BofA SECURITIES **

Airbnb

Cross-currency transaction fee could help boost take rates

Reiterate Rating: NEUTRAL | PO: 155.00 USD | Price: 149.62 USD

Airbnb to raise cross-currency booking fees

Airbnb on Friday (01/26) announced an additional fee for cross-currency bookings i.e., for bookings where the guest pays using a different currency from the one set by the Host for their listing. The resulting guest service fee will be up to 16.5% of the booking subtotal, up from around 14.2% (though most guests don't pay this much), and will be applicable starting 1st Apr'24. According to Bloomberg, Sam Randall, an Airbnb spokesman said "The update to the service fee is an example of us enabling the ability to bring our platform in line with industry practices and is not anticipated to affect the majority of our guests as cross-currency transactions make up a smaller percentage of bookings." Airbnb stock jumped 5.3% on Friday (vs S&P down 0.07%), given the potential benefit to revenues and profits.

A potential for a 4-5% revenue boost

According to Airbnb's 3Q23 shareholder letter, cross-border represented around 45% of total gross nights booked vs 43% in 3Q22. Assuming 70% of these cross-border visits are cross-currency transactions (some customers may choose local currency conversion from their bank/card or book in same currency within EU) we estimate a potential revenue uplift of 4-5%. However, we don't know if all cross-border bookings will get a full 230bps fee increase as guest fees can vary, and growing transaction costs could offset some of the revenue bump as the company expands Internationally.

AirDNA estimates suggest potential for 4Q upside

AirDNA's Nov/Dec. data for Airbnb suggests healthy travel demand during the holiday season. For 4Q, AirDNA estimates Airbnb's nights at 100.3mn, ADR at \$158 and revenue at \$2.23bn, above Street at 98.1mn/\$155/\$2.16bn. We see upside potential for all OTAs as 4Q estimates were generally set after a weak October for the sector.

Maintaining estimates, raising PO

Fee change supports the bullish Airbnb thesis that the company has the ability to raise take rates over time, driving faster revenue growth and higher margins. We expect to learn more on the potential impact on 2024/2025 revenue take rates on our 1/29/24 AirDNA call (click here for call invite and registration link). Given potential for revenue upside, and recent multiple expansion in Online travel sector, we our raising our PO to \$155 from \$148 based on 20x 2025 EV/EBITDA, up from 19x earlier. We reiterate our Neutral rating as we still see potential for bookings and ADR moderation in high growth areas (Furope and ROW) in 2024

areas (Larope and NOVV) in 2024.					
Estimates (Dec) (US\$)	2021A	2022A	2023E	2024E	2025E
EPS	0.86	3.51	4.83	5.55	6.28
GAAP EPS	(0.57)	2.84	8.41	4.14	4.76
EPS Change (YoY)	NM	308.1%	37.6%	14.9%	13.2%
Consensus EPS (Bloomberg)			8.31	4.65	5.22
DPS	0	0	0	0	0
Valuation (Dec)					
P/E	174.0x	42.6x	31.0x	27.0x	23.8x
GAAP P/E	NM	52.7x	17.8x	36.1x	31.4x
EV / EBITDA*	60.1x	33.0x	26.9x	23.6x	20.6x
Free Cash Flow Yield*	2.1%	3.3%	4.1%	4.4%	4.9%
* For full definitions of <i>IQ</i> method ^{≤M} measures, see page 4.					

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Refer to important disclosures on page 5 to 7. Analyst Certification on page 3. Price
Objective Basis/Risk on page 3.

Timestamp: 29 January 2024 02:16AM EST

29 January 2024

Equity

Key Changes		
(US\$)	Previous	Current
Price Obj.	148.00	155.00
	(US\$)	(US\$) Previous

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Stock Data

Price Objective 155.00 USD Date Established 29-Jan-2024 Investment Opinion C-2-9 52-Week Range 103.55 USD - 154.95 USD Mrkt Val (mn) / Shares Out 101,742 USD / 680.0 (mn) Free Float 86.8% Average Daily Value (mn) 683 34 USD BofA Ticker / Exchange ABNB / NAS Bloomberg / Reuters ABNB US / ABNB.OO ROE (2023E) 42.3% Net Dbt to Eqty (Dec-2022A) -97 0% ESGMeter™ Medium

149.62 USD

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".

OTA: Online Travel Agency

*iQ*profile[™] Airbnb

iQmethod [™] – Bus Performance*					
(US\$ Millions)	2021A	2022A	2023E	2024E	2025
Return on Capital Employed	20.6%	35.1%	37.5%	29.0%	27.8%
Return on Equity	14.5%	45.4%	42.3%	34.0%	31.59
Operating Margin	24.0%	33.6%	35.2%	36.0%	36.39
Free Cash Flow	2,164	3,405	4,182	4,440	4,96
i Q method [™] – Quality of Earnings*					
(US\$ Millions)	2021A	2022A	2023E	2024E	2025
Cash Realization Ratio	3.9x	1.5x	1.3x	1.2x	1.2
Asset Replacement Ratio	0.2x	0.3x	1.0x	0.9x	1.0
Tax Rate	NM	4.8%	NM	19.0%	19.09
Net Debt-to-Equity Ratio	-85.8%	-97.0%	-65.6%	-75.2%	-82.39
Interest Cover	3.3x	NM	NM	NM	NN
Income Statement Data (Dec)					
(US\$ Millions)	2021A	2022A	2023E	2024E	2025
Sales	5,992	8,399	9,864	11,103	12,63
% Change	77.4%	40.2%	17.4%	12.6%	13.89
Gross Profit	4,836	6,901	8,164	9,211	10,49
% Change	93.3%	42.7%	18.3%	12.8%	13.99
EBITDA	1,593	2,903	3,563	4,060	4,64
% Change	NM	82.2%	22.7%	13.9%	14.59
Net Interest & Other Income	(730)	187	635	676	67
Net Income (Adjusted)	555	2,347	3,207	3,645	4,10
% Change	NM	322.9%	36.7%	13.7%	12.59
100 000111011 2000 (200)					
(US\$ Millions)	2021A	2022A	2023E	2024E	
(US\$ Millions) Net Income from Cont Operations (GAAP)	(352)	1,893	5,578	2,721	3,10
(US\$ Millions) Net Income from Cont Operations (GAAP) Depreciation & Amortization	(352) 138	1,893 81	5,578 38	2,721 42	3,10 4
(US\$ Millions) Net Income from Cont Operations (GAAP) Depreciation & Amortization Change in Working Capital	(352) 138 638	1,893 81 319	5,578 38 236	2,721 42 302	3,10 4 33
(US\$ Millions) Net Income from Cont Operations (GAAP) Depreciation & Amortization Change in Working Capital Deferred Taxation Charge	(352) 138 638 11	1,893 81 319 (1)	5,578 38 236 (2,759)	2,721 42 302 0	3,10 4 33
(US\$ Millions) Net Income from Cont Operations (GAAP) Depreciation & Amortization Change in Working Capital Deferred Taxation Charge Other Adjustments, Net	(352) 138 638 11 1,755	1,893 81 319 (1) 1,138	5,578 38 236 (2,759) 1,127	2,721 42 302 0 1,413	3,10 4 33 1,52
(US\$ Millions) Net Income from Cont Operations (GAAP) Depreciation & Amortization Change in Working Capital Deferred Taxation Charge Other Adjustments, Net Capital Expenditure	(352) 138 638 11 1,755 (25)	1,893 81 319 (1) 1,138 (25)	5,578 38 236 (2,759) 1,127 (38)	2,721 42 302 0 1,413 (38)	3,10 ¹ 41 331 1,526 (44
(US\$ Millions) Net Income from Cont Operations (GAAP) Depreciation & Amortization Change in Working Capital Deferred Taxation Charge Other Adjustments, Net Capital Expenditure Free Cash Flow	(352) 138 638 11 1,755 (25) 2,164	1,893 81 319 (1) 1,138 (25) 3,405	5,578 38 236 (2,759) 1,127 (38) 4,182	2,721 42 302 0 1,413 (38) 4,440	3,10 4 33 1,52 (44 4,96
Net Income from Cont Operations (GAAP) Depreciation & Amortization Change in Working Capital Deferred Taxation Charge Other Adjustments, Net Capital Expenditure Free Cash Flow % Change	(352) 138 638 11 1,755 (25) 2,164 NM	1,893 81 319 (1) 1,138 (25) 3,405 57.4%	5,578 38 236 (2,759) 1,127 (38) 4,182 22.8%	2,721 42 302 0 1,413 (38) 4,440 6.2%	3,10 4 33 1,52 (4 ² 4,96 11.9 %
Net Income from Cont Operations (GAAP) Depreciation & Amortization Change in Working Capital Deferred Taxation Charge Other Adjustments, Net Capital Expenditure Free Cash Flow % Change Share / Issue Repurchase	(352) 138 638 11 1,755 (25) 2,164 NM 2,017	1,893 81 319 (1) 1,138 (25) 3,405 57.4% 88	5,578 38 236 (2,759) 1,127 (38) 4,182 22.8% 145	2,721 42 302 0 1,413 (38) 4,440 6.2% 290	3,10 4 33 1,52 (44 4,96 11.99
Net Income from Cont Operations (GAAP) Depreciation & Amortization Change in Working Capital Deferred Taxation Charge Other Adjustments, Net Capital Expenditure Free Cash Flow % Change Share / Issue Repurchase Cost of Dividends Paid	(352) 138 638 11 1,755 (25) 2,164 NM 2,017	1,893 81 319 (1) 1,138 (25) 3,405 57.4% 88 0	5,578 38 236 (2,759) 1,127 (38) 4,182 22.8% 145 0	2,721 42 302 0 1,413 (38) 4,440 6.2% 290	3,10 4 33 1,52 (42 4,96 11.99 29
Depreciation & Amortization Change in Working Capital Deferred Taxation Charge Other Adjustments, Net Capital Expenditure Free Cash Flow % Change Share / Issue Repurchase Cost of Dividends Paid Change in Debt	(352) 138 638 11 1,755 (25) 2,164 NM 2,017	1,893 81 319 (1) 1,138 (25) 3,405 57.4% 88	5,578 38 236 (2,759) 1,127 (38) 4,182 22.8% 145	2,721 42 302 0 1,413 (38) 4,440 6.2% 290	3,10° 40 330° 1,52° (44 4,96 9 11.99
Net Income from Cont Operations (GAAP) Depreciation & Amortization Change in Working Capital Deferred Taxation Charge Other Adjustments, Net Capital Expenditure Free Cash Flow % Change Share / Issue Repurchase Cost of Dividends Paid Change in Debt Balance Sheet Data (Dec)	(352) 138 638 11 1,755 (25) 2,164 NM 2,017 0 (2,208)	1,893 81 319 (1) 1,138 (25) 3,405 57.4% 88 0	5,578 38 236 (2,759) 1,127 (38) 4,182 22.8% 145 0	2,721 42 302 0 1,413 (38) 4,440 6.2% 290 0	3,10 4 33 1,52 (44 4,96 11.99 29
Net Income from Cont Operations (GAAP) Depreciation & Amortization Change in Working Capital Deferred Taxation Charge Other Adjustments, Net Capital Expenditure Free Cash Flow % Change Share / Issue Repurchase Cost of Dividends Paid Change in Debt Balance Sheet Data (Dec) (US\$ Millions)	(352) 138 638 11 1,755 (25) 2,164 NM 2,017 0 (2,208)	1,893 81 319 (1) 1,138 (25) 3,405 57.4% 88 0	5,578 38 236 (2,759) 1,127 (38) 4,182 22.8% 145 0 0	2,721 42 302 0 1,413 (38) 4,440 6.2% 290 0	3,10 4 33 1,52 (44 4,96 11.99 29
Net Income from Cont Operations (GAAP) Depreciation & Amortization Change in Working Capital Deferred Taxation Charge Other Adjustments, Net Capital Expenditure Free Cash Flow % Change Share / Issue Repurchase Cost of Dividends Paid Change in Debt Balance Sheet Data (Dec) (US\$ Millions) Cash & Equivalents	(352) 138 638 11 1,755 (25) 2,164 NM 2,017 0 (2,208)	1,893 81 319 (1) 1,138 (25) 3,405 57.4% 88 0 0	5,578 38 236 (2,759) 1,127 (38) 4,182 22.8% 145 0 0	2,721 42 302 0 1,413 (38) 4,440 6.2% 290 0	3,10° 44 33° 1,52° (44 4,96° 11.99° 290 2025
Net Income from Cont Operations (GAAP) Depreciation & Amortization Change in Working Capital Deferred Taxation Charge Other Adjustments, Net Capital Expenditure Free Cash Flow % Change Share / Issue Repurchase Cost of Dividends Paid Change in Debt Balance Sheet Data (Dec) (US\$ Millions) Cash & Equivalents Trade Receivables	(352) 138 638 11 1,755 (25) 2,164 NM 2,017 0 (2,208) 2021A 6,082 3,715	1,893 81 319 (1) 1,138 (25) 3,405 57.4% 88 0 0	5,578 38 236 (2,759) 1,127 (38) 4,182 22.8% 145 0 0 2023E 8,193 6,024	2,721 42 302 0 1,413 (38) 4,440 6.2% 290 0 0 2024E 10,762 6,747	3,10 4 33 1,52 (44 4,96 11.99 29 2025 13,55 7,56
Net Income from Cont Operations (GAAP) Depreciation & Amortization Change in Working Capital Deferred Taxation Charge Other Adjustments, Net Capital Expenditure Free Cash Flow % Change Share / Issue Repurchase Cost of Dividends Paid Change in Debt Balance Sheet Data (Dec) (US\$ Millions) Cash & Equivalents Trade Receivables Other Current Assets	(352) 138 638 11 1,755 (25) 2,164 NM 2,017 0 (2,208) 2021A 6,082 3,715 2,589	1,893 81 319 (1) 1,138 (25) 3,405 57.4% 88 0 0	5,578 38 236 (2,759) 1,127 (38) 4,182 22.8% 145 0 0 2023E 8,193 6,024 3,362	2,721 42 302 0 1,413 (38) 4,440 6.2% 290 0 0 2024E 10,762 6,747 3,391	3,10 4 33 1,52 (44 4,96 11.99 29 2025 13,55 7,56 3,47
Net Income from Cont Operations (GAAP) Depreciation & Amortization Change in Working Capital Deferred Taxation Charge Other Adjustments, Net Capital Expenditure Free Cash Flow % Change Share / Issue Repurchase Cost of Dividends Paid Change in Debt Balance Sheet Data (Dec) (US\$ Millions) Cash & Equivalents Trade Receivables Other Current Assets Property, Plant & Equipment	(352) 138 638 11 1,755 (25) 2,164 NM 2,017 0 (2,208) 2021A 6,082 3,715 2,589 157	1,893 81 319 (1) 1,138 (25) 3,405 57.4% 88 0 0	5,578 38 236 (2,759) 1,127 (38) 4,182 22.8% 145 0 0 2023E 8,193 6,024 3,362 185	2,721 42 302 0 1,413 (38) 4,440 6.2% 290 0 0 2024E 10,762 6,747 3,391 185	3,10 4 33 1,52 (44 4,96 11.99 29 2025 13,55 7,56 3,47 18
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Net Income from Cont Operations (GAAP) Depreciation & Amortization Change in Working Capital Deferred Taxation Charge Other Adjustments, Net Capital Expenditure Free Cash Flow % Change Share / Issue Repurchase Cost of Dividends Paid Change in Debt Balance Sheet Data (Dec) (US\$ Millions) Cash & Equivalents Trade Receivables Other Current Assets Property, Plant & Equipment Other Non-Current Assets Total Assets Short-Term Debt	(352) 138 638 11 1,755 (25) 2,164 NM 2,017 0 (2,208) 2021A 6,082 3,715 2,589 157 1,166 13,708 0	1,893 81 319 (1) 1,138 (25) 3,405 57.4% 88 0 0 0 2022A 7,378 4,783 2,700 121 1,056 16,038 0	5,578 38 236 (2,759) 1,127 (38) 4,182 22.8% 145 0 0 2023E 8,193 6,024 3,362 185 3,769 21,533 0	2,721 42 302 0 1,413 (38) 4,440 6.2% 290 0 0 2024E 10,762 6,747 3,391 185 3,769 24,855 0	3,10 4 33 1,52 (44 4,96 11.99 29 2025 13,55 7,56 3,47 18 3,76 28,55
Net Income from Cont Operations (GAAP) Depreciation & Amortization Change in Working Capital Deferred Taxation Charge Other Adjustments, Net Capital Expenditure Free Cash Flow % Change Share / Issue Repurchase Cost of Dividends Paid Change in Debt Balance Sheet Data (Dec) (US\$ Millions) Cash & Equivalents Trade Receivables Other Current Assets Property, Plant & Equipment Other Non-Current Assets Total Assets Short-Term Debt Other Current Liabilities	(352) 138 638 11 1,755 (25) 2,164 NM 2,017 0 (2,208) 2021A 6,082 3,715 2,589 157 1,166 13,708 0 6,359	1,893 81 319 (1) 1,138 (25) 3,405 57.4% 88 0 0 0 2022A 7,378 4,783 2,700 121 1,056 16,038 0 7,978	5,578 38 236 (2,759) 1,127 (38) 4,182 22.8% 145 0 0 2023E 8,193 6,024 3,362 185 3,769 21,533 0 9,529	2,721 42 302 0 1,413 (38) 4,440 6.2% 290 0 0 2024E 10,762 6,747 3,391 185 3,769 24,855 0 10,656	3,10 4 33 1,52 (44 4,96 11.99 29 2025 13,55 7,56 3,47 18 3,76 28,55
Net Income from Cont Operations (GAAP) Depreciation & Amortization Change in Working Capital Deferred Taxation Charge Other Adjustments, Net Capital Expenditure Free Cash Flow % Change Share / Issue Repurchase Cost of Dividends Paid Change in Debt Balance Sheet Data (Dec) (US\$ Millions) Cash & Equivalents Trade Receivables Other Current Assets Property, Plant & Equipment Other Non-Current Assets Total Assets Short-Term Debt Other Current Liabilities Long-Term Debt	(352) 138 638 11 1,755 (25) 2,164 NM 2,017 0 (2,208) 2021A 6,082 3,715 2,589 157 1,166 13,708 0 6,359 1,983	1,893 81 319 (1) 1,138 (25) 3,405 57.4% 88 0 0 0 2022A 7,378 4,783 2,700 121 1,056 16,038 0 7,978 1,987	5,578 38 236 (2,759) 1,127 (38) 4,182 22.8% 145 0 0 2023E 8,193 6,024 3,362 185 3,769 21,533 0 9,529 1,887	2,721 42 302 0 1,413 (38) 4,440 6.2% 290 0 0 2024E 10,762 6,747 3,391 185 3,769 24,855 0 10,656 1,887	3,10° 44 33° 1,52° (44 4,96° 11.99° 290 13,55° 7,56° 3,47° 18 3,76° 28,550° 11,97° 1,88
Net Income from Cont Operations (GAAP) Depreciation & Amortization Change in Working Capital Deferred Taxation Charge Other Adjustments, Net Capital Expenditure Free Cash Flow % Change Share / Issue Repurchase Cost of Dividends Paid Change in Debt Balance Sheet Data (Dec) (US\$ Millions) Cash & Equivalents Trade Receivables Other Current Assets Property, Plant & Equipment Other Non-Current Assets Short-Term Debt Other Current Liabilities Long-Term Debt Other Non-Current Liabilities	(352) 138 638 11 1,755 (25) 2,164 NM 2,017 0 (2,208) 2021A 6,082 3,715 2,589 157 1,166 13,708 0 6,359 1,983 218	1,893 81 319 (1) 1,138 (25) 3,405 57.4% 88 0 0 0 2022A 7,378 4,783 2,700 121 1,056 16,038 0 7,978 1,987 218	5,578 38 236 (2,759) 1,127 (38) 4,182 22.8% 145 0 0 2023E 8,193 6,024 3,362 185 3,769 21,533 0 9,529 1,887 240	2,721 42 302 0 1,413 (38) 4,440 6.2% 290 0 0 2024E 10,762 6,747 3,391 185 3,769 24,855 0 10,656 1,887 240	3,10° 44 33° 1,52° (44 4,96° 11.99° 290° 13,55° 7,56° 3,47° 18 3,76° 28,550° 11,97° 1,88° 24°
Net Income from Cont Operations (GAAP) Depreciation & Amortization Change in Working Capital Deferred Taxation Charge Other Adjustments, Net Capital Expenditure Free Cash Flow % Change Share / Issue Repurchase Cost of Dividends Paid Change in Debt Balance Sheet Data (Dec) (US\$ Millions) Cash & Equivalents Trade Receivables Other Current Assets Property, Plant & Equipment Other Non-Current Assets Short-Term Debt Other Current Liabilities Long-Term Debt Other Non-Current Liabilities Total Liabilities	(352) 138 638 11 1,755 (25) 2,164 NM 2,017 0 (2,208) 2021A 6,082 3,715 2,589 157 1,166 13,708 0 6,359 1,983 218 8,933	1,893 81 319 (1) 1,138 (25) 3,405 57.4% 88 0 0 0 2022A 7,378 4,783 2,700 121 1,056 16,038 0 7,978 1,987 218 10,478	5,578 38 236 (2,759) 1,127 (38) 4,182 22.8% 145 0 0 2023E 8,193 6,024 3,362 185 3,769 21,533 0 9,529 1,887 240 11,921	2,721 42 302 0 1,413 (38) 4,440 6.2% 290 0 0 2024E 10,762 6,747 3,391 185 3,769 24,855 0 10,656 1,887 240 13,048	3,109 44 336 (1,529 (44 4,969 11.99 (6) (6) 2025 13,559 7,560 3,477 189 3,769 28,550 (11,970 1,888 244 14,364
Net Income from Cont Operations (GAAP) Depreciation & Amortization Change in Working Capital Deferred Taxation Charge Other Adjustments, Net Capital Expenditure Free Cash Flow % Change Share / Issue Repurchase Cost of Dividends Paid Change in Debt Balance Sheet Data (Dec) (US\$ Millions) Cash & Equivalents Trade Receivables Other Current Assets Property, Plant & Equipment Other Non-Current Assets Short-Term Debt Other Current Liabilities Long-Term Debt Other Non-Current Liabilities	(352) 138 638 11 1,755 (25) 2,164 NM 2,017 0 (2,208) 2021A 6,082 3,715 2,589 157 1,166 13,708 0 6,359 1,983 218	1,893 81 319 (1) 1,138 (25) 3,405 57.4% 88 0 0 0 2022A 7,378 4,783 2,700 121 1,056 16,038 0 7,978 1,987 218	5,578 38 236 (2,759) 1,127 (38) 4,182 22.8% 145 0 0 2023E 8,193 6,024 3,362 185 3,769 21,533 0 9,529 1,887 240	2,721 42 302 0 1,413 (38) 4,440 6.2% 290 0 0 2024E 10,762 6,747 3,391 185 3,769 24,855 0 10,656 1,887 240	2025 3,109 44 336 (1,528 (444 4,969 11.99 290 (6) 2025 13,559 7,560 3,477 188 3,769 28,556 (11,976 1,888 244 14,366 14,18

Company Sector

Internet/e-Commerce

Company Description

Airbnb is a two sided online marketplace for accommodations, boutique hotels, activities and experiences. Airbnb is available in close to 100k cities spanning 220 Countries. There are over 4 million hosts, of which 85% are outside of the U.S., generating close to 6mn active listings. Airbnb is headquartered in San Francisco, CA and has close to 5,000 employees.

Investment Rationale

Airbnb is well positioned within alternative accommodations given: 1) established host base with 4mn hosts on the platform (90% individual hosts), 2) enhanced travel experience offered by alternative accommodations (AA), 3) established brand with 90% of traffic direct to Airbnb, and 4) opportunity for higher take rates and new services on the platform. Our Neutral rating reflects premium valuation with strong long-term growth discounted in the stock.

Stock Data

Average Daily Volume 4,567,183

Quarterly Earnings Estimates

	2022	2023
Q1	0.23A	0.43A
Q2	0.82A	1.15A
Q3	1.73A	2.32A
04	0.69A	0.94E



Price objective basis & risk

Airbnb (ABNB)

Our \$155 price objective is based on 20x 2025E EBITDA (representing 7x 2025E revenue). This multiple is at the higher end of our Marketplace comp group range reflecting still early alternative accommodation market penetration, category leadership, and significantly higher margins and FCF generation than most peers.

Risks are: 1) multiple compression given high relative valuation, 2) potential for increased competition from direct competitors driving up marketing spend, 3) growth or margin improvement below expectations on declining ADRs, and 4) slowing growth as post-pandemic travel surge stalls.

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.

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
	Expedia	EXPE	EXPE US	Justin Post
	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
	Instacart	CART	CART US	Justin Post
	Magnite, Inc.	MGNI	MGNI US	Omar Dessouky, CFA



US - Internet Coverage Cluster

Snap Take-Two Interactive Zillow Zillow UNDERPERFORM			l Analyst
Zillow Zillow UNDERPERFORM	SNAP	SNAP US	Justin Post
Zillow UNDERPERFORM	TTWO	TTWO US	Omar Dessouky, CFA
UNDERPERFORM	ZG	ZG US	Curtis Nagle, CFA
	Z	Z US	Curtis Nagle, CFA
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

*IQ*method[™] Measures Definitions

Business Performance	Numerator	Denominator
Return On Capital Employed	NOPAT = (EBIT + Interest Income) × (1 - Tax Rate) + Goodwill Amortization	Total Assets – Current Liabilities + ST Debt + Accumulated Goodwill
		Amortization
Return On Equity	Net Income	Shareholders' Equity
Operating Margin	Operating Profit	Sales
Earnings Growth	Expected 5 Year CAGR From Latest Actual	N/A
Free Cash Flow	Cash Flow From Operations — Total Capex	N/A
Quality of Earnings	Numerator	Denominator
Cash Realization Ratio	Cash Flow From Operations	Net Income
Asset Replacement Ratio	Capex	Depreciation
Tax Rate	Tax Charge	Pre-Tax Income
Net Debt-To-Equity Ratio	Net Debt = Total Debt - Cash & Equivalents	Total Equity
Interest Cover	EBIT	Interest Expense
Valuation Toolkit	Numerator	Denominator
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

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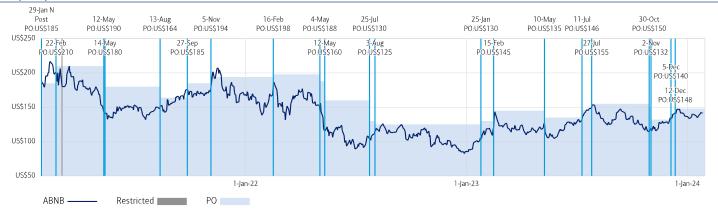
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Airbnb (ABNB) Price Chart



B: Buy, N: Neutral, U: Underperform, PO: Price Objective, NA: No longer valid, NR: No Rating

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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%

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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%	≤ /0%
Neutral	≥ 0%	≤ 30%
Underperform	N/A	≥ 20%

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