

Zoom Video Communications

4Q24 Wrap: Growth decel offset by returns to shareholders

Reiterate Rating: NEUTRAL | PO: 78.00 USD | Price: 63.12 USD

Decelerating growth with shareholder returns

Zoom is guiding for 1.6% Y/Y revenue growth in FY25 versus 3.1% in FY24. Revenue growth is projected to bottom in 2Q and accelerate in the back half of the year on Zoom Phone and Zoom Contact Center growth. Returns to shareholders (a \$1.5bn repurchase program we expect to be completed in the next 12-18 months) and strong FCF generation offsets revenue headwinds and downside risk to growth, in our view. Management left open the potential for strategic acquisitions, which could alter the growth profile. We would evaluate M&A based on projected accretion/dilution and strategic fit.

4Q24 results solid, FY25 guidance mostly in line

Total revenue of \$1.146bn (+2.6% y/y) was above our estimate of \$1.129bn. Non-GAAP operating income of \$444mn also exceeded our \$417mn forecast. Management provided 1Q25 revenue guidance of \$1.125bn (\$1.125bn cc), relatively in line with consensus of \$1.131bn. Additionally, 1Q25 non-GAAP income from operations guidance of \$413mn at the mid and EPS range of \$1.18-\$1.20 were above our previous estimates of \$410mn and \$1.12 respectively. ZM introduced its full year FY25 revenue guidance of \$4.600bn (\$4.597bn cc), compared to our previous estimate of \$4.645bn and consensus of \$4.633bn. ZM also introduced FY25 non-GAAP operating income guidance of \$1.725bn at the mid, above our prior forecast of \$1.708bn.

Topline outlook largely unchanged, increasing Adj EPS ests

We update our estimates to reflect results and management guidance. While our revenue estimates remain broadly unchanged, we increase our FY25 non-GAAP EPS estimate by 6%, and lower our FY25 FCF estimate by 6% to reflect guidance.

Reiterate Neutral, but lower PO to \$78 (from \$90)

Our new \$78 PO is based on a CY25E FCF multiple of 11x (prior 14.0x on '24, we roll our multiple forward) and represents a FCF yield of 9%. The 11x multiple is a discount to the less than 20% growth software peer group trading at 28x. This discount is warranted, in our view, based on ZM's weaker visibility with regard to future growth trajectory and an increasingly competitive XCaaS environment.

Estimates (Jan) (US\$)	2023A	2024A	2025E	2026E	2027E
EPS	4.37	5.21	4.83	4.60	4.45
GAAP EPS	0.35	2.12	2.12	2.43	2.34
EPS Change (YoY)	-13.8%	19.2%	-7.3%	-4.8%	-3.3%
Consensus EPS (Bloomberg)			4.72	4.77	NA
DPS	0	0	0	0	0
Valuation (Jan)					
P/E	14.4x	12.1x	13.1x	13.7x	14.2x
GAAP P/E	180.3x	29.8x	29.8x	26.0x	27.0x
EV / EBITDA*	6.8x	6.0x	6.2x	5.9x	5.8x
Free Cash Flow Yield*	6.1%	7.5%	7.3%	8.2%	8.4%
* For full definitions of <i>IQ</i> method sm measures, see page 10.					

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 12 to 14. Analyst Certification on page 9. Price Objective Basis/Risk on page 9.

Timestamp: 27 February 2024 05:00AM EST

27 February 2024

Equity

Key Changes		
(US\$)	Previous	Current
Price Obj.	90.00	78.00
2025E Rev (m)	4,645.3	4,620.1
2026E Rev (m)	4,854.1	4,806.1
2027E Rev (m)	NA	4,932.3
2025E EPS	4.55	4.83
2026E EPS	4.45	4.60
2027E EPS	NA	4.45

Michael J. Funk Research Analyst BofAS +1 646 855 5664 michael.i.funk@bofa.com

Matt Bullock Research Analyst BofAS +1 646 556 2903 matthew.bullock2@bofa.com

Stock Data

Price	63.12 USD
Price Objective	78.00 USD
Date Established	27-Feb-2024
Investment Opinion	C-2-9
52-Week Range	58.87 USD - 76.98 USD
Mrkt Val (mn) / Shares Out	19,592 USD / 310.4
(mn)	
Free Float	91.0%
Average Daily Value (mn)	191.44 USD
BofA Ticker / Exchange	ZM / NAS
Bloomberg / Reuters	ZM US / ZM.OQ
ROE (2025E)	17.6%
Net Dbt to Eqty (Jan-2024A)	-86.8%
ESGMeter™	Medium

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".

NDER-net dollar expansion rate

iQprofile[™]Zoom Video Communications

iQmethod [™] – Bus Performance*					
(US\$ Millions)	2023A	2024A	2025E	2026E	2027E
Return on Capital Employed	12.8%	18.7%	14.9%	12.8%	11.3%
Return on Equity	22.2%	22.6%	17.6%	15.0%	13.2%
Operating Margin	35.9%	39.2%	37.4%	37.9%	37.9%
Free Cash Flow	1,186	1,472	1,439	1,608	1,642

*i***Q**method SM − **Quality of Earnings***

(US\$ Millions)	2023A	2024A	2025E	2026E	2027E
Cash Realization Ratio	1.0x	1.0x	1.0x	1.1x	1.1x
Asset Replacement Ratio	1.3x	1.2x	1.5x	1.5x	1.5x
Tax Rate	58.4%	23.4%	22.3%	25.0%	25.4%
Net Debt-to-Equity Ratio	-87.2%	-86.8%	-86.8%	-88.2%	-89.2%
Interest Cover	NA	NA	NA	NA	NA

Income Statement Data (Jan)

(US\$ Millions)	2023A	2024A	2025E	2026E	2027E
Sales	4,393	4,527	4,620	4,806	4,932
% Change	7.1%	3.1%	2.1%	4.0%	2.6%
Gross Profit	3,480	3,619	3,675	3,846	3,947
% Change	11.5%	4.0%	1.6%	4.6%	2.6%
EBITDA	1,661	1,879	1,821	1,916	1,966
% Change	-0.8%	13.1%	-3.1%	5.2%	2.6%
Net Interest & Other Income	41	197	172	177	177
Net Income (Adjusted)	1,329	1,608	1,559	1,577	1,615
% Change	-14.2%	21.0%	-3.1%	1.2%	2.4%

Free Cash Flow Data (Jan)

(US\$ Millions)	2023A	2024A	2025E	2026E	2027E
Net Income from Cont Operations (GAAP)	104	637	669	816	832
Depreciation & Amortization	82	104	92	96	99
Change in Working Capital	(413)	(255)	(443)	(293)	(302)
Deferred Taxation Charge	NA	NA	NA	NA	NA
Other Adjustments, Net	1,517	1,112	1,259	1,133	1,161
Capital Expenditure	(104)	(127)	(139)	(144)	(148)
Free Cash Flow	1,186	1,472	1,439	1,608	1,642
% Change	-8.4%	24.1%	-2.2%	11.8%	2.1%
Share / Issue Repurchase	43	10	0	0	0
Cost of Dividends Paid	0	0	0	0	0
Change in Debt	0	0	0	0	0

Balance Sheet Data (Jan)

(US\$ Millions)	2023A	2024A	2025E	2026E	2027E
Cash & Equivalents	5,413	6,962	8,401	10,010	11,652
Trade Receivables	557	536	626	738	1,013
Other Current Assets	386	428	756	848	874
Property, Plant & Equipment	253	294	340	388	437
Other Non-Current Assets	1,519	1,710	1,513	1,332	1,060
Total Assets	8,128	9,930	11,636	13,316	15,035
Short-Term Debt	0	0	0	0	0
Other Current Liabilities	1,739	1,762	1,798	1,809	1,813
Long-Term Debt	0	0	0	0	0
Other Non-Current Liabilities	183	148	161	156	160
Total Liabilities	1,921	1,910	1,959	1,965	1,973
Total Equity	6,207	8,019	9,677	11,351	13,062
Total Equity & Liabilities	8,128	9,930	11,636	13,316	15,035

^{*} For full definitions of \emph{IQ} method $^{\text{SM}}$ measures, see page 10.

Company Sector

Server & Enterprise Software

Company Description

Zoom is the leader in the video conferencing market. Zoom is a video-first enterprise communication platform that addresses customer pain points with legacy conferencing solutions. The company's mission is to provide a video-led communications solution for enterprises that "just works" and fundamentally changes the way people interact.

Investment Rationale

Zoom provides a leading platform for video meetings and is positioned well to capture more wallet share with other forms of communication, in our view. However, as the pandemic subsides in 2022 and Zoom faces reopening headwinds with a broader slowdown in both new customer growth and expansion activity, and heightened Online churn. This provides little certainty as to the bottom for growth.

Stock Data

Average Daily Volume 3,033,003

Quarterly Earnings Estimates

	2024	2025
Q1	1.16A	1.17E
Q2	1.34A	1.22E
Q3	1.29A	1.23E
04	1.42A	1.21E



4Q24 results solid, FY25 guidance mostly in line

Total revenue of \$1.146bn (\pm 2.6% y/y) was above our estimate of \$1.129bn. Non-GAAP operating income of \$444mn also exceeded our \$417mn forecast. Management provided 1Q25 revenue guidance of \$1.125bn (\$1.125bn cc), relatively in line with consensus of \$1.131bn. Additionally, 1Q25 non-GAAP income from operations guidance of \$413mn at the mid and EPS range of \$1.18-\$1.20 were above our previous estimates of \$410mn and \$1.12 respectively. ZM introduced its full year FY25 revenue guidance of \$4.600bn (\$4.597bn cc), compared to our previous estimate of \$4.645bn and consensus of \$4.633bn. ZM also introduced FY25 non-GAAP operating income guidance of \$1.725bn at the mid, above our prior forecast of \$1.708bn.



Exhibit 1: ZM's 4Q24 revenue was 2% above our estimate Variance analysis

\$ in millions	BofA	4Q24	Variance
(except per share data)	Estimates	Actuals	
Total revenues	\$1,129	\$1,146	29
Total cost of revenues	\$236	\$239	19
Gross profit	\$893	\$907	29
Operating expenses			
Research and development	\$105	\$114	90
Sales and marketing	\$287	\$279	-30
General and administrative	\$85	\$71	-16 ⁰
Total operating expense	\$476	\$464	-39
Income/(Loss) from operations	\$417	\$444	79
Other income (expense), net	\$41	\$83	1029
Net income before taxes	\$458	\$527	159
Income tax expense	\$101	\$83	-189
Proforma net income	\$357	\$444	249
Proforma EPS	\$1.14	\$1.42	249
GAAP Net Income	\$96.20	\$298.83	2119
GAAP EPS	\$0.32	\$0.98	2099
Diluted shares outstanding (proforma)	312	313	19
Growth Analysis Y-Y			
Total revenues	1.0%	2.6%	1569
Income/(Loss) from operations	2.9%	9.6%	230.99
Proforma net income	-2.6%	21.1%	N.
Proforma EPS	-6.0%	16.4%	N
Margin Analysis			r
Gross margin	79.1%	79.2%	09
Research and development	9.3%	9.9%	79
Sales and marketing	25.4%	24.3%	-40
General and administrative	7.5%	6.2%	-179
Operating margin	36.9%	38.7%	59
Pre-tax margin	40.5%	46.0%	139
Tax rate - pro forma	22.0%	15.7%	-299
Net Margin	31.6%	38.7%	229
Balance Sheet & Cash Flow Analysis	¢c 021	ć7 171	3.
Total cash and equiv.	\$6,931	\$7,171	30
Cash Flow from Operations	\$251	\$351	400
Free Cash Flow	\$211	\$333	589

Source: BofA Global Research, company filings



Exhibit 2: ZM report 4Q24 revenues of \$1.146mn

ZM income statement

\$mn, except EPS	YEAR	YEAR	Apr	Jul	Oct	Jan	YEAR	Apr	Jul	Oct	Jan	YEAR	YEAR	YEAR
- :	FY22A	FY23A	1Q24A	2Q24A	3Q24A	4Q24A	FY24A	1Q25E	2Q25E	3Q25E	4Q25E	FY25E	FY26E	FY27E
Total revenues	4099.9	4393.0	1105.4	1138.7	1136.7	1146.5	4527.2	1127.5	1150.1	1161.7	1180.9	4620.1	4806.1	4932.3
Y/Y rev growth	54.6%	7.1%	2.9%	3.6%	3.2%	2.6%	3.1%	2.0%	1.0%	2.2%	3.0%	2.1%	4.0%	2.6%
Total cost of revenues	977.9	912.9	215.2	223.9	230.3	239.0	908.3	232.3	235.8	237.0	239.7	944.7	959.9	985.1
Gross profit (total)	3122.0	3480.0	890.2	914.8	906.5	907.5	3618.9	895.2	914.3	924.7	941.1	3675.4	3846.2	3947.2
Operating expenses														
Research and Development	235.4	393.5	106.3	104.1	105.7	114.0	430.1	107.1	103.5	104.6	106.3	421.4	438.4	449.9
Sales and Marketing	890.5	1153.7	278.1	275.9	283.8	278.5	1116.4	287.5	299.0	309.0	312.9	1208.5	1258.0	1291.1
General and Administrative	338.9	353.8	83.5	73.1	69.8	71.2	297.6	90.2	74.8	75.5	76.8	317.2	330.0	338.7
Total operating expense	1464.8	1901.0	467.9	453.1	459.3	463.7	1844.1	484.8	477.3	489.1	496.0	1947.1	2026.4	2079.7
Income/(Loss) from operations	1657.1	1579.0	422.3	461.7	447.1	443.7	1774.9	410.4	437.0	435.7	445.2	1728.3	1819.8	1867.5
Operating margins	40%	36%	38%	41%	39%	39%	39%	36%	38%	38%	38%	37%	38%	38%
EBITDA	1674.9	1661.4	446.4	487.8	474.1	471.0	1879.3	432.9	460.0	458.9	468.8	1820.7	1915.9	1966.1
Other income (expense), net	(5.7)	41.4	31.2	41.1	41.9	83.1	197.3	38.1	40.4	50.8	43.1	172.4	176.7	177.4
Net income before taxes	1651.4	1620.5	453.5	502.8	489.0	526.8	1972.2	448.5	477.4	486.5	488.3	1900.6	1996.5	2044.9
Income tax expense	102.3	291.5	100.3	93.2	87.8	82.8	364.1	80.7	85.9	87.6	87.9	342.1	419.3	429.4
	0.0	0.0					0.0					0.0	0.0	0.0
Pro forma net income	1549.1	1329.0	353.3	409.6	401.2	444.0	1608.0	367.7	391.4	398.9	400.4	1558.5	1577.3	1615.4
Pro forma EPS	5.1	4.37	1.16	1.34	1.29	1.42	5.21	1.17	1.22	1.23	1.21	4.83	4.60	4.45
GAAP net income	1375.6	103.7	15.4	182.0	141.2	298.8	637.5	145.9	163.6	177.5	182.0	669.0	816.4	831.7
GAAP EPS	4.64	0.35	0.05	0.61	0.47	0.98	2.12	0.47	0.52	0.56	0.56	2.12	2.43	2.34
Basic shares outstanding	296.3	296.6	295.4	299.1	302.5	305.8	300.7	307.8	312.8	317.8	322.8	315.3	335.3	355.3
Diluted shares outstanding (pro forma)	305.8	304.2	304.1	305.9	310.4	313.5	308.5	315.5	320.5	325.5	330.5	323.0	343.0	363.0

Source: BofA Global Research, company filings



Exhibit 3: ZM ended FY24 with \$6.96bn in cash and equivalents ZM balance sheet

turrent Assets ash, Cash Equivalents, and Marketable Securities ontract Asset - Current accounts Receivable repaid Expenses and Other Current Assets fotal Current Assets aixed Assets a	5,419. 3 199.3 419.7 145.6 6,183. 8 222.4 164.7 96.0	5,412. 7 223.3 557.4 163.1 6,356. 4 252.8	6,962. 5 208.5 536.1 219.2	7,309.2 213.8 529.9 372.1	7,710.3 209.2 615.3 402.5	8,132.7 209.7 627.3 441.5	8,401.5 295.2 625.9	8,401.5 295.2	10,010. 0 368.8	11,651. 8
5, fash, Cash Equivalents, and Marketable Securities fontract Asset - Current accounts Receivable repaid Expenses and Other Current Assets fotal Current Assets are described for the Asset for the	3 199.3 419.7 145.6 6,183. 8 222.4 164.7 96.0	7 223.3 557.4 163.1 6,356. 4 252.8	5 208.5 536.1 219.2 7,926.	213.8 529.9 372.1	209.2 615.3	209.7 627.3	295.2	295.2	Ô	8
ash, Cash Equivalents, and Marketable Securities contract Asset - Current accounts Receivable drepaid Expenses and Other Current Assets fotal Current Assets ixed Assets contract Asset - Non-Current Deparating lease right-of-use assets condwill other Long Term Assets 8	3 199.3 419.7 145.6 6,183. 8 222.4 164.7 96.0	7 223.3 557.4 163.1 6,356. 4 252.8	5 208.5 536.1 219.2 7,926.	213.8 529.9 372.1	209.2 615.3	209.7 627.3	295.2	295.2	Ô	8
ontract Asset - Current (accounts Receivable Prepaid Expenses and Other Current Assets (otal Current Assets (ixed Assets (iontract Asset - Non-Current (iontract Asset - Information (including lease right-of-use assets (iontwork) (i	199.3 419.7 145.6 6,183. 8 222.4 164.7 96.0	223.3 557.4 163.1 6,356. 4 252.8	208.5 536.1 219.2 7,926.	213.8 529.9 372.1	209.2 615.3	209.7 627.3	295.2	295.2	-	-
cocounts Receivable drepaid Expenses and Other Current Assets fotal Current Assets ixed Assets contract Asset - Non-Current Operating lease right-of-use assets coodwill other Long Term Assets	419.7 145.6 6,183. 8 222.4 164.7 96.0	557.4 163.1 6,356. 4 252.8	536.1 219.2 7,926.	529.9 372.1	615.3	627.3			368.8	
repaid Expenses and Other Current Assets fotal Current Assets ixed Assets fontract Asset - Non-Current Operating lease right-of-use assets foodwill other Long Term Assets	145.6 6,183. 8 222.4 164.7 96.0	163.1 6,356. 4 252.8	219.2 7,926.	372.1			625.9			379.8
fotal Current Assets ixed Assets contract Asset - Non-Current perating lease right-of-use assets codwill other Long Term Assets 6, 22, 23, 24, 25, 26, 27, 28, 29, 20, 20, 20, 20, 20, 20, 20	6,183. 8 222.4 164.7 96.0	6,356. 4 252.8	7,926.		402.5	4415		625.9	737.6	1,012.9
ixed Assets ixed Assets contract Asset - Non-Current Operating lease right-of-use assets coodwill Other Long Term Assets	8 222.4 164.7 96.0	4 252.8		0.455.6		U.1.5	460.5	460.5	479.4	493.8
ixed Assets Contract Asset - Non-Current Operating lease right-of-use assets Coodwill Other Long Term Assets	222.4 164.7 96.0	252.8	2						11,595.	13,538.
ontract Asset - Non-Current Operating lease right-of-use assets oodwill Other Long Term Assets 8	164.7 96.0			8,425.0	8,937.3	9,411.2	9,783.1	9,783.1	7	4
Operating lease right-of-use assets coodwill 2 Other Long Term Assets 8	96.0		293.7	305.0	316.5	328.1	339.9	339.9	388.0	437.3
oodwill 2 Other Long Term Assets 8		180.0	138.7	170.1	151.8	143.6	212.6	212.6	307.3	316.5
Other Long Term Assets 8.	27.0	80.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
Ö	27.6	122.6	307.3	307.3	307.3	307.3	307.3	307.3	307.3	307.3
Ö		1,135.	1,204.							
7,	856.9	3	9	1,137.7	1,070.3	1,002.5	934.3	934.3	658.4	376.8
	7,551.	8,128.	9,929.	10,404.	10,842.	11,251.	11,636.	11,636.	13,315.	15,035.
Total Assets	3	1	8	0	1	6	2	2	6	3
			1							
urrent Liabilities										
	7.8	14.4	10.2	33.8	21.1	40.7	35.4	35.4	23.9	31.3
	430.4	457.7	500.2	428.4	437.0	441.5	448.7	448.7	430.2	379.8
	1,141.	1,266.	1,251.							
Deferred Revenue - Current	4	5	8	1,357.5	1,385.2	1,352.2	1,313.7	1,313.7	1,354.9	1,402.1
Other Current Liabilities	-	1 700	-	-	-	-	-	- 1	-	-
	1,579.	1,738.	1,762.	1 010 0	10422	1.02.4.2	1 707 0	1 707 0	1 000 0	1 012 2
otal Current liabilities	7	6	2	1,819.8	1,843.3	1,834.3	1,797.8	1,797.8	1,809.0	1,813.2
ndirect Tax Liabilities	-	-	-	_	_	_	-	_ !		-
ong-Term Debt	-	-	-	-	-	-	-	-	_	-
Other Long Term Liabilities 1:	153.1	140.9	129.7	129.7	129.7	129.7	129.7	129.7	129.7	129.7
Deferred Revenue - Noncurrent 3	38.5	41.9	18.5	38.0	39.3	34.1	31.7	31.7	26.4	30.6
1,	1,771.	1,921.	1,910.							
otal Liabilities	3	5	4	1,987.5	2,012.3	1,998.1	1,959.2	1,959.2	1,965.1	1,973.5
ξ.	5,780.	6,206.	8 019						11,350.	13,061.
otal stockholders' equity	•	6	4	84166	8,829.8	9 253 5	96770	0.677.0		
	()	_		0, 110.0				146//11	1 5 1	ı K
rotal liabilities and shareholder equity	0 7,551.	8,128.	9 929						5 13,315.	8 15,035.

Source: BofA Global Research, company filings



Exhibit 4: ZM generated \$1.6bn in CFO during FY24 ZM cash flow statement

ZM cash flow statement										
\$mn	YEAR	YEAR	YEAR	Apr	Jul	Oct	Jan		YEAR	
	FY22A	FY23A	FY24A	1Q25E	2Q25E	3Q25E	4Q25E	FY25E	FY26E	FY27E
Cash Flows from Operations:										
Net Income	1375.6	103.7	637.5	145.9	163.6	177.5	182.0	669.0	816.4	831.7
Adjustments to reconcile net income										
Stock-based compensation expense	477.3	1285.8	1057.2	251.3		246.2		988.6	857.1	879.6
Amortization of deferred contract acquisition costs	l	259.4	270.7	67.1	67.5	67.8	68.1	270.5	276.0	281.5
Depreciation & Amortization	48.2	82.3	104.5	22.5	23.0	23.2	23.6	92.4	96.1	98.6
Other Accruals	0.0	0.0								
Provision for accounts receivable allowances	36.7	50.3	35.2					-		
Amortization of operating lease right-of-use assets		5.5						-	-	
Charitable donation of common stock								-		
Remeasurement gain on equity investment non-cash restructuring charges										
Other	(341.8)	(83.8)	-251.6							
Other	(341.6)	(65.6)	-251.0					_	-	
Changes in Working Capital Accounts										
	(150.2)	(221.0)	F2 2	6.2	(05.4)	(12.1)	1.5	(00.0)	(111.7	
Accounts receivable	(159.2)	(231.8)	53.3	6.2	(85.4)	(12.1)	1.5	(89.8)))
Prepaid expenses and other assets	(155.9)	(18.1)	(71.2)	(152.0)	(30.5)	(38.9)	(19.1)	(241.3	(18.9)	(14.4)
Frepaid expenses and other assets	(133.3)	(10.1)	(71.2)	(132.3)	(50.5)	(30.3)	(13.1)	(160.6		(14.4)
Deferred contract acquisition costs	(247.4)	(298.6)	(214.7)	(36.7)	22.9	7.7	(154.5)	(100.0	(100.5	(20.3)
Accounts payable	(2.2)	11.6	(4.4)	23.6	(12.8)	19.6	(5.2)	25.3	, (11.5)	7.4
Accrued expenses and other liabilities	101.4	20.5	52.0	(71.7)	8.6	4.4	7.3	(51.4)	(18.5)	(50.4)
Deferred Revenue	293.9	127.4	(46.7)	125.2	29.0	(38.2)		75.0	36.0	51.3
Operating lease liability, net	(17.0)	(23.8)	(22.8)	.23.2	25.0	(50.2)	(10.5)	0.0	0.0	0.0
	(,	(,	(==:-,							
Total Cash Flow from Operating Activities	1428.0	1290.3	1598.8	380.5	435.6	457.2	304.2	1577.6	1752.7	1789.8
EBITDA	1674.9	1661.4	1879.3	432.9	460.0	458.9	468.8		1915.9	
EBITDA	1674.9									
EBITDA Investing Activities:	1674.9							1820.7	1915.9	1966.1
Investing Activities:		1661.4	1879.3	432.9	460.0	458.9	468.8	1820.7		1966.1
	(132.6)	1661.4 (103.8)	1879.3 (127.0)	432.9	460.0	458.9	468.8	1820.7	1915.9	1966.1
Investing Activities: Capital Expenditures	(132.6)	1661.4	1879.3 (127.0)	432.9	460.0	458.9	468.8	(138.6)	1915.9 (144.2)	1966.1 (148.0)
Investing Activities: Capital Expenditures Purchase of marketable securities	(132.6) (4613.5)	(103.8) (2849.1	(127.0) (4,084.0	432.9	460.0	458.9	468.8	(138.6) 0.0	1915.9 (144.2) 0.0	1966.1 (148.0) 0.0
Investing Activities: Capital Expenditures Purchase of marketable securities Proceeds from marketable securities	(132.6) (4613.5) 1867.9	(103.8) (2849.1) 2835.2	1879.3 (127.0)	432.9	460.0	458.9	468.8	(138.6) 0.0 0.0	(144.2) 0.0 0.0	(148.0) 0.0 0.0
Investing Activities: Capital Expenditures Purchase of marketable securities Proceeds from marketable securities Purchase of intangible assets	(132.6) (4613.5) 1867.9 (93.4)	(103.8) (2849.1) 2835.2 (11.3)	(127.0) (4,084.0) 3,132.6	432.9	460.0	458.9	468.8	(138.6) 0.0 0.0 0.0	(144.2) 0.0 0.0 0.0	(148.0) 0.0 0.0 0.0
Investing Activities: Capital Expenditures Purchase of marketable securities Proceeds from marketable securities	(132.6) (4613.5) 1867.9 (93.4) 112.6	(103.8) (2849.1) 2835.2	(127.0) (4,084.0) 3,132.6 - (105.4)	432.9	460.0	458.9	468.8	(138.6) 0.0 0.0 0.0 0.0	(144.2) 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
Investing Activities: Capital Expenditures Purchase of marketable securities Proceeds from marketable securities Purchase of intangible assets Other	(132.6) (4613.5) 1867.9 (93.4) 112.6 (2859.1	(103.8) (2849.1) 2835.2 (11.3) (189.3)	(127.0) (4,084.0) 3,132.6	(33.8)	(34.5)	(34.9)	(35.4)	(138.6) 0.0 0.0 0.0 0.0	(144.2) 0.0 0.0 0.0	0.0 0.0 0.0 0.0
Investing Activities: Capital Expenditures Purchase of marketable securities Proceeds from marketable securities Purchase of intangible assets	(132.6) (4613.5) 1867.9 (93.4) 112.6	(103.8) (2849.1) 2835.2 (11.3)	(127.0) (4,084.0) 3,132.6 - (105.4)	(33.8)	(34.5)	458.9	(35.4)	(138.6) 0.0 0.0 0.0 0.0	(144.2) 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
Investing Activities: Capital Expenditures Purchase of marketable securities Proceeds from marketable securities Purchase of intangible assets Other Total Cash Flow from Investing Activities	(132.6) (4613.5) 1867.9 (93.4) 112.6 (2859.1	(103.8) (2849.1) 2835.2 (11.3) (189.3)	(127.0) (4,084.0) 3,132.6 - (105.4)	(33.8)	(34.5)	(34.9)	(35.4)	(138.6) 0.0 0.0 0.0 0.0	(144.2) 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
Investing Activities: Capital Expenditures Purchase of marketable securities Proceeds from marketable securities Purchase of intangible assets Other Total Cash Flow from Investing Activities Financing Activities:	(132.6) (4613.5) 1867.9 (93.4) 112.6 (2859.1	(103.8) (2849.1) 2835.2 (11.3) (189.3)	(127.0) (4,084.0) 3,132.6 - (105.4)	(33.8)	(34.5)	(34.9)	(35.4)	(138.6) 0.0 0.0 0.0 0.0	(144.2) 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
Investing Activities: Capital Expenditures Purchase of marketable securities Proceeds from marketable securities Purchase of intangible assets Other Total Cash Flow from Investing Activities Financing Activities: Proceeds from initial public offering, net	(132.6) (4613.5) 1867.9 (93.4) 112.6 (2859.1	(103.8) (2849.1) 2835.2 (11.3) (189.3)	(127.0) (4,084.0) 3,132.6 - (105.4)	(33.8)	(34.5)	(34.9)	(35.4)	(138.6) 0.0 0.0 0.0 0.0	(144.2) 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
Investing Activities: Capital Expenditures Purchase of marketable securities Proceeds from marketable securities Purchase of intangible assets Other Total Cash Flow from Investing Activities Financing Activities: Proceeds from initial public offering, net Cash paid for repurchases of common stock	(132.6) (4613.5) 1867.9 (93.4) 112.6 (2859.1)	(103.8) (2849.1) 2835.2 (11.3) (189.3)	(127.0) (4,084.0) 3,132.6 - (105.4)	(33.8)	(34.5)	(34.9)	(35.4)	(138.6) 0.0 0.0 0.0 0.0	(144.2) 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
Investing Activities: Capital Expenditures Purchase of marketable securities Proceeds from marketable securities Purchase of intangible assets Other Total Cash Flow from Investing Activities Financing Activities: Proceeds from initial public offering, net Cash paid for repurchases of common stock Proceeds from international employee stock sales	(132.6) (4613.5) 1867.9 (93.4) 112.6 (2859.1)	(103.8) (2849.1) 2835.2 (11.3) (189.3) (318.3)	(127.0) (4,084.0) 3,132.6 - (105.4) (1,183.7)	(33.8)	(34.5)	(34.9)	(35.4)	(138.6) 0.0 0.0 0.0 0.0	(144.2) 0.0 0.0 0.0 0.0 (144.2)	0.0 0.0 0.0 0.0
Investing Activities: Capital Expenditures Purchase of marketable securities Proceeds from marketable securities Purchase of intangible assets Other Total Cash Flow from Investing Activities Financing Activities: Proceeds from initial public offering, net Cash paid for repurchases of common stock Proceeds from international employee stock sales Proceeds from exercise of stock options, net	(132.6) (4613.5) 1867.9 (93.4) 112.6 (2859.1)	(103.8) (2849.1) 2835.2 (11.3) (189.3)	(127.0) (4,084.0) 3,132.6 - (105.4)	(33.8)	(34.5)	(34.9)	(35.4)	(138.6) 0.0 0.0 0.0 0.0	(144.2) 0.0 0.0 0.0 0.0 (144.2)	0.0 0.0 0.0 0.0
Investing Activities: Capital Expenditures Purchase of marketable securities Proceeds from marketable securities Purchase of intangible assets Other Total Cash Flow from Investing Activities Financing Activities: Proceeds from initial public offering, net Cash paid for repurchases of common stock Proceeds from international employee stock sales	(132.6) (4613.5) 1867.9 (93.4) 112.6 (2859.1)	(103.8) (2849.1) 2835.2 (11.3) (189.3) (318.3)	(127.0) (4,084.0) 3,132.6 - (105.4) (1,183.7)	(33.8)	(34.5)	(34.9)	(35.4)	(138.6) 0.0 0.0 0.0 0.0	(144.2) 0.0 0.0 0.0 0.0 (144.2)	0.0 0.0 0.0 0.0
Investing Activities: Capital Expenditures Purchase of marketable securities Proceeds from marketable securities Purchase of intangible assets Other Total Cash Flow from Investing Activities Financing Activities: Proceeds from initial public offering, net Cash paid for repurchases of common stock Proceeds from international employee stock sales Proceeds from exercise of stock options, net Principal payments on capital lease obligations	(132.6) (4613.5) 1867.9 (93.4) 112.6 (2859.1)	(103.8) (2849.1) 2835.2 (11.3) (189.3) (318.3)	(127.0) (4,084.0) 3,132.6 - (105.4) (1,183.7)	(33.8)	(34.5)	(34.9)	(35.4)	(138.6) 0.0 0.0 0.0 0.0	(144.2) 0.0 0.0 0.0 0.0 (144.2)	0.0 0.0 0.0 0.0
Investing Activities: Capital Expenditures Purchase of marketable securities Proceeds from marketable securities Purchase of intangible assets Other Total Cash Flow from Investing Activities Financing Activities: Proceeds from initial public offering, net Cash paid for repurchases of common stock Proceeds from international employee stock sales Proceeds from exercise of stock options, net Principal payments on capital lease obligations	(132.6) (4613.5) 1867.9 (93.4) 112.6 (2859.1)	(103.8) (2849.1) 2835.2 (11.3) (189.3) (318.3) - (867.6) - 43.2 -	(127.0) (4,084.0) 3,132.6 - (105.4) (1,183.7)	(33.8)	(34.5)	(34.9)	(35.4)	(138.6) 0.0 0.0 0.0 0.0	(144.2) 0.0 0.0 0.0 0.0 (144.2)	0.0 0.0 0.0 0.0
Investing Activities: Capital Expenditures Purchase of marketable securities Proceeds from marketable securities Purchase of intangible assets Other Total Cash Flow from Investing Activities Financing Activities: Proceeds from initial public offering, net Cash paid for repurchases of common stock Proceeds from international employee stock sales Proceeds from exercise of stock options, net Principal payments on capital lease obligations Proceeds from issuance of convertible notes	(132.6) (4613.5) 1867.9 (93.4) 112.6 (2859.1) - (28.3) 14.4 -	(103.8) (2849.1) 2835.2 (11.3) (189.3) (318.3) - (867.6) - 43.2 - (112.53	(127.0) (4,084.0) 3,132.6 - (105.4) (1,183.7)	(33.8)	(34.5)	(34.9)	(35.4)	(138.6) 0.0 0.0 0.0 0.0	(144.2) 0.0 0.0 0.0 0.0 (144.2)	0.0 0.0 0.0 0.0
Investing Activities: Capital Expenditures Purchase of marketable securities Proceeds from marketable securities Purchase of intangible assets Other Total Cash Flow from Investing Activities Financing Activities: Proceeds from initial public offering, net Cash paid for repurchases of common stock Proceeds from international employee stock sales Proceeds from exercise of stock options, net Principal payments on capital lease obligations Proceeds from issuance of convertible notes Other	(132.6) (4613.5) 1867.9 (93.4) 112.6 (2859.1) - (28.3) 14.4 -	(103.8) (2849.1) 2835.2 (11.3) (189.3) (318.3) - (867.6) - 43.2 - (112.53	(127.0) (4,084.0) 3,132.6 - (105.4) (1,183.7)	(33.8)	(34.5)	(34.9)	(35.4)	(138.6) 0.0 0.0 0.0 0.0	(144.2) 0.0 0.0 0.0 0.0 (144.2)	(148.0) 0.0 0.0 0.0 0.0
Investing Activities: Capital Expenditures Purchase of marketable securities Proceeds from marketable securities Purchase of intangible assets Other Total Cash Flow from Investing Activities Financing Activities: Proceeds from initial public offering, net Cash paid for repurchases of common stock Proceeds from international employee stock sales Proceeds from exercise of stock options, net Principal payments on capital lease obligations Proceeds from issuance of convertible notes Other Cash flow from Financing	(132.6) (4613.5) 1867.9 (93.4) 112.6 (2859.1) - (28.3) 14.4 - - 48.0	(103.8) (2849.1) 2835.2 (11.3) (189.3) (318.3) - (867.6) - 43.2 - (112.53)	(127.0) (4,084.0) 3,132.6 - (105.4) (1,183.7) - - - 10.2 - - 50.0	(33.8)	(34.5)	(34.9)	(35.4)	(138.6) 0.0 0.0 0.0 0.0	(144.2) 0.0 0.0 0.0 0.0 (144.2)	(148.0) 0.0 0.0 0.0 0.0



Exhibit 4: ZM generated \$1.6bn in CFO during FY24 ZM cash flow statement

\$mn	YEAR	YEAR	YEAR	Apr	Jul	Oct	Jan	YEAR	YEAR	YEAR
	(1219.8									
Change in Cash and Cash Equivalents)	26.9	465.1	346.7	401.1	422.4	268.8	1439.0	1608.5	1641.9
Cash Beginning Balance	2293.1	1073.4	1100.3	1565.4	1912.1	2313.2	2735.6	1565.4	3004.4	4612.9
				1912.	2313.	2735.	3004.			
Cash Ending Balance	1073.4	1100.3	1565.4	1	2	6	4	3004.4	4612.9	6254.8

Source: BofA Global Research, company filings



Price objective basis & risk

Zoom Video Communications (ZM)

Our \$78 PO is based on CY25 free cash flow multiple of 11x and represents a free cash flow yield of 9%. The 11x multiple is a discount to the less than 20% growth software peer group trading at 28x. This discount is warranted based on ZM's weaker visibility with regards to future growth trajectory and an increasingly competitive xCaaS environment.

Upside risks to our price objective are stabilization of the non-enterprise user base, successful penetration of enterprise phone and contact center and acquisition.

Downside risks are greater-than-expected attrition of non-enterprise users, failed M&A, a prolonged economic downturn and heightened competitive pressure.

Analyst Certification

I, Michael J. Funk, 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
	Zoomlnfo	ZI	ZI US	Koji Ikeda, CFA
NEUTRAL				
	Autodesk	ADSK	ADSK US	Michael J. Funk



US - Enterprise Software Coverage Cluster

Investment rating	Company	BofA Ticker	Bloomberg symbol	Analyst
	Bentley Systems	BSY	BSY US	Michael J. Funk
	BigCommerce Holdings, Inc.	BIGC	BIGC US	Koji Ikeda, CFA
	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
	Zoom Video Communications	ZM	ZM US	Michael J. Funk
UNDERPERFORM				
ONDER! ER! ORW	AvidYchango Inc	AVDX	AVDX US	Brad Sills
	AvidXchange, Inc. 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	
	Dropbox	DBX	DBX US	Koji Ikeda, CFA Michael J. Funk
	Enfusion, Inc.	ENFN	ENFN US	Koji Ikeda, CFA
	Five9	FIVN	FIVN US	, ,
	Guidewire Software, Inc.	GWRE	GWRE US	Michael J. Funk
	•			Michael J. Funk
	Smartsheet	SMAR	SMAR US	Michael J. Funk
	Twilio	TWLO	TWLO US	Michael J. Funk
	Vertex, Inc.	VERX	VERX US	Brad Sills
RSTR				
	Splunk	SPLK	SPLK US	Brad Sills

*Q*methodsM Measures Definitions

Business Performance	Numerator	Denominator
Return On Capital Employed	NOPAT = (EBIT + Interest Income) × (1 - Tax Rate) + Goodwill Amortization	Total Assets - Current Liabilities + ST Debt + Accumulated Goodwill
		Amortization
Return On Equity	Net Income	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

Valuation Toolkit	Numerator
Price / Earnings Ratio	Current Share Price
Price / Book Value	Current Share Price
Dividend Yield	Annualised Declared Cash Dividend
Free Cash Flow Yield	Cash Flow From Operations – Total Capex
Enterprise Value / Sales	EV = Current Share Price × Current Shares + Minority Equity + Net Debt +
	Other LT Liabilities
EV / EBITDA	Enterprise Value

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



Valuation Toolkit Numerator Denominator

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.

Matarbase* 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.

*Morofile**, *Monethod** are service marks of Bank of America Corporation. *Molatabase** is a registered service mark of Bank of America Corporation.



Disclosures

Important Disclosures

Zoom (ZM) 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^{R2}

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

R2Ratings 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: Zoom.

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

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

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: Zoom Video.

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: Zoom Video. 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: Zoom.

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. Zoom Video.

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



Ur

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 Regulation Authority (PRA); BofASE (France): BofA Securities Europe SA is authorized by the Autorité de Contrôle Prudential Regulation Authority (PRA); BofASE (France): BofA Securities Europe SA is authorized by the Autorité de Contrôle Prudential Regulation Authority (PRA); BofASE (France): BofA Securities Europe SA is authorized by the Autorité de Contrôle Prudential Regulation Authority (PRA); BofASE (France): BofA Securities Europe SA is authorized by the Autorité de Contrôle Prudential Regulation Authority (PRA); BofASE (France): BofA Securities Europe SA is authorized by the Autorité de Contrôle Prudential Regulation Authority (PRA); BofASE (France): BofA Securities Europe SA is authorized by the Autorité de Contrôle Prudential Regulation Authority (PRA); BofASE (France): BofASE (Fr 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 (Fundamentalia): Merrill Lynch (Hong Kong): Merrill (Hong Kong): Merril (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 (Canada): Merrill Lynch (Mexico): Merrill Ly de Bolsa, regulated by the Comisión Nacional Bancaría 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 S.A. Corretora de Títulos e Valores Mobiliários, regulated by Comissão de Valores Mobiliários; Merrill Lynch KSA Company: Merrill Lynch Kingdom of Saudi Arabia Company, regulated by the Capital Market Authority.

This information: has been approved for publication and is distributed in the United Kingdom (UK) to professional clients and eligible counterparties (as each is defined in the rules of the FCA and the PRA) by MLI (UK), which is authorized by the PRA and regulated by the FCA and the PRA - details about the extent of our regulation by the FCA and PRA are available from us on request; has been approved for publication and is distributed in the European Economic Area (EEA) by BofASE (France), which is authorized by the ACPR and regulated by the ACPR and the AMF; has been considered and distributed in Japan by BofAS Japan, a registered securities dealer under the Financial Instruments and Exchange Act in Japan, or its permitted affiliates; is issued and distributed in Hong Kong by Merrill Lynch (Hong Kong) which is regulated by HKSFC; is issued and distributed in Taiwan by Merrill Lynch (Taiwan); is issued and distributed in India by BofAS India; and is issued and distributed in Singapore to institutional investors and/or accredited investors (each as defined under the Financial Advisers Regulations) by Merrill Lynch (Singapore) (Company Registration No 198602883D). Merrill Lynch (Singapore) is regulated by MAS. Merrill Lynch Equities (Australia) Limited (ABN 65 006 276 795), AFS License 235132 (MLEA) distributes this information in Australia only to 'Wholesale' clients as defined by s.761G of the Corporations Act 2001. With the exception of Bank of America N.A., Australia Branch, neither MLEA nor any of its affiliates involved in preparing this information is an Authorised Deposit-Taking Institution under the Banking Act 1959 nor regulated by the Australian Prudential Regulation Authority. No approval is required for publication or distribution of this information in Brazil and its local distribution is by Merrill Lynch (Brazil) in accordance with applicable regulations. Merrill Lynch (DIFC) is authorized and regulated by the DFSA. Information in Germany and is regulated by Merrill Lynch (DIFC) is done so in accor

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 inform

This information has been prepared independently of any issuer of securities mentioned herein and not in connection with any proposed offering of securities or as agent of any issuer of any securities. None of BofAS any of its affiliates or their research analysts has any authority whatsoever to make any representation or warranty on behalf of the issuer(s). BofA Global Research policy prohibits research personnel from disclosing a recommendation, investment rating, or investment thesis for review by an issuer prior to the publication of a research report containing such rating, recommendation or investment thesis.

Any information relating to the tax status of financial instruments discussed herein is not intended to provide tax advice or to be used by anyone to provide tax advice. Investors are urged to seek tax advice based on their particular circumstances from an independent tax professional.

The information herein (other than disclosure information relating to BofA Securities and its affiliates) was obtained from various sources and we do not guarantee its accuracy. This information may contain links to third-party websites. BofA Securities is not responsible for the content of any third-party website or any linked content contained in a third-party website. Content contained on such third-party websites is not part of this information and is not incorporated by reference. The inclusion of a link does not imply any endorsement by or any affiliation with BofA Securities. Access to any third-party website is at your own risk, and you should always review the terms and privacy policies at third-party websites before submitting any personal information to them. BofA Securities is not responsible for such terms and privacy policies and expressly disclaims any liability for them.

All opinions, projections and estimates constitute the judgment of the author as of the date of publication and are subject to change without notice. Prices also are subject to change without notice. BofA Securities is under no obligation to update this information and BofA Securities ability to publish information on the subject issuer(s) in the future is subject to applicable quiet periods. You should therefore assume that BofA Securities will not update any fact, circumstance or opinion contained herein.

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.

