

Roblox Corp. Class A

4Q23 Preview: my baby's all grown up! RBLX to initiate guidance, reduce volatility

Reiterate Rating: BUY | PO: 54.00 USD | Price: 39.33 USD

New guidance to dampen volatility, broaden participation

RBLX plans to initiate quarterly and full year guidance on 7 February for the first time, a very positive development. In the past, many investors pointed to high-post print stock price volatility as a deterrent to RBLX's invest-ability; we think the initiation of guidance will broaden participation and reduce reliance on (frequently inaccurate) 3P data vendors to set quarterly expectations. EBITDA margin guidance should give investors a benchmark against which measure progress towards a highly profitable end state, and management can establish credibility for its LT growth outlook (>20% Y/Y CY25, CY26, CY27) by guiding the quarters accurately or conservatively. We reiterate our Buy Rating.

Street too low on CY24; we trim model, await guidance

At Investor Day on 15 Nov 2023, indications that management was "comfortable with CY24 the Factset Bookings consensus of \$4.03bn" were likely mistaken by many to imply Y/Y a deceleration in CY24. As a result, almost all Street estimates on Factset are now below +20% Y/Y and Consensus is +17% Y/Y. We think most of buyside is above consensus, but below 20%. We are more bullish on the core gaming business and expect guidance +20% Y/Y. We model CY24 & 1Q24 a tad lower than our old estimates (which are Street high and not updated since March '23) as we await guidance but expect some upward bias to our model as 2024 unfolds. We expect advertising to play an insignificant role in 2024; our bullish growth forecast for the core business is based on continuous improvements in the tech platform, strong adoption trends, and supply side tailwinds driven by a reshuffling of talent from the Video Game industry (see Newzoo expert call).

Q4 comps favorable; 1Q24 guide to focus cost leverage

We model +20% Y/Y Bookings in Q4. Management began calling out Japan growth in Feb '23, referring to a Y/Y 2X of hours & DAUs through Jan '23. Post 3Q23 results, management was confident that several bullish trends would continue: (1) local content was improving, (2) search & discovery, a key driver of strong 3Q performance would continue improving, (3) monetization ex-US was trending upwards. For 1Q24, we expect investors to focus on commentary that revenues will outgrow headcount costs starting 1Q24, and its implications for CY24 and beyond EBITDA margins.

Reiterate Buy & PO, out-grower deserves higher multiple

Our \$54 PO is based on a DCF that assumes a 22x terminal FCF multiple. The current stock price implies a 5-6x EV/CY25 Sales multiple. We believe RBLX deserves a premium valuation because it continues to outgrow social media peers (see report).

Estimates (Dec) (US\$)	2021A	2022A	2023E	2024E	2025E
EPS	(0.88)	(1.57)	(2.00)	(2.06)	(1.94)
EPS Change (YoY)	37.6%	-78.4%	-27.4%	-3.0%	5.8%
Consensus EPS (Bloomberg)			(1.88)	(1.44)	(1.21)
DPS	0	0	0	0	0
Valuation (Dec)					
EV / EBITDA*	42.5x	80.4x	77.5x	51.3x	35.6x
Free Cash Flow Yield*	2.1%	-0.2%	0.6%	1.7%	2.7%
* For full definitions of <i>IO</i> method SM measures, see page 8.					

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Refer to important disclosures on page 9 to 11. Analyst Certification on page 7. Price
Objective Basis/Risk on page 7.

Timestamp: 01 February 2024 06:45PM EST

01 February 2024

Equity

Key Changes		
(US\$)	Previous	Current
2024E Rev (m)	4,248.2	4,179.5
2025E Rev (m)	5,140.3	5,057.2
2024E EPS	-2.02	-2.06
2025E EPS	-1.99	-1.94

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Stock Data

Price	39.33 USD
Price Objective	54.00 USD
Date Established	10-Aug-2022
Investment Opinion	C-1-9
52-Week Range	24.88 USD - 47.65 USD
Mrkt Val (mn) / Shares Out	26,508 USD / 674.0
(mn)	
Free Float	85.7%
Average Daily Value (mn)	258.37 USD
BofA Ticker / Exchange	RBLX / NYS
Bloomberg / Reuters	RBLX US / RBLX.N
ROE (2023E)	-984.1%
Net Dbt to Eqty (Dec-2022A)	-976.1%
ESGMeter™	Medium

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

iQprofile[™] Roblox Corp. Class A

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<i>iQ</i> method [™] – Bus Performance*					
(US\$ Millions)	2021A	2022A	2023E	2024E	2025E
Return on Capital Employed	29.2%	7.2%	6.9%	11.9%	23.2%
Return on Equity	-315.3%	-210.1%	-984.1%	NM	NM
Operating Margin	17.9%	7.4%	4.2%	8.2%	11.6%
Free Cash Flow	566	(57)	164	440	704
iQmethod [™] – Quality of Earnings*					
(US\$ Millions)	2021A	2022A	2023E	2024E	2025E
Cash Realization Ratio	NM	NM	NM	NM	NM
Asset Replacement Ratio	1.2x	3.3x	1.6x	0.8x	1.1x
Tax Rate	0.1%	NM	0.3%	1.0%	1.0%
Net Debt-to-Equity Ratio	-506.7%	-976.1%	NM	NM	NM
Interest Cover	NM	NM	NA	NA	NA
Income Statement Data (Dec)					
(US\$ Millions)	2021A	2022A	2023E	2024E	2025E
Sales	2,726	2,872	3,474	4,180	5,057
% Change	44.8%	5.4%	20.9%	20.3%	21.0%
Gross Profit	1,525	1,599	1,948	2,299	2,792
% Change	40.6%	4.8%	21.8%	18.1%	21.4%
EBITDA	674	356	370	558	805
% Change	12.3%	-47.1%	3.8%	50.9%	44.2%
Net Interest & Other Income	(9)	(7)	72	6	6
Net Income (Adjusted) % Change	(524) -103.9%	(935) -78.4%	(1,233) -31.8%	(1,324) -7.4%	(1,309) 1.1%
Free Cash Flow Data (Dec)					
(US\$ Millions)	2021A	2022A	2023E	2024E	2025E
Net Income from Cont Operations (GAAP)	(503)	(934)	(1,236)	(1,322)	(1,312)
Depreciation & Amortization	76 700	130 513	203 661	216 799	221 1,017
Change in Working Capital Deferred Taxation Charge	NA	NA NA	NA	NA	1,017 NA
Other Adjustments, Net	387	660	867	914	1,031
Capital Expenditure	(93)	(426)	(331)	(167)	(253)
Free Cash Flow	566	-57	164	440	704
% Change	42.2%	NM	NM	168.2%	60.0%
Share / Issue Repurchase	610	46	42	0	0
Cost of Dividends Paid	0	0	0	0	0
Change in Debt	990	0	6	0	0
Balance Sheet Data (Dec)					
(US\$ Millions)	2021A	2022A	2023E	2024E	2025E
Cash & Equivalents	3,004	2,977	685	1,125	1,829
Trade Receivables	307	379	340	412	513
Other Current Assets	438	482	2,167	2,314	2,521
Property, Plant & Equipment	271	592	741	714	768
Other Non-Current Assets	539	945	2,076	2,079	2,079
Total Assets	4,561	5,375	6,009	6,644	7,709
Short-Term Debt	0	0	0	0	0
Other Current Liabilities	2,167	2,481	3,224	4,245	5,569
Long-Term Debt Other Non-Current Liabilities	0 1,801	0 2,590	0 2,839	0 2,839	2,839
Total Liabilities	3,968	2,590 5,070	6,063	2,839 7,084	2,839 8,408
	3,968 593	305	(54)	(440)	(699)
Total Foulty				144411	いしつづり
Total Equity Total Equity & Liabilities	4,561	5,375	6,009	6,644	7,709

Company Sector

PC Software

Company Description

Roblox is one of the largest, fastest-growing platforms for co-experiences across console, PC, and mobile. The consumer app enables users to communicate or explore a growing catalog of >20mn experiences. The Studio includes an editor and cloud services for any user to build content without any coding knowledge. All content on the RBLX platform is user-generated and RBLX generates revenue through the sale of virtual currency. RBLX is headquartered in San Mateo, California with 1600 employees.

Investment Rationale

RBLX is the "Metaverse" category leader. We see an extended runway for mid-20% growth as users worldwide adopt Roblox's Metaverse, in a virtuous cycle that will draw developers, brands, and merchants to the platform. Roblox is not saddled with legacy media businesses that require transition to a Metaverse, and can thus allocate 100% of its resources toward maintaining Metaverse product leadership. Rapid productization of innovations could result in consistent upside to growth estimates.

Stock Data

Average Daily Volume

6,569,389

Quarterly Earnings Estimates

	2022	2023
Q1	-0.28A	-0.44A
Q2	-0.30A	-0.46A
Q3	-0.51A	-0.45A
04	-0.48A	-0.64F

BofA Financial Forecasts vs Street

Exhibit 1: BofA Forecasts vs Street

We slightly trim FY24 forecasts, now assuming +20% Y/Y topline growth and +270bps EBITDA margin expansion

	2022	23Q1	23Q2	23Q3E	23Q4E	2023E	2024E	2025E
Bookings								
B of A (After)	2,872	774	781	839	1,080	3,474	4,180	5,057
B of A (Before)					1,080	3,474	4,248	5,140
STREET					1,077	3,470	4,073	4,810
Delta vs. STREET					0.3%	0.1%	2.6%	5.1%
Bookings YoY Growth %								
B of A (After)	5.4%	22.6%	22.0%	19.6%	20.0%	20.9%	20.3%	21.0%
B of A (Before)					20.0%	20.9%	22.3%	21.0%
STREET					19.7%	20.8%	17.4%	18.1%
Delta vs. STREET					0.3%	0.1%	3.0%	2.9%
EBITDA Non-GAAP								
B of A (After)	356	53	38	81	198	370	558	805
B of A (Before)					204	376	646	1,003
STREET					188	358	521	742
Delta vs. STREET					5.2%	3.5%	7.2%	8.5%
EBITDA Margin %								
B of A (After)	12.4%	6.9%	4.9%	9.7%	18.3%	10.7%	13.4%	15.9%
B of A (Before)					18.9%	10.8%	15.2%	19.5%
STREET					17.5%	10.3%	12.8%	15.4%
Delta vs. STREET					0.9%	0.3%	0.6%	0.5%

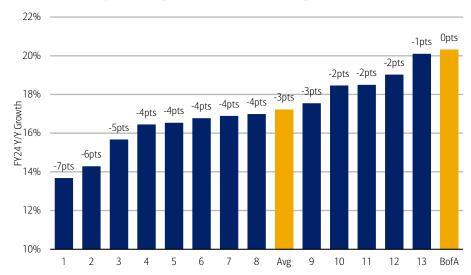
Source: BofA Global Research estimates, Company Reports

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Exhibit 2: FY24 Bookings Y/Y Growth Forecasts & Implied Deceleration in 14 Sell-side Analyst Models

Almost all sell-side analysts model a growth deceleration (-3pts average) in FY24 except BofA



Source: FactSet, BofA Global Research estimates

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Exhibit 3: Roblox DCF ValuationWe value Roblox at \$54/share based on 9% equity cost of capital and 22x terminal FCF multiple

Share Price Objective	\$54	le	Equity Cost					Cash Flow Multiple				
Net Cash/Diluted Share	\$3		of Capital	9 %		<u>\$5</u>	<u>4</u> 18x	20x	22x	24x	26x	28x
						Ī	i					
Total DCF value/share	\$51	1	Terminal FCF	22x		ပ 6%	\$52	\$57	\$61	\$66	\$70	\$75
Cumulative cash flow	\$8	N	Multiple			N ACC 80	6 \$49	\$54	\$58	\$62	\$66	\$70
Terminal Value/Share	\$42	_				≥ 80	6 \$47	\$51	\$55	\$58	\$62	\$66
Fully Diluted Shares Outs.	711					99	6 \$44	\$48	\$51	\$55	\$59	\$63
Market Value	\$38,135					109	6 \$42	\$45	\$49	\$52	\$56	\$59
Enterprise Value	\$36,008					119	6 \$40	\$43	\$46	\$49	\$53	\$56
(\$mns, except per share)	FY2020A	FY2021	FY2022	FY2023E	FY2024E	FY2025	E FY2026E	FY2027E	FY2028E	FY2029E	FY2030E	TV
Bookings	\$1,883	\$2,726	\$2,872	\$3,474	\$4,180	\$5,05	7 \$6,119	\$7,404	\$8,811	\$10,309	\$11,855	
% Y/Y	171%	45%	5%	21%	20%	219			19%	17%	15%	
Adj. EBITDA	\$601	\$674	\$356	\$370	\$558	\$80	. , .	. ,	. ,	\$2,516	\$3,012	
% EBITDA Margin	31.9%	24.7%	12.4%	10.7%	13.4%	15.99			23.4%	24.4%	25.4%	
Interest expense	\$2	(\$7)	(\$1)	\$98	\$105	\$8			\$60	\$70	\$80	
Taxes	(\$7)	(\$0)	\$4	(\$4)	(\$12)	(\$12	2) (\$12)	(\$10)	(\$15)	(\$18)	(\$24)	
CapEx	(\$127)	(\$93)	(\$426)	(\$331)	(\$167)	(\$25)		, ,	(\$485)	(\$515)	(\$533)	
Change in Working Capital	(\$79)	\$53	(\$47)	\$29	\$30	\$13			\$31	(\$15)	(\$17)	
Free Cash Flow	\$402	\$627	(\$122)	\$169	\$538	\$78		. ,	. ,	\$2,074	\$2,565	
Shares Outstanding	-	586	610	639	665	69			801	833	867	
Free Cash Flow/Share		\$1.07	(\$0.20)	\$0.26	\$0.81	\$1.1	2 \$1.20	\$1.63	\$2.10	\$2.49		\$3.37
Discounted FCF/Share					\$0.74	\$0.9	5 \$0.93	\$1.18	\$1.39	\$1.52	\$1.66	
Capex as % of revenue		-3.4%	-14.8%	-9.5%	-4.0%	-5.0 ^c	6.5%		-5.5%	-5.0%	-4.5%	-4.0%
D&A	2.8%	2.8%	4.5%	5.8%	5.2%	4.40			5.4%	5.9%	4.5%	4.5%
Working Capital as % of Sales	-4.2%	2.0%	-1.7%	0.8%	0.7%	2.6°	6 0.9%	0.9%	0.4%	-0.1%	-0.1%	-0.1%

Source: BofA Global Research estimates BofA GLOBAL RESEARCH



Exhibit 4: Comparable Company Analysis - Interactive Media Technology Ecosystems

Our comparator set includes mature & high growth Interactive Media Tech platforms

				EV/Sale	es	Sales	ΕV	//EBITD	Α	EBITDA	EBI	ГDA Ма	rgin	EV/F	CF Mul	tiple
		2/1/24	(Consens	us)	CAGR	С	onsensu	S	CAGR	C	ัดทรeทรเ	IS	(C	onsensu	s)
Company	Ticker	Price	2023E	2024E	2025E	CY23-CY25	2023E	2024E	2025E	CY23-CY25	2023E	2024E	2025E	2023E	2024E	2025E
Roblox Corp.	RBLX US	\$39.33	7.6x	6.5x	5.5x	18%	74.1x	50.9x	35.7x	44%	10%	13%	15%	232.5x	60.5x	41.5x
Ecosystems - H	ligh Growth	Phase														
Shopify	SHOP US	\$76.72	19.0x	15.9x	13.2x	20%	165.5x	95.4x	68.7x	55%	11%	17%	19%	158.6x	107.2x	80.3x
Unity Software	U US	\$31.97	7.1x	6.5x	5.6x	13%	40.1x	23.9x	18.0x	49%	18%	27%	31%	76.6x	34.5x	22.0x
Snap	SNAP US	\$15.87	6.2x	5.4x	4.6x	15%	251.6x	88.3x	37.5x	159%	2%	6%	12%	NA	137.8x	47.1x
WeMade	112040 KS	₩ 51,100	2.7x	1.6x	1.4x	37%	NA	19.7x	8.3x	NA	(11%)	8%	17%	31.9x	12.7x	9.6x
Com2us	078340 KS	₩ 47,300	1.4x	1.2x	1.2x	9%	197.4x	22.1x	15.3x	259%	1%	6%	8%	87.7x	121.7x	50.3x
Median			6.2x	5.4x	4.6x	15%	181.5x	23.9x	18.0x	107%	2%	8%	17%	82.1x	107.2x	47.1x
Average			7.3x	6.1x	5.2x	19%	163.7x	49.9x	29.6x	131%	4%	13%	18%	88.7x	82.8x	41.9x
Index			12.1x	10.2x	8.7x	18%	143.0x	72.9x	47.8x	73%	8%	14%	18%	168.9x	89.7x	57.7x
Ecosystems - N	<u> Mature</u>															
NVIDIA	NVDA US	\$630.27	26.0x	16.0x	13.4x	39%	41.8x	24.9x	21.4x	40%	62%	64%	62%	58.8x	34.1x	29.6x
Adobe	ADBE US	\$627.91	14.4x	13.1x	11.7x	11%	28.6x	26.3x	23.7x	10%	50%	50%	49%	40.4x	31.7x	28.1x
Microsoft	MSFT US	\$403.78	12.2x	10.7x	9.4x	14%	23.2x	20.3x	17.5x	15%	53%	53%	54%	50.2x	44.9x	36.7x
Apple	AAPL US	\$186.86	7.4x	7.1x	6.7x	5%	22.5x	21.2x	20.0x	6%	33%	34%	34%	28.5x	26.6x	24.7x
Meta Platforms	META US	\$394.78	7.7x	6.8x	6.1x	12%	13.8x	12.1x	10.8x	13%	55%	56%	56%	25.3x	23.9x	21.8x
Alphabet	GOOGL US	\$141.16	5.6x	5.0x	4.5x	11%	14.3x	12.3x	10.9x	14%	39%	41%	42%	24.8x	20.8x	18.3x
Nintendo	7974 JP	¥8,310.00	4.7x	4.8x	4.3x	4%	13.9x	16.6x	15.8x	(6%)	34%	29%	28%	17.5x	23.1x	21.5x
Median			7.7x	7.1x	6.7x	11%	22.5x	20.3x	17.5x	13%	50%	50%	49%	28.5x	26.6x	24.7x
Average			11.1x	9.1x	8.0x	14%	22.6x	19.1x	17.2x	13%	47%	47%	46%	35.1x	29.3x	25.8x
Index			9.0x	8.0x	7.3x	11%	20.9x	18.0x	16.0x	14%	43%	45%	45%	34.2x	29.4x	26.0x

Source: Visible Alpha, Factset, Bloomberg

BofA GLOBAL RESEARCH

Price objective basis & risk

Roblox Corp. Class A (RBLX)

Our \$54 PO is based on a DCF that assumes a 22x FCF terminal value multiple in 2030, in line with mature tech platforms.

Downside risks to our PO are inability to develop high production value content to appeal to a broader demographic, and an inability to continually improve the developer value proposition, thereby stagnating its developer base.

Analyst Certification

I, Omar Dessouky, CFA, hereby certify that the views expressed in this research report accurately reflect my personal views about the subject securities and issuers. I also certify that no part of my compensation was, is, or will be, directly or indirectly, related to the specific recommendations or view expressed in this research report.

US - Internet Coverage Cluster

Investment rating	Company	BofA Ticker	Bloomberg symbol	Analyst
BUY				
	Alphabet	GOOGL	GOOGL US	Justin Post
	Alphabet	GOOG	GOOG US	Justin Post
	Amazon.com	AMZN	AMZN US	Justin Post
	AppLovin	APP	APP US	Omar Dessouky, CFA
	DoorDash	DASH	DASH US	Michael McGovern
	DoubleVerify Holdings, Inc.	DV	DV US	Omar Dessouky, CFA
	Electronic Arts	EA	EA US	Omar Dessouky, CFA
	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	RHUS	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
	William	****	······································	Wildrig Wedovern
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
	Snap	SNAP	SNAP US	Justin Post
	Take-Two Interactive	TTWO	TTWO US	Omar Dessouky, CFA
	Zillow	ZG	ZG US	Curtis Nagle, CFA
	Zillow	Z	Z US	Curtis Nagle, CFA
UNDERPERFORM				
	Chewy Inc	CHWY	CHWY US	Curtis Nagle, CFA
	Lyft, Inc.	LYFT	LYFT US	Michael McGovern
	Opendoor Technologies	OPEN	OPEN US	Curtis Nagle, CFA
	Peloton	PTON	PTON US	Curtis Nagle, CFA
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US - Internet Coverage Cluster

Investment rating	Company	BofA Ticker	Bloomberg symbol	Analyst
	Playtika	PLTK	PLTK US	Omar Dessouky, CFA
	Redfin Corp	RDFN	RDFN US	Curtis Nagle, CFA
	Shutterstock	SSTK	SSTK US	Curtis Nagle, CFA

*Q*method[™] 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

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Roblox Corp. Class A (RBLX) 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%

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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}

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

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