

# DoubleVerify Holdings, Inc.

# Brand Safety & Suitability on Feeds & Reels sets up beat/raise cycle in CY24

Maintain Rating: BUY | PO: 47.00 USD | Price: 38.38 USD

# Size of Feeds & Reels opportunity likely underappreciated

We maintain our Buy rating on DV, upon which we <u>launched coverage (see note)</u> on 11 January 2024. Yesterday, DV became the first of a short list of vendors to enable advertisers to measure brand safety on Feeds and Reels in both Facebook and Instagram. Advertisers can now independently authenticate the user-generated media that surrounds their advertisements, helping them protect their brand equity. This development is significant because (1) over half of ad spend on Facebook & Instagram is deployed on Feeds and (2) BofA forecasts Reels spend to grow from <u>\$11bn in 2023 to</u> \$27bn in 2025 (57% CAGR) (see note).

# General availability announced sooner than expected

Prior to today's announcement, DV management had indicated general availability ("GA") by early 2024. The sooner than expected announcement allows management to give substantive feedback on adoption trends while maintaining conservative guidance on the 23Q4 results call (likely in early March). This setup suggests a beat-raise cycle in CY24, which should support DV's valuation given Consensus implies 23% CAGR (CY23E-CY25E). We maintain our estimates but note this announcement raises our level of confidence.

# Meta revenues could double in CY24, pushing above Street

We estimate that measurement on Meta accounts 7%-9% of consolidated revenues. Management believes that 50% of DV's top 100 customers have been waiting for brand safety & suitability to launch before adopting DV's existing offerings: viewability and fraud detection. Precedent is supportive: ~95% of DV's clients use its measurement on YouTube, where DV had greater brand safety and suitability coverage for many years. Brand safety & suitability is what advertisers really want on Facebook & Instagram.

# Brand safety is what advertisers really want on Facebook

Management believes that brand safety has now become as important to advertisers as actual ad performance. Unviewable ads and fraudulent traffic, while wasteful, do not have the potential to destroy the brand equity that global brands have spent many years (and billions of dollars) cultivating. Two thirds of consumers said they would stop using a brand that advertises next to false, objectionable or inflammatory content (Harris Poll study). We think this will be a compelling offering in '24, especially because an election year has the potential to generate more polarizing UGC than a typical year.

| Estimates (Dec) (US\$)  | 2021A  | 2022A  | 2023E  | 2024E | 2025E |
|---|--------|--------|--------|-------|-------|
| EPS   | 0.51   | 0.54   | 0.71   | 0.88  | 1.16  |
| GAAP EPS  | 0.18   | 0.25   | 0.36   | 0.42  | 0.63  |
| EPS Change (YoY)  | 54.5%  | 5.9%   | 31.5%  | 23.9% | 31.8% |
| Consensus EPS (Bloomberg)   |        |        | 0.53   | 0.66  | 0.85  |
| DPS   | 0      | 0      | 0      | 0     | 0     |
| Valuation (Dec)   |        |        |        |       |       |
| P/E   | 75.3x  | 71.1x  | 54.1x  | 43.6x | 33.1x |
| GAAP P/E  | 213.2x | 153.5x | 106.6x | 91.4x | 60.9x |
| EV / EBITDA*  | 57.7x  | 44.7x  | 35.0x  | 28.6x | 22.2x |
| Free Cash Flow Yield*   | 1.1%   | 0.8%   | 1.2%   | 2.0%  | 2.7%  |
| * For full definitions of <i>IQ</i> method <sup>SM</sup> measures, see page | e 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: 18 January 2024 06:58AM EST

#### 18 January 2024

#### Equity

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Arthur Chu, CFA Research Analyst BofAS arthur.chu@bofa.com

#### **Stock Data**

Price Objective 47.00 USD Date Established 11-Jan-2024 Investment Opinion C - 1 - 952-Week Range 22.75 USD - 42.51 USD Mrkt Val (mn) / Shares Out 6,524 USD / 170.0 (mn) 81.0% Average Daily Value (mn) 48.86 USD BofA Ticker / Exchange DV / NYS Bloomberg / Reuters DV US / DV.N ROE (2023E) 12.8% Net Dbt to Eqty (Dec-2022A) -30.5% ESGMeter™ Medium

38.38 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".

CAGR: Compound Annual Growth Rate

UGC: User generated content

# **iQ**profile<sup>™</sup> DoubleVerify Holdings, Inc.

|   |            |              | <i>,</i>       |                |                |
|---|------------|--------------|----------------|----------------|----------------|
| i <b>Q</b> method <sup>SM</sup> − <b>Bus Performance*</b>   |            |              |                |                |                |
| (US\$ Millions)   | 2021A      | 2022A        | 2023E          | 2024E          | 2025E          |
| Return on Capital Employed                                  | 10.9%      | 8.7%         | 9.7%           | 11.0%          | 12.9%          |
| Return on Equity  | 13.5%      | 10.9%        | 12.8%          | 13.6%          | 15.5%          |
| Operating Margin  | 23.9%      | 23.7%        | 24.6%          | 24.9%          | 27.3%          |
| Free Cash Flow  | 73         | 55           | 79             | 132            | 174            |
| <i>iQ</i> method <sup>™</sup> – <b>Quality of Earnings*</b> |            |              |                |                |                |
| (US\$ Millions)   | 2021A      | 2022A        | 2023E          | 2024E          | 2025E          |
| Cash Realization Ratio                                      | 1.0x       | 1.0x         | 0.8x           | 1.0x           | 1.0x           |
| Asset Replacement Ratio                                     | 0.3x       | 1.2x         | 0.4x           | 0.7x           | 0.8x           |
| Tax Rate  | NM         | 27.1%        | 27.6%          | 25.0%          | 25.0%          |
| Net Debt-to-Equity Ratio                                    | -27.7%     | -30.5%       | -26.8%         | -34.0%         | -41.1%         |
| Interest Cover  | NM         | NM           | NM             | NA             | NA             |
| Income Statement Data (Dec)                                 |            |              |                |                |                |
| (US\$ Millions)   | 2021A      | 2022A        | 2023E          | 2024E          | 2025E          |
| Sales   | 333        | 452          | 572            | 717            | 881            |
| % Change  | 36.4%      | 36.0%        | 26.5%          | 25.2%          | 23.0%          |
| Gross Profit  | 278        | 375          | 463            | 576            | 705            |
| % Change  | 33.7%      | 34.6%        | 23.6%          | 24.4%          | 22.4%          |
| EBITDA  | 110        | 142          | 181            | 221            | 285            |
| % Change  | 50.0%      | 29.0%        | 27.8%          | 22.4%          | 28.8%          |
| Net Interest & Other Income                                 | (1)        | 0            | 6              | 0              | 0              |
| Net Income (Adjusted)                                       | 82         | 92           | 123            | 154            | 204            |
| % Change  | 72.2%      | 11.5%        | 35.0%          | 24.4%          | 32.7%          |
| Free Cash Flow Data (Dec)                                   |            |              |                |                |                |
| (US\$ Millions)   | 2021A      | 2022A        | 2023E          | 2024E          | 2025E          |
| Net Income from Cont Operations (GAAP)                      | 29         | 43           | 62             | 74             | 110            |
| Depreciation & Amortization                                 | 30         | 34           | 40             | 43             | 45             |
| Change in Working Capital                                   | (13)       | (21)         | (60)           | (47)           | (51)           |
| Deferred Taxation Charge                                    | (8)        | (20)         | (20)           | 0              | 0              |
| Other Adjustments, Net                                      | 44         | 58           | 75             | 90             | 105            |
| Capital Expenditure   | (9)        | (40)         | (17)           | (29)           | (35)           |
| Free Cash Flow  | 73         | 55           | 79             | 132            | 174            |
| % Change  | 539.8%     | -25.2%       | 43.6%          | 67.0%          | 31.9%          |
| Share / Issue Repurchase                                    | NA         | NA           | NA             | NA             | NA             |
| Cost of Dividends Paid                                      | 0          | 0            | 0              | 0              | 0              |
| Change in Debt  | (22)       | 0            | 0              | 0              | 0              |
| Balance Sheet Data (Dec)                                    |            |              |                |                |                |
| (US\$ Millions)   | 2021A      | 2022A        | 2023E          | 2024E          | 2025E          |
| Cash & Equivalents  | 222        | 268          | 282            | 412            | 583            |
| Trade Receivables   | 123        | 167          | 215            | 271            | 335            |
| Other Current Assets  | 23         | 10           | 24             | 30             | 34             |
| Property, Plant & Equipment                                 | 18         | 47           | 58             | 71             | 88             |
| Other Non-Current Assets                                    | 507        | 545          | 641            | 607            | 575            |
| Total Assets  | 892        | 1,037        | 1,220          | 1,391          | 1,615          |
| Short-Term Debt   | 0          | 0            | 0              | 0              | 0              |
| Other Current Liabilities                                   | 57         | 69           | 78             | 93             | 110            |
| Long-Term Debt  | 0          | 0            | 0              | 0              | 0              |
| Other Non-Current Liabilities                               | 36         | 91           | 89             | 87             | 85             |
| Total Liabilities   | 93         | 160          | 167            | 180            | 195            |
|   |            |              |                |                |                |
| Total Equity Total Equity & Liabilities                     | 799<br>892 | 877<br>1,037 | 1,053<br>1,220 | 1,211<br>1,391 | 1,420<br>1,615 |

**Company Sector** 

PC Software

### **Company Description**

DV is a software platform for digital media measurement. Through its metrics, it helps preserve the fair value exchange between buyers & sellers of digital media. Its proprietary DV Authentic Ad metric measures whether a digital ad is displayed in a fraud-free, brand-suitable environment & is fully viewable in the intended geography. DV measures quality on all major platforms (e.g. Meta, Google, TikTok, open web etc.). DV also prevents DSPs from bidding on poor quality media in the first place.

#### **Investment Rationale**

DV is the emerging leader in a the digital ad verification market, which we expect to become a duopoly at maturity. It measured 5.5 trillion impressions in 2022, across platforms and devices, which is orders of magnitude greater than any individual platform. DV's scale gives it an advantage in developing new products, which it sells at premium prices, that help improve advertising performance. DV's fixed fee-per-impression pricing strategy dampens the impact of economic downturns.

| +00 | ŀ | Data |  |
|-----|---|------|--|

Average Daily Volume 1,281,357

### **Quarterly Earnings Estimates**

|    | 2022  | 2023  |
|----|-------|-------|
| Q1 | 0.10A | 0.14A |
| Q2 | 0.13A | 0.17A |
| Q3 | 0.13A | 0.17E |
| 04 | 0.17A | 0.23F |

# What are brand safety & suitability?

Digital marketers know little about whether their advertisements appear next to suitable content, whether they are viewable on a webpage, or even whether they were viewed by a real consumer.

**Brand Safety:** ensuring that a brand's ads don't appear on unsafe content, such as graphic violence, pornography, or hate speech.

**Brand Suitability:** matching your company's core values, goals and identity to the content bought.



Exhibit 2: A real life click farm ~\$84bn of ~\$380bn of annual digital ad spend is

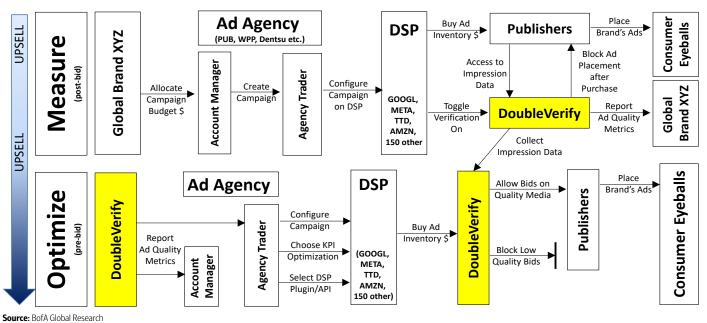


**Source:** Core77 news, Juniper Research

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#### Exhibit 3: DoubleVerify's position in the adtech stack and ad campaign workflow

DV's measurement products block ads that have already been purchased by the advertiser's DSP and report media quality directly brands; DV's Activation products prevent the purchase of poor quality media from happening in the first place; Activation leverages data collected by DV's measurement technologies



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# Social measurement: 34% 2y CAGR

# Exhibit 4: DV Revenue Growth Forecast, 2y & 5y, BofA

We estimate that Facebook and Instagram revenues were 7-9% of LTM consolidated revenues

|                                    | '21A-'23E<br>CAGR | BofA '23E-<br>'25E CAGR | BofA '23E-<br>'28E CAGR | 2023E<br>Mix % |
|------------------------------------|-------------------|-------------------------|-------------------------|----------------|
| Consolidated                       | 31%               | 24%                     | 21%                     | 100%           |
|                                    |                   |                         |                         | _              |
| Measurement (reported)             | 21%               | 22%                     | 18%                     | 35%            |
| of which Social (BofA Est.)        | 35%               | 34%                     | 24%                     | 14%            |
| of which Open Web, CTV (BofA Est.) | 12%               | 15%                     | 13%                     | 20%            |
| Activation (reported)              | 40%               | 27%                     | 24%                     | 57%            |
| of which ABS (BofA Est.)           | 43%               | 29%                     | 27%                     | 30%            |
| of which Other (BofA Est.)         | 37%               | 25%                     | 21%                     | 27%            |
| Supply Side (reported)             | 24%               | 11%                     | 10%                     | 8%             |

Source: BofA Global Research estimates, Company Reports

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# **BofA Financial Model**

### Exhibit 5: BofA vs Street Forecasts, FY22 to FY28

We forecast 5-year revenue CAGR of >20%, driven by above trend growth in Measurement (18% CAGR) and hypergrowth in Activation sales (24% CAGR)

|  | 2022  | 2023E      | 2024E         | 2025E | 2026E      | 2027E | 2028E      |
|--|-------|------------|---------------|-------|------------|-------|------------|
| Total Revenue                                |       |            |               |       |            |       |            |
| B of A (Initiation)                          | 452   | 572        | 717           | 881   | 1,068      | 1,274 | 1,497      |
| STREET                                       |       | 572        | 707           | 865   | 1,042      | 1,241 | 1,449      |
| Delta vs. STREET                             |       | 0.0%       | 1.4%          | 1.9%  | 2.4%       | 2.7%  | 3.3%       |
| GUIDE  |       | 572        | -             | -     | -          | -     | -          |
| Total Revenue YoY Growth %                   |       |            |               |       |            |       |            |
| B of A (Initiation)                          | 36.0% | 26.5%      | 25.2%         | 23.0% | 21.2%      | 19.3% | 17.5%      |
| STREET                                       |       | 26.5%      | 23.5%         | 22.3% | 20.5%      | 19.0% | 16.8%      |
| Delta vs. STREET                             |       | 0.0%       | 1.7%          | 0.7%  | 0.6%       | 0.3%  | 0.7%       |
| GUIDE  |       | 26%        |               |       |            |       |            |
| Measurement (Direct) Revenue                 |       |            |               |       |            |       |            |
| B of A (Initiation)                          | 158   | 199        | 245           | 298   | 351        | 401   | 449        |
| STREET                                       |       | 198        | 238           | 284   | 314        | 346   | 375        |
| Delta vs. STREET                             |       | 0.2%       | 2.6%          | 5.0%  | 11.8%      | 15.7% | 19.7%      |
| Measurement (Direct) Revenue Y/Y Growth      |       |            |               |       |            |       |            |
| B of A (Initiation)                          | 16.5% | 25.9%      | 23.0%         | 21.8% | 17.7%      | 14.3% | 12.0%      |
| STREET                                       |       | 25.6%      | 20.2%         | 19.1% | 10.6%      | 10.4% | 8.3%       |
| Delta vs. STREET                             |       | 0.3%       | 2.8%          | 2.8%  | 7.1%       | 3.9%  | 3.7%       |
| Activation (Programmatic) Revenue            |       |            |               |       |            |       |            |
| B of A (Initiation)                          | 251   | 329        | 422           | 528   | 656        | 807   | 975        |
| STREET                                       |       | 329        | 421           | 530   | 672        | 833   | 1,003      |
| Delta vs. STREET                             |       | -0.2%      | 0.3%          | -0.3% | -2.4%      | -3.1% | -2.8%      |
| Activation (Programmatic) Revenue Y/Y Growth |       |            |               |       |            |       |            |
| B of A (Initiation)                          | 49.7% | 30.8%      | 28.4%         | 25.2% | 24.3%      | 22.9% | 20.8%      |
| STREET  Delta in CTDEET                      |       | 31.0%      | 27.9%<br>0.5% | 25.9% | 26.9%      | 23.8% | 20.5%      |
| Delta vs. STREET                             |       | -0.2%      | 0.5%          | -0.7% | -2.7%      | -0.9% | 0.4%       |
| Supply-side Revenue                          |       |            |               |       |            |       |            |
| B of A (Initiation)                          | 43    | 45         | 50            | 55    | 61         | 67    | 73         |
| STREET Delta vs. STREET                      |       | 45<br>0.2% | 48<br>4.7%    | 51    | 56<br>7.7% | 62    | 71<br>2.9% |
| Della VS. STREET                             |       | 0.2%       | 4.7%          | 7.2%  | 7.7%       | 8.0%  | 2.9%       |
| Supply-side Revenue Y/Y Growth               |       |            |               |       |            |       |            |
| B of A (Initiation)                          | 47.2% | 3.8%       | 11.3%         | 10.0% | 10.0%      | 10.0% | 10.0%      |
| STREET  Politour CTDEET                      |       | 3.6%       | 6.4%<br>4.8%  | 7.4%  | 9.5%       | 9.7%  | 15.5%      |
| Delta vs. STREET                             |       | 0.2%       | 4.0%          | 2.6%  | 0.5%       | 0.3%  | -5.5%      |
| Operating Income - NON-GAAP                  |       |            |               |       |            |       |            |
| B of A (Initiation)                          | 107   | 141        | 178           | 240   | 314        | 394   | 489        |
| STREET                                       |       | 140        | 175           | 227   | 294        | 367   | 466        |
| Operating Margin - NON-GAAP                  |       |            |               |       |            |       |            |
| B of A (Initiation)                          | 23.7% | 24.6%      | 24.9%         | 27.3% | 29.5%      | 30.9% | 32.7%      |
| STREET                                       |       | 24.5%      | 24.8%         | 26.3% | 28.2%      | 29.6% | 32.2%      |
| Adj. EBITDA                                  |       |            |               |       |            |       |            |
| B of A (Initiation)                          | 142   | 181        | 221           | 285   | 359        | 440   | 538        |
| STREET                                       |       | 181        | 219           | 275   | 341        | 413   | 502        |
| Delta vs. STREET                             |       | 0.1%       | 1.0%          | 3.7%  | 5.3%       | 6.5%  | 7.1%       |
| GUIDE  |       | 181        | -             | -     | =          | =     | -          |
| Adj. EBITDA Margin %                         |       |            |               |       |            |       |            |
| . •  | 1 1   | !          | Į.            | ļ     | ı          |       |            |



# **Exhibit 5: BofA vs Street Forecasts, FY22 to FY28**

We forecast 5-year revenue CAGR of >20%, driven by above trend growth in Measurement (18% CAGR) and hypergrowth in Activation sales (24% CAGR)

|                     | 2022  | 2023E | 2024E | 2025E | 2026E | 2027E | 2028E |
|---------------------|-------|-------|-------|-------|-------|-------|-------|
| B of A (Initiation) | 31.3% | 31.6% | 30.9% | 32.4% | 33.6% | 34.5% | 35.9% |
| STREET              |       | 31.6% | 31.0% | 31.8% | 32.7% | 33.3% | 34.6% |
| Delta vs. STREET    |       | 0.0%  | -0.1% | 0.6%  | 0.9%  | 1.2%  | 1.3%  |
| GUIDE               |       | 31.6% |       |       |       |       |       |
|                     |       |       |       |       |       |       |       |
| Free Cash Flow      |       |       |       |       |       |       |       |
| B of A (Initiation) | 55    | 79    | 132   | 174   | 215   | 266   | 329   |
| STREET              |       | 86    | 125   | 157   | 214   | 270   | 329   |
| Delta vs. STREET    |       | -8.5% | 5.4%  | 10.6% | 0.5%  | -1.4% | 0.0%  |

**Source:** Company Reports, BofA Global Research estimates

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# Price objective basis & risk

### DoubleVerify Holdings, Inc. (DV)

We value DoubleVerify at 37x EV/CY24 EBITDA, similar to the Trade Desk's (TTD) current valuation. TTD is a useful comp because it is the leader within its niche of the digital advertising ecosystem (open web demand side platforms), and because its growth and profitability metrics are similar to DV's.

Downside risks to our PO include: 1) significant worsening of macroeconomic conditions that lead to a decline in ad transaction volume, 2) pricing competition with IAS or potential new entrants, 3) slower than expected adoption of new Activation products.

# **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          | 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 |
|                   | Playtika                          | PLTK        | PLTK 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      |                                   |             |                  |                    |
| O.IDERI ERI URIN  | Chewy Inc                         | CHWY        | CHWY US          | Curtis Nagle, CFA  |
|                   | Citewy inc                        | CHIVI       | CHWIOS           | Curus Magie, Ci A  |



### **US - Internet Coverage Cluster**

| Investment rating | Company               | BofA Ticker | Bloomberg symbol | Analyst           |
|-------------------|-----------------------|-------------|------------------|-------------------|
|                   | Lyft, Inc.            | LYFT        | LYFT US          | Michael McGovern  |
|                   | Opendoor Technologies | OPEN        | OPEN US          | Curtis Nagle, CFA |
|                   | Peloton               | PTON        | PTON US          | Curtis Nagle, CFA |
|                   | Redfin Corp           | RDFN        | RDFN US          | Curtis Nagle, CFA |
|                   | Shutterstock          | SSTK        | SSTK US          | Curtis Nagle, CFA |
|                   |                       |             |                  |                   |

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

| Business Performance       | Numerator  | Denominator   |
|----------------------------|--|---|
| Return On Capital Employed | NOPAT = (EBIT + Interest Income) $\times$ (1 - Tax Rate) + Goodwill Amortization | Total Assets – Current Liabilities + ST Debt + Accumulated Goodwill |
|                            |  | Amortization  |
| Return On Equity           | Net Income   | Shareholders' Equity  |
| Operating Margin           | Operating Profit   | Sales   |
| Earnings Growth            | Expected 5 Year CAGR From Latest Actual  | N/A   |
| Free Cash Flow             | Cash Flow From Operations – Total Capex  | N/A   |
| Quality of Earnings        | Numerator  | Denominator   |
| Cash Realization Ratio     | Cash Flow From Operations  | Net Income  |
| Asset Replacement Ratio    | Capex  | Depreciation  |
| Tax Rate                   | Tax Charge   | Pre-Tax Income  |
| Net Debt-To-Equity Ratio   | Net Debt = Total Debt - Cash & Equivalents                                       | Total Equity  |
| Interest Cover             | EBIT   | Interest Expense  |
| Valuation Toolkit          | Numerator  | Denominator   |
| Price / Earnings Ratio     | Current Share Price  | Diluted Earnings Per Share (Basis As Specified)                     |
| Price / Book Value         | Current Share Price  | Shareholders' Equity / Current Basic Shares                         |
| Dividend Yield             | Annualised Declared Cash Dividend  | Current Share Price   |
| Free Cash Flow Yield       | Cash Flow From Operations – Total Capex  | Market Cap = Current Share Price × Current Basic Shares             |
| Enterprise Value / Sales   | EV = Current Share Price × Current Shares + Minority Equity + Net Debt +         | Sales   |
|                            | Other LT Liabilities   |   |
| EV / EBITDA                | Enterprise Value   | Basic EBIT + Depreciation + Amortization                            |

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

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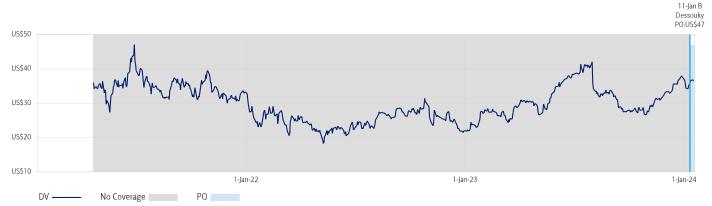
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# **Important Disclosures**

#### **DoubleVerify (DV) Price Chart**



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

The Investment Opinion System is contained at the end of the report under the heading "Fundamental Equity Opinion Key". Dark grey shading indicates the security is restricted with the opinion suspended. Medium grey shading indicates the security is under review with the opinion withdrawn. Light grey shading indicates the security is not covered. Chart is current as of a date no more than one trading day prior to the date of the report.

#### Equity Investment Rating Distribution: Technology Group (as of 31 Dec 2023)

| Coverage Universe | Count | Percent | Inv. Banking Relationships R1 | Count | Percent |
|-------------------|-------|---------|-------------------------------|-------|---------|
| Buy               | 215   | 53.09%  | Buy                           | 111   | 51.63%  |
| Hold              | 97    | 23.95%  | Hold                          | 45    | 46.39%  |
| Sell              | 93    | 22.96%  | Sell                          | 24    | 25.81%  |

#### Equity Investment Rating Distribution: Global Group (as of 31 Dec 2023)

| Coverage Universe | Count | Percent | Inv. Banking Relationships R1 | Count | Percent |
|-------------------|-------|---------|-------------------------------|-------|---------|
| Buy               | 1895  | 53.62%  | Buy                           | 1083  | 57.15%  |
| Hold              | 832   | 23.54%  | Hold                          | 454   | 54.57%  |
| Sell              | 807   | 22.84%  | Sell                          | 383   | 47.46%  |

R1 Issuers that were investment banking clients of BofA Securities or one of its affiliates within the past 12 months. For purposes of this Investment Rating Distribution, the coverage universe includes only stocks. A stock rated Neutral is included as a Hold, and a stock rated Underperform is included as a Sell.

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# Investment rating Total return expectation (within 12-month period of date of initial rating) Ratings dispersion guidelines for coverage cluster<sup>R2</sup>

| Buy         | ≥ 10% | ≤ 70% |
|-------------|-------|-------|
| Neutral     | ≥ 0%  | ≤ 30% |
| nderperform | N/A   | ≥ 20% |

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