

Uber

Strong outlook supports EBITDA margin expansion thesis; Buy

Reiterate Rating: BUY | PO: 53.00 USD | Price: 49.46 USD

In-line bookings with strong profit flow through

Revenue/EBITDA were \$9.23bn/\$916mn versus Street at \$9.38bn/\$845mn, with bookings at \$33.6bn, above Street at \$33.4bn. Mobility top-line was strong (28% excluding FX bookings growth), while Delivery was in-line, and Freight missed. EBITDA at \$916mn implies 12% incremental Y/Y margins, above the 7% long-term outlook. 3Q bookings outlook at \$34-35bn (3% Q/Q at mid-point) was above Street at \$33.8bn, while EBITDA of \$975mn-\$1.025mn (9% y/y incremental margin at midpoint) was also above Street at \$919mn. Stock is down 6% versus a flat NASDAQ, possibly due to high expectations (just in-line bookings), US revenue growth slowed to 4% (Freight miss, delivery take rates), and Mobility margin was down 60bps q/q, but we see the growth, market share, and margin thesis well intact.

EBITDA growth thesis supported by Mobility/Advertising

Uber's 3Q EBITDA guide was above Street at \$915mn, as higher-margin Mobility "continues to fire on all cylinders." Mobility Trips were up a strong 26% Y/Y in Q2, with a healthy supply of drivers (up 33% Y/Y) and still-strong frequency growth (Trips per MAPC up 8%). New Mobility Product bookings growth exceeded 80% Y/Y in Q2, with new products achieving enough scale to drive total bookings (\$2bn per quarter, or 12% of total). Advertising growth was also a highlight, with the \$650mn annual run rate up 30% from 4Q'22, driven in part by the introduction of long-form video ads.

Maintain 2024 bookings at \$160bn, raise EBITDA to \$5.7bn

For bookings, lower Freight offsets high Mobility, but we raise our EBITDA estimate on lower opex. For Q3, we raise bookings by 1%, lower revenue by 2% (driven by Freight and Delivery), but raise EBITDA by 11% to \$1.02bn. For 2024E, we are now at bookings/revenue/EBITDA of \$160bn/\$44.0bn/\$5.7bn versus \$160.6bn/\$45.3bn/\$5.4bn prior.

Few blemishes on a solid quarter; reiterate Buy

Overall, it was a strong quarter but possibly a less-clean beat, with some q/q volatility on take rates and margins, plus a CFO change. However, with Uber delivering 20% coreplatform bookings growth (excluding FX and Freight), well above most consumer Internet peers, and with margins at 2.7% of bookings (versus Uber's 7% target and 12% y/y reported in 2Q), we think that Uber offers possibly the best 3- to 5-year EBITDA growth outlook in large-cap Internet. Given the higher margin profile, we raise our PO to \$53 from \$51 based on a higher mobility multiple (to 2.5x from 2x given a higher Mobility profit profile) in our sum-of-parts valuation. Our \$53 PO implies 25x 2024 FCF and 19x 2024 EBITDA.

Estimates (Dec) (US\$)	2021A	2022A	2023E	2024E	2025E
EPS	(0.26)	(4.59)	0.44	1.20	1.96
GAAP EPS	(0.29)	(4.59)	0.44	1.20	1.96
EPS Change (YoY)	93.3%	NM	NM	172.7%	63.3%
Consensus EPS (Bloomberg)			0.59	1.32	2.30
DPS	0	0	0	0	0
Valuation (Dec)					
P/E	NM	NM	112.4x	41.2x	25.2x
GAAP P/E	NM	NM	112.4x	41.2x	25.2x
Dividend Yield	0%	0%	0%	0%	0%
EV / EBITDA*	871.5x	36.6x	23.8x	17.1x	13.0x
Free Cash Flow Yield*	-0.7%	0.4%	2.3%	4.5%	6.7%
* For full definitions of <i>IQ</i> method SM measures, see page 9.					

Bof A 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 10 to 12. Analyst Certification on page 8. Price
Objective Basis/Risk on page 8.

01 August 2023

Equity

Key Changes		
(US\$)	Previous	Current
Price Obj.	51.00	53.00
2023E Rev (m)	38,145.9	37,435.8
2024E Rev (m)	45,281.2	44,043.8
2025E Rev (m)	52,459.3	51,455.3
2023E EPS	0.23	0.44
2024E EPS	1.12	1.20
2025E EPS	1.93	1.96

lustin Post

Research Analyst BofAS +1 415 676 3547 justin.post@bofa.com

Michael McGovern Research Analyst BofAS

mmcgovern@bofa.com

Steven McDermott Research Analyst

steven.mcdermott@bofa.com

Stock Data

Price	49.46 USD
Price Objective	53.00 USD
Date Established	1-Aug-2023
Investment Opinion	C-1-9
52-Week Range	22.89 USD - 49.49 USD
Mrkt Val (mn) / Shares Out	100,098 USD / 2,023.8
(mn)	
Average Daily Value (mn)	1106.04 USD
BofA Ticker / Exchange	UBER / NYS
Bloomberg / Reuters	UBER US / UBER.N
ROE (2023E)	9.0%
Net Dbt to Eqty (Dec-2022A)	99.0%
ESGMeter™	High

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

MAPC: Monthly Active Platform

Customer

opex: operating expense

iQprofile[™] Uber

(US\$ Millions)	2021A	2022A	2023E	2024E	2025
Return on Capital Employed	-2.5%	5.2%	10.7%	14.2%	17.5%
Return on Equity	-3.4%	-78.7%	9.0%	17.8%	25.4%
Operating Margin	-7.7%	5.1%	10.3%	13.0%	15.1%
Free Cash Flow	(671)	389	2,274	4,499	6,744
<i>i</i> Q method [™] – Quality of Earnings*					
(US\$ Millions)	2021A	2022A	2023E	2024E	2025
Cash Realization Ratio	NM	NM	2.7x	1.9x	1.73
Asset Replacement Ratio	0.3x	0.3x	0.3x	0.3x	0.3
Tax Rate	46.3%	2.1%	24.7%	21.0%	21.0%
Net Debt-to-Equity Ratio	53.3%	99.0%	57.8%	20.6%	13.2%
Interest Cover	NA	NA	NA	NA	NA
Income Statement Data (Dec)					
(US\$ Millions)	2021A	2022A	2023E	2024E	2025
Sales	17,455	31,877	37,436	44,044	51,455
% Change	56.7%	82.6%	17.4%	17.7%	16.8%
Gross Profit	8,223	12,224	15,138	17,999	21,61
% Change	35.8%	48.7%	23.8%	18.9%	20.1%
EBITDA	128	3,048	4,695	6,522	8,567
% Change	NM	NM	54.0%	38.9%	31.4%
Net Interest & Other Income	17,772	20,922	34,788	41,550	49,058
Net Income (Adjusted)	(496)	(9,142)	916	2,541	4,224
% Change	92.7%	NM	NM	177.3%	66.2%
Free Cash Flow Data (Dec)					
(US\$ Millions)	2021A	2022A	2023E	2024E	2025
Net Income from Cont Operations (GAAP)	(556)	(9,141)	916	2,541	4,224
Depreciation & Amortization	902	950	830	813	823
Change in Working Capital	1,688	331	(397)	264	782
Deferred Taxation Charge	NA	NA	NA	NA	N/
Other Adjustments, Net	(2,407)	8,501	1,153	1,119	1,176
Capital Expenditure	(298)	(252)	(228)	(237)	(262
Free Cash Flow	-671	389	2,274	4,499	6,744
% Change	68.8%	NM	484.5%	97.9%	49.9%
Balance Sheet Data (Dec)					
(US\$ Millions)	2021A	2022A	2023E	2024E	2025
Cash & Equivalents	4,295	4,208	5,715	9,552	11,075
Trade Receivables	2,439	2,779	3,416	4,072	4,555
Other Current Assets	2,085	2,262	2,724	2,975	3,396
Property, Plant & Equipment	1,853	2,082	2,116	2,116	2,116
Other Non-Current Assets	28,102	20,778	22,834	23,412	23,566
Total Assets	38,774	32,109	36,806	42,128	44,709
Short-Term Debt	1,442	1,692	1,933	2,103	2,465
Other Current Liabilities	7,582	7,161	7,456	7,903	8,988
Long-Term Debt	10,920	10,938	10,822	10,822	10,822
Other Non-Current Liabilities	3,481	3,814	4,412	4,904	5,205
Total Liabilities	23,425	23,605	24,622	25,732	27,480
	15,145	8,504	12,183	16,396	16,820
Total Equity	13,173	0,504	,	10,550	. 0,0_0

Company Sector

Internet/e-Commerce

Company Description

Uber is a mobility platform that services 63 countries, 750+ ridesharing markets, and 500+ Eats markets, and nearly half of Core Platform Revenue is generated outside of the U.S. The company's now has over 100mn monthly customers with revenues generated from Mobility, Delivery and Freight services.

Investment Rationale

Uber should benefit from secular shifts to the sharing economy (Mobility), time saving services (Delivery), and a move to more efficient marketplaces (Freight). We are constructive on fundamentals given a large total addressable market (TAM) and technology advances that likely lower driver dependency and improve margins. We think the stock should trade at a premium to direct peers given share leadership and potential network effects.

Stn	_1_	n.	

Average Daily Volume 22,362,232

Quarterly Earnings Estimates

	2022	2023
Q1	-3.03A	-0.08A
Q2	-1.32A	0.19A
Q3	-0.61A	0.13E
04	0.29A	0.19E



* For full definitions of \emph{IQ} method $^{\text{SM}}$ measures, see page 9.

Uber Q2 Earnings Review

Revenue/EBITDA was \$9.23bn/\$916mn versus Street at \$9.38bn/\$845mn, with Bookings at \$33.6bn (16% y/y, 3pt deceleration from 1Q, 4pt deceleration excluding FX), slightly above Street at \$33.4bn. Mobility top-line was strong (28% excluding FX bookings growth), while Delivery revenues (take rates on revenue recognition changes) were pressured, and Freight missed. EBITDA at \$916mn represented 12% incremental Y/Y margins, above Uber's 7% long-term outlook.

Uber's 3Q outlook of \$34bn-\$35bn in gross bookings was above Street at the midpoint (Street at \$33.9bn) and implies 18% Y/Y growth at the midpoint (closer to 21% excluding Freight). EBITDA guidance of \$975mn-\$1.025bn compares to Street at \$919mn and implies a 9% incremental y/y EBITDA margin at the midpoint, above the 7% incremental margin implied in Uber's 2024 EBITDA guidance. Results/commentary suggested that competitive pressures from Lyft pricing is not impacting profitability. In our preview, based on historical trends, we suggested that guidance of \$33.5-\$34.5bn in bookings and \$890-940mn in EBITDA was likely, and Uber's outlook beat our expectations.

For Mobility, management noted that the business "continues to fire on all cylinders," with bookings coming 2% above Street, revenue at \$4.89bn (approximately 21.2% normalized take rate for comparison, or 29.3% including accounting change), and EBITDA at \$1.17bn (\$39mn above Street). For Q2, Mobility Trips were up 26% Y/Y, Active Drivers were up 33% Y/Y, and Trips per User were up 8% Y/Y. New launches include Upfront Fares and Upfront Destination in all LATAM markets, better Uber Reserve availability, and expansion of UberX Share to 50 markets globally. Uber noted that its surge pricing rates were also down significantly in Q2, with driver estimated times of arrival (ETAs) also improving. Mobility margins were down slightly q/q (60bps), which could reflect a modest impact from competition, though Uber highlighted investments in new products and emerging markets.

For Delivery, bookings came in at \$15.6bn (in line with Street), with revenue of \$3.1bn (14% y/y growth, 16.4% normalized take rate), and Delivery EBITDA at \$329mn coming in \$24mn above Street. The Delivery incremental margin was 13% on bookings, well above long-term guidance for 5% Delivery margins, but it did decline from a 23% margin last quarter due to lapping cost-per-transaction improvements. The Delivery Take Rate improved 20bps Q/Q excluding accounting changes from the business model. Versus DoorDash, management noted "relatively stable" share trends in the US but with a greater focus on profitability than gaining share.

Other key announcements and platform initiatives this quarter included the following: 1) Uber is expanding Uber One to 15 countries, with One now contributing 27% of gross bookings and cross-platform loyalty programs growing (14% of Uber Cash earned redeemed on Delivery). 2) The advertising business reached a \$650mn revenue run rate, with New Verticals Sponsored Items ads launching in the US, Canada, France, and Australia, as well as new full-length video ads across the entire platform, including Mobility. 3) It is accelerating adoption of large language-based models (LLM) to produce recommendations for consumers and help engineers with producing code more efficiently. 4) It announced a multi-year strategic partnership with Waymo to ensure that its vehicles can be deployed on the Uber platform. 5) It indicated that CFO Nelson Chai will be stepping down, with a departure date of January 5, 2024, with the search for replacement under way.



Positives from the Quarter

- **EBITDA guidance above Street.** 3Q EBITDA guidance of \$975mn-\$1.025bn was above Street at \$919mn (we suggested \$890mn-\$940mn in our preview), implying approximately 9% Y/Y incremental EBITDA margins at the midpoint, above Uber's target of 7%+ incremental EBITDA margins to meet the company's \$5bn 2024 target.
- Positive GAAP operating profit, FCF over \$1bn. Uber reported positive GAAP operating profit of \$326mn and free cash flow of \$1.14bn. Per Uber, management "will evaluate returning excess capital to shareholders as cash flows ramp." With consistent GAAP profitability, Uber has potential to be included in the S&P 500 index.
- New Mobility Product growth exceeds 80% Y/Y, growing as a percent of total. Management disclosed that New Products (taxis, Reserve, Uber for Business) grew over 80% Y/Y to reach \$8bn in gross bookings on a run-rate basis (12% of total Mobility gross bookings).
- Gaining category market share in top markets. Uber gained Mobility category
 market share in eight of the top-10 markets. According to management, gains were
 driven by lower estimated times of arrival as a result of strong driver supply
 (\$15.1bn in total earnings for Drivers and Couriers) and pricing optimization.
- **High-margin advertising at a \$650mn run rate.** Advertising reached \$650mn in run-rate revenue in 2Q, which is still just 0.50% of gross bookings excluding Freight. Assuming 40% margins, ads contributed an outsized 7% of total EBITDA for the quarter. We are constructive on Uber's 2024 target of \$1bn in ad revenue, driven by initiatives including New Vertical Sponsored listing for consumer packaged goods advertisers and the rollout of long-form video.

Negatives from the Quarter

- Mobility EBITDA margin declines sequentially. Mobility EBITDA margin as percent of revenue was 23.9%, 60bps lower than 1Q (-30bps excluding UK accounting impact), driven by a seasonally low 2Q Take Rate and investments in LatAm (particularly Brazil) and APAC investments. Further consumer incentives for New Products include that the expansion of UberX Share pressured EBITDA margins.
- Freight drags on overall growth. Segment revenue of \$1.28bn declined 19% Y/Y and missed Street by 9.6%. The company called out seasonally weak spot rates but expects pressure to continue in the near term as Uber manages the business near breakeven EBITDA. Freight is expected to trend flat Y/Y given significantly easier comps in 3Q.
- Incremental Delivery EBITDA margin decelerates. On Bookings, Delivery Incremental EBITDA margins decelerated to 13% from 23% last quarter. The company called out tougher comps in 2H'23, including lapping of consumer incentives optimization as well as Cost-per-Transaction improvements. Although cost optimizations are now being rolled out Internationally, they are providing less uplift than in prior-quarter rollouts in the US and Canada.



Actuals versus Estimates

Uber reported revenue/EBITDA of \$9.23bn/\$916mn versus Street at \$9.38bn/\$845mn. Gross Bookings of \$33.6bn (15.6% y/y growth) were slightly above Street at \$33.5bn, but total revenue came in at \$9.23bn (14.3% y/y growth), which was 1.6% below Street at \$9.38bn. Take Rate in Delivery (19.6% versus Street at 20.2%), and weakness in Freight (10% miss versus Street) pressured revenue. Adj. EBITDA of \$916mn (9.9% EBITDA Margin on revenue, 5.4pts leverage Y/Y) was 8.5% above Street at \$845mn and delivered strong 12% incremental EBITDA margins Y/Y, above Uber's 7%+ target. Gross margin was in line with our estimates at 40.2% and delivered roughly 4pts of leverage Y/Y.

Exhibit 1: Actual vs. Estimates

Revenue/EBITDA of \$9.23bn/\$916mn versus Street at \$9.38bn/\$845mn

	2Q23A			
Actuals versus Estimates	Actual I	BofA Estimate	% Difference	
KPIs				
MAPCs	137.0	136.6	0.3%	
Trips (millions)	2,282.0	2,285.3	-0.1%	
Bookings				
Mobility Bookings	16,728	16,705	0.1%	
Delivery Bookings	15,595	15,680	-0.5%	
Freight	1,279	1,411	-9.3%	
Gross Bookings	33,601	33,796	-0.6%	
y/y Growth	15.6%	16.2%	-0.7%	
Total Revenue				
Mobility Revenue	4,894	4,828	1.4%	
Delivery Revenue	3,057	3,246	-5.8%	
Freight Revenue	1,279	1,411	-9.3%	
Total Revenue	9,230	9,484	-2.7%	
y/y Growth	14.3%	17.5%	-3.1%	
Take Rates				
Mobility Take Rate	29.3%	28.9%	0.4%	
Delivery Take Rate	19.6%	20.7%	-1.1%	
Adj. Income Statement				
Cost of Revenue	5,515	5,672	-2.8%	
Operations and Support	616	612	0.6%	
Sales and Marketing	1,192	1,328	-10.2%	
Research and Development	488	493	-1.0%	
General and Administrative	503	531	-5.3%	
Operating Income (Loss)	916	848	8.0%	
Tax Rate	14%	8%	-77.0%	
GAAP Net Income	394	75	-427.4%	
GAAP EPS	\$0.18	\$0.04	-386.1%	
FD Shares	2,079	2,018	3.1%	
Adjusted EBITDA	\$916	\$848	8.0%	
EBITDA Margin (% of Revenue)	9.9%	8.9%	1.0%	

Source: Company reports, BofA Global Research

BofA GLOBAL RESEARCH



Estimate Changes

For 3Q'23E, we raise our gross bookings estimate slightly to \$34.4b (+1% from prior) but lower our revenue estimate to \$9.44bn from \$9.61bn prior. We now project EBITDA of \$1.015bn, an 11% increase from our prior \$913mn projection. For 2023E, we raise our gross bookings estimate by \$200mn to \$135.6bn, lower our revenue estimate by 2% to \$37.4bn, and raise our EBITDA estimate by 5% to \$3.87bn. For 2024E, we slightly adjust our gross bookings/revenue projection down to \$159.9bn/\$44.0bn from \$160.6bn/\$45.3bn prior but raise our EBITDA estimate by 5% to \$5.71bn (versus the \$5bn 2024 target).

Exhibit 2: Estimate Changes

For 3Q, we are now at revenue/EBITDA of \$9.44nn/\$1.02bn versus \$9.61nb/\$913mn prior.

	3Q	23E	1	2	023E	Ī	20	024E	
Estimate Changes	Prior		% Chg.	Prior	New 9	6 Chg.	Prior	New	% Chg.
KPIs									
MAPCs (Monthly Active Platform Consumers)	137.6	138.9	1%	146.7	147.6	1%	158.5	159.4	1%
Trips (millions)	2,341.3	2,362.3	1%	9,248.5	9,288.9	0%	10,592.3	10,696.9	1%
Bookings									
Mobility Bookings	17,105	17,406	2%	67,111	67,584	1%	82,175	82,752	1%
Delivery Bookings	15,463	15,723	2%	62,488	62,778	0%	72,029	71,712	0%
Freight	1,453	1,278	-12%	5,819	5,251	-10%	6,401	5,463	-15%
Gross Bookings	34,021	34,407	1%	135,419	135,612	0%	160,605	159,927	0%
y/y Growth	16.8%	18.2%	1%	17.4%	17.5%	0%	18.6%	17.9%	-1%
Total Revenue									
Mobility Revenue	4,943	5,083	3%	19,377	19,699	2%	23,809	24,224	2%
Delivery Revenue	3,216	3,082	-4%	12,949	12,486	-4%	15,071	14,357	-5%
Freight Revenue	5,819	5,251	-10%	5,819	5,251	-10%	6,401	5,463	-15%
Total Revenue	9,613	9,442	-2%	38,146	37,436	-2%	45,281	44,044	-3%
y/y Growth	15.2%	13.2%	-2%	19.7%	17.4%	-2%	18.7%	17.7%	-1%
Adj. Income Statement									
Cost of Revenue	5,739	5,609	-2%	22,754	22,297	-2%	26,796	26,044	-3%
Operations and Support	625	617	-1%	2,452	2,450	0%	2,680	2,608	-3%
Sales and Marketing	1,298	1,209	-7%	5,141	4,860	-5%	5,886	5,403	-8%
Research and Development	500	491	-2%	1,978	1,950	-1%	2,170	2,134	-2%
General and Administrative	538	502	-7%	2,123	2,013	-5%	2,335	2,145	-8%
Adj. Operating Income (Loss)	913	1,015	11%	3,699	3,865	5%	5,414	5,710	5%
GAAP Net Income	-17%	-25%	45%	-17%	-25%	45%	-8%	-21%	163%
GAAP Net Income	462	916	98%	462	916	98%	2,337	2,541	9%
GAAP EPS	\$0.07	\$0.13	99%	\$0.23	\$0.44	97%	\$1.12	\$1.20	7%
FD Shares	2,049	2,069	1%	2,049	2,069	1%	2,080	2,121	2%
Adjusted EBITDA	\$913	\$1,015	11%	\$3,699	\$3,865	5%	\$5,414	\$5,710	5%
EBITDA Margin (% of Revenue)	9.5%	10.8%	1.2%	9.7%	10.3%	0.6%	12.0%	13.0%	1%

Source: BofA Global Research estimates

BofA GLOBAL RESEARCH



Valuation

We raise our PO to \$53 from \$51 based on our higher mobility estimates and an increased Mobility multiple due to higher expected margins. Our sum-of-the-parts (SOTP) implies a 2024 EV/revenue multiple of 2.5x for Mobility (from 2x previously), 3x for Delivery (unchanged, implies 0.6x bookings), and 1x for Freight. Our SOTP valuation implies segment values of \$61bn for Mobility, \$44bn for Delivery, and \$5.5bn for Freight, which implies a total Enterprise Value of \$110bn. Based on a net realizable value of investments of \$3.9bn, we estimate a target market cap of \$110bn. Our PO of \$53 is based on 2.1bn shares outstanding.

Exhibit 3: Uber Valuation

Our PO of \$53 implies a blended 2.5x 2024 P/Sales multiple

Segment	2024E Revenue	Multiple	Enterprise Value	P
Mobility	\$24,224	2.5x	\$60,559	
Delivery	\$14,357	3.0x	\$43,774	
Freight	\$5,463	1.0x	\$5,463	
Enterprise Value			\$109,796	
Net Cash				
2023E Cash			\$5,715	
2023E Debt			(\$9,255)	
Add: 2022E Net Cash			(\$3,540)	
Minority-owned Affiliates				
Investments (B/S)			\$5,167	
Less: Liquidity and Valuation Discount			25%	
Add: FV of Investments			\$3,875	
Market Capitalization			\$110,132	
Diluted Shares Outstanding			2,061	
Price Objective			\$53	
Source: BofA Global Research			700	

	2024E Revenue multiple
Lyft:	0.8x
DoorDash:	3.2x

3.0x 1.0x

BofA GLOBAL RESEARCH



Price objective basis & risk

Uber (UBER)

Our SOTP applies an EV/2024E Revenue valuation of 2.5x for Mobility, 3.0x revenue for Delivery, and 1.0x revenue for Freight, which are slight premiums to peers given potential network effects. Our SOTP valuation implies segment values of \$61bn for Mobility, \$44bn for Delivery, and \$5.5bn for Freight, which implies a Total Enterprise Value for Uber of \$110bn. Including assets we estimate a target market cap of \$110bn. Our Price Objective of \$53 is based on 2.1bn shares outstanding.

Downside risks are 1) multiple compression given macro economic exposure, 2) slowing user/revenue growth due to competitive initiatives from Lyft or DoorDash, 3) new competition from self-driving technology companies, and 4) new regulations, fees, and/or minimum wages.

Analyst Certification

I, Justin Post, 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.

Special Disclosures

BofA Securities is currently acting as financial adviser to Uber Technologies Inc in connection with Emirates Telecommunications Group Co PJSC's acquisition of a majority stake in the Super App spinout of Careem Networks FZ LLC, a subsidiary of Uber Technologies Inc, which was announced on April 10, 2023.

US - Internet Coverage Cluster

Investment rating	Company	Bof A 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
	Arhaus, Inc	ARHS	ARHS US	Curtis Nagle, CFA
	Digital Turbine, Inc	APPS	APPS US	Omar Dessouky, CFA
	DoorDash	DASH	DASH US	Michael McGovern
	Expedia	EXPE	EXPE US	Justin Post
	Meta Platforms Inc	META	META US	Justin Post
	Peloton	PTON	PTON US	Justin Post
	RH	RH	RH US	Curtis Nagle, CFA
	Roblox Corp. Class A	RBLX	RBLX US	Omar Dessouky, CFA
	Take-Two Interactive	TTWO	TTWO US	Omar Dessouky, CFA
	Tempur Sealy International Inc.	TPX	TPX US	Curtis Nagle, CFA
	Uber	UBER	UBER US	Justin Post
	Vivid Seats	SEAT	SEAT US	Curtis Nagle, CFA
	Wayfair	W	W US	Curtis Nagle, CFA
	Zillow	ZG	ZG US	Curtis Nagle, CFA
	Zillow	Z	Z US	Curtis Nagle, CFA
NEUTRAL				
	1stDibs.com	DIBS	DIBS US	Curtis Nagle, CFA
	Airbnb	ABNB	ABNB US	Justin Post
	Booking Holdings Inc	BKNG	BKNG US	Justin Post
	eBay	EBAY	EBAY US	Curtis Nagle, CFA
	Electronic Arts	EA	EA US	Omar Dessouky, CFA
	Etsy, Inc.	ETSY	ETSY US	Curtis Nagle, CFA
	Overstock.com Inc	OSTK	OSTK US	Curtis Nagle, CFA
	Pinterest	PINS	PINS US	Justin Post
	Playtika	PLTK	PLTK US	Omar Dessouky, CFA



8

US - Internet Coverage Cluster

Investment rating	Company	Bof A Ticker	Bloomberg symbol	Analyst
	Snap	SNAP	SNAP US	Justin Post
UNDERPERFORM				
	Lyft, Inc.	LYFT	LYFT US	Michael McGovern
	Opendoor Technologies	OPEN	OPEN US	Curtis Nagle, CFA
	Redfin Corp	RDFN	RDFN US	Curtis Nagle, CFA

Qmethod [™] 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

Monthoid so 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.

Relatabase 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.

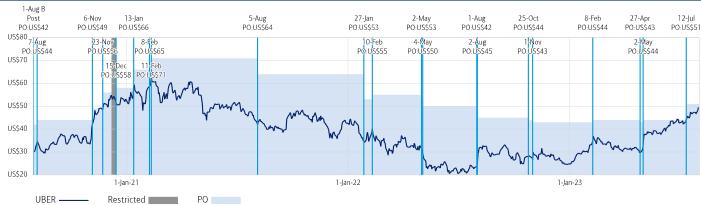
*IQ*profile[™], *IQ*method [™] are service marks of Bank of America Corporation. *IQdataba*se [®] is a registered service mark of Bank of America Corporation.



Disclosures

Important Disclosures

Uber Technologies (UBER) 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 30 Jun 2023)

Coverage Universe	Count	Percent	Inv. Banking Relationships R1	Count	Percent
Buy	212	53.13%	Buy	103	48.58%
Hold	89	22.31%	Hold	45	50.56%
Sell	98	24 56%	Sell	30	30.61%

Equity Investment Rating Distribution: Global Group (as of 30 Jun 2023)

Coverage Universe	Count	Percent	Inv. Banking Relationships ^{R1}	Count	Percent
Buy	1877	53.28%	Buy	1040	55.41%
Hold	815	23.13%	Hold	464	56.93%
Sell	831	23.59%	Sell	385	46.33%

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.

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 $\geq 10\%$ $\leq 70\%$ Neutral $\geq 0\%$ $\leq 30\%$ Underperform N/A $\geq 20\%$

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. Uber Technologies.

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

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

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

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: Uber Technologies.

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: Uber Technologies.

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: Uber Technologies.



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.

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

Other Important Disclosures

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

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

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

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

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

Refer to BofA Global Research policies relating to conflicts of interest.

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

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

BofAS and/or Merrill Lynch, Pierce, Fenner & Smith Incorporated ("MLPF&S") may in the future distribute, information of the following non-US affiliates in the US (short name: legal name, regulator): Merrill Lynch (South Africa): Merrill Lynch South Africa (Pty) Ltd., regulated by The Financial Service Board; MLI (UK): Merrill Lynch International, regulated by the Financial Conduct Authority (FCA) and the Prudential Regulation Authority (PRA); BofASE (France): BofA Securities Europe SA is authorized by the Autorité de Contrôle Prudential et de Résolution (ACPR) and regulated by the ACPR and the Autorité des Marchés Financiers (AMF). BofA Securities Europe SA ("BofASE") with registered address at 51, rue La Boétie, 75008 Paris is registered under no. 842. 602 690 RCS Paris. In accordance with the provisions of French Code Monétaire et Financier (Monetary and Financial Code), BofASE is an établissement de crédit et d'investissement (credit and investment institution) that is authorised and supervised by the European Central Bank and the Autorité de Contrôle Prudentiel et de Résolution (ACPR) and regulated by the ACPR and the Autorité des Marchés Financiers. BofASE's share capital can be found at www.bofaml.com/BofASEdisclaimer; BofA Europe (Milan): Bank of America Europe Designated Activity Company, Milan Branch, regulated by the Bank of Italy, the European Central Bank (ECB) and the Central Bank of Ireland (CBI); BofA Europe (Frankfurt): Bank of America Europe Designated Activity Company, Frankfurt Branch regulated by BaFin, the ECB and the CBI; BofA Europe (Madrid): Bank of America Europe Designated Activity Company, Sucursal en España, regulated by the Bank of Spain, the ECB and the CBI; Merrill Lynch (Australia): Merrill Lynch (Australia): Merrill Lynch (Hong Kong): Merrill (Asia Pacific) Limited, regulated by the Hong Kong Securities and Futures Commission (HKSFC); Merrill Lynch (Singapore): Merrill Lynch (Singapore) Pte Ltd, regulated by the Monetary Authority of Singapore (MAS); Merrill Lynch (Canada): Merrill Lynch (Canada): Merrill Lynch (Mexico): Merrill Lynch (Mexico) SA de CV, Casa de Bolsa, regulated by the Comisión Nacional Bancaria y de Valores; Merrill Lynch (Argentina): Merrill Lynch Argentina SA, regulated by Comisión Nacional de Valores; BofAS Japan: BofA Securities Japan Co., Ltd., regulated by the Financial Services Agency; Merrill Lynch (Seoul): Merrill Lynch International, LLC Seoul Branch, regulated by the Financial Supervisory Service; Merrill Lynch (Taiwan): Merrill Lynch Securities (Taiwan) Ltd., regulated by the Securities and Futures Bureau; BofAS India: BofA Securities India Limited, regulated by the Securities and Exchange Board of India (SEBI); Merrill Lynch (Israel): Merrill Lynch Israel Limited, regulated by Israel Securities Authority; Merrill Lynch (DIFC): Merrill Lynch International (DIFC Branch), regulated by the Dubai Financial Services Authority (DFSA); Merrill Lynch (Brazil): Merrill Lynch S.A. Corretora de Títulos e Valores Mobiliários, regulated by Comissão de Valores Mobiliários; Merrill Lynch KSA Company: Merrill Lynch Kingdom of Saudi Arabia Company, regulated by the Capital Market Authority.

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

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 2023 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.

