

**ANALYTICS & INSIGHTS** 

## **THE PATH TO IPO**

Going Public in 2022 – An Analysis of Enterprise SaaS IPO Performance



### **ICONIQ** Capital, LLC

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#### $\star$ New this year!

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## An analysis of recent software IPOs

#### The following report aims to answer key questions across several major topics related to successfully planning for and executing an IPO How do 2021 SaaS IPOs compare to those of previous years? 02 ٠ 2021 Trends What are the major take-aways for companies looking to go public in today's market? 03 What do scale, growth, efficiency and profitability typically look like leading up to IPO? ٠ **Driving Ongoing** How do these metrics evolve in post IPO years? ٠ Performance How do top performers effectively manage the street through forecasting post IPO? 04 ٠ Valuation & How have these public software companies historically been valued - both at IPO and since? ٠ Trading 05 How do these compare to overall market valuation? ٠ **Multiples** 06 • What have the most common economic structures been over the past few years? **IPO Structure & Banker Selection** How do these vary based on which banks are involved? ٠

Additional information on disclosures, both at time of IPO (S-1s and 424B4s) and on an on-going quarterly and annual basis can be found in the Appendix

## INTRODUCTION Methodology

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Certain graphs on the following pages will only show IPOs from the last 5 years (indicated by this icon). For all IPOs since 2013, check out the <u>interactive Tableau</u> <u>companion tool</u>

#### Enterprise SaaS IPOs Included<sup>1</sup> Maior Software IPOs ~2H2013 - 2021 $\bigcap$ \* All IPOs that have since been acquired are excluded from this report, but the data is ICONIQ investment available in our accompanying Tableau dashboard Alkami alteryx Anaplan Oppfolio Appian agang ATLASSIAN Avalara Davidxchange 02 Bentley Accommerce bill.com 😑 C3.ai 🛂 Cardlytics 🗼 casa systems 🧲 CLEARWATER CLOUDFLARE ① 容联云通讯 🛞 CONFLUENT Couchbase • DISCO 03 Docu Sign: Doco Cosimity Stropbox ENGAGESMART Evercommerce ENER Expensify | fastly | flywire & ForgeRock @freshworks 04HashiCorp: Mealth HubSpot 🔥 Informatica INSTRUCTURE INTOPP 🋂 jamf GitLab 米 KnowBe4 Z LEGALZOOM MCAfee meridianlink mimecast 😂 |Frog KALTURA M. monday.com III ncino. O New Relic. Okta pagerduty Daycom Paycor 05 O PURESTORAGE QUALTICS. RAPID Ping PROCORE Paymentus paylocity SailPoint SailPoint 💟 samsara riskified **RingCentral**<sup>\*</sup> Semrush SentinelOne<sup>\*</sup> 06 **i** shopify **▼** smartsheet **i ☆** snowflake 🔧 sprinklr **□toast** sumo logic sprout socia (i) twilio UiPath User Testing Veeva WVERTEX VIANT WORKMO tuya Z zoominfo yext zendesk zenvia 🗸 🖓 ZETA Zoom zuora **Second Second Second**

#### Make-Up of Enterprise SaaS Companies Included in Analysis Across Various Dimensions







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Notes: (1) Includes all software IPOs across all ICONIQ Growth portfolio including co-investments as of the time period indicated above. IPOs that have since been acquired are excluded from this report (2) IPO Size reflective of 42B4 filing and does not include greenshoe. (3) Trademarks are the property of their respective owners. None of the companies illustrated have endorsed or recommend the services of ICONIQ. Source: Public Filings for Software IPO June 2013 to December 2021

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## Executive Summary

01	2021 Trends	<ul> <li>An unprecedented number of SaaS companies went public in 2021, largely driven by pent-up demand from strong private markets and a frothy public market</li> <li>New innovations in IPO processes such as blind bidding and employee participation allowed for more transparent pricing and day one liquidity for employees</li> <li>There has been a slight degradation in the average quality of business profiles of companies going public, with median revenue growth and Rule of 40 down compared to pre-2020 IPOs</li> <li>2021 saw a significant market contraction for tech stocks, with 70% of SaaS companies that went public breaking issue as of Jan 2022</li> </ul>	Particular Pages 13 - 22
02		• While direct listings and SPACs have become a viable route to the public market, both the sample size of enterprise SaaS companies pursuing these routes and average returns are still notably lower than those of traditional IPOs	<ul> <li>Beneficial and the second secon</li></ul>
03	Driving Ongoing Performance	<ul> <li>Initial IPO performance is most correlated with Rule of 40, revenue growth, and net retention; in recent years, profitability has become more important in a market that has historically valued growth over profitability</li> <li>Based on data from the past 5 years of IPOs, becoming a public SaaS company requires a median revenue of \$180M with 42% YoY growth, net dollar retention of 119%, gross margin of 70%, and 12 years from founding to IPO</li> <li>Historically, vertical SaaS companies have IPO-ed at a smaller scale than horizontal SaaS companies; however, 2021 saw a cohort of strong vertical SaaS companies with significant scale leading up to IPO</li> </ul>	Becoming a Public Stats Company Here and the state of th
04		<ul> <li>The majority of SaaS companies are not profitable leading up to IPO; however, around half of these companies are FCF positive within two fiscal years of IPO</li> <li>IPO sizing relative to market cap has varied across enterprise SaaS IPOs, but most have remained in the 10-20% range</li> </ul>	
05	Valuation & Trading Multiples	<ul> <li>Multiples have been steadily rising over the past few years, with average forward multiples for the 2021 SaaS cohort exceeding all historical software companies analyzed since 2013</li> <li>However, while multiples at IPO are at an all-time high for SaaS companies, most companies have seen a decline in valuation post IPO</li> <li>Vertical SaaS companies tended to see a higher average forward multiple at IPO and a tighter range across IPOs in 2021 compared to horizontal SaaS peers</li> <li>Across horizontal SaaS IPOs, companies in the infrastructure &amp; security sector have seen the highest average forward multiples both at IPO and currently, in addition to the highest price % change from offering</li> </ul>	Print a final de la deserva de la constance de
06	IPO Structure & Banker Selection	<ul> <li>Historically, most IPOs analyzed had either 2 or 3 bookrunners; in recent years, more IPOs have had 4+ bookrunners with average lead left allocation between ~32-40% regardless of bank</li> <li>The most common deal structures have historically had either 3 or 4 co-managers, with 3-6% being allocated to each</li> <li>Goldman Sachs and Morgan Stanley continue to be the most common lead left bookrunners, whereas KeyBanc/Pacific Crest and JMP continue to be the most common co-managers across IPOs in the past 8 years</li> </ul>	

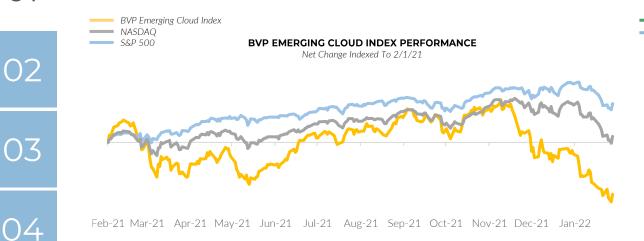
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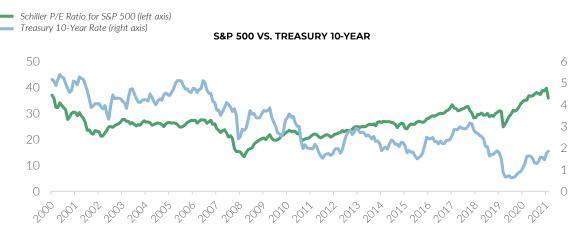
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## A Note on the Current Environment

Over the recent months, the public tech equity markets are going through a dramatic contraction, driven in part by faster than expected quantitative tightening by the Federal Reserve to respond to heightened inflation risks. For example, the BVP Cloud Index of cloud software companies is down 18% YoY, with some high growth software stocks trading ~40-50% off 52-week highs.





Looking forward, we can reasonably expect higher interest rates (noting that 10 yr Treasury is still currently near historical lows) and continued market volatility as investors grapple with various economic indicators, inflationary concerns, a tight labor market and shifting geopolitical dynamics.

However, as growth partners we strongly believe in the fundamental value creation opportunity for 'best-in-class' software companies to grow and generate exceptional returns over time, even through shifting market environments. As evidenced by some of the highest multiple software companies, despite the recent pullback they have continued to trade well above historical averages (more info in Section 4 of this deck).

It may already be a different world by the time you read this, but in the interim, we hope that these updates are still helpful for companies thinking about IPO and please don't hestitate to reach out with any thoughts or questions.

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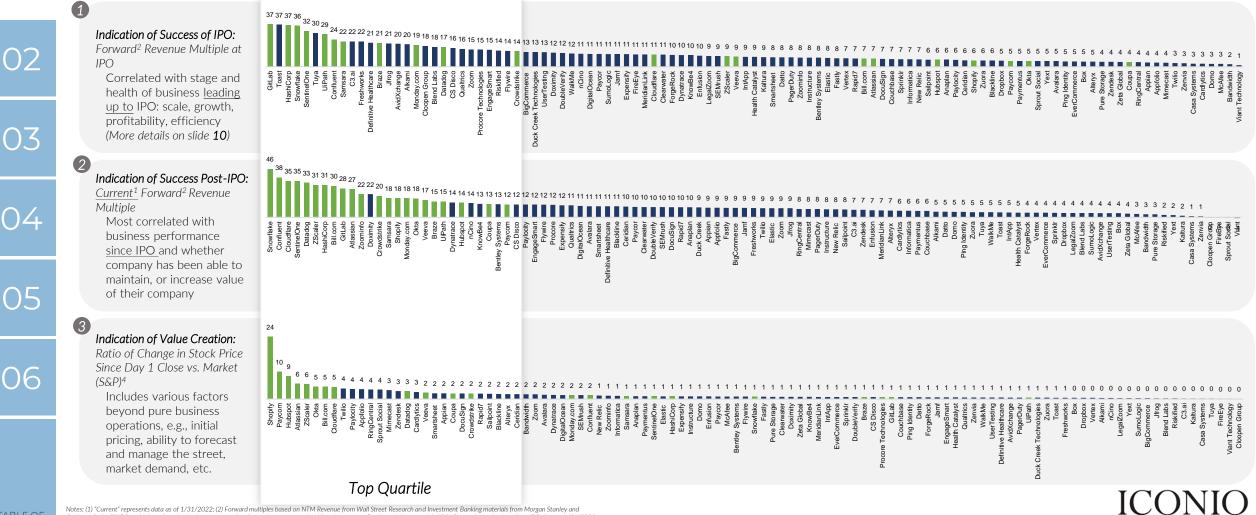
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## Our IPO Performance Framework

Top quartile across at least 2 dimensions All other companies

Success of an IPO is, by nature, a subjective measure and the decision to go public is motivated by a wide range of objectives - however, one holistic and objective way to identify top performing companies is to compare multiples as well as value creation

#### ASSESSING IPO SUCCESS: FORWARD REVENUE MULTIPLES AT IPO VS. TODAY AND INDEXED CHANGE IN STOCK PRICE



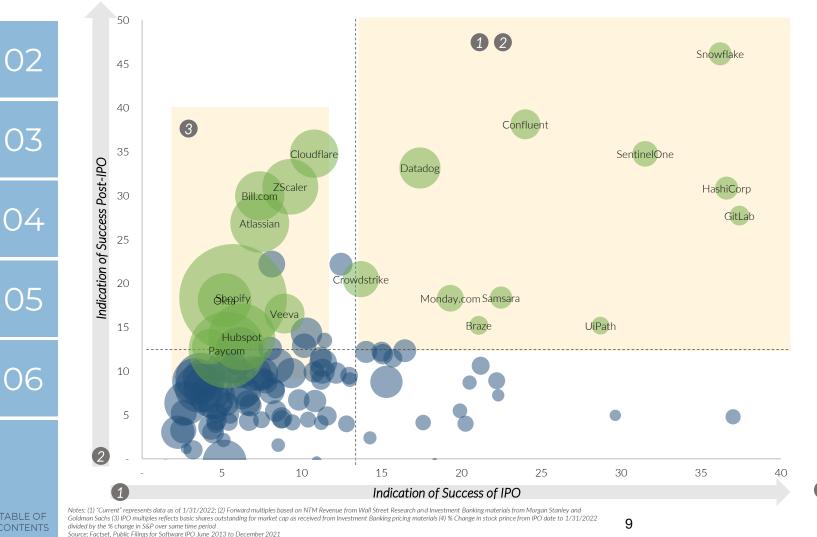
Notes: (1) "Current" represents data as of 1/31/2022; (2) Forward multiples based on NTM Revenue from Wall Street Research and Investment Banking materials from Morgan Stanley and Goldman Sachs (3) IPO multiples reflects basic shares outstanding for market cap as received from Investment Banking pricing materials (4) % Change in stock prince from IPO date to 1/31/2022 divided by the % change in S&P over same time period Source: Factset, Public Filings for Software IPO June 2013 to December 2021

## Our IPO Performance Framework

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Across these three dimensions, a group of 21 'top performers' emerges that – while not a perfect representation of IPO 'success' - allows us to better distill findings and trends across a narrower set of strong companies

ASSESSING IPO SUCCESS: FORWARD REVENUE MULTIPLES AT IPO VS. TODAY AND INDEXED CHANGE IN STOCK PRICE



### 'Top Performers'

This Group of 21 companies have top quartile results across at least 2 of these 3 key dimensions:

1 Forward Multiple at IPO<sup>1</sup>

2 Forward Multiple Today<sup>2</sup>

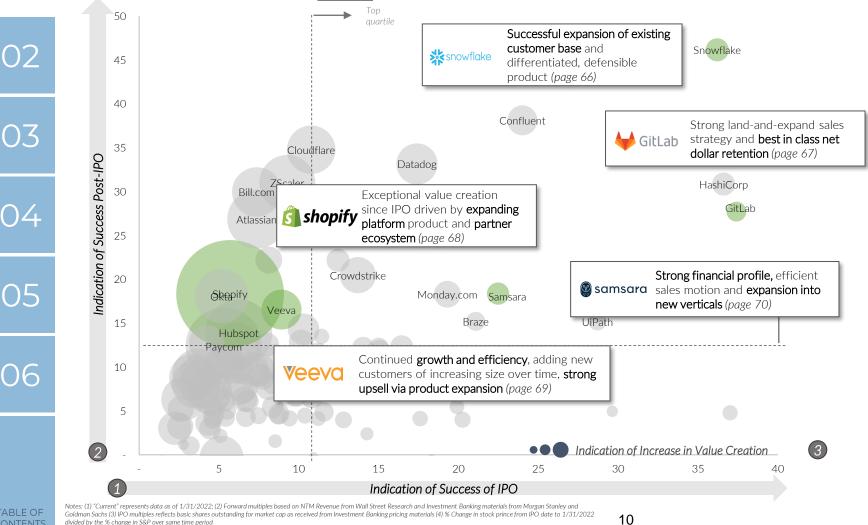
Indication of Increase in Value Creation

3 Value Creation for Shareholders<sup>4</sup>

## Our IPO Performance Framework

Within the broad buckets of strong operational profiles and the ability to effectively manage expectations, below are a few explicit examples of how these elements have contributed to performance over various time horizons (*detailed case studies in Appendix*)

SELECT DRIVERS OF ONGOING PERFORMANCE



Source: Factset, Public Filings for Software IPO June 2013 to December 2021

#### Drivers of Ongoing Performance

Top performers post IPO are able to demonstrate many of the below strengths:

- **Strong top-line growth** by successfully capturing new customers or retaining and growing the existing customer base
- Stable cash flow and at least clear path to profitability within 1-2 years post IPO
- Product driven innovation that enables the company to provide differentiated solutions to meet customer needs
- Ability to consistently **beat quarterly estimates** and **raise expectations** for future growth

Additional detail on top 3 horizontal and top 2 vertical SaaS IPOs provided as case studies in the <u>Appendix</u>

## Beat and Raise: Key Considerations

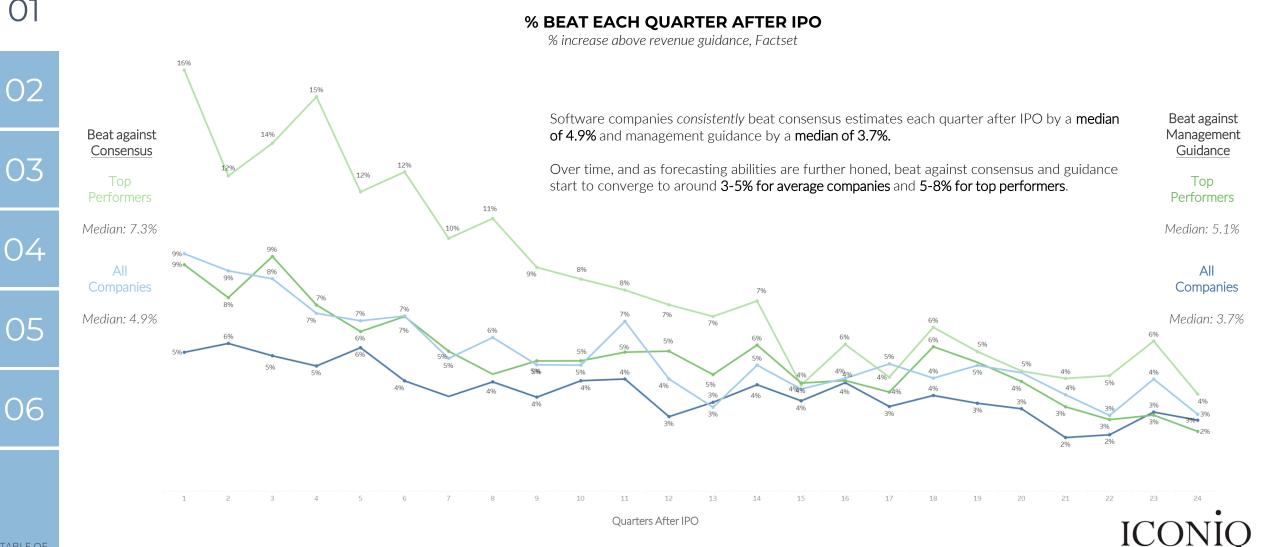
#### One way for companies to perform well in the public market and raise multiples is by managing their "beat and raise" each quarter

01		<ul> <li>Analysts' consensus forecasts and a company's own guidance estimates are used to establish a benchmark with which to evaluate actual earnings results</li> </ul>	CASE STUDIES
02	What is "beat and raise"?	<ul> <li>A "beat" refers to quarterly actuals exceeding original estimates while a "raise" refers to an increase in management's guidance for future quarters</li> </ul>	
03		• A company's ability to meet and beat quarterly guidance estimates signals visibility into future performance, strong growth prospects as well as an internal financial and operational rigor to accurately forecast and meet	Since IPO, Twilio has consistently had beat and raise quarters with average quarter actuals <b>beating management guidance by</b>
04	Why is it important?	<ul> <li>Thus, a company's ability to "beat and raise" is strongly correlated to public market performance</li> </ul>	9.8%. This has contributed to significant price gains of 713% since IPO.
05		• Private companies nearing IPO should be able to exceed short term targets (monthly or quarterly top-line plans) while also increasing mid-term targets (annual top-line plan)	yext
06	Key Considerations	<ul> <li>While beating expectations is important, excessive sandbagging can also be detrimental to performance</li> <li>We usually recommend companies start thinking about this ~2 years before IPO and build in the forecasting rigor and appropriate financial models to start thinking like a public company</li> </ul>	Since IPO, Yext has not been able to consistently beat plan and further raise expectations, with average quarter <b>actuals barely beating management guidance by 2.2%,</b> which is reflected in its <b>price decline of -30</b> % since IPO.
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## Beat and Raise: Performance by Quarter

Software companies consistently beat consensus estimates and management guidance each quarter after IPO; over time, the beat against consensus and guidance start to plateau and converge as forecasting improves



# **2021 TRENDS**

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## 2021 TRENDS Key 2021 Trends

### 01

### UNPRECEDENTED DEAL VELOCITY

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Pent-up demand from robust private markets and a frothy public market led to a historic number of SaaS companies going public in 2021. This deal velocity was also driven by several IPOs that got pushed from 2020 due to the pandemic and companies trying to take advantage of a frothy market and high valuations.

### **IMPORTANCE OF STRATEGIC INVESTORS**

We are starting to see the rise of strategic investors who invest in SaaS IPOs via concurrent private placements and offer both brand name recognition and partnerships – a continued trend from 2020. Notably in 2021 these included Zoom's investment in Monday.com and Shopify's investment and exclusive partnership agreement with Global-E.

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### **INNOVATIONS IN IPO PROCESS**

Companies are starting to explore adjustments to the IPO pricing process and day one liquidity. Unity used the "Transparent IPO" system from Goldman Sachs which facilitated blind bidding to determine IPO price and also allowed for a small percentage of employee stock to be available on Day 1 to minimize the traditional lock-up period back in 2020.

### **RISE OF VERTICAL SAAS**

**50% of top quartile Rule of 40 companies were vertically focused** – a notable increase that started back in 2020. Vertical SaaS companies also **saw a higher median 1<sup>st</sup> day pop in 2021 than horizontal SaaS peers,** with category leaders like Toast and Doximity going public this past year.



## 2021 TRENDS Software IPOs over Time

While a variety of factors dictate IPO performance, the market has historically rewarded companies with strong, predictable growth and healthy margins. In 2021 however, the market did not respond as strongly to SaaS companies going public with the same business profiles as prior years

)2	IPO Year	Market Cap at IPO (\$Ms)	LTM Revenue YoY Growth (%)	LTM Rule of 40 (%)	LTM Net Retention (%)	LTM Gross Margin (%)	Forward Multiple at IPO	Day 1 Pop (%)	30 Day Price Change from Offering (%)
	2021	\$3,997	37%	33%	117%	71%	12.5x <mark>2</mark>	24%	26%
	2020	\$3,972	35%	33%	114%	70%	10.4x	51%	66%
5	2019	\$1,799	44%	30%	130%	74%	8.7x	50%	44%
	2018	\$1,906	45%	41%	113%	71%	5.6x	42%	50%
)4	2017	\$958	45%	44%	119%	70%	4.2x	11%	25%
	2016	\$885	78%	62%	145%	62%	5.2x	85%	58%
	2015	\$1,285	81%	65%	108%	70%	5.4x	32%	29%
	Pre-2015	\$821	49%	52%	96%	66%	5.5x	41%	47%
	Median	\$2503	42%	38%	117%	71%	5.7x	34%	36%

**BUSINESS PERFORMANCE VS. IPO AND 30-DAY PRICE PERFORMANCE** 

While a variety of factors, including industry sentiment and overall equity market performance dictate IPO performance, the market has historically rewarded companies with strong growth and health margins. In prior years, top quartile Rule of 40 companies saw a greater offer to 30-day price increase of ~80%, compared to ~40% for all companies. Over the past few years however, there has been a slight degradation in the business profile of companies, with **median** revenue YoY growth and Rule of 40 down compared to pre-2019 IPOs.

In 2021, software valuations continued to increase and while the growth and profitability of companies going public remained consistent with 2020, the average stock gains were notably lower. Top quartile Rule of 40 companies saw a median offer to 30-day price increase of only 25%, likely due to the frothy markets and elongated pandemic but also arguably an indication of better pricing. The first day pop was also notably lower for SaaS IPOs across the board in 2021, with companies seeing 1st day pops as low as -22% and a median 1st day pop of 24%. Top quartile Rule of 40 companies also saw a lower median 1st day pop of 29%.

Additional detail on business performance metrics by company can be found in the Appendix.

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## Median by IPO Year



## 2021 TRENDS IPO Value Creation by Year

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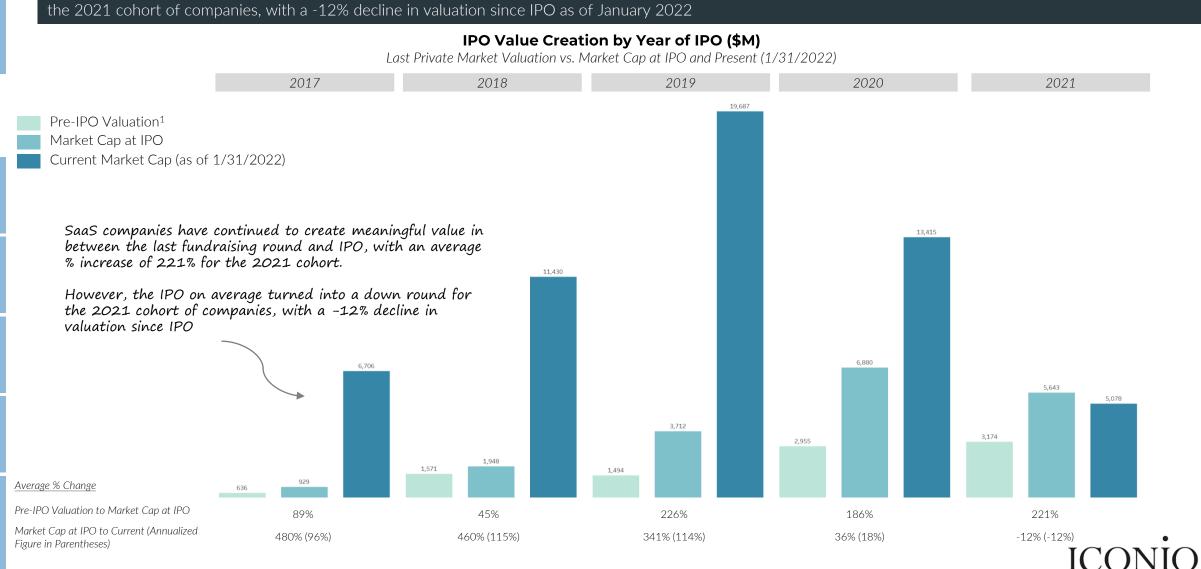
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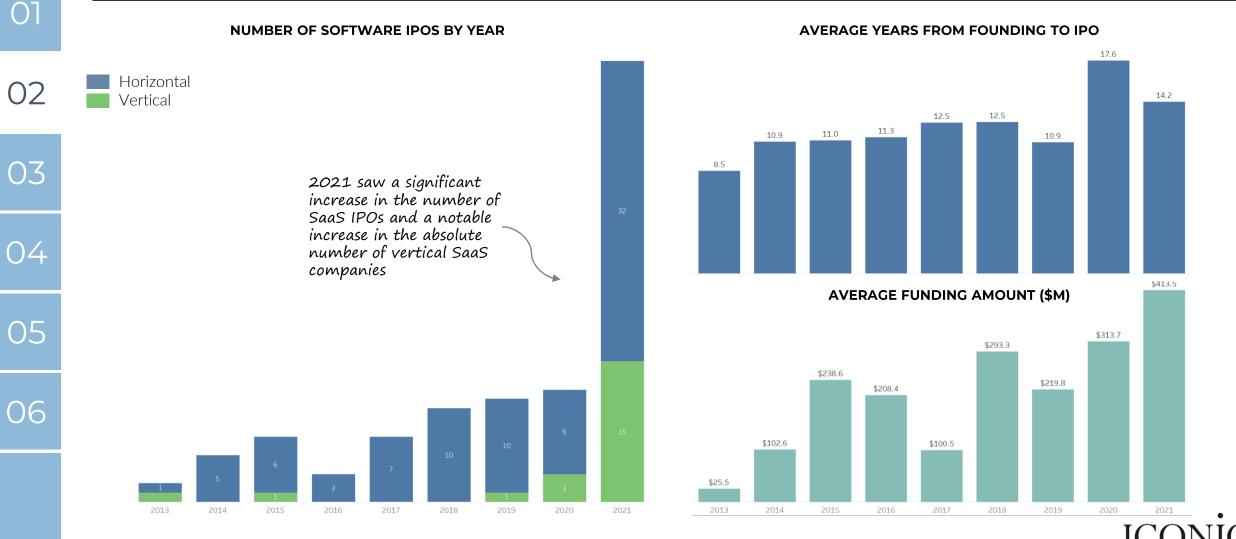


SaaS companies have continued to create meaningful value between the last fundraising round and IPO; however, the IPO on average turned into a down round for

Notes; (1) Based on Pitchbook deal data which does not include any non-publicly disclosed secondary transactions (2) Information provided as of 1/31/22 Source: Factset. Pitchbook, Public Filings for Software IPO June 2013 to December 2021

### 2021 TRENDS Software IPO Activity Over Time

2021 saw a dramatic increase in the number of software IPOs compared to prior years. To IPO in 2021, the average company took ~14 years since founding and raised ~\$400M in funding prior to IPO, an indication of the robust private markets.



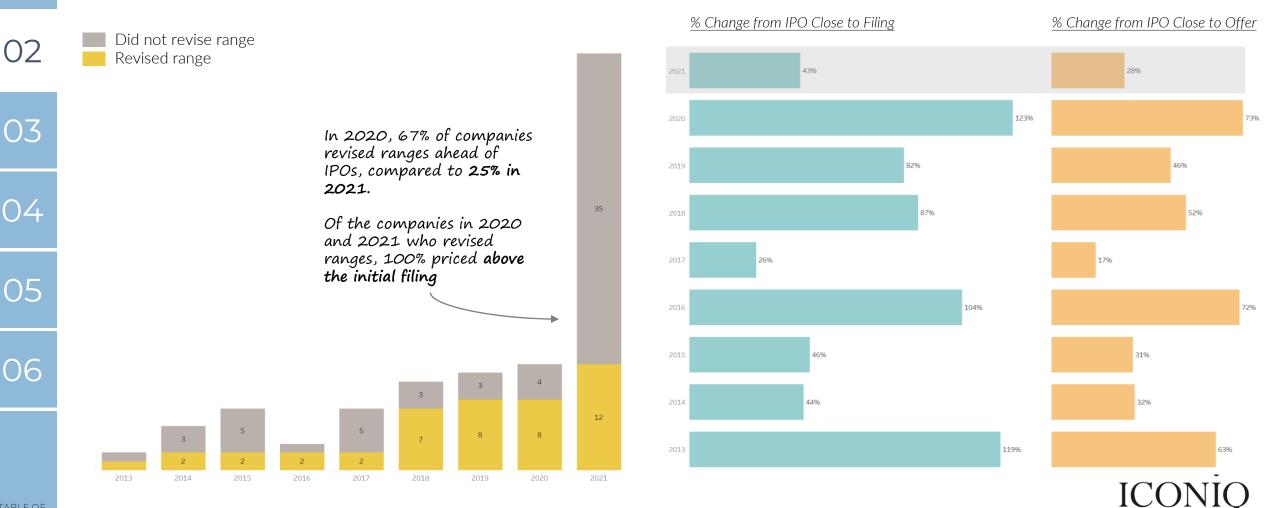
## 2021 TRENDS Pricing in 2021

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IPOs in 2021 saw a significant reduction in both the percentage of companies who submitted revised ranges ahead of their IPOs as well as the difference between the 1<sup>st</sup> day close from the original filing and offer prices, signaling perhaps better pricing and/or weaker public fervor towards SaaS IPOs

NUMBER OF SOFTWARE COMPANIES WITH REVISED RANGES

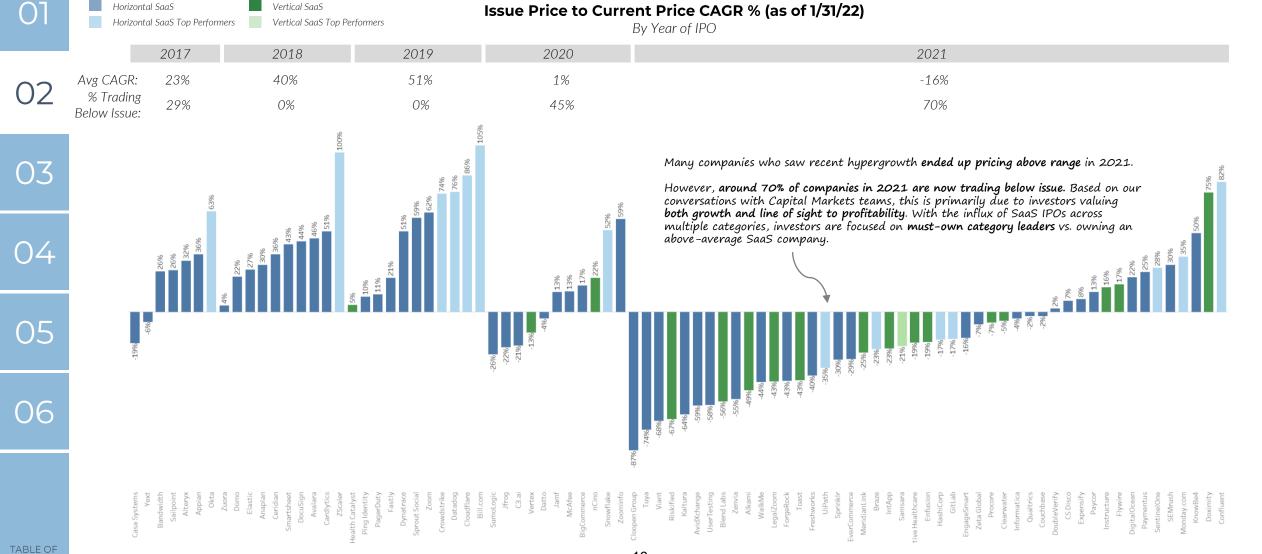
#### AVERAGE CHANGE IN PRICE % FROM IPO CLOSE TO FILING / OFFER



## 2021 TRENDS Change from Issue Price







# Paths to the Public Market

Direct listings and SPACs have become a viable route to the public markets for software companies in recent years; however, the number of enterprise software companies choosing these options remains limited

Direct Listing

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ALTERNATIVE AVENUES TO THE PUBLIC MARKET

- As a continued trend from 2020, a handful of software companies chose to go public via direct listing to avoid some of the common dilution and lock-up issues associated with traditional IPOs
- The number of completed enterprise SaaS SPACs continues to remain low and acquisition targets are commonly those with weaker growth and margin profiles
- As the percentage of software companies choosing to go public via traditional IPOs continues to make up the notable majority of public exits, we will continue to focus this study on traditional IPOs until we have a meaningful sample size of SaaS direct listings or SPACs

SELECT CASE STUDIES

- Reasons cited for choosing a direct listing included making sure they did not underprice and giving existing shareholders liquidity without a lock-up period
- Amplitude also raised a private financing round a few months before their direct listing at \$32 / share
- Amplitude closed at \$54.8 on its first day of trading, which means the company still underpriced its last round and suffered from the same dilution problem as traditional IPOs
- ServiceMax merged with Pathfinder Acquisition Corp, a blank-check company sponsored by HGGC and Industry Ventures
- **SERVICEMAX** Reasons cited by the CEO included the speed of *SPAC Merger* IPO facilitated by a SPAC and additional capital, which enabled ServiceMax to acquire LiquidFrameworks

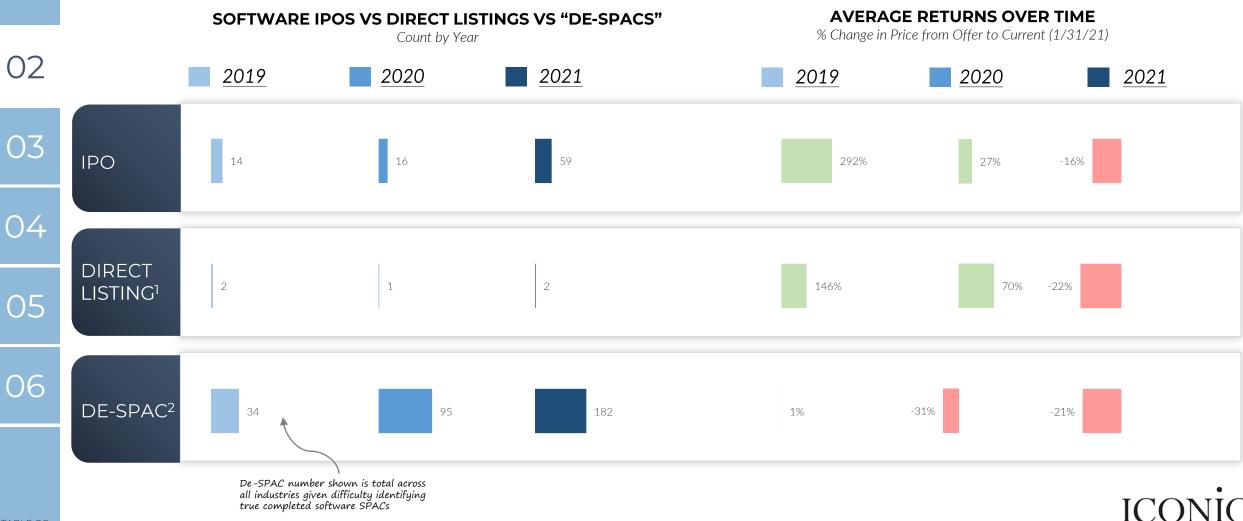
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Note: Information provided as of 1/31/22 Source: Factset, Public Filings for Software IPO June 2013 to December 2021

## SPAC and Direct Listing Performance

SaaS Direct Listings and completed SPAC returns after going public in 2021 have been lower compared to traditional IPOs





## 2021 TRENDS Hybrid Auctions

#### In addition to direct listings and SPACs, hybrid auction IPOs have also become a more popular way to navigate some of the challenges associated with traditional IPOs

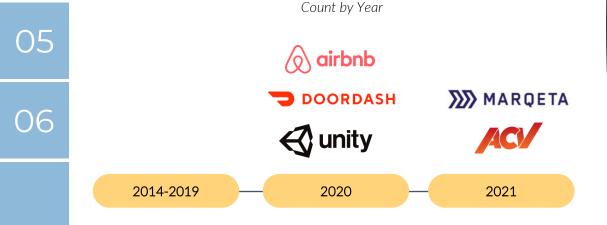
Hubrid Auction

03

04

- In recent years, technology companies have started to explore **innovations to the IPO process** to address some of the challenges associated with traditional IPOs
- A hybrid IPO, which uses an auction process to gauge demand for the offering, has slowly started to become a more common option for companies to avoid "leaving money on the table"
- However, it seems the hybrid auction process can continue to be improved as Unity, DoorDash, and Airbnb still saw notable jumps on the first day of trading
- It is also worth noting that we haven't seen any enterprise SaaS companies pursuing the hybrid IPO process yet

**HYBRID AUCTIONS** 



### SELECT CASE STUDY

- In Sept 2020, Unity Software went public using a hybrid IPO-auction offering
- Reasons cited by the CEO included wanting the offering to be data-driven and transparent, especially around pricing allocations
- Using Goldman Sachs' Transparent Order Platform, prospective investors were able to submit blind indications (both price and quantity)
- Unity also allowed for a small percentage of employee stock to be made available on the first day, enabling early employee liquidity (vs. the traditional 180-day lockup)
  - Unity still saw a **31% day-one "pop"**, which the CEO suspects was due to a significant number of shares being **allocated to long-term investors** which may have driven up demand

# DRIVING ONGOING PERFORMANCE

1. <u>Scorecard</u>

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- 2. Revenue and YoY Growth
- 3. <u>Rule of 40</u>
- 4. Profitability
- 5. Equity Raised vs Burn
- 6. Net Dollar Retention

- 7. Operating Expenses
- 8. <u>Headcount</u>
- 9. Years to IPO
- 10. Market Cap
- 11. IPO Sizing
- 12. Liquidity

## DRIVING ONGOING PERFORMANCE Business Performance vs. IPO Multiples

Across all companies, initial IPO performance (forward multiple at time of IPO) is correlated with factors spanning scale, growth, retention, and profitability. With the latest cohort of IPOs, IPO performance has become most closely linked to net retention – a shift from previous years where Rule of 40 was the most highly correlated

#### O1FACTORS MOST POSITIVELY CORRELATED WITH FORWARD MULTIPLE AT TIME OF IPO Correlation Coefficient (R) with Company IPO Multiple 02 Rule of 40: Growth vs. Profitability and directional change in relevance over time Correlation by each variable by year of IPO Net Retention 38% LTM, where disclosed: 38% LTM Revenue 67% Growth 03-10% has become increasingly correlated with Revenue Growth 37% IPO multiples Across all IPOs: 37% Last Quarter, YoY: 37% 04 over the past 6 FY+1. YoY: 35% years 2014 2015 2016 2017 2018 2019 2020 2021 FY-1, YoY: 34% Across all IPOs: -12% LTM FCF Margin 05 has become less Rule of 40 36% significant FY-1 36% -38% in correlation with FY+1: 22% -58 LTM: 10% IPO multiple strength since 06 2018 2015 2017 2018 2019 2020 2021 2014 2016 Gross Margin 30% From a multiple standpoint, public markets continue to FY-2: 30% value growth over profitability but there has been a slight shift in the past year where LTM: 5% profitability has become increasingly correlated to IPO performance, perhaps driven by FY-0:4%

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volatile markets and the rising importance of business predictability to investors

## DRIVING ONGOING PERFORMANCE Becoming a Public SaaS Company

We can examine business performance leading up to IPO across five key metrics: scale, growth, FCF margin, Rule of 40, and net dollar retention – some of which have tighter ranges as it relates to successful IPOs than others

#### **RECENT SOFTWARE IPOS: COMPANY PERFORMANCE ACROSS FIVE KEY METRICS**

02	<b>Revenue</b> (\$M, LTM)		Revenue Growth (% YoY, LTM)		<b>FCF Margin</b> (% Revenue, LTM)		<b>Rule of 40</b> (LTM Revenue YoY Growth + LTM FCF Margin, %)		Net Dollar Retention (%, LTM)		
03		Median	Range	Median	Range	Median	Range	Median	Range	Median	Range
05	Тор	~\$188		~73%		~(19%)		~51%		~124%	
04	Performer	~\$100	\$94 - \$608	~7.376	40% - 138%	~(1770)	(82%) - 21%	~31%	7% - 121%	~12470	90% - 187%
05	Horizontal SaaS	~\$177	\$74 - \$2,745	~42%	3% - 239%	~(8%)	(133%) – 35%	~38%	(88%) - 184%	~117%	89%- 181%
06	Vertical SaaS	~\$201	\$54 - \$1,183	~41%	11% - 98%	~8%	(45%) – 58%	~39%	7% - 119%	~115%	100% - 187%

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## DRIVING ONGOING PERFORMANCE Scale and Growth: LTM Revenue & YoY Growth

Historically, vertical SaaS companies have IPO-ed at a smaller scale threshold than horizontal SaaS companies. However, 2021 saw a cohort of strong vertical SaaS companies with significant scale leading up to IPO such as Toast and Procore

#### SCALE AND GROWTH: REVENUE AND YOY GROWTH AT TIME OF IPO

LTM Revenue (\$M) and YoY Growth (%), Enterprise SaaS IPOs Since 2013



Note: Information provided as of 1/31/22 Source: Factset, Public Filings for Software IPO June 2013 to December 2021

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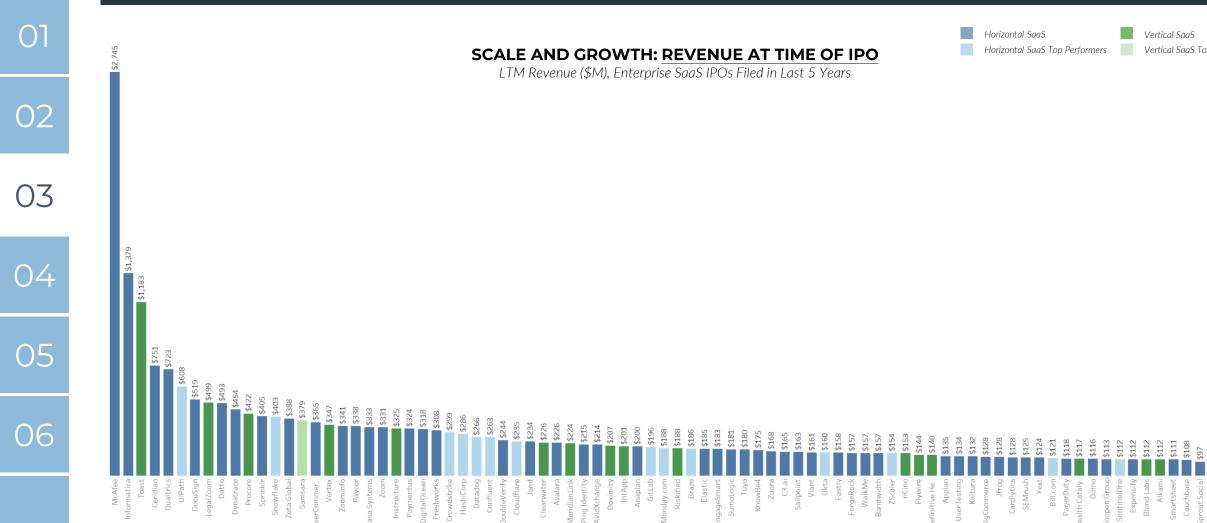
## DRIVING ONGOING PERFORMANCE Scale and Growth: LTM Revenue



Vertical SaaS

Vertical SaaS Top Performers

On average, vertical SaaS companies and horizontal SaaS companies in the infrastructure & security sector had the highest scale leading up to IPO

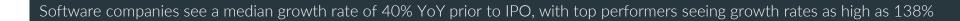


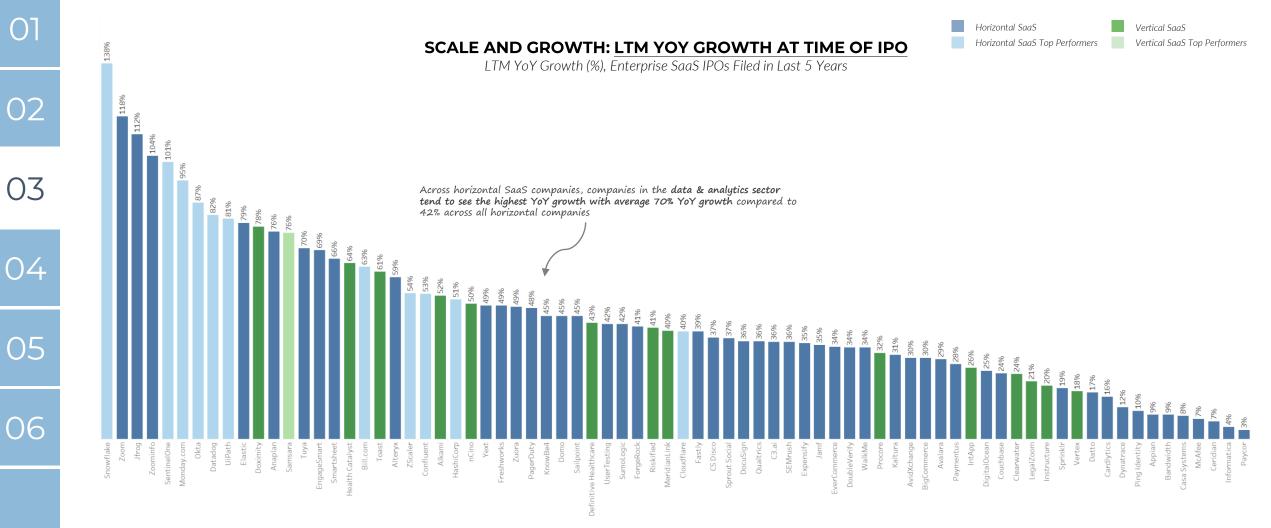
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## DRIVING ONGOING PERFORMANCE Scale and Growth: YoY Growth

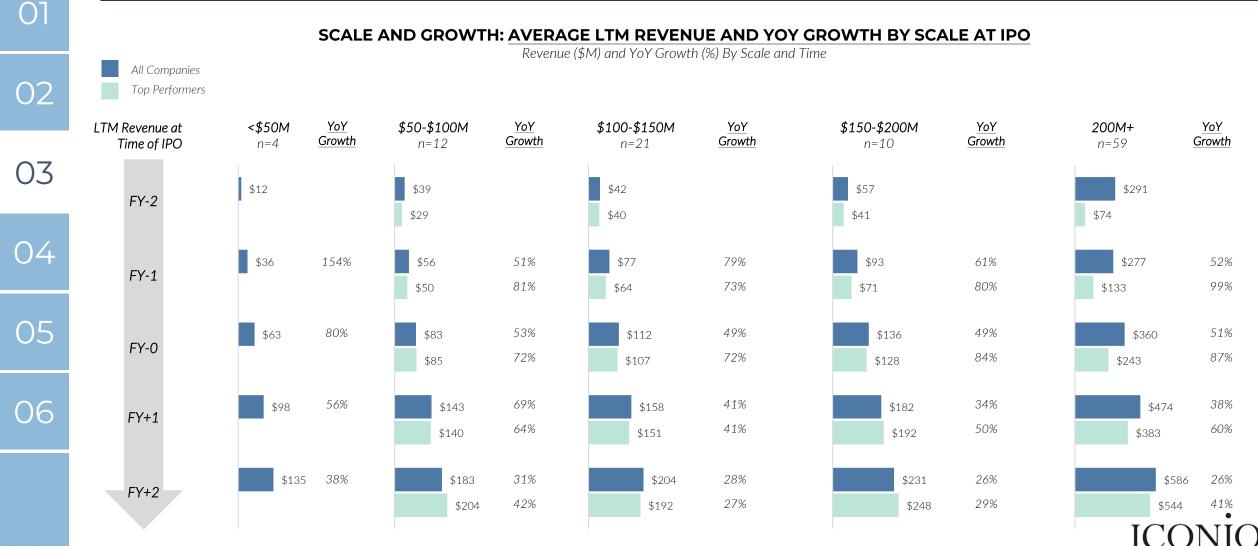






### DRIVING ONGOING PERFORMANCE Scale and Growth: Surrounding IPO

While top performing companies are not always larger than their peers at time of IPO, they typically have stronger growth in the years leading up to IPO and are able to maintain healthy growth trajectories post IPO as well



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### DRIVING ONGOING PERFORMANCE Rule of 40: At Time of IPO



While a variety of factors dictate IPO performance, the market has historically rewarded companies with strong growth and healthy margins with an average offer to 30-day performance of ~60% for top quartile Rule of 40 companies

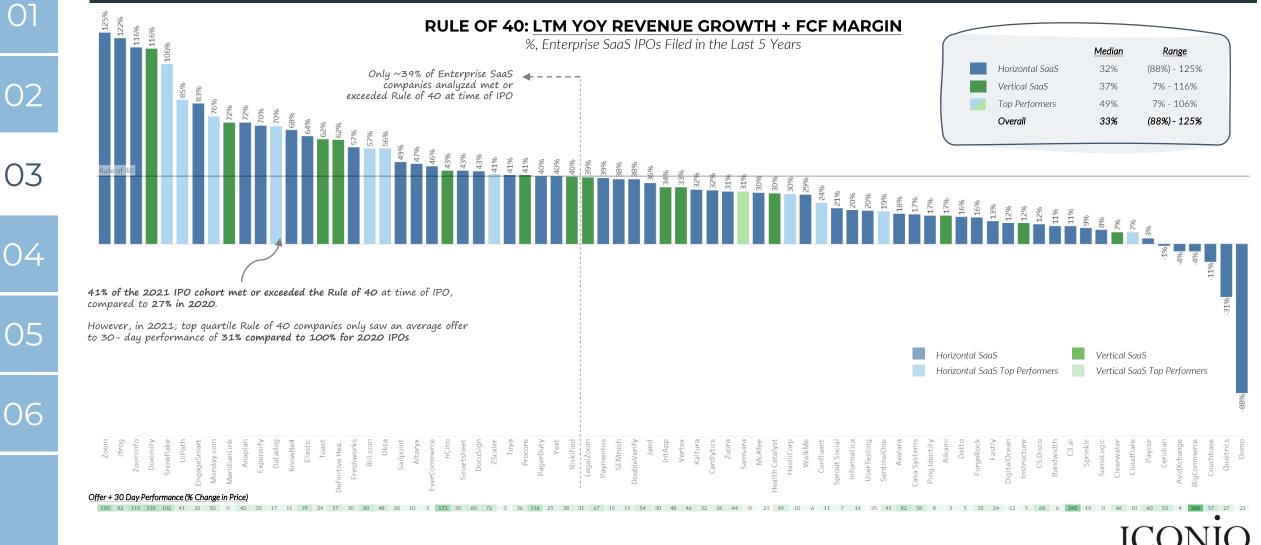
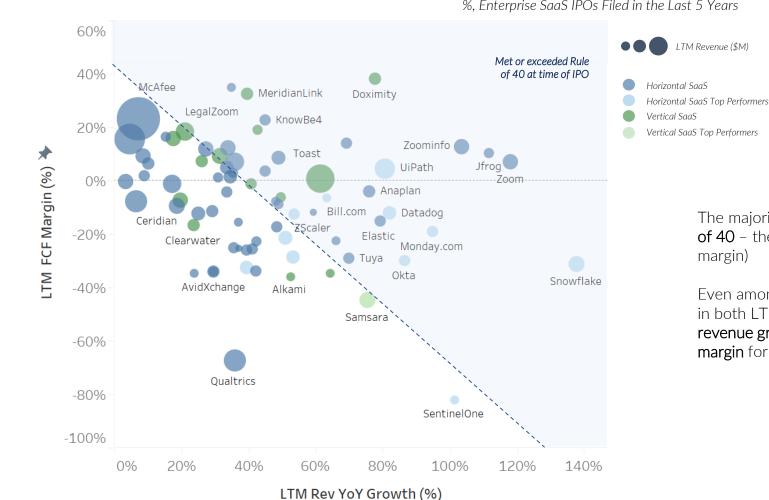


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## DRIVING ONGOING PERFORMANCE Rule of 40: Growth vs Profitability



While the majority of these top performers experienced growth greater than 70% YoY in the year leading up to IPO, only 4 of them were profitable at time of IPO



#### **RULE OF 40: LTM YOY REVENUE GROWTH + FCF MARGIN**

%, Enterprise SaaS IPOs Filed in the Last 5 Years

LTM Revenue (\$M)

The majority of top performers **meet or exceed the Rule** of 40 - the majority which are driven by growth (vs. FCF margin)

Even amongst top performers, however, there is a range in both LTM growth and FCF margin metrics. Median revenue growth hovers around ~70% and ~(20%) for FCF margin for this subset in the year leading up to IPO.



Note: Information provided as of 1/31/22 Source: Factset, Public Filings for Software IPO June 2013 to December 2021

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## DRIVING ONGOING PERFORMANCE Profitability: Surrounding IPO

Most public software companies are not profitable prior to IPO, with 70% of top performers cash flow negative in the twelve months leading up to IPO

#### **PROFITABILITY: AVERAGE FCF BY SCALE AT IPO**

FCF (\$M) and Implied Margin (%) By Year and Revenue Range

All Companies Top Performers

	LTM Revenue at Time of IPO	<b>&lt;\$50M</b> n=4	Margin	<b>\$50-\$100M</b> n=12	Margin	<b>\$100-\$150M</b> n=21	Margin	<b>\$150-\$200M</b> n=10	Margin	<b>200M+</b> n=59	Margin
03	FY-2	-\$6   N/A	N/A N/A	-\$4	-14% -48%	-\$3	27% -4%	-\$6	-8% 0%	-\$19	-27% -49%
04	FY-1	-\$15 N/A	-30% N/A	-\$11 -\$23	-12% -47%	-\$24 -\$1	-42% -2%	-\$17 -\$7	-11% -7%	-\$19 -\$80	-18% -59%
05	FY-0	-\$18 N/A	-26% N/A	-\$19 -\$41	-17% -47%	-\$26 \$0	-28% 0%	-\$8 \$8	-4% 6%	-\$2 -\$59	-7% -28%
06	FY+1	-\$27 N/A	-25% N/A	N/A -\$64	-7% -40%	N/A -\$3	-18% -2%	-\$5	1% 10%	N/A -\$63	1% -20%
	FY+2	-\$18 N/A	-6% N/A	N/A -\$43	N/A -14%	N/A -\$3	-8% -1%	\$O \$35	2% 14%	N/A -\$30	13% -10%
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## driving ongoing performance Gross Margin

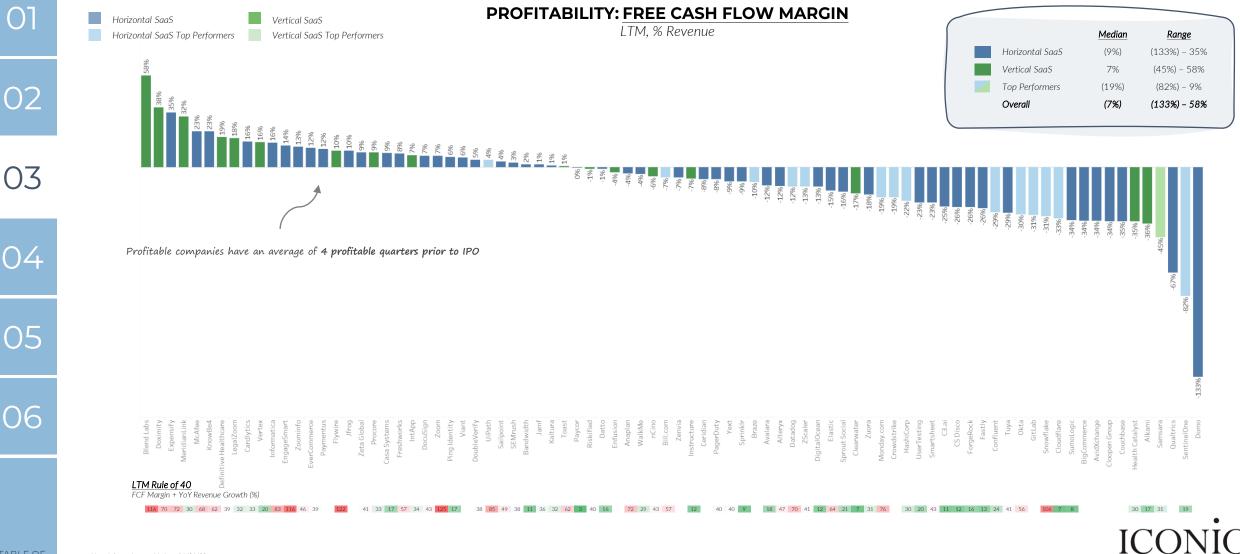




## DRIVING ONGOING PERFORMANCE Profitability: LTM FCF at Time of IPO



#### At time of IPO, the majority of software companies are free-cash-flow negative, with only ~43% profitable



## DRIVING ONGOING PERFORMANCE Profitability: FCF at IPO

However, within two fiscal years of IPO, ~half of public software companies analyzed are FCF positive

#### **PROFITABILITY: FCF BY YEAR SURROUNDING IPO**

By Year Surrounding IPO, Where FY+2 Actuals Available



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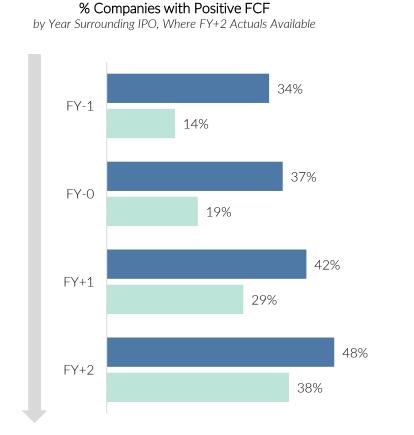
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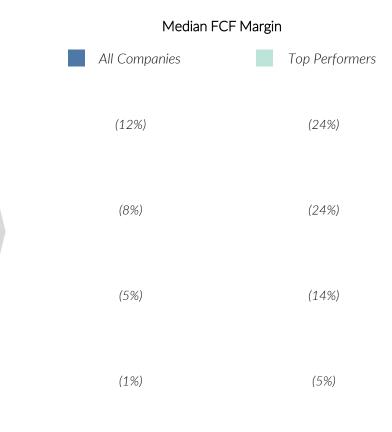
~2 years post IPO, 05

almost 50% of companies are profitable

06

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## DRIVING ONGOING PERFORMANCE Equity Raised vs. Burn



SaaS companies raised a median of \$234M prior to IPO with a median LTM operating margin of -19%; not surprisingly, companies who raised more capital prior to IPO were less cash conscious with lower operating margins leading up to IPO

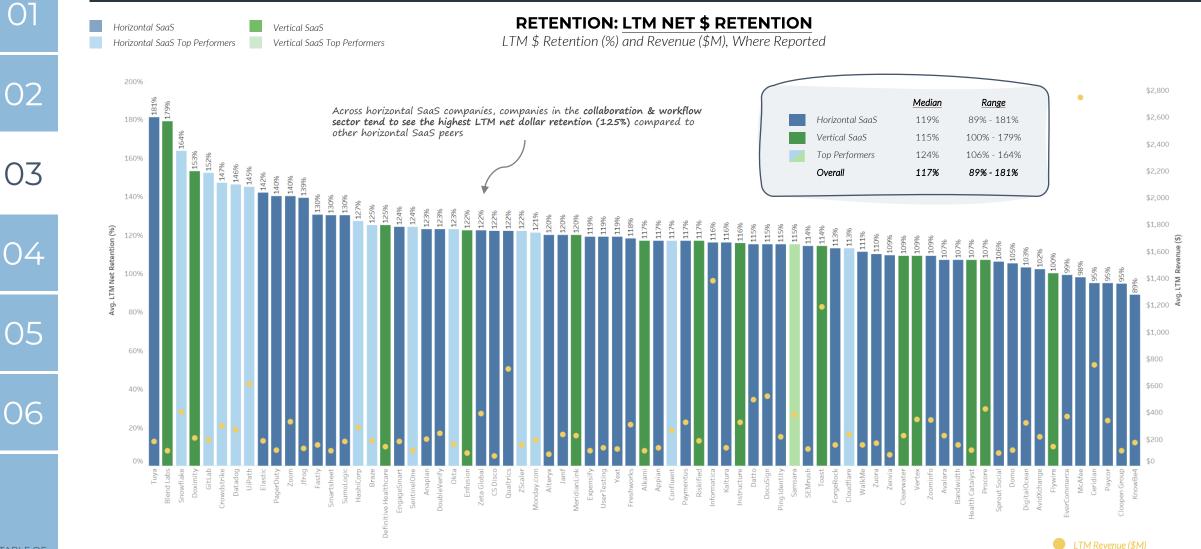
#### O1EQUITY RAISED VS. BURN: TOTAL FUNDING AMOUNT AND LTM OPERATING MARGIN Total Funding Amount Raised (\$M), LTM Operating Margin (%) at Time of IPO 02 Total Funding Amount 69% % (\$M) 03-27% 31% 04LTM Operating Margin (%) 05Horizontal SaaS Vertical SaaS Horizontal SaaS Top Performers Vertical SaaS Top Performers 06 Ulipath Snowflake VuidKchange VuidKchange Samsara Toast LegalZoom bomo SentinelOne Blend Labs Procore Blend Labs Procore Zeta Global NoubleVerify DocuSign Procore Sprinklr Alkami alth. Catalyst HashiCorp Avalara Sprinklr Avalara Avalara SumoLogic Cloudflare Flywire Wonday.corr Tuya Avalara Avalara Avalara Braze gigCommerce Cardlytici Braze PagerDuty Kalturi Alteryo Cardistrici Braze PagerDuty Kalturi Alteryo Cardistrici Ca



# Retention: LTM Net \$ Retention



While average reported net retention likely skews high given the self-selective nature of disclosing this metric, median performance hovers around ~117%, with companies reporting retention as high as ~180% prior to IPO



# DRIVING ONGOING PERFORMANCE Operating Expenses: LTM OpEx at Time of IPO



Operational efficiency has ranged widely across recent IPOs, but top performers typically have a higher OpEx spend than peers, with total OpEx as a percentage of revenue as low as 53% and as high as 194%

#### O1**OPERATING EXPENSES: TOTAL OPEX AS A % OF REVENUE LEADING UP TO IPO** LTM OpEx Split by Type over LTM Revenue at Time of IPO (%) Horizontal SaaS Vertical SaaS Horizontal SaaS Top Performers Vertical SaaS Top Performers 02 G&A Median Range Horizontal SaaS 85% 25% - 207% 03 Vertical SaaS 65% 34% - 137% 53% - 194% **Top Performers** 107% R&D 82% Overall 25% - 207% 04S&M 05 06 sentinelOne fonday.com Confluent Snowflake Blend Labs Qualtrics Smartsheet Couchbase PagerDuty SumoLogic Couchbase PagerDuty SumoLogic PagerDuty SumoLogic Cloudflare irowdstrike Jeastic Jeastic Samsara Anaplan Jeastic Jeastic Datadog Reaze Braze Braze Braze Braze Datadog Rease Alkami Datadog Rease SeMrush Bill.com Bill.com Bill.com Bill.com Crook Braze Datadog reshworks Bill.com Braze Paycor SeMrush Bill.com Crook Braze Datadog Fastly Fastly IntApp Sailpoint Kaltura Lund Datadog Selfywire Semusta Enfusion uubieVerrif ng Identitit Glearwate gageSmar Verte Duck Creel gitalOcean Riskifier Riskifier Riskifier Riskifier Anormaticu Hormaticu Hormaticu LegalZoon infu tituve H. Zoominfi Dattk Zoominfi Dattk Cardlytic ercommer Sandwickl Bandwickl Bandwickl Bandwickl LTM OpEx \$

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Note: Information provided as of 1/31/22 Source: Factset, Public Filings for Software IPO June 2013 to December 2021

# DRIVING ONGOING PERFORMANCE Operating Expenses: S&M Detail



S&M generally makes up the largest portion of total OpEx at time of IPO, at which point businesses have achieved significant leverage in R&D and G&A and are focused on sustaining customer base growth

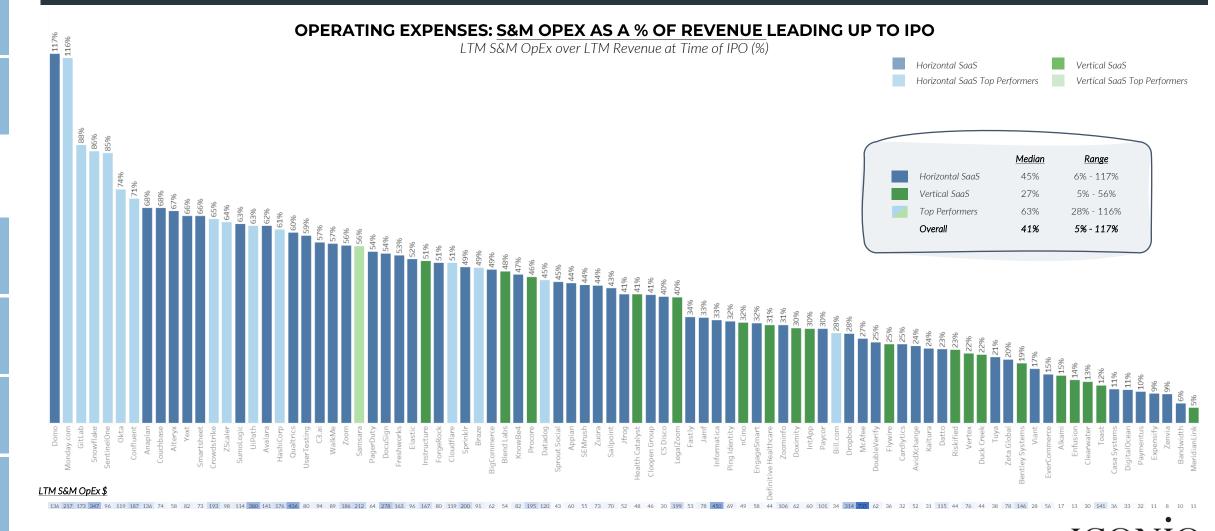


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# DRIVING ONGOING PERFORMANCE Operating Expenses: R&D Detail



R&D spend will vary based on product and development cycle, but has historically stayed below ~45% revenue across public software companies analyzed with the exception of a few outliers

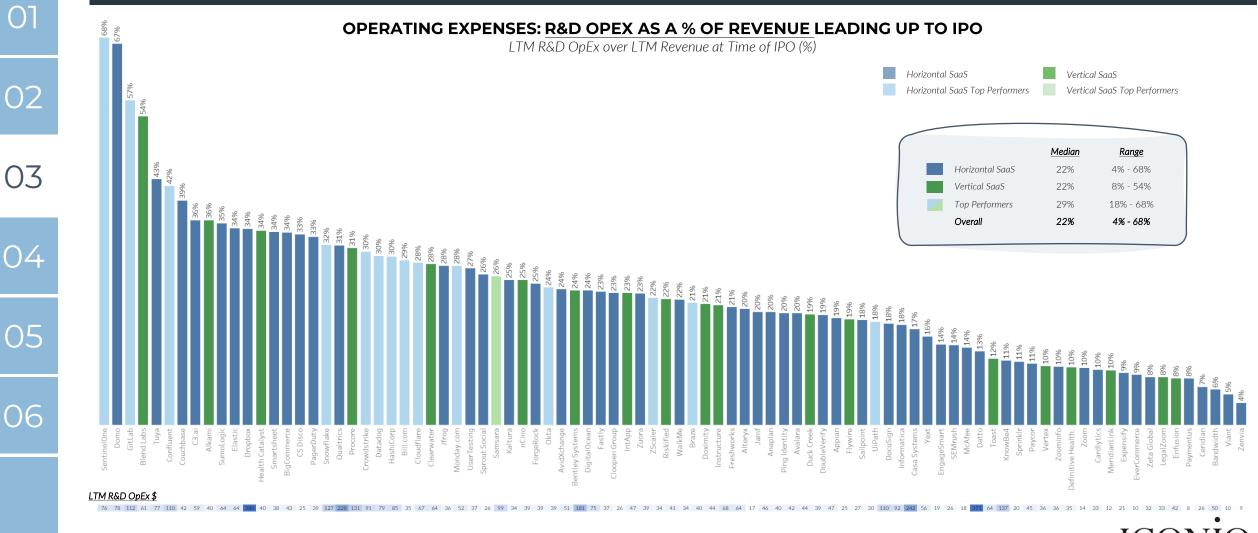


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# Operating Expenses: G&A Detail



G&A spend is almost always the smallest component of overall OpEx, but also varies quite widely across recent IPOs

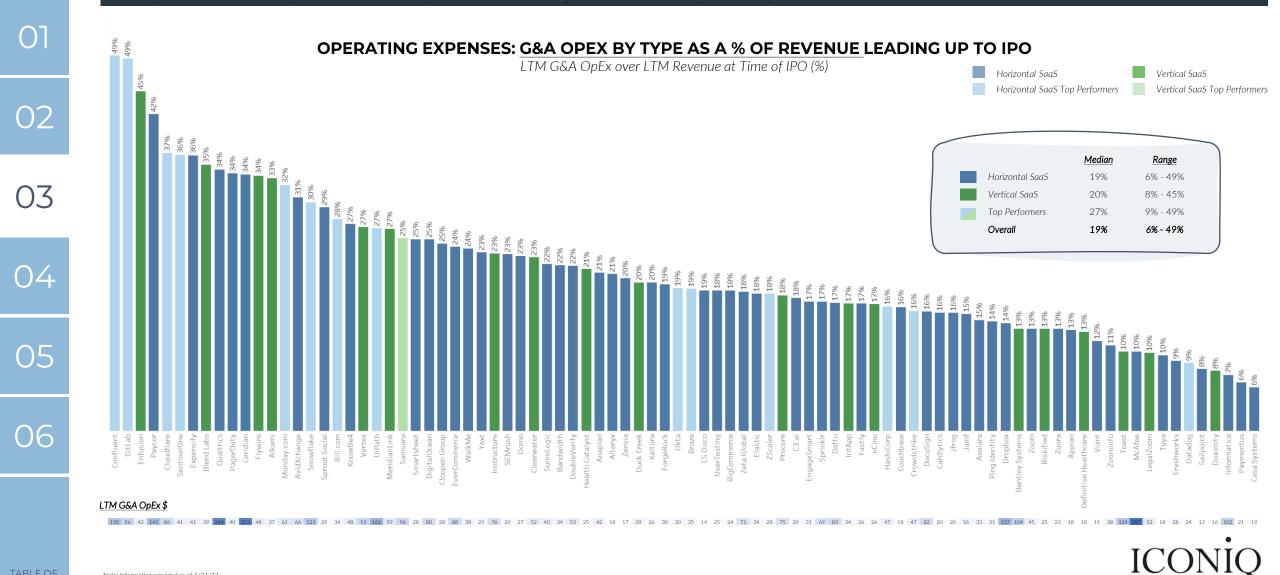


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#### Note: Information provided as of 1/31/22 Source: Factset, Public Filings for Software IPO June 2013 to December 2021

# driving ongoing performance Total Employees



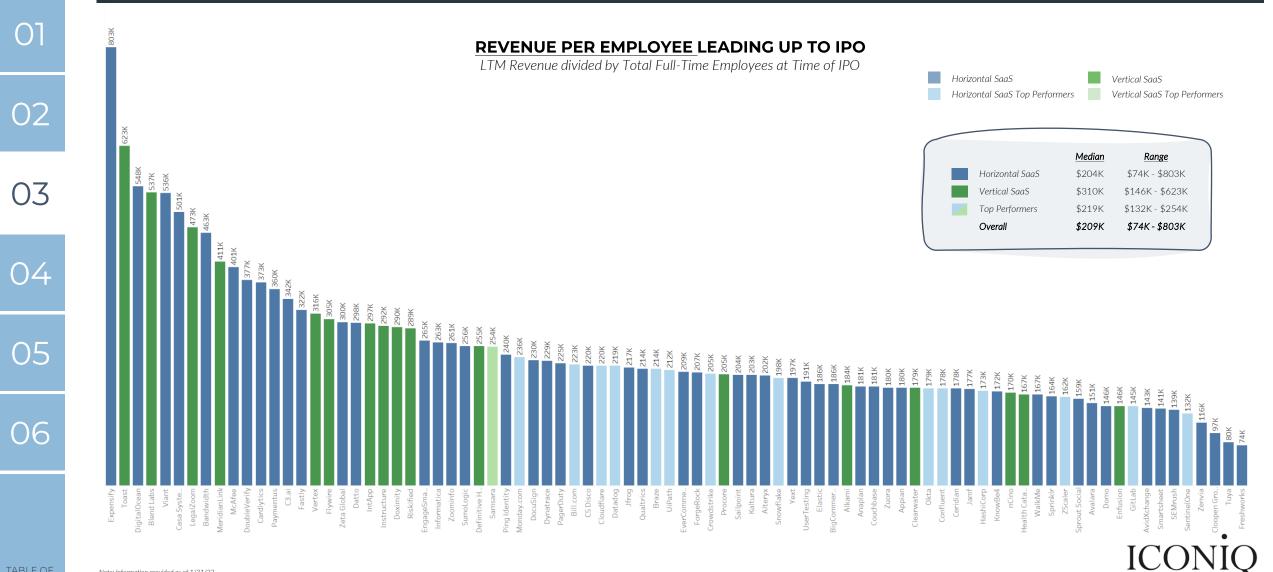


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# driving ongoing performance Revenue per Employee

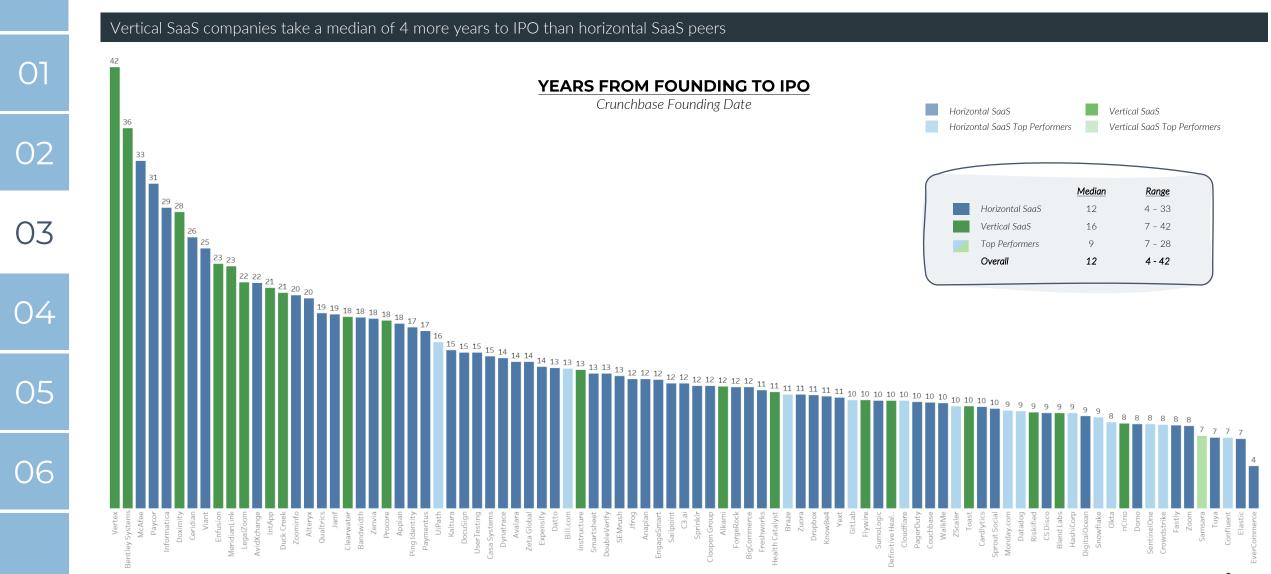




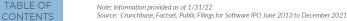


# driving ongoing performance Years to IPO





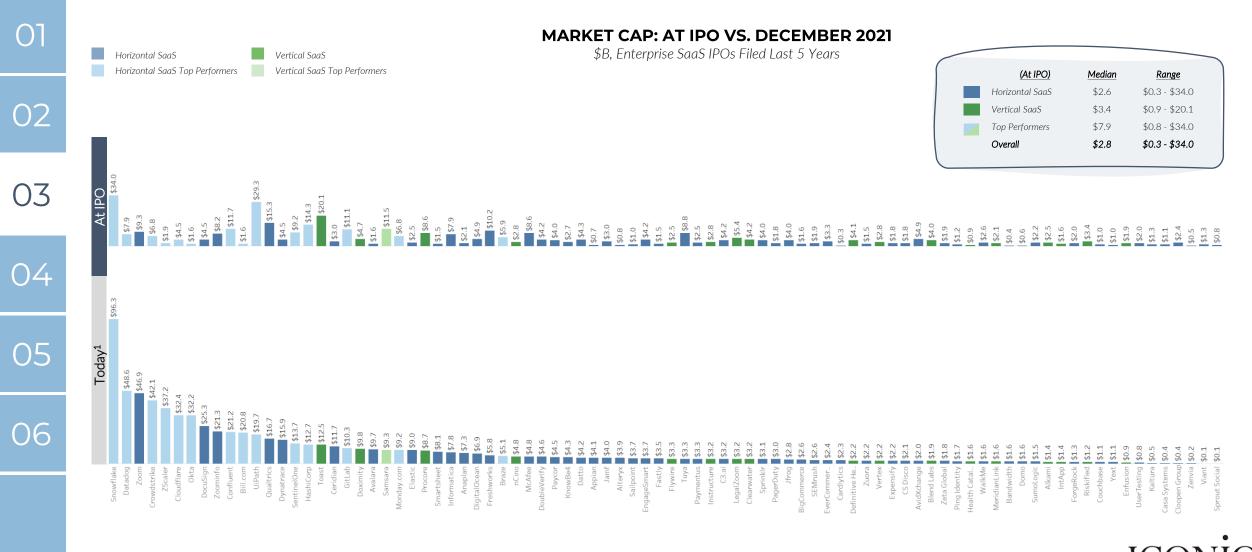
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# driving ongoing performance Market Cap



## Since IPO, top performing public software companies have all been able to steadily grow market cap, with Snowflake tripling its market cap since IPO



Notes: (1) IPO multiples reflects basic shares outstanding for market cap as received from Investment Banking pricing materials; (2) Market Cap at IPO based on IPO price (3) Information provided as of

1/31/22 Source: FactSet, Public Filings for Software IPO June 2013 to December 2021

# DRIVING ONGOING PERFORMANCE **IPO** Sizing



Vertical SaaS

Median

12%

10%

9%

11%

Vertical SaaS Top Performers

Range

5% - 35%

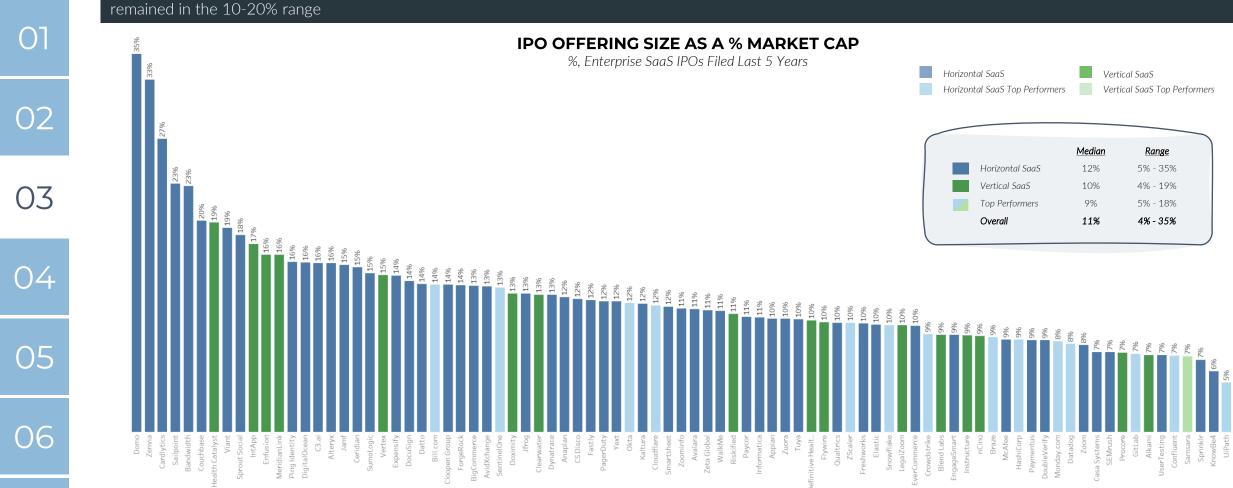
4% - 19%

5% - 18%

4% - 35%

360 574 648 751 78 140 634 801 180 140 828 805 266 152 1338 870

117 3319 6779 3997 4201 2804 2816 5920 8637 **14312** 2467 4232 6835 7923 9343 1053 1899 8648 **11052** 2521 1972 **117001150**5



## IPO Offering (\$M)

Market Cap at IPO (\$M)

4894 9170 4724 3972 4248 4487 2112 1820 1478 1799 958 1571 1263 4479 1510 3528 8174 1585 1908 2562 3365 4004 7937 716 1472 8796 4069 2475 15334

Notes: (1) IPO multiples reflects basic shares outstanding for market as received from Investment Banking pricing materials; (2) Market Cap at IPO based on IPO price (3) Information provided as of 1/31/22

Source: FactSet, Public Filings for Software IPO June 2013 to December 2021

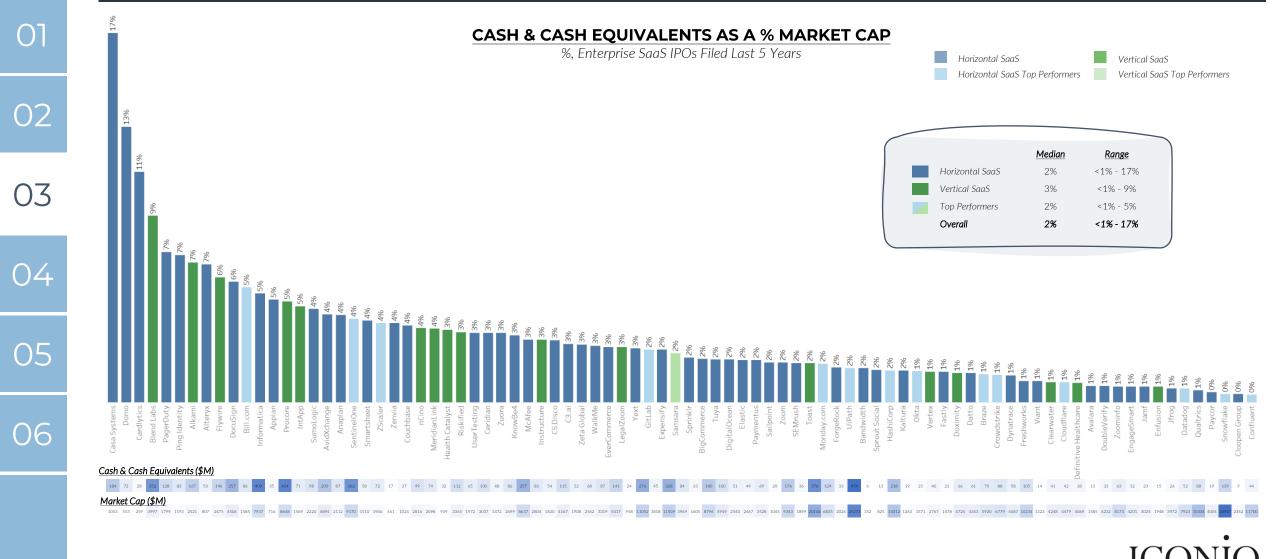
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IPO offering size relative to market cap has varied from 4 to 35% across enterprise SaaS IPOs in the past ~7 years – however, the majority of companies have

# DRIVING ONGOING PERFORMANCE Liquidity: Cash at Time of IPO



Pre-IPO, software companies analyzed typically have cash and cash equivalents of less than ~13% total market cap



Notes: (1) IPO multiples reflects basic shares outstanding for market cap as received from Investment Banking pricing materials; (2) Market Cap at IPO based on IPO price (3) Information provided as of 1/31/22

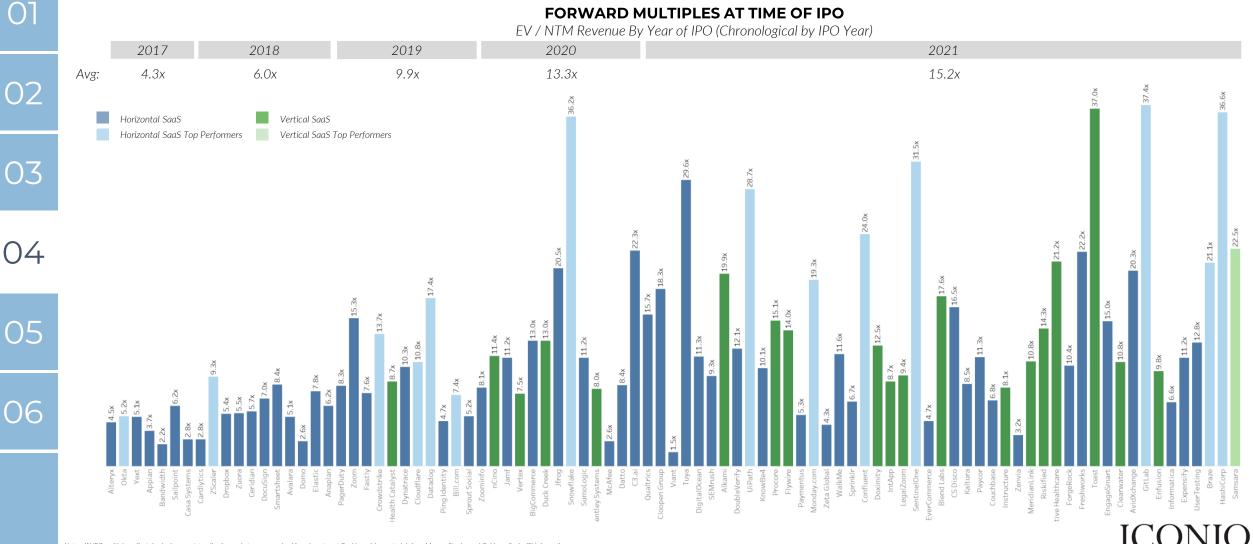
Source: FactSet, Public Filings for Software IPO June 2013 to December 2021

# VALUATION & TRADING MULTIPLES

## VALUATION & TRADING MULTIPLES Pricing: Trading Multiples at Time of IPO



Multiples paid have been steadily rising over the past few years, with average forward multiples in 2021 exceeding all years analyzed since 2013; given the current market, it will be interesting to see where 2022 IPOs price



Notes: (1) IPO multiples reflects basic shares outstanding for market cap as received from Investment Banking pricing materials from Morgan Stanley and Goldman Sachs (2) Information provided as of 1/31/22 Source: FactSet, Wall Street Research and Investment Banking materials from Morgan Stanley and Goldman Sachs

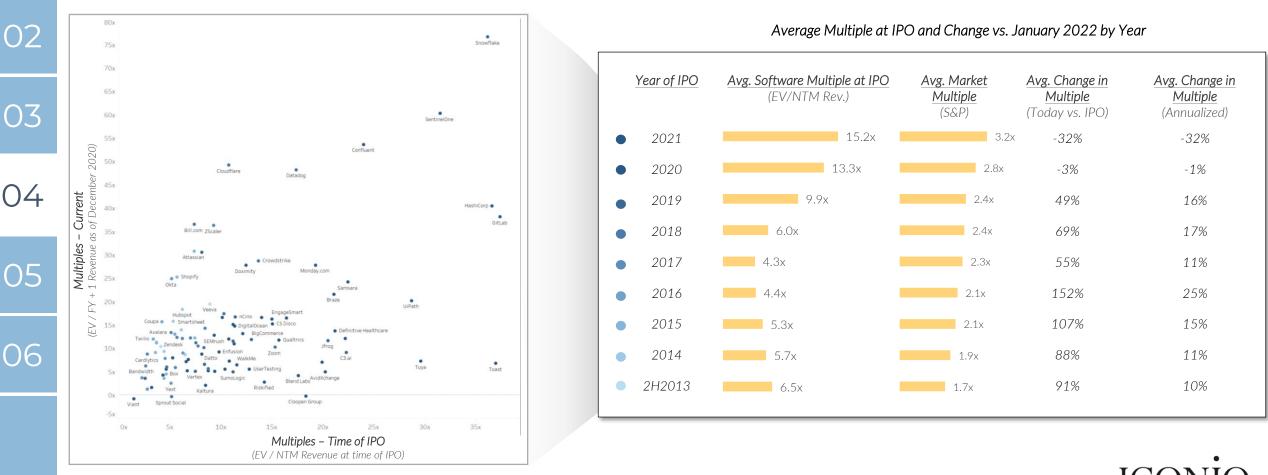
# VALUATION & TRADING MULTIPLES Trading Multiples by Year

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Multiples for software companies continue to increase, with 2021 average multiples reaching an all-time high; despite having the highest multiples at time of IPO, the 2021 cohort also saw the biggest decrease in valuation post IPO

MULTIPLES AT TIME OF IPO VS. DECEMBER 2021

Forward Revenue Multiples, By Year of IPO



Notes: (1) IPO multiples reflects basic shares outstanding for market cap as received from Investment Banking pricing materials from Morgan Stanley and Goldman Sachs (2) Information provided as of 1/3/1/22 Source: FactSet, Wall Street Research and Investment Banking materials from Morgan Stanley and Goldman Sachs

# IPO STRUCTURE & BANKER SELECTION

# Deal Economics: By Number of Bookrunners

Historically, the majority of IPOs analyzed had either 2 or 3 bookrunners, with average lead left allocation consistently between ~32-40%, regardless of bank. In recent years, lead left allocation has remained consistent but more IPOs have had 4+ bookrunners.

#### STRUCTURE & ECONOMICS OF RECENT SOFTWARE IPOS BY NUMBER OF BOOKRUNNERS

2	<b>2 Bookrunners</b> (15% Deals Evaluated)					<b>3 Bookrunners</b> (21% Deals Evaluated)				<b>4 Bookrunners</b> (25% Deals Evaluated)			
3	Lead Left (% Deals with X Bookrunners)	Overall	53%	29%	18%	Overall	50%	33%	17%	Overall	50%	43%	7%
		Overall	<u>Morgan</u> Stanley	<u>Goldman</u> <u>Sachs</u>	Other	Overdin	<u>Morgan</u> Stanley	<u>Goldman</u> <u>Sachs</u>	Other	Overdi	<u>Morgan</u> Stanley	<u>Goldman</u> <u>Sachs</u>	Other
4	<u>% Allocation:</u> Lead Left	37%	38%	37%	36%	37%	36%	40%	34%	34%	34%	34%	33%
	2 <sup>nd</sup> Bookrunner	29%	28%	28%	32%	28%	27%	31%	24%	26%	24%	27%	29%
)5	3 <sup>nd</sup> Bookrunner					15%	17%	13%	18%	13%	14%	12%	10%
	4 <sup>th</sup> Bookrunner									10%	14%	12%	10%
6	<u>Co-Managers</u>												
	Average # Co-managers	6.2	6.9	6.6	3.7	4.3	4.4	3.9	4.5	5.4	5.4	5.5	4.0
	Total % Allocation to Co-managers	34%	33%	35%	32%	19%	20%	17%	24%	27%	27%	27%	26%

Book-runners, Co-managers, and Respective Allocations

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# Deal Economics: Co-Managers

The most common deal structures have historically had either 3 or 4 co-managers, with anywhere from 3 to 6% being allocated to each

### STRUCTURE & ECONOMICS OF RECENT SOFTWARE IPOS BY NUMBER OF CO-MANAGERS

Bookrunners, Co-managers, and Respective Allocations

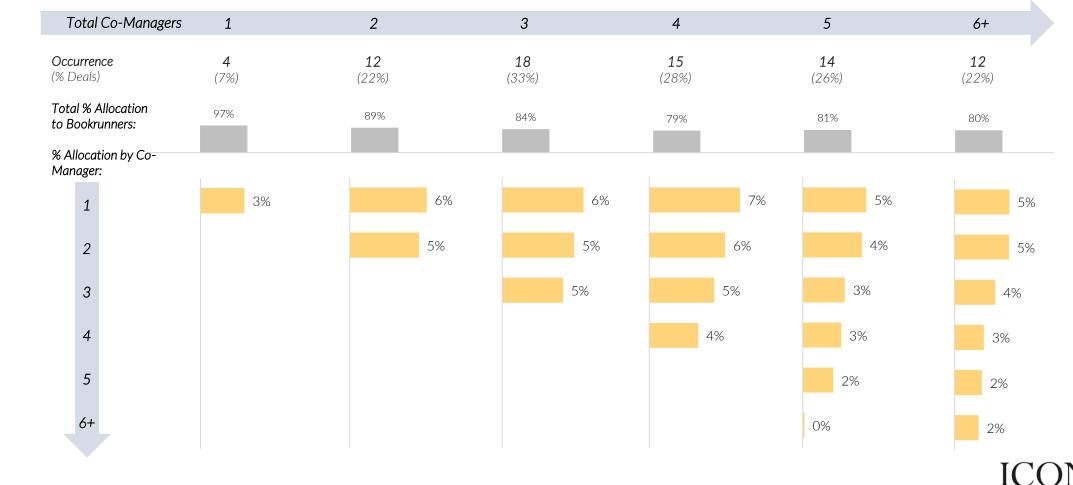


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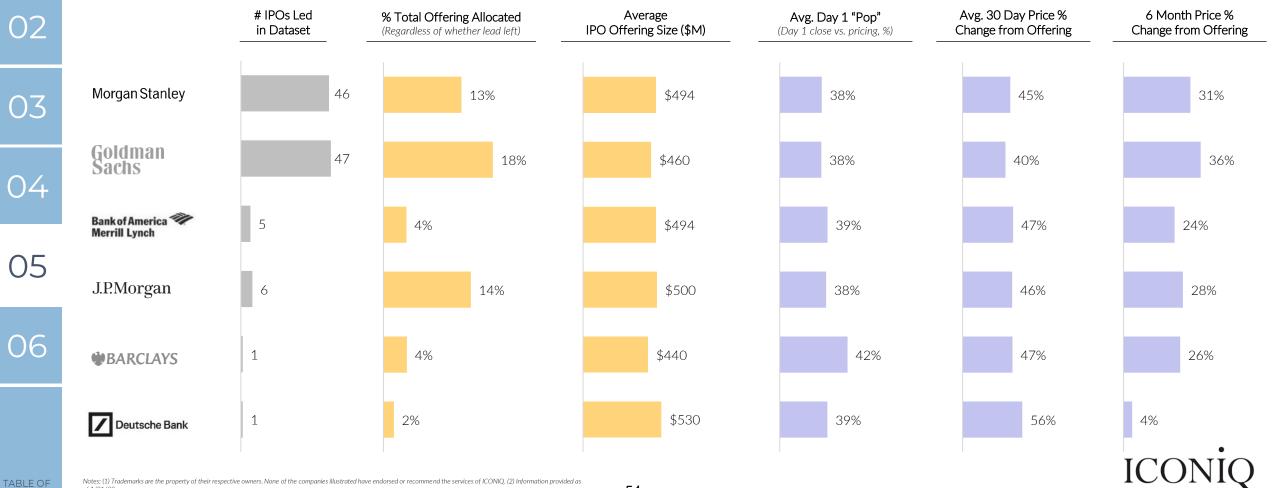
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# Deal Economics: By Lead Left

Across the 111 IPOs included in this analysis, Morgan Stanley was the most common lead left bookrunner with 33% allocation across all deals (whether or not leading)

## SOFTWARE IPO ECONOMICS, STRUCTURE, PERFORMANCE: BY MOST COMMON BOOKRUNNERS



of 1/31/22 Source: Factset, Public Filings for Software IPO June 2013 to December 2021

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# Deal Economics: By Co-Manager

Average co-manager allocation typically remains in the 4-5% range; KeyBanc/Pacific Crest has been the most common co-manager in the past ~7 years, typically with the largest allocation amongst co-managers

### SOFTWARE IPO ECONOMICS, STRUCTURE, PERFORMANCE: BY MOST COMMON CO-MANAGERS

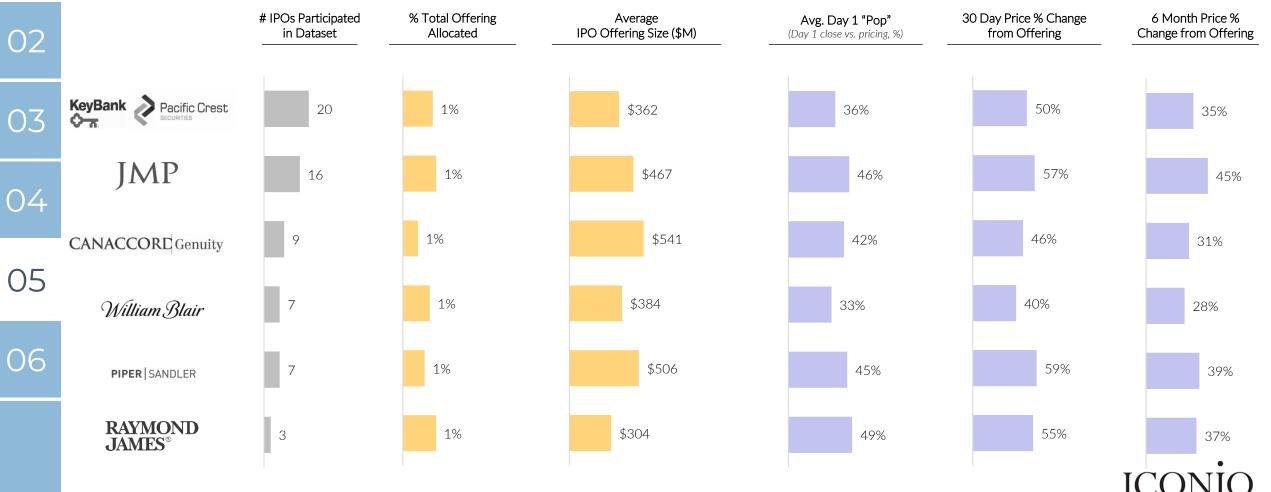
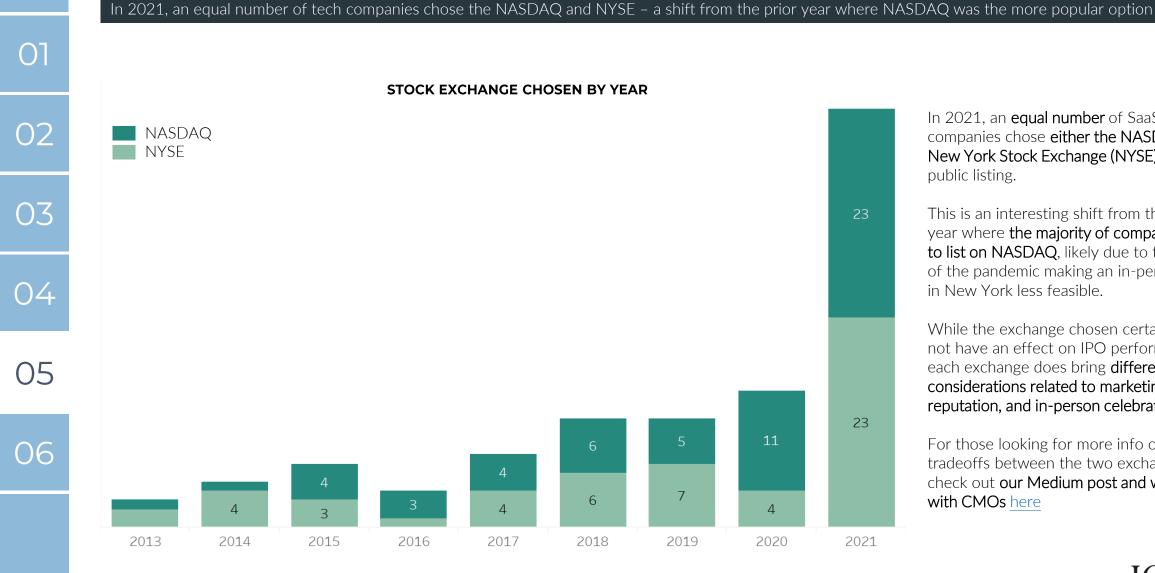


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Notes: (1) Trademarks are the property of their respective owners. None of the companies illustrated have endorsed or recommend the services of ICONIQ. (2) Information provided as of 1/31/22 Source: Factset, Public Filings for Software IPO June 2013 to December 2021

# 2021 TRENDS Which stock exchange should you choose?



In 2021, an equal number of SaaS companies chose either the NASDAQ or New York Stock Exchange (NYSE) for their public listing.

This is an interesting shift from the prior year where the majority of companies chose to list on NASDAQ, likely due to the effects of the pandemic making an in-person IPO in New York less feasible.

While the exchange chosen certainly does not have an effect on IPO performance; each exchange does bring different considerations related to marketing, reputation, and in-person celebrations

For those looking for more info on tradeoffs between the two exchanges, check out our Medium post and webinar with CMOs here

# **MEET THE TEAM**

## PROFESSIONALS WITH EXPERIENCE ACROSS OPERATING, CONSULTING, & INVESTING











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Kelsey McGregor **Operations Analytics** kmcgregor@iconiqcapital.com

## Leland Speth

Data Analytics lspeth@iconiqcapital.com







# APPENDIX

# APPENDIX Public Disclosure of Key Metrics: IPO vs Ongoing

Based on benchmarking of 133 software companies, 95% of companies have disclosed number of customers and 87% a dollar-based net retention figure at the time of IPO; the majority continue ongoing disclosure in 10-Ks and 10-Qs

TO		Software	IPO Disclosure		Ongoing Disclosure					
			/ 424B4s		10-K s		10-Qs			
02	Metric	# of Companies	% Total	# of Companies	% Total	# of Companies	% Total			
	Number of Customers	127	9	5% 74	89%	84	65%			
03	Net Retention / Expansion Analysis	116	879	6 64	77%	74	57%			
	Cohort Analysis	72	54%	36	43%	45	35%			
	# of Large Customers	65	49%	5	6%	0	0%			
04	Non-GAAP FCF	58	44%	38	46%	54	42%			
	Backlog	56	42%	23	28%	50	39%			
$\cap \Gamma$	Contribution Margin	46	35%	23	28%	35	27%			
05	Bookings / Billings	44	33%	22	27%	23	18%			
	Active Users	39	29%	15	18%	15	12%			
06	Non-GAAP EBITDA	38	29%	31	37%	31	24%			
	ARR	38	29%	20	24%	32	25%			
	Number of Enterprise Accounts	25	19%	17	20%	17	13%			
	ACV	12	9%	7	8%	4	3%			
	CAC	3	2%	1	1%	1	<sup>1%</sup> ICONIC			
TABLE OF	Notes: (1) Net retention / expansion includes company specific retention rates (e.g., subscription revenue retention); (2) Contribut contribution margin (3) Information provided as of 1/31/22 Source: Factset, Public Filings for Software IPO June 2013 to December 2021	ion margin reflects a non-GAAP margin o	adjusted or net 59							

# APPENDIX Public Disclosure of Key Metrics: Company Detail at IPO

At IPO Quarterly Annually

During the time of IPO, most software companies disclose key metrics on customer performance beyond retention / expansion rates, in particular number of customers and performances of cohorts



Notes: (1) Net retention / expansion includes company specific retention rates (e.g., subscription revenue retention); (2) Contribution margin reflects a non-GAAP margin adjusted or net contribution margin (3) Information provided as of 1/31/22 Source: Factset, Public Filings for Software IPO June 2013 to December 2021

# APPENDIX Public Disclosure of Key Metrics: Company Detail at IPO

At IPO Quarterly Annually

During the time of IPO, most software companies disclose key metrics on customer performance beyond retention / expansion rates, in particular number of customers and performances of cohorts



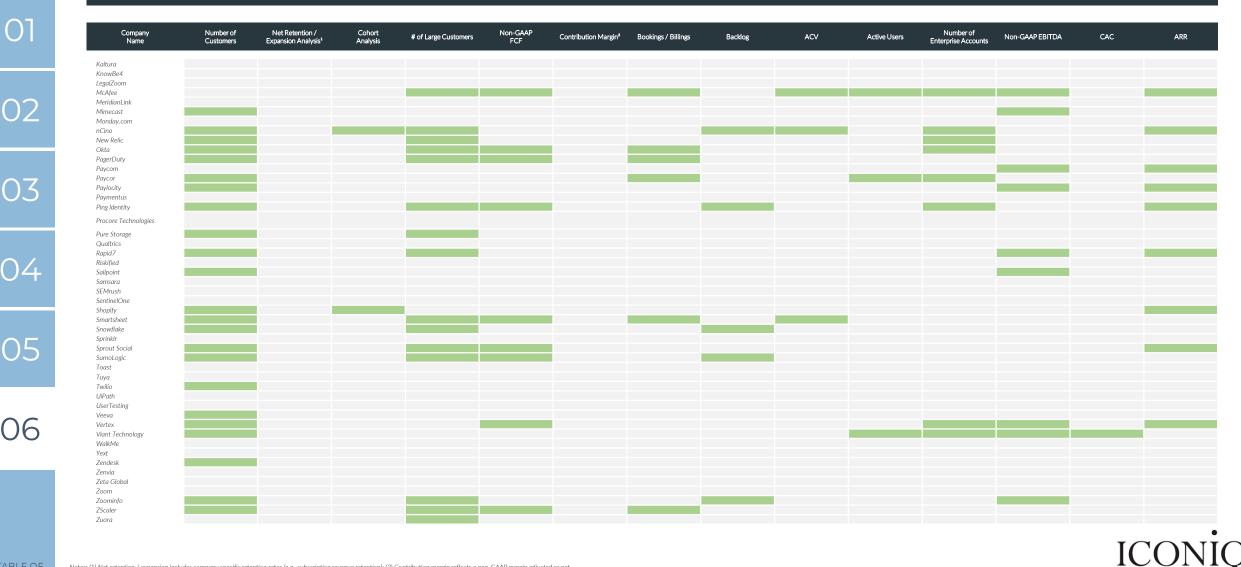
# APPENDIX Public Disclosure of Key Metrics: Company Detail Annually

On an annual basis, software companies have seen significant disclosure reduction for customer performance, while most best of breed companies still disclose number of customers and net retention / expansion rates



# APPENDIX Public Disclosure of Key Metrics: Company Detail Annually

On an annual basis, software companies have seen significant disclosure reduction for customer performance, while most best of breed companies still disclose number of customers and net retention / expansion rates



# APPENDIX Public Disclosure of Key Metrics: Company Detail Quarterly

At IPO Quarterly Annually

On a quarterly basis, software companies have maintained consistent disclosure practices to the annual filings



ICON

Notes: (1) Net retention / expansion includes company specific retention rates (e.g., subscription revenue retention); (2) Contribution margin reflects a non-GAAP margin adjusted or net contribution margin (3) Information provided as of 1/31/22 Source: Factset, Public Filings for Software IPO June 2013 to December 2021

# APPENDIX Public Disclosure of Key Metrics: Company Detail Quarterly

At IPO Quarterly Annually

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On a quarterly basis, software companies have maintained consistent disclosure practices to the annual filings



Notes: (1) Net retention / expansion includes company specific retention rates (e.g., subscription revenue retention); (2) Contribution margin reflects a non-GAAP margin adjusted or net contribution margin (3) Information provided as of 1/31/22 Source: Factset, Public Filings for Software IPO June 2013 to December 2021

# APPENDIX Case Study: Horizontal SaaS

## "Top Performer" Profile Leading Up to and Post-IPO



Snowflake provides a data warehouse built for the cloud

NYSE: SNOW IPO Date: 9/16/2020 IPO Price: \$120 Current Stock Price<sup>1</sup>: \$341

## Performance to Date

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#### Strong performance driven by:

- Successful expansion of product and customer base
  - Continued addition and improvement of features, leveraging the elasticity and performance of the public cloud
  - Used globally by organizations of all sizes across a broad range of industries

#### • Differentiated product

- Decoupled architecture that allows for compute and storage to scale separately
- Cloud agnostic, with seamless scalability across AWS, Azure, and Google Cloud

#### STOCK PRICE PERFORMANCE TO DATE

Source: Factset, Public Filings for Software IPO June 2013 to December 2021



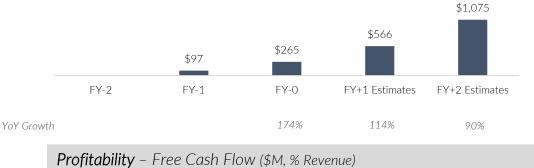
Notes: (1) "Current" represents data as of 1/31/22; (2) Market Cap based on IPO price; (3) Cash & Cash Equivalents not inclusive of IPO proceeds (4) Trademarks are the property of their respective owners. None of the companies illustrated have endorsed or recommend the services of ICONIQ (5) The case studies presented herein are for illustrative purposes only. No assumption should be made that the investments described herein were or will be profitable, or that investments made in the future will be comparable to those described herein. References to investments included herein should not be construed as a recommendation of any particular investment.

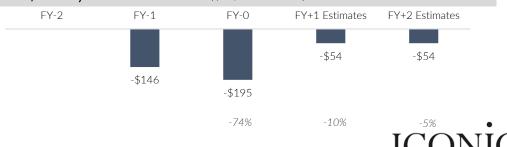
### Key Metrics at IPO (LTM or Time of IPO)

	<b>snowflake</b>	– Median Horizontal SaaS
Revenue:	\$403M	\$177M
YoY Growth:	138%	42%
Gross Margin:	61%	71 <b>%</b>
FCF:	-\$126M	-\$11M
Rule of 40:	106%	38%
Total Operating Expenses:	\$595M	\$154M
Market Cap:	\$33,957M	\$2,070M
Cash & Cash Equivalents:	\$139M	\$60M

### Scale & Growth - Revenue (\$M, YoY Growth)

FCF Margin





# APPENDIX Case Study: Horizontal SaaS

## "Top Performer" Profile Leading Up to and Post-IPO

🔶 GitLab

GitLab is an open-source DevOps software platform

 NYSE: GTLB
 IPO Price: \$77

 IPO Date: 10/13/2021
 Current Stock Price<sup>1</sup>: \$89

### Performance to Date

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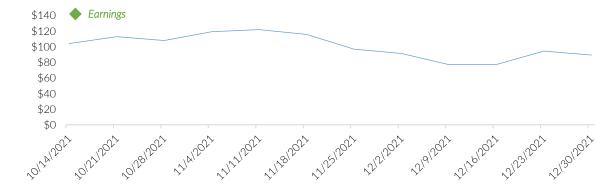
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#### Strong performance driven by:

- Strong net retention and viral adoption
  - Land-and-expand sales strategy that begins with developers and expands to teams and senior buyers
  - "Best in class" dollar based net retention (~152%) and strong viral adoption driven by open-source community
- Product-driven strategy
  - Product-driven organization with rapid iterative feature releases every month
  - Consistently high gross margins driven by GitLab's on-prem product

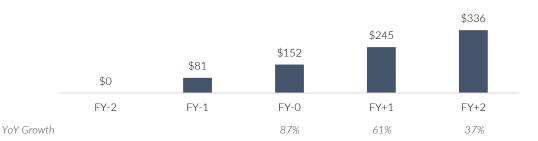
STOCK PRICE PERFORMANCE TO DATE



Key Metrics at IPO (LTM or Time of IPO)

	🔶 GitLab	– Median Horizontal SaaS
Revenue:	\$196M	\$177M
YoY Growth:	87%	42%
Gross Margin:	88%	71%
FCF:	-\$60M	-\$11M
Rule of 40:	38%	38%
Total Operating Expenses:	\$381M	\$154M
Market Cap:	\$11,052M	\$2,070M
Cash & Cash Equivalents:	\$276M	\$60M

### Scale & Growth - Revenue (\$M, YoY Growth)

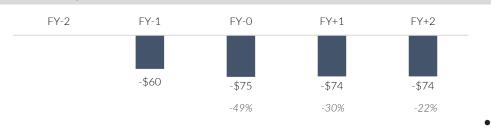


## Profitability – Free Cash Flow (\$M, % Revenue)

FCF

Margin

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Notes: (1) "Current" represents data as of 1/31/22; (2) Market Cap based on IPO price; (3) Cash & Cash E Qash  APPENDIX Case Study: Horizontal SaaS

## "Top Performer" Profile Leading Up to and Post-IPO

Shopify is an e-commerce platform that allows merchants to sell online, ship and process payments

NYSE: SHOP IPO Date: 5/21/2015 IPO Price: \$17 Current Stock Price<sup>1</sup>: \$1,398

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## Performance to Date

#### Strong performance driven by:

- Partnerships and extensive app store
  - 5K+ apps on its app store and extensive partner network with 37K+ agencies and web designers

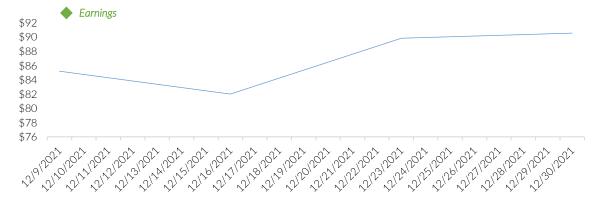
shopify

Partnership with Facebook and Affirm to expand payment solutions

#### • Transition from single product to all-in one e-commerce platform

• Set up initially as a tool for merchants to build their own sites, Shopify has become a platform with both merchant (payments, shipping, etc.) and subscription solutions (apps, domain sales, etc.)

#### STOCK PRICE PERFORMANCE TO DATE

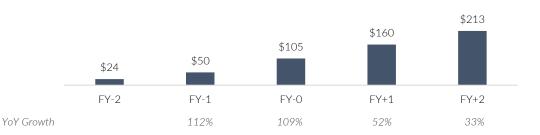


Notes: (1) "Current" represents data as of 1/31/22; (2) Market Cap based on IPO price; (3) Cash & Cash Equivalents not inclusive of IPO proceeds (4) Trademarks are the property of their respective owners. None of the companies illustrated have endorsed or recommend the services of ICONIQ (5) The case studies presented herein are (or illustrative purposes only. No assumption should be made that the investments described herein were or will be profitable, or that investments made in the future will be comparable to those described herein. References to investments included herein should not be construed as a recommendation of any particular investment Source: Foctset. Public Films for Software IPO June 2013 to December 2021

### Key Metrics at IPO (LTM or Time of IPO)

	🛐 shopify	– Median Horizontal SaaS
Revenue:	\$124M	\$177M
YoY Growth:	106%	42%
Gross Margin:	58%	71%
FCF:	\$18M	-\$11M
Rule of 40:	121%	38%
Total Operating Expenses:	\$91M	\$154M
Market Cap:	\$1,285M	\$2,070M
Cash & Cash Equivalents:	\$60M	\$60M

### Scale & Growth - Revenue (\$M, YoY Growth)



## **Profitability** – Free Cash Flow (\$M, % Revenue)

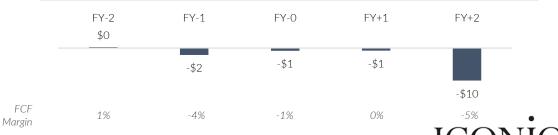


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## APPENDIX Case Study: Vertical SaaS

## "Top Performer" Profile Leading Up to and Post-IPO

	V	U

Veeva offers a suite of cloud-based business solutions for the global life sciences industry

NYSE: VEEV IPO Date: 10/16/2013 IPO Price: \$20 Current Stock Price<sup>1</sup>: \$260

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## Performance to Date

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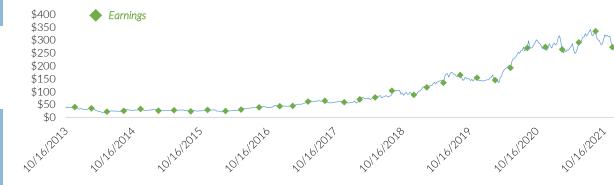
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#### Strong performance driven by:

- Continued growth and efficiency
  - Steadily increasing gross margin to >70%
  - Acquisition of increasingly large customers
- Successful product expansion
  - Built suite of modules on top of original product, expanding revenue and upsell capabilities
- Ability to consistently forecast and meet or beat expectations

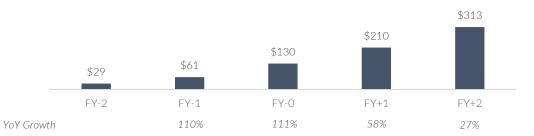
#### STOCK PRICE PERFORMANCE TO DATE



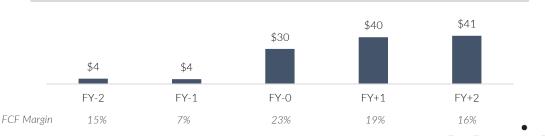
Key Metrics at IPO (LTM or Time of IPO)

	Veeva	Median – Vertical SaaS
Revenue:	\$168M	\$201M
YoY Growth:	98%	41%
Gross Margin:	59%	63%
FCF:	\$35M	\$15M
Rule of 40:	119%	39%
Total Operating Expenses:	\$62M	\$123M
Market Cap:	\$2,484M	\$3,090M
Cash & Cash Equivalents:	\$39M	\$78M

### Scale & Growth – Revenue (\$M, YoY Growth)



## **Profitability** – Free Cash Flow (\$M, % Revenue)



Notes: (1) "Current" represents data as of 1/31/22; (2) Market Cap based on IPO price; (3) Cash & Cash Equivalents not inclusive of IPO proceeds (4) Trademarks are the property of their respective owners. None of the companies illustrated have endorsed or recommend the services of ICONIQ (5) The case studies presented herein are for illustrative purposes only. No assumption should be made that the investments described herein were or will be profitable, or that investments made in the future will be comparable to those described herein. References to investments included herein should not be construed as a recommendation of any particular investment should not be construed as a recommendation of any particular investment Source: Factset, Public Filings for Software IPO June 2013 to December 2021

## APPENDIX Case Study: Vertical SaaS

## "Top Performer" Profile Leading Up to and Post-IPO

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## 😵 samsara

Samsara is a provider of cloud-based Internet of Things data and analytics

NYSE: IOT IPO Date: 12/14/2021 IPO Price: \$23 Current Stock Price<sup>1</sup>: \$27

70

## Performance to Date

Strong performance driven by:

- Robust financial performance driven by high gross margins and sales efficiency
  - Customer contracts of 3-5 years enables Samsara to amortize hardware costs over time
  - Efficiency sales motion focused on upselling existing customers across Samsara product suite and upmarket expansion
- Data integrations and partnerships
  - Data integrations with ~150 third-party apps and partnerships with vehicle makers like Ford and Volvo



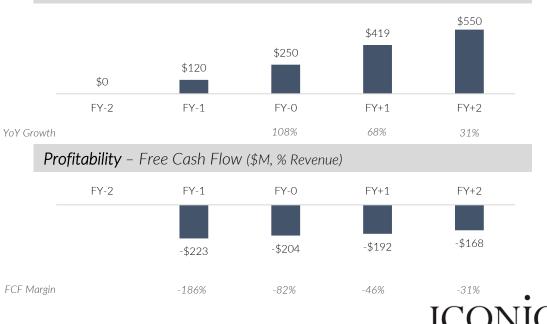
\$25 \$20 \$15 \$10 \$5 \$0 1/2/2022 12012022 .212312022 . 21512022 . 212112022 215/2022 .21212022 2129/2022 522 12022 12612022 1281 212712023

Notes: (1) "Current" represents data as of 1/31/22; (2) Market Cap based on IPO price; (3) Cash & Cash Equivalents not inclusive of IPO proceeds (4) Trademarks are the property of their respective owners. None of the companies illustrated have endorsed or recommend the services of ICONIQ (5) The case studies presented herein are for illustrative purposes only. No assumption should be made that the investments described herein were or will be profitable, or that investments made in the future will be comparable to those described herein. References to investments included herein should not be construed as a recommendation of any particular investment Source: Factset, Public Filings for Software IPO June 2013 to December 2021

Key Metrics at IPO (LTM or Time of IPO)

	🕲 samsara	Median – Vertical SaaS
Revenue:	\$379M	\$201M
YoY Growth:	76%	41%
Gross Margin:	72%	63%
FCF:	-\$169M	\$15M
Rule of 40:	31%	39%
Total Operating Expenses:	\$409M	\$123M
Market Cap:	\$11,509M	\$3,090M
Cash & Cash Equivalents:	\$268M	\$78M

### Scale & Growth – Revenue (\$M, YoY Growth)



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**2021 SAAS IPOS** 

	Company	IPO Year	IPO Date	Market Cap at IPO (\$Ms)	LTM Rev YoY Growth (%)	LTM Rule of 40 (%)	LTM Net Retention (%)	LTM Gross Margin (%)	Forward Multiple at IPO	30 Day Price % Change from Offering
$\frown$	Qualtrics	2021	1/28/2021	\$15,334	36%	-31%	122%	72%	15.7x	27%
	Cloopen Group	2021	2/8/2021	\$2,352	N/A	N/A	95%	41%	18.3x	5%
	Viant Technology	2021	2/9/2021	\$1,323	N/A	N/A	N/A	43%	= 1.5x	101%
	Тиуа	2021	3/17/2021	\$8,796	70%	41%	181%	34%	29.6x	-3%
	DigitalOcean	2021	3/23/2021	\$4,949	25%	12%	103%	54%	11.3x	-12%
	SEMrush	2021	3/24/2021	\$1,899	36%	38%	114%	76%	9.3x	19%
	Alkami	2021	4/13/2021	\$2,521	52%	17%	117%	53%	19.9x	-3%
$\sim$	UiPath	2021	4/20/2021	\$29,273	81%	85%	145%	89%	28.7x	41%
02	DoubleVerify	2021	4/20/2021	\$4,232	34%	38%	123%	85%	12.1x	19%
	KnowBe4	2021	4/21/2021	\$2,699	45%	68%	89%	85%	10.1x	11%
	Procore Technologies	2021	5/19/2021	\$8,648	32%	41%	107%	82%	15.1x	36%
	Flywire	2021	5/25/2021	\$2,475	N/A	N/A	100%	60%	14.0x	59%
	Paymentus	2021	5/25/2021	\$2,467	28%	39%	117%	31%	5.3x	67%
	Zeta Global	2021	6/9/2021	\$1,908	N/A	N/A	122%	59%	4.3x	-28%
$\sim$ –	Monday.com	2021	6/9/2021	\$6,835	95%	76%	121%	86%	19.3x	50%
03	WalkMe	2021	6/15/2021	\$2,562	34%	29%	111%	74%	11.6x	-6%
	Sprinklr	2021	6/22/2021	\$3,969	19%	9%	N/A	70%	6.7x	19%
	Doximity	2021	6/23/2021	\$4,724	78%	116%	153%	85%	12.5x	135%
	Confluent	2021	6/23/2021	\$11,700	53%	24%	117%	69%	24.0x	11%
	LegalZoom	2021	6/29/2021	\$5,417	21%	39%	N/A	67%	9.4x	31%
	IntApp	2021	6/29/2021	\$1,569	26%	34%	110%	64%	8.7x	30%
	EverCommerce	2021	6/30/2021	\$3,319	34%	46%	99%	66%	4.7x	I 3%
	SentinelOne	2021	6/29/2021	\$9,170	101%	19%	124%	56%	31.	5x 41%
	Blend Labs	2021	7/15/2021	\$3,997	N/A	N/A	179%	66%	17.6x	0%
	Kaltura	2021	7/20/2021	\$1,263	31%	32%	116%	60%	8.5x	32%
	Paycor	2021	7/20/2021	\$4,004	3%	3%	95%	57%	11.3x	60%
	CS Disco	2021	7/20/2021	\$1,820	37%	12%	122%	71%	16.5x	68%
	Zenvia	2021	7/21/2021	\$461	N/A	N/A	109%	24%	3.2x	6%
	Couchbase	2021	7/21/2021	\$1,024	24%	-11%	115%	89%	6.8x	57%
)5	Instructure	2021	7/21/2021	\$2,804	20%	12%	116%	48%	8.1x	5%
	MeridianLink	2021	7/27/2021	\$2,098	40%	72%	120%	71%	10.8x	0%
	Riskified	2021	7/28/2021	\$3,365	41%	40%	117%	55%	14.3x	38%
	Definitive Healthcare	2021	9/14/2021	\$4,069	43%	62%	125%	75%	21.2x	57%
	ForgeRock	2021	9/15/2021	\$2,026	41%	16%	113%	84%	10.4x	35%
	Toast	2021	9/21/2021	\$20,104	61%	62%	114%	21%		37.0x 24%
	Freshworks	2021	9/21/2021	\$10,234	49%	57%	118%	79%	22.2x	30%
	EngageSmart	2021	9/22/2021	\$4,201	69%	83%	124%	75%	15.0x	32%
10	Clearwater	2021	9/23/2021	\$4,248	24%	7%	109%	75%	10.8x	46%
	AvidXchange	2021	10/12/2021	\$4,894	30%	-4%	102%	59%	20.3x	4%
	GitLab	2021	10/13/2021	\$11,052	N/A	N/A	152%	88%		37.4x 62%
	Enfusion	2021	10/20/2021	\$1,948	N/A	N/A	122%	73%	9.8x	26%
	Informatica	2021	10/26/2021	\$7,937	4%	20%	116%	77%	6.6x	14%
	Expensify	2021	11/9/2021	\$1,818	35%	70%	119%	71%	11.2x	35%
	Braze	2021	11/26/2021	\$5,920	N/A	N/A	125%	65%	21.1x	-4%
	UserTesting	2021	11/16/2021	\$1,972	42%	20%	119%	74%	12.8x	-35%
	HashiCorp	2021	12/8/2021	\$14,312	51%	30%	127%	83%		36.6x -10%
	Samsara	2021	12/14/2021	\$11,509	76%	31%	115%	72%	22.5x	0%
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Company	IPO Year	IPO Date	Market Cap at IPO (\$Ms)	LTM Rev YoY Growth (%)	LTM Rule of 40 (%)	LTM Net Retention (%)	LTM Gross Margin (%)	Forward Multiple at IPO	30 Day Price % Change from Offering
Zoominfo	2020	6/5/2020	\$8,174	104%	116%	109%	78%	8.1x	115%
nCino	2020	7/14/2020	\$2,816	50%	43%	N/A	55%	11.4x	173%
Jamf	2020	7/23/2020	\$3,025	35%	36%	120%	75%	11.2x	54%
Vertex	2020	7/30/2020	\$2,767	18%	33%	109%	61%	7.5x	48%
BigCommerce	2020	8/5/2020	\$1,605	30%	-4%	N/A	71%	13.0x	346%
Duck Creek								13.0x	46%
Technologies	2020	8/17/2020	\$3,528	23%	33%	113%	56%	36.2x	102%
Snowflake	2020	9/16/2020	\$33,957	138%	106%	164%	61%		
Jfrog	2020	9/16/2020	\$3,972	112%	122%	139%	81%	20.5x	82%
SumoLogic	2020	9/17/2020	\$2,220	42%	8%	130%	70%	11.2x	0%
Bentley Systems	2020	9/24/2020	\$5,747	11%	37%	110%	81%	8.0x	66%
Datto	2020	10/23/2020	\$4,343	17%	16%	115%	68%	8.4x	5%
McAfee	2020	10/21/2020	\$8,637	7%	30%	98%	70%	<b>2.6</b> x	-21%
C3.ai	2020	12/8/2020	\$4,167	36%	11%	N/A	75%	22.3x	242%

#### **2019 SAAS IPOS**

**2020 SAAS IPOS** 

04	Company	IPO Year	IPO Date	Market Cap at IPO (\$Ms)	LTM Rev YoY Growth (%)	LTM Rule of 40 (%)	LTM Net Retention (%)	LTM Gross Margin (%)	Forward Multiple at IPO	30 Day Price % Change from Offering		
	PagerDuty	2019	4/11/2019	\$1,799	48%	40%	140%	85%	8.3x	116%		
	Zoom	2019	4/18/2019	\$9,343	118%	125%	140%	82%	15.3x	150%		
05	Fastly	2019	5/17/2019	\$1,478	39%	13%	130%	56%	7.6x	24%		
	Crowdstrike	2019	6/14/2019	\$6,779	N/A	N/A	147%	N/A	13.7x	116%		
	Health Catalyst	2019	7/25/2019	\$939	64%	30%	107%	53%	8.7x	49%		
~ ~	Dynatrace	2019	8/1/2019	\$4,487	12%	N/A	N/A	N/A	10.3x	44%		
06	Cloudflare	2019	9/13/2019	\$4,479	40%	7%	113%	77%	10.8x	10%		
	Datadog	2019	9/19/2019	\$7,923	82%	70%	146%	74%	17.4x	17%		
	Ping Identity	2019	9/20/2019	\$1,193	10%	17%	115%	77%	4.7x	8%		
	Bill.com	2019	12/12/2019	\$1,585	63%	57%	N/A	73%	7.4x	80%		
	Sprout Social	2019	12/13/2019	\$825	37%	21%	106%	74%	5.2x	7%		

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**2018 SAAS IPOS** 

	Company	IPO Year	IPO Date	Market Cap at IPO (\$Ms)	LTM Rev YoY Growth (%)	LTM Rule of 40 (%)	LTM Net Retention (%)	LTM Gross Margin (%)	Forward Multiple at IPO	30 Day Price % Change from Offering
	Cardlytics	2018	2/9/2018	\$259	16%	32%	N/A	38%	2.8x	36%
	ZScaler	2018	3/16/2018	\$1,906	54%	41%	122%	79%	9.3x	72%
	Dropbox	2018	3/23/2018	\$8,343	31%	59%	90%	67%	5.4x	38%
	Zuora	2018	4/12/2018	\$1,472	49%	31%	110%	52%	5.5x	44%
	Ceridian	2018	4/26/2018	\$3,037	7%	-1%	95%	50%	5.7x	53%
3	DocuSign	2018	4/27/2018	\$4,506	36%	43%	115%	77%	7.0x	60%
	Smartsheet	2018	4/27/2018	\$1,510	66%	43%	130%	81%	8.4x	50%
	Avalara	2018	6/15/2018	\$1,585	29%	18%	107%	73%	5.1x	82%
	Domo	2018	6/29/2018	\$553	45%	-88%	105%	60%	2.6x	-21%
	Elastic	2018	10/5/2018	\$2,540	79%	64%	142%	71%	7.8x	79%
	Anaplan	2018	10/12/2018	\$2,112	76%	72%	123%	71%	6.2x	42%

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### **2017 SAAS IPOS**

	Company	IPO Year	IPO Date	Market Cap at IPO (\$Ms)	LTM Rev YoY Growth (%)	LTM Rule of 40 (%)	LTM Net Retention (%)	LTM Gross Margin (%)	Forward Multiple at IPO	30 Day Price % Change from Offering
05	Alteryx	2017	3/24/2017	\$807	59%	47%	120%	81%	4.5x	10%
	Okta	2017	4/7/2017	\$1,571	87%	56%	123%	65%	5.2x	48%
	Yext	2017	4/13/2017	\$958	49%	40%	119%	70%	5.1x	25%
06	Appian	2017	5/26/2017	\$716	9%	N/A	117%	64%	3.7x	54%
00	Bandwidth	2017	11/13/2017	\$352	9%	11%	107%	45%	2.2x	6%
	Sailpoint	2017	11/17/2017	\$1,045	45%	49%	N/A	74%	6.2x	20%
	Casa Systems	2017	12/15/2017	\$1,053	8%	17%	N/A	73%	2.8x	58%

ICO

2013 – 2016 SAAS IPOs

D1	Company	IPO Year	IPO Date	Market Cap at IPO (\$Ms)	LTM Rev YoY Growth (%)	LTM Rule of 40 (%)	LTM Net Retention (%)	LTM Gross Margin (%)	Forward Multiple at IPO	30 Day Price % Change from Offering
	Twilio	2016	6/23/2016	\$1,256	84%	78%	170%	56%	3.3x	172%
	Coupa	2016	10/6/2016	\$886	71%	46%	N/A	62%	4.2x	40%
)2	Blackline	2016	10/28/2016	\$861	N/A	N/A	119%	74%	5.5x	58%
	Box	2015	1/23/2015	\$1,656	83%	15%	130%	79%	4.6x	35%
	Shopify	2015	5/21/2015	\$1,285	106%	121%	N/A	58%	5.7x	109%
)3	Appfolio	2015	6/26/2015	\$399	81%	65%	N/A	54%	3.7x	23%
	Rapid7	2015	7/17/2015	\$620	33%	41%	N/A	75%	7.4x	37%
	Pure Storage	2015	10/7/2015	\$3,210	239%	184%	N/A	58%	4.4x	4%
)4	Mimecast	2015	11/19/2015	\$540	24%	38%	108%	70%	3.6x	-1%
	Atlassian	2015	12/10/2015	\$4,382	54%	74%	100%	84%	7.4x	29%
	Paylocity	2014	3/19/2014	\$838	49%	52%	92%	48%	6.1x	14%
)5	Paycom	2014	4/15/2014	\$762	40%	46%	91%	81%	5.3x	-5%
	Zendesk	2014	5/16/2014	\$647	84%	78%	N/A	66%	4.4x	86%
)6	Hubspot	2014	10/10/2014	\$778	46%	21%	90%	66%	6.2x	47%
	New Relic	2014	12/12/2014	\$1,076	93%	53%	115%	82%	6.5x	47%
	RingCentral	2013	9/27/2013	\$804	49%	28%	99%	62%	4.1x	43%
	Veeva	2013	10/16/2013	\$2,484	98%	119%	187%	59%	8.9	yx 93%

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ICC

# ICONIQ GROWTH ANALYTICS: PROPRIETARY TOOLS

INTERACTIVE COMPANION TABLEAU DASHBOARDS WITH PROPRIETARY BENCHMARKS

Currently only available to portfolio companies – reach out to ICONIQ Analytics for access



Topline Growth & Operational Efficiency



Company (AII)

> Company (All)

(AII)

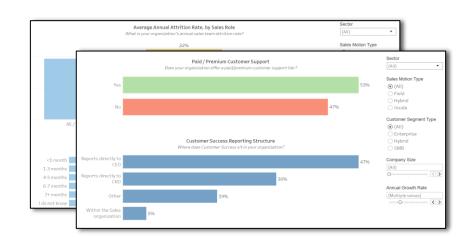
IPO Year

Scale Range

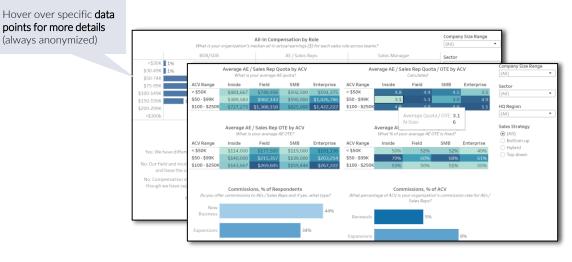
IPO Size Range

Srowth Range

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**Go-to-Market Organization Structure** 



**Go-To-Market Compensation & Incentives**