

# Apple Inc.

# **December App Store rev increased +10.1%** y/y globally & +10.2% y/y in China

Maintain Rating: NEUTRAL | PO: 208.00 USD | Price: 181.18 USD

### App Store rev grew +2% y/y in F1Q24 (7 days less y/y)

As per SensorTower data, App Store revenues in F1Q24 (F1Q24 was 91 days while F1Q23 was 98 days) increased to \$6.7bn (+2% y/y, according to data on developer revenues from SensorTower), with total downloads (iPhone + iPad) decreasing 6% y/y (Fig 4). For the month of December, App store rev increased +10% y/y globally and +10% y/y in China (Fig 2). In F1Q24 (91 days), we saw app store dollars per download increase +8.5% y/y. Overall App Store trends improved y/y in December both Globally and in the US. We maintain Neutral as positive catalysts of new product introduction and stable iPhones are offset by a potentially weaker consumer spending environment.

## Global gaming rev declined 3.4% y/y in F1Q (7 days less)

In F1Q24, App store gaming revs declined 3.4% y/y to \$3.6bn and accounted for only 53% of total App store rev vs. 56% a year ago. F1Q24 had one less week than F1Q23 which drove the y/y decline. In F1Q24, Games remained the largest segment, followed by Entertainment (13%), Photo & Video (6%), Social Networking (5%), and Music (4%). China gaming segment revenue declined 6% y/y in F1Q24 (driven by 1 less week in the quarter). We believe new game approvals by China can drive further improvement in services revenue.

## iPhone availability elevated across all geos and models

iPhone 15 Pro availability is at or near highs since the launch in September while iPhone 15 availability appears to have come down a bit from its peak in mid-November for the US, Canada, and Europe. Older iPhone model availability data is showing greater than 80% across all models and geographies with exception to the iPhone 14 in Europe.

## Trade-in value data mostly flat since September

iPhone trade-in data has been largely unchanged since the Wonderlust event in September with exception of some older iPhone models seeing marginal increases in China and decreases in India. iPad & iPad Pro models in the US, UK, and China all saw trade-in values rise in November which could indicate Apple trying increase demand for newer iPad models.

Estimates (Sep) (US\$)	2022A	2023A	2024E	2025E	2026E
EPS	6.11	6.13	6.41	6.82	7.14
GAAP EPS	6.12	6.12	6.41	6.82	7.14
EPS Change (YoY)	8.9%	0.3%	4.6%	6.4%	4.7%
Consensus EPS (Bloomberg)			6.61	7.14	7.87
DPS	0.90	0.94	0.99	1.04	1.09
Valuation (Sep)					
P/E	29.7x	29.6x	28.3x	26.6x	25.4x
GAAP P/E	29.6x	29.6x	28.3x	26.6x	25.4x
Dividend Yield	0.5%	0.5%	0.5%	0.6%	0.6%
EV/EBITDA*	21.4x	22.1x	21.4x	20.5x	20.0x
Free Cash Flow Yield*	3.9%	3.5%	3.7%	3.6%	2.9%
* For full definitions of <i>IQ</i> method <sup>SM</sup> measures, see page	8.				

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#### 09 January 2024

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#### **Stock Data**

181.18 USD Price Objective 208.00 USD Date Established 12-Sep-2023 R-2-7 Investment Opinion 52-Week Range 128.12 USD - 199.62 USD Mrkt Val (mn) / Shares Out 2832610 LISD / 15634.2 Free Float 94 0% 9499.28 USD Average Daily Value (mn) BofA Ticker / Exchange AAPL / NAS Bloomberg / Reuters AAPL US / AAPL.OO ROE (2024E) 132.8% Net Dbt to Eqty (Sep-2023A) 130.5% 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

QTD: Quarter to date

# **iQ**profile<sup>™</sup> Apple Inc.

iQmethod <sup>™</sup> – Bus Performance*					
(US\$ Millions)	2022A	2023A	2024E	2025E	2026
Return on Capital Employed	46.6%	47.5%	46.3%	44.3%	39.2%
Return on Equity	175.5%	171.9%	132.8%	105.0%	76.3%
Operating Margin	32.1%	31.8%	31.6%	30.9%	31.3%
Free Cash Flow	111,443	99,584	105,674	101,781	82,447
<i>i</i> <b>Q</b> method <sup>™</sup> – <b>Quality of Earnings*</b>					
(US\$ Millions)	2022A	2023A	2024E	2025E	2026E
Cash Realization Ratio	1.2x	1.1x	1.2x	1.1x	0.9x
Asset Replacement Ratio	1.0x	1.0x	0.9x	0.9x	0.9x
Tax Rate	16.2%	14.7%	16.0%	16.0%	16.0%
Net Debt-to-Equity Ratio Interest Cover	190.3% NM	130.5% NM	69.1% NM	45.7% NM	16.0% NM
Income Statement Data (Sep)					
(US\$ Millions)	2022A	2023A	2024E	2025E	2026
Sales	394,328	383,285	401,034	427,208	432,063
% Change	7.8%	-2.8%	4.6%	6.5%	1.1%
Gross Profit	172,026	170,452	181,176	191,677	196,325
% Change	11.7%	-0.9%	6.3%	5.8%	2.4%
EBITDA	137,601	133,300	137,448	143,227	147,010
% Change	8.5%	-3.1%	3.1%	4.2%	2.6%
Net Interest & Other Income	(291)	(765)	(716)	(625)	(458)
Net Income (Adjusted) % Change	99,803 5.4%	96,995 -2.8%	99,105 2.2%	103,333 4.3%	105,977 2.6%
Free Cash Flow Data (Sep)					
(US\$ Millions)	2022A	2023A	2024E	2025E	2026E
Net Income from Cont Operations (GAAP)	105,764	103,187	105,741	110,321	113,319
Depreciation & Amortization	11,104	11,519	103,741	11,267	11,649
Change in Working Capital	1,200	(6,577)	(2,488)	(10,813)	(33,477)
Deferred Taxation Charge	895	0	0	0	0
Other Adjustments, Net	3,188	2,414	1,264	1,331	1,398
Capital Expenditure	(10,708)	(10,959)	(9,692)	(10,325)	(10,442)
Free Cash Flow	111,443	99,584	105,674	101,781	82,447
% Change	19.9%	-10.6%	6.1%	-3.7%	-19.0%
Share / Issue Repurchase	(89,402)	(77,550)	(76,000)	(76,000)	(43,000)
Cost of Dividends Paid	(14,841)	(14,875)	(15,318)	(15,751)	(16,190)
Change in Debt	(4,078)	(5,923)	0	0	0
Balance Sheet Data (Sep)	2022	2022	20245	20255	2025
(US\$ Millions)	2022A	2023A	2024E	2025E	2026E
Cash & Equivalents Trade Receivables	23,646	29,965	45,093	55,123	78,380
Other Current Assets	28,184 83,575	29,508 84,093	37,625 84,785	45,229 85,047	55,284 108,178
Property, Plant & Equipment	42.117	43.715	45,236	47,076	48,745
	175,233	165,302	165,852	166,407	166,968
()thar Non-( urrant Assats		352,583	378,591	398,882	457,555
Other Non-Current Assets <b>Total Assets</b>	352.755				•
Total Assets	<b>352,755</b> 21.110		10.000	10.000	10.000
	21,110	15,807	10,000 136,359	10,000 133,967	
<b>Total Assets</b> Short-Term Debt			10,000 136,359 95,281	10,000 133,967 95,281	134,231
<b>Total Assets</b> Short-Term Debt Other Current Liabilities	21,110 132,872	15,807 129,501	136,359	133,967	134,231 95,281
Total Assets Short-Term Debt Other Current Liabilities Long-Term Debt	21,110 132,872 98,959	15,807 129,501 95,281	136,359 95,281 49,861 <b>291,500</b>	133,967 95,281	134,231 95,281 49,866
Total Assets Short-Term Debt Other Current Liabilities Long-Term Debt Other Non-Current Liabilities	21,110 132,872 98,959 49,142	15,807 129,501 95,281 49,848	136,359 95,281 49,861	133,967 95,281 49,861	10,000 134,231 95,281 49,866 <b>289,378</b> <b>168,177</b>

### **Company Sector**

IT Hardware

### **Company Description**

Apple Inc. (AAPL) designs, manufactures, and markets consumer electronics and computers, and has developed its own proprietary iOS, Mac OS, TvOS and Watch OS operating systems and related software platform/ecosystem. Revenues are principally derived from the iPhone line of smartphones, Services, hardware sales of the Macintosh family of notebook and desktop computers, iPad tablets, and wearables.

### **Investment Rationale**

We rate Apple Neutral as we see risk-reward as balanced. Negatives are: a) weaker iPhone 15 cycle on consumer spending and China risk, b) weaker n-t services trajectory where App Store & Licensing can decelerate, c) gross profit dollars declining y/y in the short term, d) iPads/Macs reverting to pre-COVID levels, and e) stronger dollar. Positives are: a) stronger sales of Pro iPhone models, b) negative est. revisions can be lower vs. peers, c) potential new products, and services (advertising).

### Stock Data

Average Daily Volume

52,430,084

### **Quarterly Earnings Estimates**

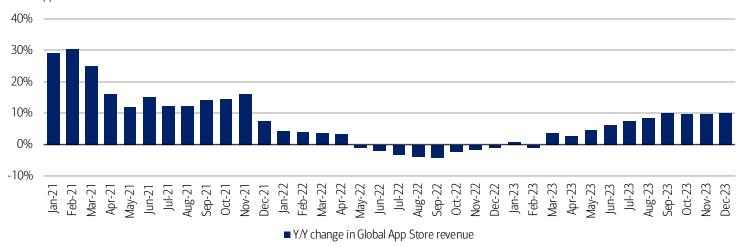
	2023	2024
Q1	1.88A	2.08E
Q2	1.52A	1.55E
Q3	1.26A	1.27E
04	1.46A	1.50E



# **Apple Services related charts**

### Figure 1: YoY change in Global App Store revenue

Global App Store revenue increased 10.1% YoY in December 2023



Source: SensorTower, BofA Global Research

Source: SensorTower, BofA Global Research

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## Figure 2: YoY change in China App Store revenue

China App Store revenue increased 10.2% YoY in December 2023



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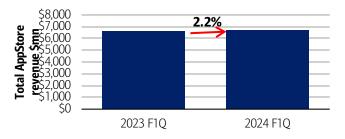


# Key takeaways for F1Q24 (compared to F1Q23 which included an extra week)

- Apple App Store generated approximately \$6.7bn revenue in F1Q24 (91 days), compared to \$6.6bn in the year-ago 98-day period. This represents +2.2% YoY growth. (Fig 3)
- App Store downloads were 8.1bn in F1Q24 vs 8.6bn in the year-ago 98-day period declining 5.8% YoY. (Fig 4)
- Average dollars per download increased +8.5% YoY to \$0.84 in F1Q24, compared to \$0.77 in the year-ago 98-day period. (Fig 5)
- Downloads in China decreased 5.5% YoY from 1,806mn in F1Q23 (after 98 days) to 1,708mn in F1Q24 (after 91 days). (Fig 6)

Figure 3: YoY growth in App Store revenue – F1Q24 vs F1Q23 (F1Q23 includes an extra week; 91 days v 98 days)

Global App Store rev increased +2.2% YoY during F1Q24 (F1Q24 was only 91 days compared to 98 days in F1Q23)

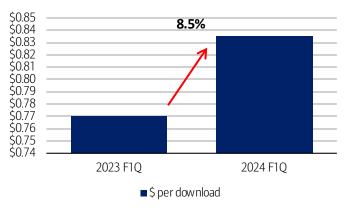


Source: SensorTower, BofA Global Research

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# Figure 5: YoY growth in App Store ASP – F1Q24 vs F1Q23 (F1Q23 includes an extra week; 91 days v 98 days)

Global App Store ASP increased 8.5% YoY during F1Q24 (F1Q24 was only 91 days compared to 98 days in F1Q23)



Source: SensorTower, BofA Global Research

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# Figure 4: YoY growth in App Store downloads – F1Q24 vs F1Q23 (F1Q23 includes an extra week; 91 days v 98 days)

Global App Store downloads declined 5.8% YoY during F1Q24 (F1Q24 was only 91 days compared to 98 days in F1Q23)

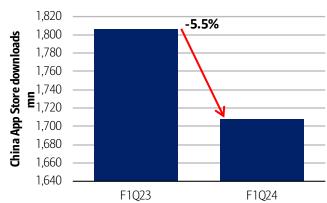


Source: SensorTower, BofA Global Research

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# Figure 6: YoY growth in China App Store downloads – F1Q24 vs F1Q23 (F1Q23 includes an extra week; 91 days v 98 days)

China App Store downloads declined 5.5% YoY during F1Q24 (F1Q24 was only 91 days compared to 98 days in F1Q23)



 $\textbf{Source:} \ \ \mathsf{SensorTower}, \ \mathsf{BofA} \ \mathsf{Global} \ \mathsf{Research}$ 

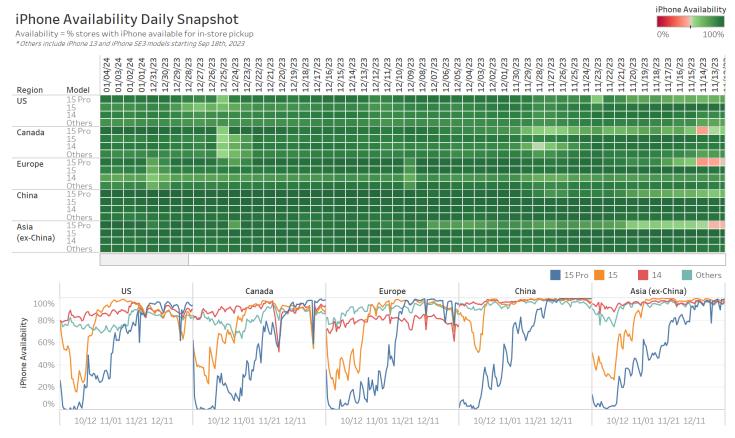
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# Availability and trade in charts

### Figure 7: iPhone availability trended higher in C4Q23

For readers of the web-formatted version of this report, access interactive features of the visualization by dicking on the image. Use the Google Chrome or Microsoft Edge browser for the best experience

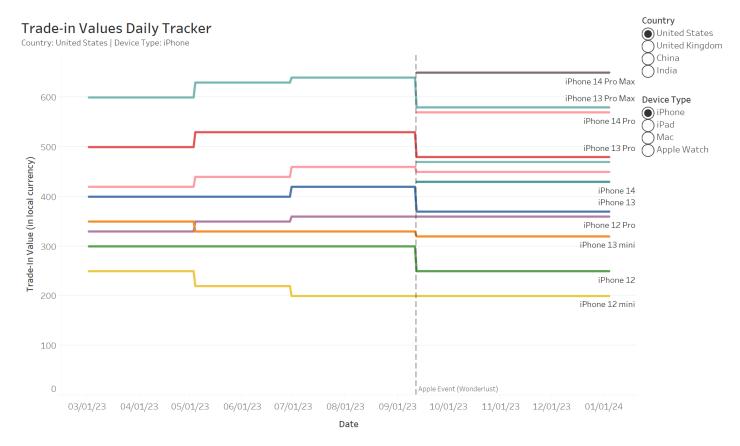


**Source:** Company Data, BofA Predictive Analytics **Note**: Daily Snapshot began on 12/20/2022

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Figure 8: Trade-in values mostly flat since September

For readers of the web-formatted version of this report, access interactive features of the visualization by clicking on the image. Use the Google Chrome or Microsoft Edge browser for the best experience



**Source:** Company Data, BofA Predictive Analytics **Note:** Daily Tracker began on 3/2/2023

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## Price objective basis & risk

## Apple Inc. (AAPL)

Our PO of \$208 is based on approximately 32x our C24E EPS. Our target multiple compares to the long-term historical range of 9-34x (median 14x). We believe a multiple at the higher end of the historical range is justified given a large cash balance and opportunity to diversify into new end markets, increasing mix and diversity of services.

Downside risks are: a) weaker iPhone 15 cycle on consumer spending risk, b) weaker near-term services trajectory where App Store & Licensing can decelerate, c) gross profit dollars declining y/y next few quarters, d) iPads/Macs reverting to pre-COVID levels, and e) stronger dollar. Other risks are potential trade conflicts, tariffs, longer iPhone replacement cycles, commoditization in the smartphone market, intensifying competition in the tablet market, ability to manage beat and raise expectations for EPS estimates, and requirement to maintain pace of product innovation.

Upside risks are: a) stronger sales of Pro iPhone models which can help average selling price and help the mix of the business, b) est. revisions can be lower vs. peers, c) potential new products (AR/VR), and services (advertising). Other upside risks are stronger than expected 5G cycle, gross margin upside from better mix of higher end iPhones, tailwinds from lower memory costs, and a faster than expected recovery in emerging markets.

# **Analyst Certification**

I, Wamsi Mohan, 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 - IT Hardware and Technology Supply Chain Coverage Cluster

lu	Commons	Bof A Ticker	Disambana armbai	Amelicat
Investment rating	Company	DOTA TICKER	Bloomberg symbol	Analyst
BUY				
	Amphenol	APH	APH US	Wamsi Mohan
	Corning Inc.	GLW	GLW US	Wamsi Mohan
	Dell Technologies Inc.	DELL	DELL US	Wamsi Mohan
	Flex Ltd.	FLEX	FLEX US	Ruplu Bhattacharya
	HP Inc.	HPQ	HPQ US	Wamsi Mohan
	International Business Machines Corp.	IBM	IBM US	Wamsi Mohan
	Jabil Inc.	JBL	JBL US	Ruplu Bhattacharya
	Nutanix Inc	NTNX	NTNX US	Wamsi Mohan
	Roku, Inc.	ROKU	ROKU US	Ruplu Bhattacharya
	Seagate Technology	STX	STX US	Wamsi Mohan
	Sensata Technologies Holdings Plc	ST	ST US	Wamsi Mohan
	TD Synnex Corp	SNX	SNX US	Ruplu Bhattacharya
	TE Connectivity Ltd.	TEL	TEL US	Wamsi Mohan
	Teradata Corporation	TDC	TDC US	Wamsi Mohan
	Western Digital Corporation	WDC	WDC US	Wamsi Mohan
NEUTRAL				
	Apple Inc.	AAPL	AAPL US	Wamsi Mohan
	Arrow Electronics Inc.	ARW	ARW US	Ruplu Bhattacharya
	Avnet Inc.	AVT	AVT US	Ruplu Bhattacharya
	CDW Corp	CDW	CDW US	Ruplu Bhattacharya
	Concentrix Corporation	CNXC	CNXC US	Ruplu Bhattacharya
	Hewlett-Packard Enterprise	HPE	HPE US	Wamsi Mohan
	Pure Storage	PSTG	PSTG US	Wamsi Mohan
UNDERPERFORM				
	DigitalOcean	DOCN	DOCN US	Wamsi Mohan



### **US - IT Hardware and Technology Supply Chain Coverage Cluster**

Investment rating	Company	Bof A Ticker	Bloomberg symbol	Analyst
	NetApp Inc.	NTAP	NTAP US	Wamsi Mohan
	Sanmina Corporation	SANM	SANM US	Ruplu Bhattacharya
	Vishay Intertechnology, Inc.	VSH	VSH US	Ruplu Bhattacharya
	Vizio	VZIO	VZIO US	Wamsi Mohan

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

Business Performance	Numerator	Denominator
Return On Capital Employed	NOPAT = (EBIT + Interest Income) $\times$ (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
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

\*\*Monethod SM 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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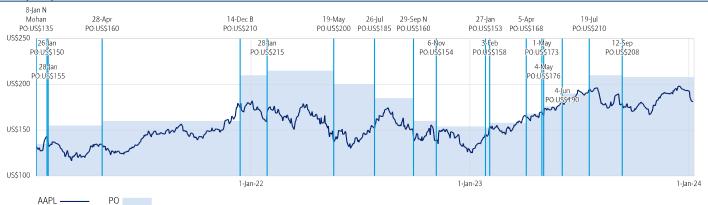
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# **Disclosures**

# **Important Disclosures**

#### Apple Inc. (AAPL) 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%

RI Issuers that were investment banking dients 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 <sup>82</sup>
Dent	> 100/	z 700/

Buy	≥ 10%	≤ 70%
Neutral	≥ 0%	≤ 30%
Underperform	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.

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