Valores; BofAS Japan: BofA Securities Japan Co., Ltd., regulated by the Financial Services Agency; Merrill Lynch (Seoul): Merrill Lynch International, LLC Seoul Branch, regulated by the Financial Supervisory Service; Merrill Lynch (Taiwan): Merrill Lynch Securities (Taiwan) Ltd., regulated by the Securities and Futures Bureau; BofAS India: BofA Securities India Limited, regulated by the Securities and Exchange Board of India (SEBI); Merrill Lynch (Israel): Merrill Lynch (Israel): Merrill Lynch (Israel): Merrill Lynch (Israel) (Israel): Merrill Lynch (Israel): Merr Financial Services Authority (DFSA); Merrill Lynch (Brazil): Merrill Lynch KSA Corretora de Títulos e Valores Mobiliários, regulated by Comissão de Valores Mobiliários; Merrill Lynch KSA Company: Merrill Lynch Kingdom of Saudi Arabia Company, regulated by the Capital Market Authority.

This information: has been approved for publication and is distributed in the United Kingdom (UK) to professional clients and eligible counterparties (as each is defined in the rules of the FCA and the PRA) by MLI (UK), which is authorized by the PRA and regulated by the FCA and the PRA - details about the extent of our regulation by the FCA and PRA are available from us on request; has been approved for publication and is distributed in the European Economic Area (EEA) by BofASE (France), which is authorized by the ACPR and regulated by the ACPR and the AMF; has been considered and distributed in Japan by BofAS Japan, a registered securities dealer under the Financial Instruments and Exchange Act in Japan, or its permitted affiliates; is issued and distributed in Hong Kong by Merrill Lynch (Hong Kong) which is regulated by HKSFC; is issued and distributed in Taiwan by Merrill Lynch (Taiwan); is issued and distributed in 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 rul

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 legal proceeding 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 in

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.

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.

