

Chewy Inc

4Q preview: likely to maintain '24 outlook of MSD growth w/ boost from extra week

Maintain Rating: UNDERPERFORM | PO: 17.00 USD | Price: 17.24 USD

4Q revenue/EBITDA estimates in line with Street

Chewy reports AMC on March 20, and for 4Q, we project revenue/EBITDA of \$2.78bn/\$68mn versus Street at \$2.79bn/\$64mn, with our estimates suggesting just 2.6% YoY growth (5.5ppt deceleration on a 1.1ppt easier comp). Active customer trends likely remained soft, per Chewy and Petfinder web traffic, and our -1.5% YoY estimate is 40bps below consensus. Our EBITDA estimate suggests a 2.5% margin for 4Q (we are at 3.1% for 2023, in line with guide of approximately 3.0%), which is -50bps QoQ, reflecting soft topline. Key topics for the call include 1) progress on ramping supplier advertising, which we think is the most impactful gross margin driver in the near term; 2) an update on leverage from Auto FCs; 3) early reads on the launch in Canada, Chewy's first international market; 4) opening of Chewy's first vet clinic (planned for early 2024) and; 5) formal FY'24 financial outlook.

Pet spend down 5.1% in 4Q as industry softness persists

Total pet spending in the quarter declined 5.1% YoY, per BAC aggregated credit and debit card data, and decelerated further to -6.3% in February as trade-down activity and weak pet adoption rates continue to weigh on industry trends. SimilarWeb indicates that visits to Chewy.com decelerated 5.1ppts to 11.5% YoY in 4Q, emphasizing weak active customer expectations, though visits to Petfinder.com (proxy for adoptions) did improve 3.4ppts. Despite this, trends decelerated in February for both Chewy and Petfinder.

2024 outlook: likely maintains implied guide of MSD growth

Chewy guided FY'24 revenue growth of "below the company's long-term target of HSD%" during the December investor day, implying MSD% growth. We expect Chewy to maintain its outlook, which is in line with Street at 5.0% YoY, though we note that FY'24 includes a 53rd week, which is estimated to add approximately 2.0-2.5ppts of sales for the year. If Chewy were to guide MSD% excluding the extra week, we think that would be perceived positively by Street and could suggest easing industry headwinds throughout the year.

Multiple likely range-bound if soft industry trends continue

In our view, Chewy's multiple will likely trade near the low end of its historical range of 0.5x-5.3x EV/sales as weak industry data persists into 2024. As such, Chewy's topline will likely continue to be challenged until we see accelerating trends in spend or customers. We maintain our Underperform rating and \$17 PO, based on 0.5x 2024E EV/sales, a discount to our eCommerce/Pet Specialty comps at 2.4x/0.6x.

Estimates (Jan) (US\$)	2022A	2023A	2024E	2025E	2026E
EPS	0.03	0.53	0.60	0.69	0.91
GAAP EPS	(0.18)	0.12	(0.04)	0.02	0.24
EPS Change (YoY)	-66.7%	NM	13.2%	15.0%	31.9%
Consensus EPS (Bloomberg)			0.41	0.50	0.69
DPS	0	0	0	0	0
Valuation (Jan)					
P/E	599.7x	33.9x	30.0x	26.1x	19.8x
GAAP P/E	NM	149.9x	NM	899.5x	75.0x
EV / EBITDA*	100.2x	25.8x	23.1x	20.7x	15.4x
Free Cash Flow Yield*	0%	1.5%	3.5%	1.9%	5.6%

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15 March 2024

Equity

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Stock Data

Price	17.24 USD
Price Objective	17.00 USD
Date Established	10-Jan-2024
Investment Opinion	C-3-9
52-Week Range	15.78 USD - 40.78 USD
Mkt Val (mn) / Shares Out (mn)	7,725 USD / 429.4
Free Float	82.7%
Average Daily Value (mn)	139.25 USD
BofA Ticker / Exchange	CHWY / NYS
Bloomberg / Reuters	CHWY US / CHWY.N
ROE (2024E)	77.4%
Net Dbt to Eqty (Jan-2023A)	-154.4%
ESGMeter™	Low

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".

AMC: after market close

FC: facility center

HSD: high single digit

MSD: mid-single digit

NSPAC: net sales per active customer

PO: price objective

See the latest [BofA on USA](#) note for the methodology, limitations, and disclaimers for BAC aggregated credit and debit card data.

* For full definitions of *IQmethod*SM measures, see page 8.

iQprofileSM Chewy Inc

iQmethodSM – Bus Performance*

(US\$ Millions)	2022A	2023A	2024E	2025E	2026E
Return on Capital Employed	-16.2%	9.9%	0.1%	0.9%	6.8%
Return on Equity	180.5%	197.3%	77.4%	48.9%	40.6%
Operating Margin	-0.8%	0.6%	-0.3%	-0.2%	0.7%
Free Cash Flow	(2)	119	271	149	434

iQmethodSM – Quality of Earnings*

(US\$ Millions)	2022A	2023A	2024E	2025E	2026E
Cash Realization Ratio	16.7x	1.5x	1.7x	1.2x	1.6x
Asset Replacement Ratio	3.5x	2.8x	1.5x	1.7x	1.6x
Tax Rate	NM	5.1%	NM	21.0%	21.0%
Net Debt-to-Equity Ratio	-4,092.6%	-154.4%	-95.3%	-56.1%	-59.3%
Interest Cover	-44.0x	NA	NA	NA	NA

Income Statement Data (Jan)

(US\$ Millions)	2022A	2023A	2024E	2025E	2026E
Sales	8,891	10,099	11,080	11,521	12,427
% Change	24.4%	13.6%	9.7%	4.0%	7.9%
Gross Profit	2,374	2,831	3,137	3,278	3,582
% Change	30.4%	19.3%	10.8%	4.5%	9.3%
EBITDA	79	306	341	380	512
% Change	-7.8%	289.3%	11.4%	11.6%	34.7%
Net Interest & Other Income	(2)	(4)	24	39	46
Net Income (Adjusted)	11	226	257	301	405
% Change	-68.6%	NM	14.1%	17.0%	34.5%

Free Cash Flow Data (Jan)

(US\$ Millions)	2022A	2023A	2024E	2025E	2026E
Net Income from Cont Operations (GAAP)	(74)	49	(16)	10	107
Depreciation & Amortization	55	83	110	115	124
Change in Working Capital	109	77	(155)	66	81
Deferred Taxation Charge	NA	NA	NA	NA	NA
Other Adjustments, Net	101	140	496	159	327
Capital Expenditure	(193)	(230)	(164)	(202)	(205)
Free Cash Flow	-2	119	271	149	434
% Change	NM	NM	127.1%	-45.1%	191.9%
Share / Issue Repurchase	0	0	0	0	0
Cost of Dividends Paid	0	0	0	0	0
Change in Debt	(2)	(3)	0	0	0

Balance Sheet Data (Jan)

(US\$ Millions)	2022A	2023A	2024E	2025E	2026E
Cash & Equivalents	603	330	430	438	721
Trade Receivables	124	126	103	108	115
Other Current Assets	597	1,064	1,264	1,466	1,679
Property, Plant & Equipment	367	479	540	626	707
Other Non-Current Assets	396	516	539	539	539
Total Assets	2,086	2,515	2,876	3,177	3,760
Short-Term Debt	0	0	0	0	0
Other Current Liabilities	1,645	1,769	1,846	1,817	1,966
Long-Term Debt	0	0	0	0	0
Other Non-Current Liabilities	427	532	579	579	579
Total Liabilities	2,072	2,301	2,425	2,395	2,544
Total Equity	15	214	451	781	1,216
Total Equity & Liabilities	2,086	2,515	2,876	3,177	3,760

* For full definitions of iQmethodSM measures, see page 8.

Company Sector

Internet/e-Commerce

Company Description

Chewy is an Online retailer specializing in pet food, supplies, and services in the United States and recently expanded into Canada this quarter. Since its launch in 2011, Chewy has amassed over 20mn customers and grown to offer more than 110k pet products and services from 3,500+ brands. Supported by Chewy's 17 fulfillment centers, the company is able to deliver to 80% of the population overnight and almost 100% in two-days.

Investment Rationale

There are several things to be constructive about on Chewy, namely a sticky existing customer base, the potential for margin expansion, and NSPAC lift from the buildout of adjacent services. However, after over a decade of growth and a surge in pet ownership during COVID, Chewy is operating in what could be the toughest conditions for the pet market in years. We expect this to pressure revenue growth and margin expansion, which should weigh on valuation.

Stock Data

Average Daily Volume 7,593,905

Quarterly Earnings Estimates

	2023	2024
Q1	0.11A	0.20A
Q2	0.15A	0.15A
Q3	0.11A	0.15A
Q4	0.16A	0.12E



4Q revenue/EBITDA in line with Street

Chewy reports AMC on March 20, with a call following at 5:00pm ET. We estimate 4Q revenue at \$2.78bn (0.4% below Street at \$2.79bn) and project EBITDA of \$68mn (Street at \$64mn). Street expects active customers to shrink 1.1% YoY, slightly better than our estimate for -1.5% YoY. We expect NSPAC growth to decelerate 2.5ppts to 11.4% YoY, likely reflecting a deceleration in pet food inflation and some trade-down activity that Chewy has previously called out. Our EBITDA estimate suggests a 2.5% margin for 4Q (we are at 3.1% for 2023, in line with guide of approximately 3.0%), which is -50bps QoQ.

Key topics for the call could include 1) progress on ramping supplier advertising, which we think is the most impactful gross margin driver in the near term; 2) an update on flowthrough from Auto FCs, which is the largest driver of SG&A leverage; 3) early reads on the launch in Canada, Chewy's first international market; 4) the opening of Chewy's first vet clinic (planned for early 2024); and 5) the company's formal financial outlook for 2024. Sponsored Ads penetration of sales is expected to reach approximately 1% in 2024 at a 70% gross margin versus the company's long-term target of 1-3% penetration. On Automated Facility Centers, management targets 150bps leverage from Auto FCs long term as Chewy ramps to 70-80% of total order volume processed by the facilities.

For 1Q'24, we project revenue/EBITDA of \$2.87bn/\$98mn versus Street at \$2.89bn/\$113mn. For 2024, we forecast revenue/EBITDA of \$11.52bn/\$380mn, below Street at \$11.65bn/\$411mn. Street projects 5.0% revenue growth in FY'24, which is in line with Chewy's implied guidance for MSD% growth ("FY'24 net sales growth is expected to be below the long-term target [of HSD% CAGR]"). We expect Chewy to maintain this outlook, though we note that Chewy's fiscal calendar includes a 53rd week, which we estimate could add approximately 2.0-2.5ppts of sales for the year. If Chewy were to guide MSD% excluding the extra week, we think that would be perceived positively by Street, as it would imply easing industry headwinds. MSD growth including the extra week could be in line with expectations, which assumes that weak pet data persists in 2024.

Exhibit 1: Chewy estimates: BofA vs. Street

For 4Q23E, we project revenue/EBITDA of \$2.78bn/\$68mn versus Street at \$2.79bn/\$64mn.

	4Q23E			1Q24E			FY 2024E			FY 2025E		
	BofA	Street	Diff	BofA	Street	Diff	BofA	Street	Diff	BofA	Street	Diff
Segment Metrics												
Active Customers (TTM, mn)	20.1	20.2	(0.08)	20.0	20.2	(0.16)	20.1	20.3	(0.15)	21.0	21.0	(0.02)
Net Sales Per Active Customer (\$, TTM Basis)	\$551	\$550	0.3%	\$558	\$555	0.5%	\$572	\$575	-0.6%	\$593	\$602	-1.5%
AutoShip Sales	\$2,126	\$2,136	-0.5%	\$2,200	\$2,199	0.0%	\$8,846	\$9,033	-2.1%	\$9,591	\$9,750	-1.6%
Income Statement												
Net Revenue (\$mn)	\$2,779	\$2,789	-0.4%	\$2,870	\$2,884	-0.5%	\$11,521	\$11,645	-1.1%	\$12,427	\$12,520	-0.7%
Gross Profit	778	781	-0.4%	815	825	-1.2%	3,278	3,327	-1.5%	3,582	3,614	-0.9%
Gross Margin	28.0%	28.0%	(1)	28.4%	28.6%	(22)	28.4%	28.6%	(13)	28.8%	28.9%	(4)
Advertising & Marketing	188	190	-1.4%	189	190	-0.1%	772	770	0.3%	820	810	1.3%
% of Net Sales	6.8%	6.8%	(7)	6.6%	6.6%	2	6.7%	6.6%	9	6.6%	6.5%	13
Sales, General & Administrative	550	552	-0.4%	557	553	0.7%	2,241	2,268	-1.2%	2,374	2,411	-1.6%
% of Net Sales	19.8%	19.8%	(1)	19.4%	19.2%	22	19.4%	19.5%	(3)	19.1%	19.3%	(16)
Stock based compensation	72	68	7.0%	72	62	16.5%	291	269	8.0%	298	278	7.0%
% of Net Sales	2.6%	2.4%	18	2.5%	2.2%	37	2.5%	2.3%	21	2.4%	2.2%	17
Depreciation & Amortization	28	25	9.1%	29	29	-1.6%	115	116	-1.0%	124	127	-2.3%
% of Net Sales	1.0%	0.9%	9	1.0%	1.0%	(1)	1.0%	1.0%	0	1.0%	1.0%	(2)
Operating Expenses	810	810	0.0%	819	805	1.7%	3,304	3,307	-0.1%	3,492	3,499	-0.2%
% of Net Sales	29.2%	29.0%	10	28.5%	27.9%	61	28.7%	28.4%	27	28.1%	28.0%	15
Operating Income	(32)	(28)	(4)	(4)	23	(26)	(26)	27	(53)	90	121	(31)
% Margin	-1.2%	-1.0%	(16)	-0.1%	0.8%	(91)	-0.2%	0.2%	(46)	0.7%	1.0%	(25)
Adjusted EBITDA	68	64	6.5%	98	113	-13.6%	380	411	-7.4%	512	528	-3.0%
% Margin	2.5%	2.3%	16	3.4%	3.9%	(52)	3.3%	3.5%	(23)	4.1%	4.2%	(9)
Diluted EPS Non-GAAP	\$0.12	\$0.10	21.0%	\$0.18	\$0.20	-11.0%	\$0.69	\$0.69	-0.3%	\$0.91	\$0.86	6.7%

Source: BofA Global Research Estimates, Visible Alpha

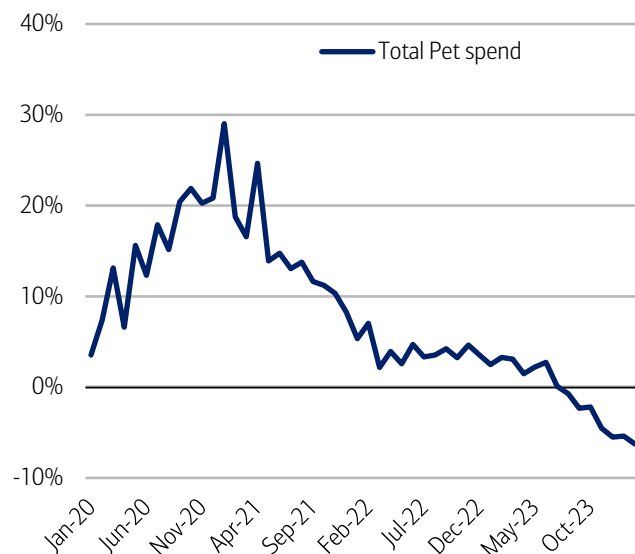
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Data update

According to BAC aggregated credit and debit card spend, total pet spending declined 5.1% in F4Q from -1.7% in 3Q on persisting trade-downs and low adoption rates and further decelerated to -6.3% YoY in February. Similarly, web traffic trends reflect ongoing weakness in the category. For FQ4, Chewy web traffic fell 11.5% YoY, while traffic to Petfinder (proxy from pet adoptions) declined 17.1% YoY. We expect active customer count to decline 170 thousand (k) from 3Q to 20.1mn (-1.5% YoY).

Exhibit 2: Monthly pet spend, YoY% change, according to BAC aggregated credit and debit card data

YoY pet retail spend in the US declined 6.3% in February

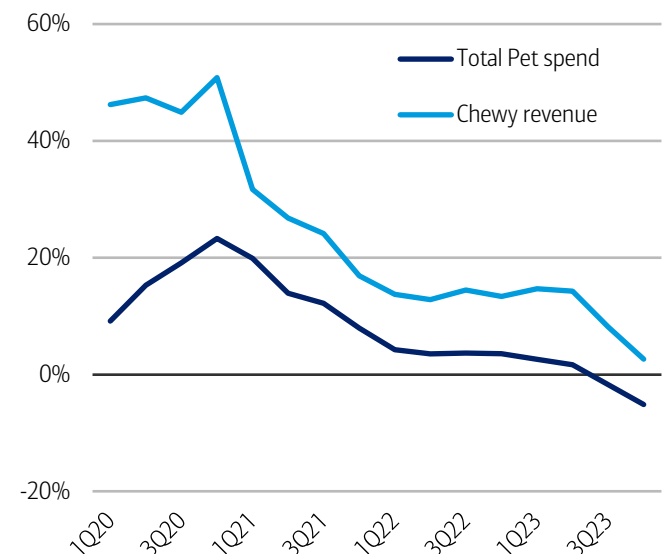


Source: BAC Internal data

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Exhibit 3: Chewy revenue versus quarterly BAC card data at pet retailers (YoY%)

We expect revenue to grow 2.6% YoY in 4Q23E, a 5.5ppt deceleration

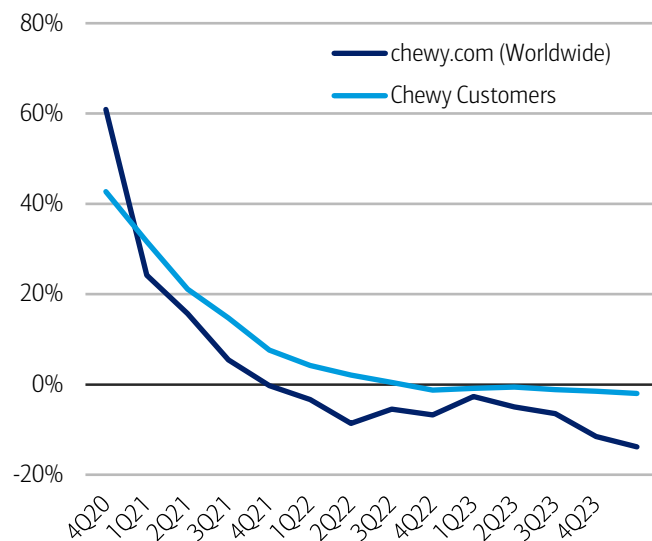


Source: BAC internal data, company reports, BofA Global Research | *data through Feb 28

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Exhibit 4: Chewy web traffic versus active customers (YoY%)

Weaker web traffic could be an indicator of a continued decline in customers

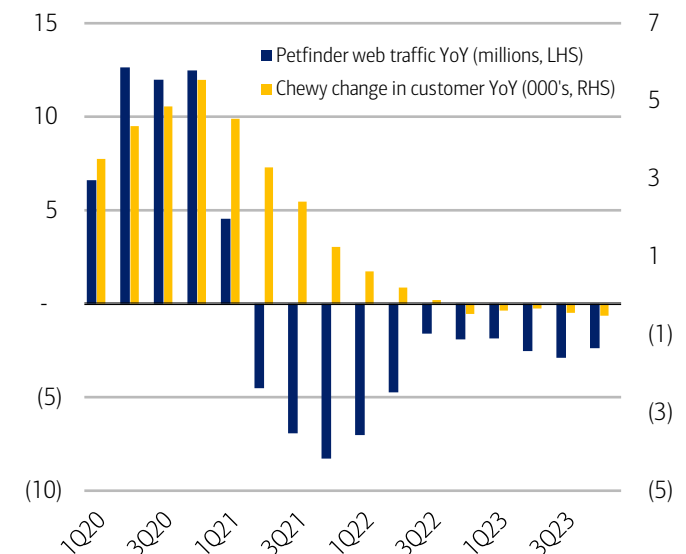


Source: SimilarWeb, company reports, BofA Global Research

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Exhibit 5: Chewy customer count versus Petfinder web traffic (YoY)

Weak adoption trends could be impacting Chewy customer growth



Source: SimilarWeb, company reports, BofA Global Research

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Valuation

We maintain our \$17 PO, valued at 0.5x 2024 EV/sales (unchanged) versus peers at 0.8x. Our comp set includes peers from Pet Specialty (0.6x) and eCommerce (2.4x), with bifurcated multiples likely deriving from weak pet industry trends. Our multiple is at the low end of Chewy's historical EV/sales range of 0.5x-5.3x and slightly lower than Chewy's current multiple of 0.6x.

Exhibit 6: Chewy EV/sales

Chewy currently trades at 0.6x EV/Sales versus its historical range of 0.5x-5.3x



Source: Bloomberg, BofA Global Research

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Price objective basis & risk

Chewy Inc (CHWY)

Our PO of \$17 is based on 0.5x 2025E EV/Sales, discount to our eCommerce and Pet Specialty comp group at 1.1x. We believe a discounted is warranted given lower forecast revenue growth to peers and significantly lower margins.

Upside risks: 1) room for long-term margin expansion driven by adjacent services, advertising, shifting product mix, and building out automated fulfillment centers 2) Chewy's Autoship driving durable and higher-growth sales and 3) expansion of adjacent service such as private brands, pharmacy, and insurance increasing NSPAC headroom, with mgmt. noting NSPAC lift of \$200-\$300/yr by adding pharmaceuticals.

Downside risks: 1) pet spend growth has dramatically slowed on a weak macro and low pet adoption rates which we expect to pressure Chewy growth through 2024, 2) Chewy's expansion into Canada is a distraction from margin improvement and is may not be a material revenue given a much smaller pet market and 3) moderating inflation and promotions decelerating pricing gains of the past 18 months.

Analyst Certification

I, Curtis Nagle, CFA, 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 - Internet Coverage Cluster

Investment rating	Company	BofA Ticker	Bloomberg symbol	Analyst
BUY				
	Alphabet	GOOGL	GOOGL US	Justin Post
	Alphabet	GOOG	GOOG US	Justin Post
	Amazon.com	AMZN	AMZN US	Justin Post
	AppLovin	APP	APP US	Omar Dessouky, CFA
	DoorDash	DASH	DASH US	Michael McGovern
	DoubleVerify Holdings, Inc.	DV	DV US	Omar Dessouky, CFA
	Electronic Arts	EA	EA US	Omar Dessouky, CFA
	Integral Ad Science Holding Corp.	IAS	IAS US	Omar Dessouky, CFA
	LegalZoom	LZ	LZ US	Michael McGovern
	Match Group	MTCH	MTCH US	Curtis Nagle, CFA
	Meta Platforms Inc	META	META US	Justin Post
	Pinterest	PINS	PINS US	Justin Post
	RH	RH	RH US	Curtis Nagle, CFA
	Roblox Corp. Class A	RBLX	RBLX US	Omar Dessouky, CFA
	Squarespace, Inc.	SQSP	SQSP US	Michael McGovern
	Uber	UBER	UBER US	Justin Post
	Udemy Inc	UDMY	UDMY US	Curtis Nagle, CFA
	Vivid Seats	SEAT	SEAT US	Curtis Nagle, CFA
	Wayfair	W	W US	Curtis Nagle, CFA
	Wix.com	WIX	WIX US	Michael McGovern
NEUTRAL				
	ACV Auctions	ACVA	ACVA US	Curtis Nagle, CFA
	Airbnb	ABNB	ABNB US	Justin Post
	Beyond Inc	BYON	BYON US	Curtis Nagle, CFA
	Booking Holdings Inc	BKNG	BKNG US	Justin Post
	Bumble	BMBL	BMBL US	Curtis Nagle, CFA
	Digital Turbine, Inc	APPS	APPS US	Omar Dessouky, CFA
	Duolingo	DUOL	DUOL US	Curtis Nagle, CFA
	eBay	EBAY	EBAY US	Justin Post
	Etsy, Inc.	ETSY	ETSY US	Curtis Nagle, CFA
	Expedia	EXPE	EXPE US	Justin Post
	Instacart	CART	CART US	Justin Post



US - Internet Coverage Cluster

Investment rating	Company	BofA Ticker	Bloomberg symbol	Analyst
	Magnite, Inc.	MGNI	MGNI US	Omar Dessouky, CFA
	Snap	SNAP	SNAP US	Justin Post
	Take-Two Interactive	TTWO	TTWO US	Omar Dessouky, CFA
	Zillow	ZG	ZG US	Curtis Nagle, CFA
	Zillow	Z	Z US	Curtis Nagle, CFA
UNDERPERFORM				
	Chewy Inc	CHWY	CHWY US	Curtis Nagle, CFA
	Lyft, Inc.	LYFT	LYFT US	Michael McGovern
	Opendoor Technologies	OPEN	OPEN US	Curtis Nagle, CFA
	Peloton	PTON	PTON US	Curtis Nagle, CFA
	Playtika	PLTK	PLTK US	Omar Dessouky, CFA
	Redfin Corp	RDFN	RDFN US	Curtis Nagle, CFA
	Shutterstock	SSTK	SSTK US	Curtis Nagle, CFA

iQmethodSM Measures Definitions**Business Performance**

Return On Capital Employed

Return On Equity
Operating Margin
Earnings Growth
Free Cash Flow

Quality of Earnings

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

Valuation Toolkit

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

EV / EBITDA

Numerator

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

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

Numerator

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

Numerator

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

Denominator

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

Denominator

Net Income
Depreciation
Pre-Tax Income
Total Equity
Interest Expense

Denominator

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

Basic EBIT + Depreciation + Amortization

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

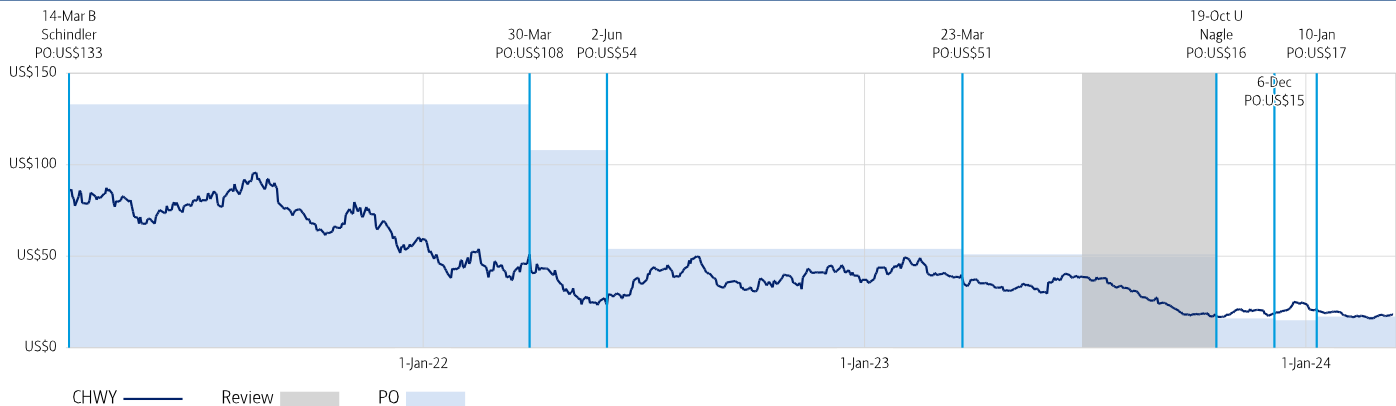
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Disclosures

Important Disclosures

Chewy (CHWY) 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.

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

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

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