ICONIQ | Growth

The New Era of Efficient Growth

Topline Growth and Operational Efficiency August 2023





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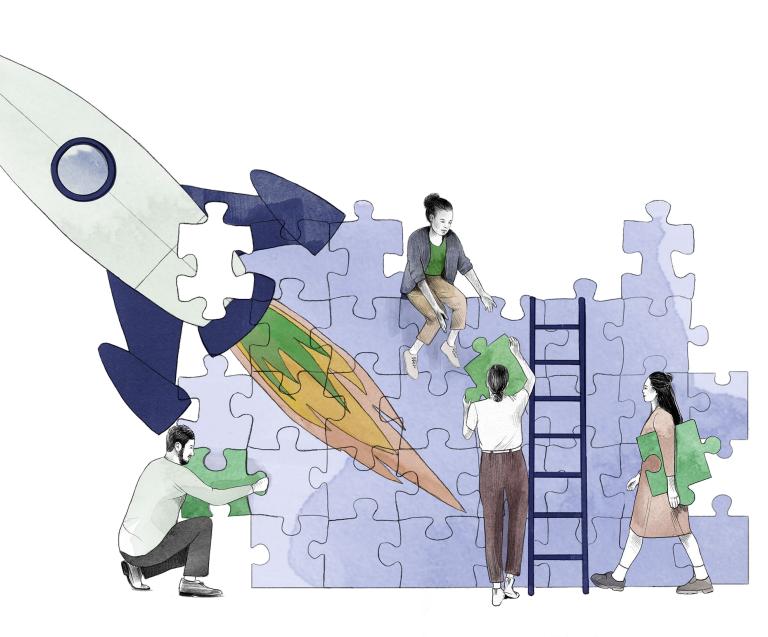
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1 Introduction

The Companies Included Firmographics Methodology Data Sources Analysis

Resiliency Framework





About the Research

Every year, the ICONIQ Growth Analytics team analyzes the **financial and operating metrics from the ICONIQ Growth portfolio and a selection of public companies** to understand the data behind scaling B2B SaaS companies.

Along with a full refresh of the analysis, this year we are excited to share 3 **companion reports focused on vertical SaaS businesses, product-led growth companies, and scaling early-stage companies,** in addition to a **board reporting template with benchmarks** from our ICONIQ Growth Enterprise Five and Resiliency Rubric scorecards.

If you're not on our mailing list and are interested in receiving these studies directly, please <u>let us know here</u>.

Companion Reports	Vertical SaaS	Product-Led Growth	Early-Stage SaaS	
Tools & Reference Materials	Board Reporting Template	The SaaS Glossary	Interactive Dashboard <i>Portfolio Only</i>	
Scorecard Overviews	The Enterprise Five	The Resiliency Rubric		

The Authors

ICONIQ Growth
Analytics &
Insights

Seeking to empower our portfolio with proprietary analytics and insights across business operations and strategy

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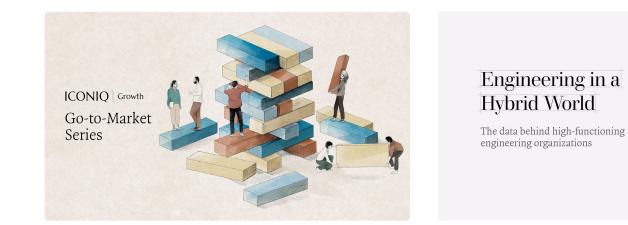
Portfolio Analytics



Sam O'Neill Portfolio Data Manager

Follow our research



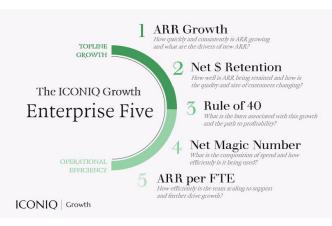




Topline Growth & Operational Efficiency

The data behind scaling a B2B SaaS business







ICONIQ Growth SaaS Glossary

A guide to understanding and tracking key SaaS metrics Hiring Your Next Head of Finance

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ICONIQ Growth

ICONIQ Growth Portfolio Companies³

Companies Included

This study summarizes quarterly operating and financial data from 96 B2B SaaS companies.

All ICONIQ Growth portfolio companies were included where data was available, and an additional 13 select public companies were included based on our IPO performance criteria.¹

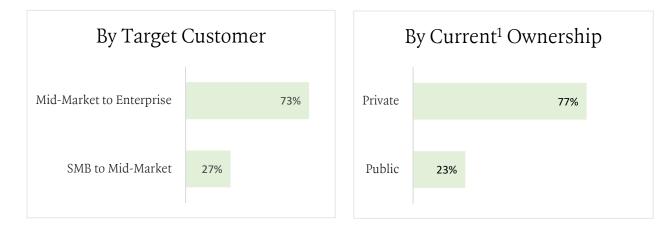
1 See our IPO performance criteria in The Methodology section 2 Pluralsight went public in 2018 and has since been purchased 3 Select ICONIQ Growth companies included in the analysis are not shown here due to privacy of investment. See a full list of portfolio companies in the Appendix. Trademarks are the property of their respective owners. None of the companies illustrated have

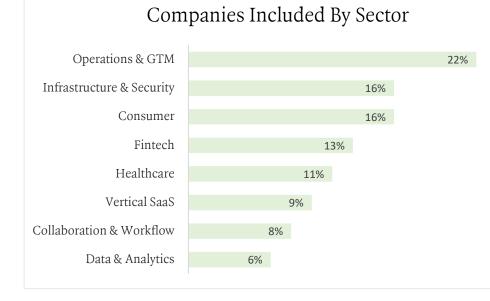
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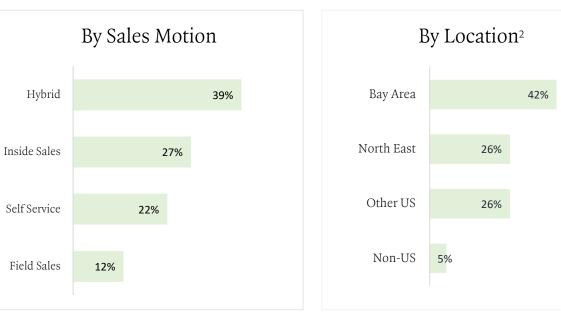
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THE **Firmographics**

The companies included represent a mix of sectors and business models that we feel are highly representative of the overall B2B SaaS market







1 As of August 2023; Pluralsight went public in 2018 and was purchased in 2020

2 Location of Company Headquarters; many companies included have operations internationally

METHODOLOGY Overview & Data Sources¹

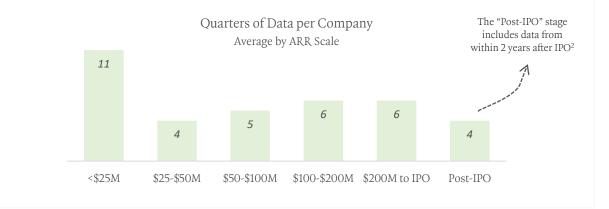
This analysis summarizes quarterly operating and financial data from the included SaaS companies. All views are aggregated or anonymized to protect the data privacy of individual companies.

Using this proprietary dataset, we seek to answer key questions on how SaaS companies can scale quickly and efficiently and explore what we believe to be early indicators and drivers of long-term success.

Unless otherwise indicated, references to "SaaS companies" only reflect trends observed with the companies included in the dataset.

N-sizes

Each datapoint (n) represents a single fiscal quarter of data per company. A given company's quarterly datapoints can be included multiple times in aggregated views (for example, by ARR Scale) where we have more historical data:



Public Companies

The dataset includes 13 public companies that are not (and have not previously been) ICONIQ Growth portfolio companies. All data was collected from public filings information. Top IPO performers are top quartile in two or more of the following:

1. Indication of Success of IPO: *Forward Revenue Multiple at IPO*

2. Indication of Success Post-IPO: Current Forward Revenue Multiple

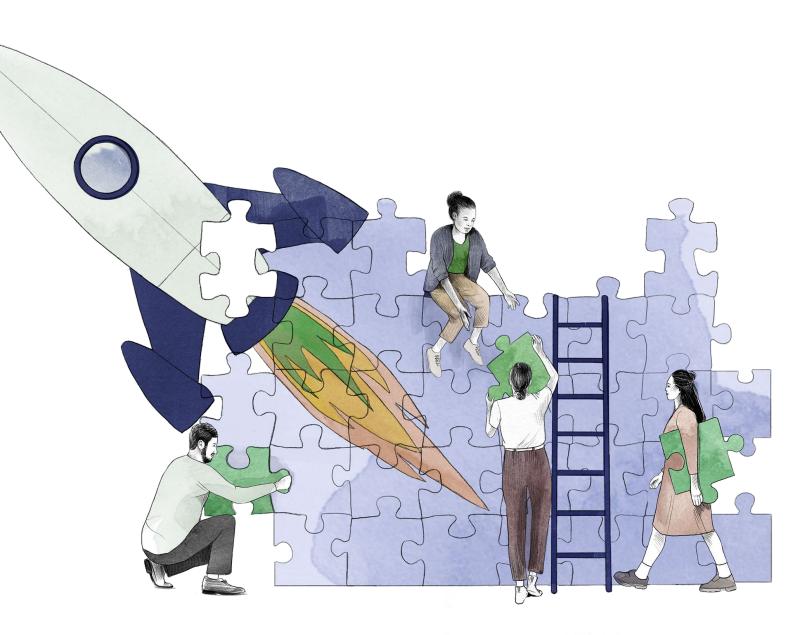
3. Indication of Value Creation: Ratio of Change in Stock Price Since Day 1 Close vs. Market (S&P)

1 The conclusions of this study represent the views of the ICONIQ Growth Portfolio Analytics team and are not intended to serve as an analysis of the value, viability or health of any individual company or group of companies, and should not be used to make any decision about whether to invest in any company or group of companies, including through a private fund

2 Select public companies included do not publicize ARR data, so we have grouped all company data from within 2 years after IPO into a "Post-IPO" stage

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2 Executive Summary





Benchmarking SaaS Performance in

2023

We believe the **last few years of unprecedented growth and favorable tailwinds have been anomalous for SaaS businesses**. Rather than relying on benchmarks exclusively based on 2023 or even the last few years, we believe that the leadership teams of SaaS businesses should be utilizing **aggregate metrics over a longer historical period** to calibrate to realistic standards of performance.

About This Year's Report

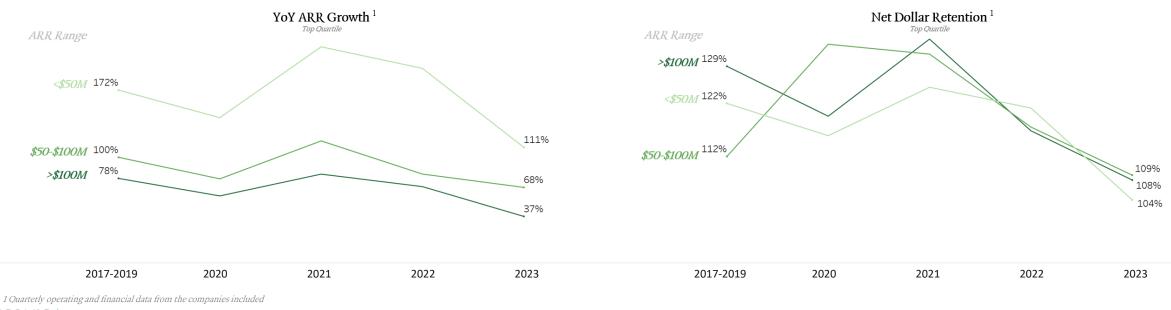
We are proud to have compiled over a decade's worth of quarterly financial and operating data from private and public SaaS companies in this year's research, which we believe can serve as an objective way to measure "best in class" performance and to identify drivers of operational success.

We recognize, however, that **today's reality means targets are much harder to achieve than in previous years**. Based on how 1H 2023 has trended, we expect software businesses will continue to face challenges this year. In the following pages, we have provided commentary on the nuances we expect to see in 2023 and beyond, as well as guidance on how companies can pursue growth both more efficiently and resiliently, especially in an era of efficient growth.

Executive Summary Today's SaaS Landscape

Impact to Topline

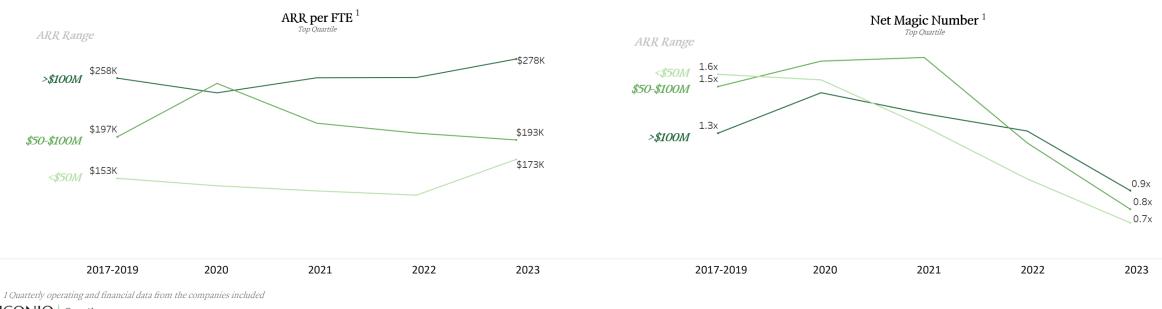
- 2023 has seen **continued deterioration in topline performance** as the macro environment remains challenging for SaaS businesses
- While topline growth has fallen across the board, **early-stage companies saw the biggest impact to ARR growth**, falling from peak levels of 200%+ YoY growth to 111% YoY as of 1H 2023
- Net dollar retention has been similarly impacted, **falling from peak levels of 120-130% in 2017 to ~105% as of 1H 2023**, driven by both elevated levels of churn as well as weakened expansion



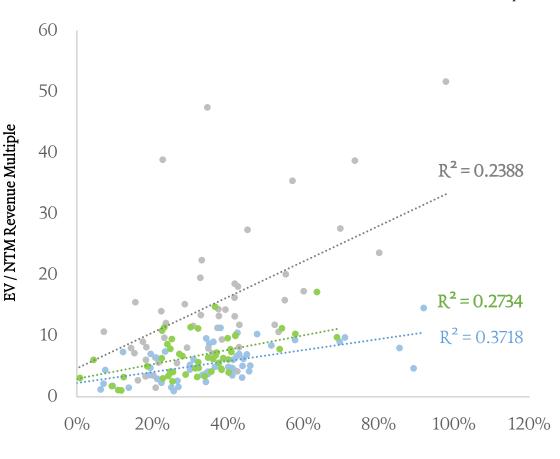
Executive Summary Today's SaaS Landscape

The Era of Efficient Growth

- As growth has slowed, companies have focused on finding ways to reduce spend and extend runway via levers such as hiring freezes, reductions in force (RIFs), tool rationalization, and performance management
- These efforts can be seen in **improvements to ARR per FTE**, likely driven by the organizational rightsizing many companies have undertaken
- Sales efficiency has declined as selling SaaS tools and platforms has become much more challenging in the current macro ٠ environment. This can be seen in the decrease in net magic number, falling from peak multiples of 1.7x to <1.0x in 1H 2023



The Trade-off between Growth vs Efficiency



YoY Growth + FCF Margin

Revenue FCF Margin Rule of 40 Median Public Growth R-squared SaaS Multiple Coefficient Coefficient June 2023 0.27 5.1x 11.8 6.7 0.37 Dec 2022 4.9x 4.3 5.4 Dec 2021³ 0.24 10.6x 31.8 4.9

As of June 2023, forward revenue growth is the primary driver of valuation in the public markets.

Coefficients measure the slope of the linear relationship between different variables. From December 2021 to June 2022, **the relative importance of profitability increased significantly.** FCF margin had a larger impact on public multiples than revenue growth in June 2022, as shown by the greater coefficient in the table above. However, **the balance has shifted back towards growth as the primary driver of valuation**. As of June 2023 revenue growth once again had a larger impact on public multiples than FCF margin.

R-squared measures the amount of variation in the data that is explained by the model. Rule of 40 (a measure of both growth and efficiency) has improved in correlation to forward multiples over time, indicating that **sustainable and efficient growth is still important**.

1 YoY ARR growth + FCF margin

2 Valuation data from all enterprise SaaS IPOs 2H 2013-2H 2023 and 42 ICONIQ Growth private portfolio companies where data available for all metrics 3 Peak of SaaS multiples

Two-factor Regression: EV/NTM Revenue vs Rule of 40¹ (Revenue Growth and FCF Margin) 80 Public Enterprise SaaS Companies Across Three Time Periods²

The iconiq growth $Enterprise \ Five$

The ICONIQ Growth SaaS Glossary

See our SaaS Glossary for a complete guide to the key metrics included in this report, plus:

✓ Cost classification✓ Revenue recognition

Median & Top Quartile Performance by ARR Range¹

- ✓ Cohort analysis
- ✓ Unit economics

ICONIQ Growth standards across five key metrics we believe are highly representative of a B2B SaaS company's overall growth and efficiency:		Median Top Quartile						
		<\$25M	\$25-\$50M	\$50-\$100M	\$100-\$200M	\$200M to IPO	Post-IPO ⁴	
1	Yoy ARR Growth (EOP ARR – prior year EOP ARR) /prior year EOP ARR	125% 240%	90% 130%	70% 100%	50% 70%	40% 60%	45% 70%	
2	Net \$ Retention 1+ (expansion ARR - gross churn ARR) / average (BOP ARR + EOP ARR)	105% 125%	110% 120%	110% 125%	110% 120%	110% 115%	120% 130%	
3	Rule of 40 YoY ARR growth + FCF margin ²	Less Relevant	Less Relevant	25% 55%	15% 45%	30% 50%	45% 70%	
4	Net Magic Number Current Q net new ARR / prior Q S&M OpEx ³	0.8x 1.7x	0.8x 1.2x	0.9x 1.4x	0.8x 1.2x	0.6x 1.1x	0.8x 1.6x	
5	ARR per FTE	\$95K \$135K	\$140K \$190K	\$175K \$215K	\$200K \$235K	\$220K \$255K	\$270K \$345K	

Given the current environment, we expect that **median benchmarks shown here will be more realistic for companies to target in 2023**, but have included top quartile as reference for "best in class" performance regardless of time period

1 Quarterly operating and financial data from the companies included

2 Alternative Rule of 40 calculations include YoY Revenue Growth and EBITDA Margin

3 Quarter of S&M OpEx utilized in magic number calculations should depend your company's sales cycle

4 Within 2 fiscal years after IPO



A Framework for SaaS Valuation

Growth and efficiency are not the only drivers of valuation and there are various other factors that affect SaaS valuation in both the private and public markets. Based on a multivariable regression analysis of current multiples for 80 public SaaS companies¹ and the ICONIQ Growth private portfolio, below is a framework to think about which metrics and business priorities drive valuation in the current market.

Five Metrics Most Correlated With Valuations¹

Revenue Growth

Market Dynamics

Net Dollar Retention

Key Valuation Drivers

What is your historical and projected growth? How does the product vision, market, and execution affect the sustainability and predictability of your growth?

<u>Page 23</u>

How are you growing recurring revenue and driving expansion of existing customers? How are you managing churn and downsell? Page 26

Gross Margin

Profitability

What does performance look like on a per-unit basis? How does your gross margin affect growth and profitability? *Page 44*

Do you have line of sight into or a clear path to profitability? What does your burn look like in comparison to net new dollars being generated?

<u>Page 48</u>

What is your total addressable market and how are you driving expansion? How do competitive factors impact your future growth prospects?

1 Valuation data from all enterprise SaaS IPOs 2H 2013-2H 2023 and 42 ICONIQ Growth private portfolio companies where data available for all metrics

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Executive Summary

What's Changed

In our 4th year of publishing this report, we dive into which key growth and efficiency metrics have stayed consistent and which ones have changed over the last year

The Pace of Growth¹

2022 and 2023 have had a significant impact on SaaS performance, with median and top quartile benchmarks for growth and retention metrics dropping significantly. Last year, we remarked on how top quartile SaaS companies have generally grown 2.0x-2.5x year-over-year until \$100M ARR; the rate of ARR growth has now slowed to 1.0x-1.5x with the addition of 2022-23 datapoints.

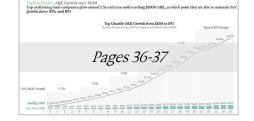
Growth Drivers

In our 2022 analysis, expansion only became the primary driver of gross new ARR after companies reached \$200M ARR. Companies are now prioritizing expansion earlier in the company lifecycle, with expansion exceeding 50% of gross new ARR as early as the \$100M ARR range, a trend that has likely been accelerated by the rise of product-led growth. In addition to this focus on existing customers, many SaaS companies are also exploring channel and partnership strategy to accelerate growth.

Spend and Burn

Renewed focus on efficiency and path to profitability have started to move the needle on both gross and OpEx as a % of Revenue by Ty FCF margins; however, the pace and scale of spend reductions do not seem to have matched the speed at which growth slowed leading to efficiency metrics like Rule of 40 and magic number dropping across the board. Average spend per FTE has also increased since last year's report, likely driven by a competitive job market in 2022 and inflationary pressure. However, cost allocation across G&A, S&M, and R&D has stayed consistent with prior years with S&M continuing to make up ~50% of total spend.

GTM Efficiency









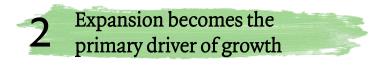
Budget constraints, increased scrutiny on the purchase of discretionary software tools, and tool rationalization / consolidation are among the many factors that have made selling SaaS harder, impacting both GTM efficiency and customer health. This has resulted in declines to magic number and expected customer lifetime, in addition to increased payback periods for customer acquisition. Explore more benchmarks on best in class go-to-market strategy and efficiency in our GTM series.

1 Quarterly operating and financial data from the companies included

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Usage-based pricing (UBP) will soon become more prevalent, especially as SaaS products focus on driving efficiency for organizations and will **need to price based on value rather than seats**. However, as UBP is inherently volatile, we expect to see **significant fluctuations and much higher ranges in net dollar retention** in parallel with market changes



As we see more companies powered by product-led growth (PLG) or leverage bottom-up sales motions, expansion will continue to become a larger and likely most significant portion of new ARR going forward.

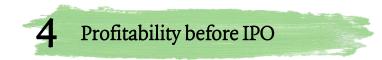
<u>Page 38</u>



The Rule of 40 may soon become the **Rule of 60 with the introduction of AI** which will bring about significant operational efficiencies to organizations and potential to unlock new growth vectors. We are already starting to see organizations accomplishing tasks that would've normally taken weeks in a matter of days.

<u>age 50</u>

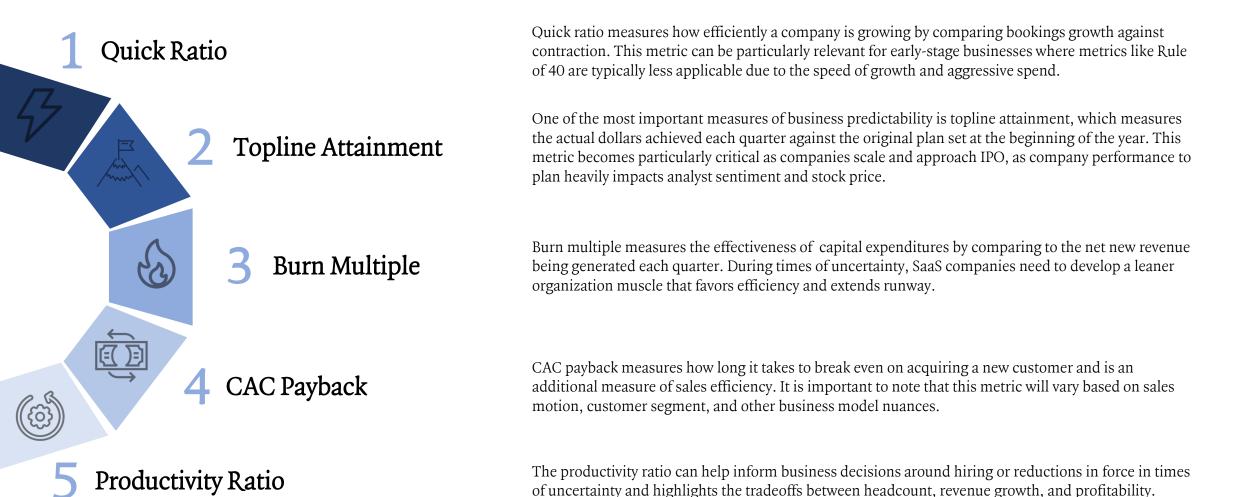
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Best-in-class companies will hit profitability sooner (within 6-7 years after reaching \$10M ARR or 3-4 years after reaching \$100M ARR), likely even before going public, rather than the historical precedent of most SaaS companies being un-profitable at IPO.

A Framework for Navigating Unpredictability

In times of volatility, we recognize that the Enterprise Five is not a comprehensive framework of health for companies who need to move quickly and understand which business levers to prioritize. Below are five metrics we recommend all SaaS companies evaluate as measures of resiliency as they navigate periods of market unpredictability, which together comprise "The Resiliency Rubric."



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THE ICONIQ GROWTH Resiliency Rubric

<u>Legend</u> Median Top Quartile

What is the Resiliency Rubric?

Read about why we believe it's so important for SaaS companies to start tracking these 5 metrics in the current market.

Median & Top Quartile Performance by ARR Range¹

In addition to the Enterprise Five, we recommend SaaS companies keep in mind these additional metrics that will drive resilience in times of volatility

these additional metrics that will drive resilience in times of volatility	<\$25M	\$25-\$50M	\$50-\$100M	\$100-\$200M	\$200M to IPO	Post-IPO ⁵	
Quick Ratio	8x	5x	6x	5x	4x	Low	
Gross New ARR / Gross Churned ARR	19x	16x	11x	10x	6x	N-Size	
Topline Attainment Actuals as % of annual plan, net new cumulative bookings	Companies should aim to achieve 100% quarterly net new attainment of their topline plan, regardless of scale. Top performers have managed to stay in the 80-100% range regardless of scale in the current environment.						
Burn Multiple	2.0x	1.6x	0.9x	1.1x	0.9x	0.3x	
	1.1x	0.7x	0.5x	0.6x	0.4x	0.2x	
CAC Payback	22	28	20	19	34	12	
CAC / (New MRR x Gross Margin) ³	10	15	13	14	19	8	
Productivity Ratio	0.5x	0.7x	0.9x	1.0x	1.2x	1.2x	
	0.7x	0.8x	1.1x	1.3x	1.4x	1.5x	

Given the current environment, we expect that **median benchmarks shown here will be more realistic for companies to target in 2023**, but have included top quartile as reference for "best in class" performance regardless of time period

1 Quarterly operating and financial data from the companies included

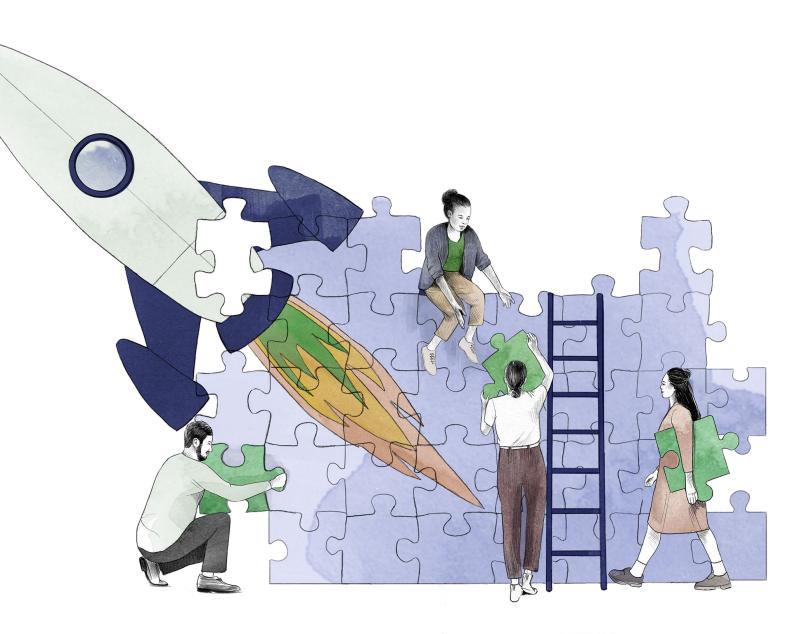
2 Non-profitable companies only

3 CAC Payback shown in months. Overall gross margin reflects customer support

4 The productivity ratio = ARR / OpEx. We believe it is topical to present the ratio in this format as companies continue to look at metrics on a per FTE basis post-RIF

5 Within 2 fiscal years after IPO

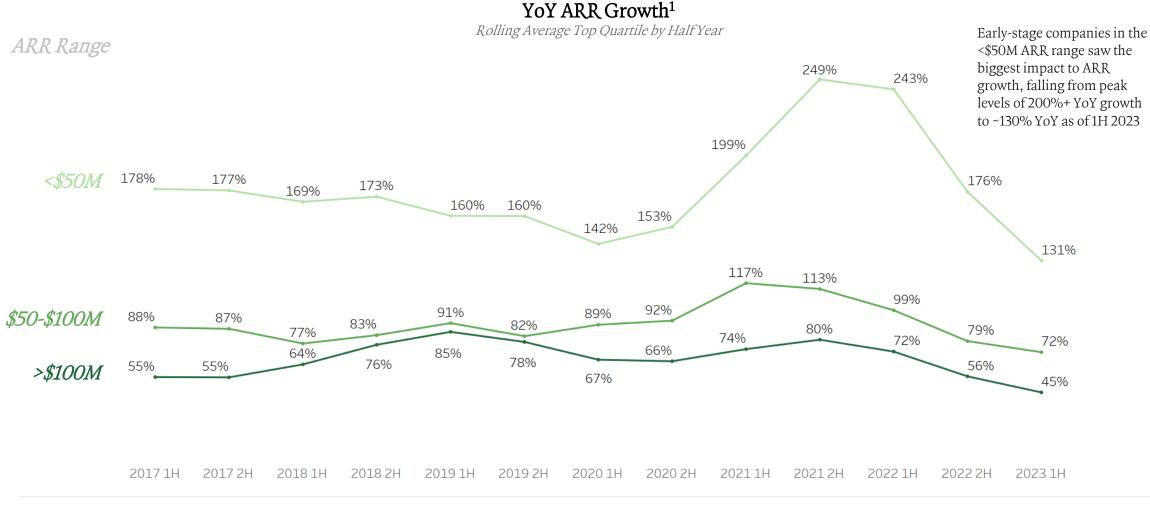
The SaaS Landscape





The SaaS Landscape | YoY Growth

Over the past few quarters, topline growth has decelerated for companies amidst a challenging macro environment, with the first half of 2023 seeing continued degradation

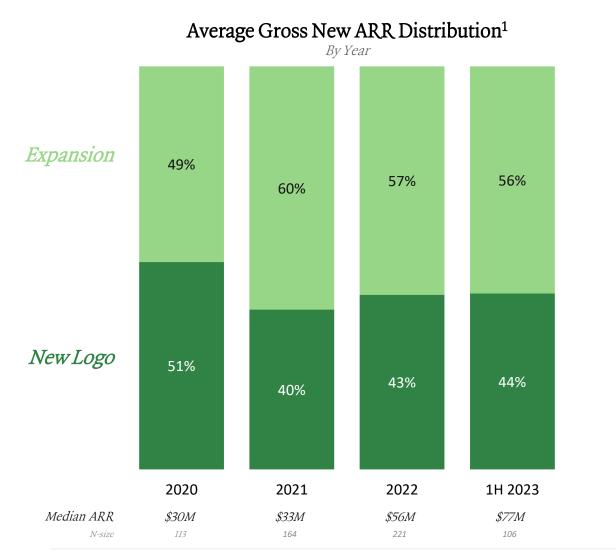


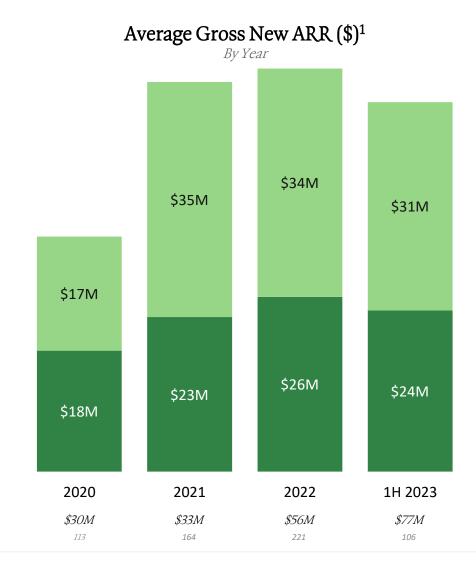
¹ Quarterly operating and financial data from the companies included

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The SaaS Landscape | Drivers of ARR Growth

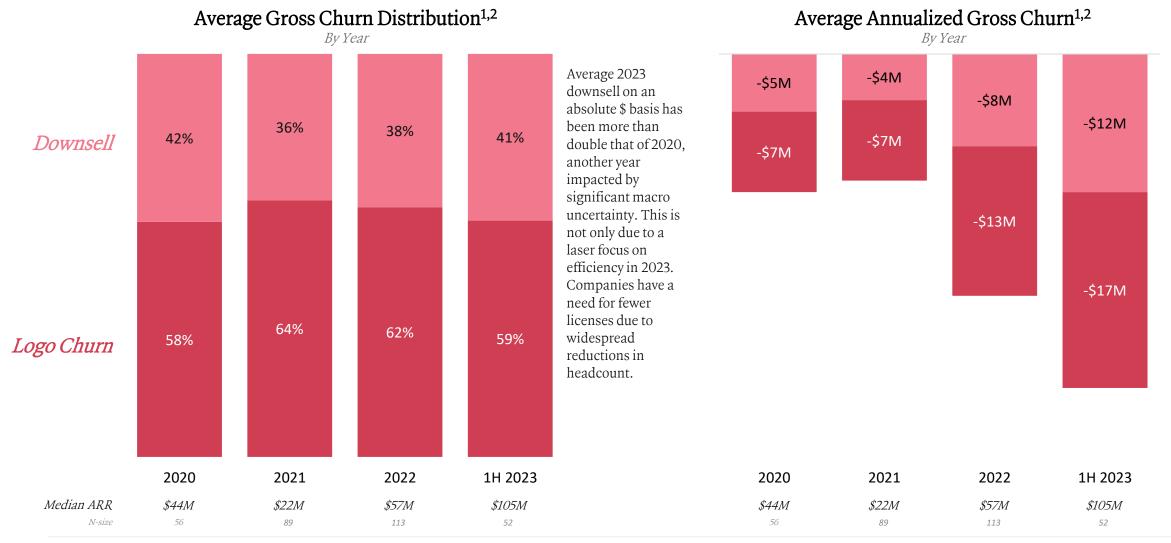
While the mix of expansion and new logo has stayed consistent, the absolute dollars have dropped in the first half of 2023





The SaaS Landscape | Drivers of Churn

Both logo churn and downsell have increased significantly since 2021, and to even higher rates than 2020 – another year impacted by macro volatility

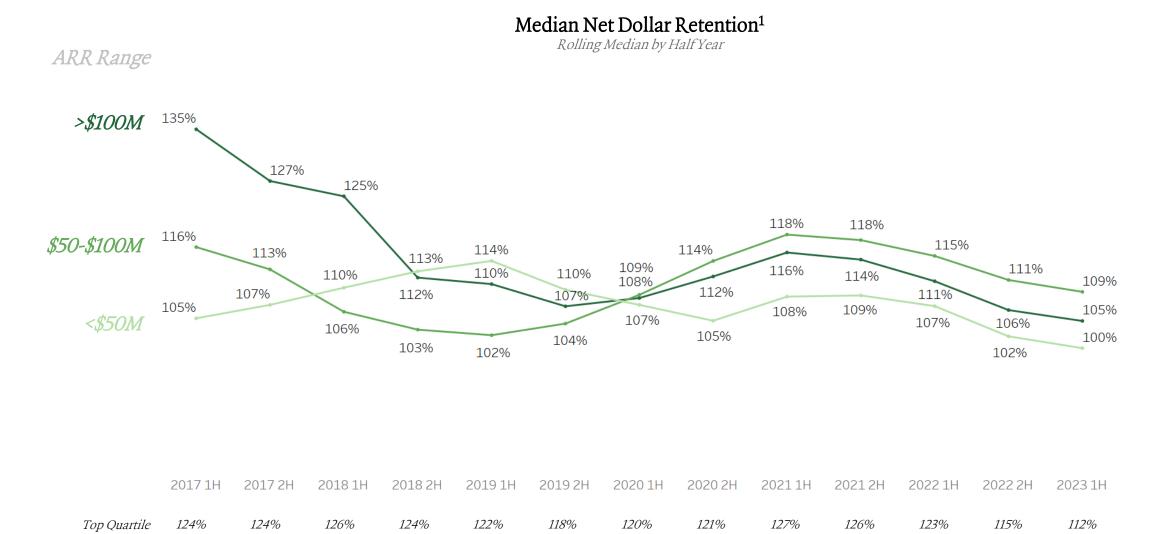


1 Quarterly operating and financial data from the companies included

2 Churn Rate = Gross Churned ARR / BOP ARR

The SaaS Landscape | Net Dollar Retention

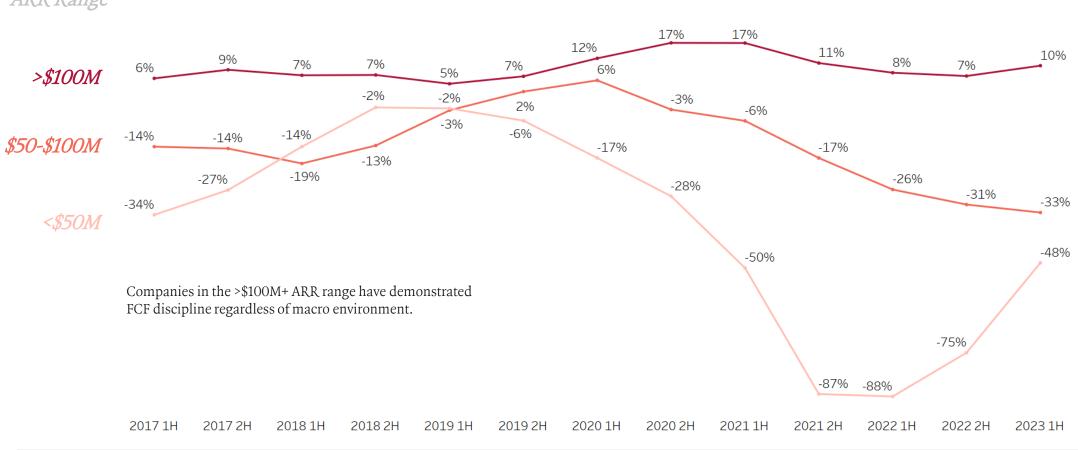
As a result, median net dollar retention has been impacted, falling from peak levels of 130+% in 2017 to ~105% as of 1H 2023



The SaaS Landscape | FCF Margin

As companies have pivoted to improving profitability amidst the challenging macro environment, FCF margins have started to slowly increase over the last year

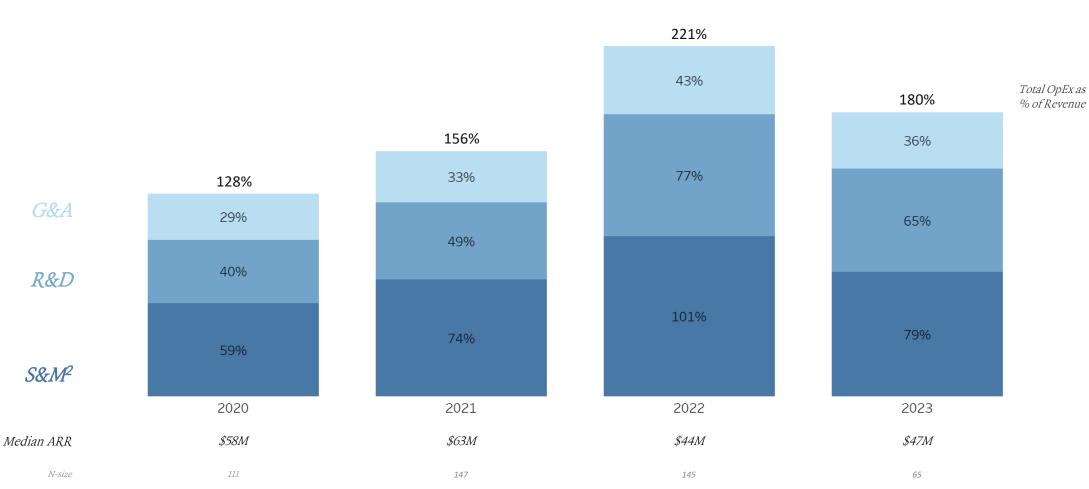
Top Quartile FCF Margin¹ *Rolling Average Top Quartile by Half Year*



ARR Range

SaaS Landscape | OpEx as a % of Revenue by Year

Cost-cutting measures are also evident in the reduction in spend as a % of revenue since 2022, with R&D seeing the biggest cut relative to prior years



OpEx as a % of Revenue by Type¹ Average by Year

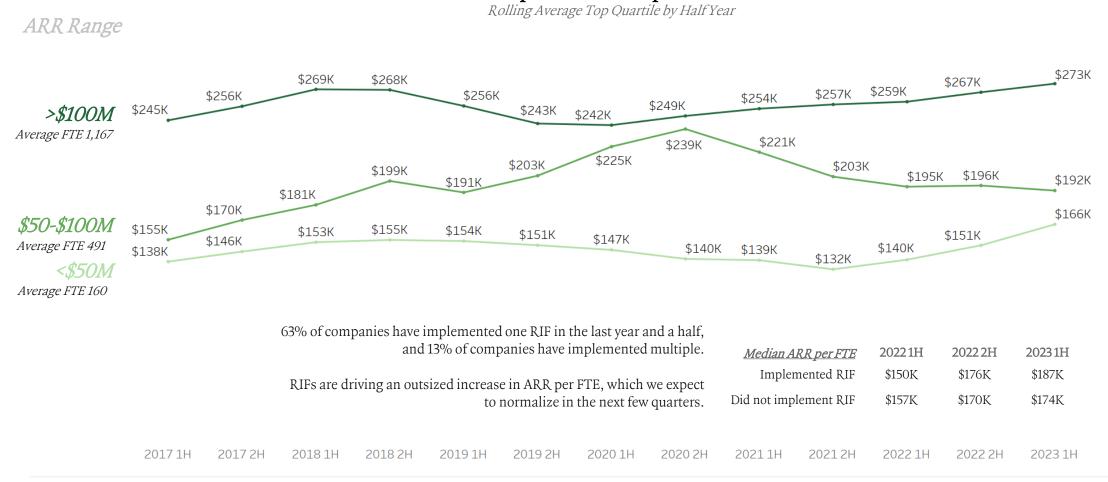
1 Quarterly operating and financial data from the companies included

2 Total Sales & Marketing OpEx includes Customer Success

The SaaS Landscape | Employee Productivity

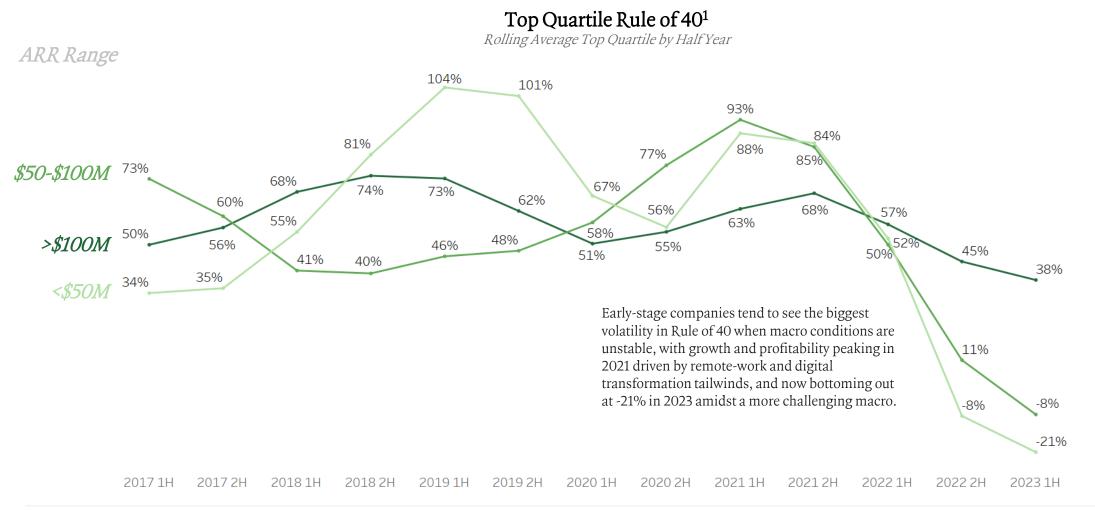
As companies have implemented hiring slowdowns and reductions in force (RIFs), ARR per FTE also improved over the last few quarters; although we expect this to dip down as the impact of these changes normalize

Top Quartile ARR per FTE¹



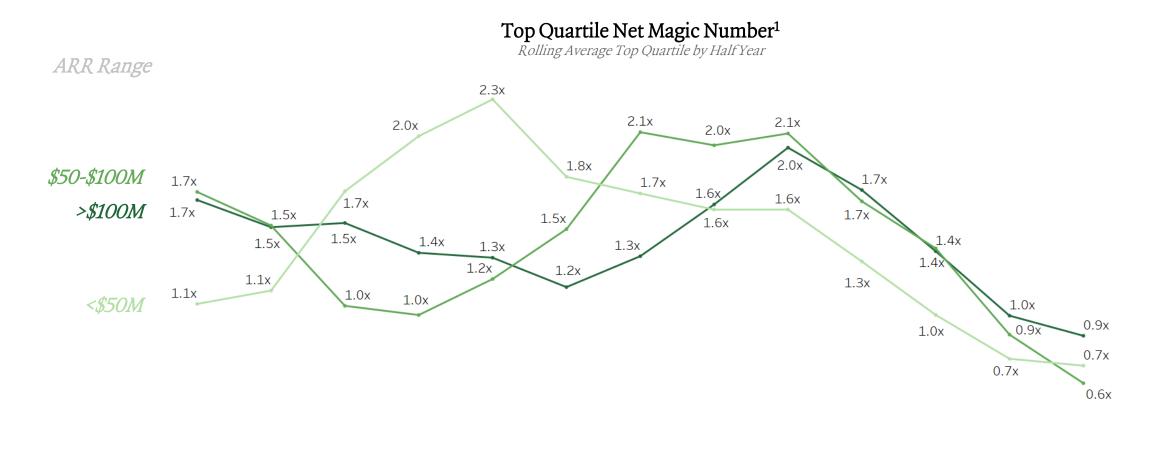
The SaaS Landscape | Rule of 40

However, reductions in spend have either not been made quickly or dramatically enough to make up for the rapid slowdown in growth; Rule of 40 has continued to decline throughout 2022 and 2023



The SaaS Landscape | Net Magic Number

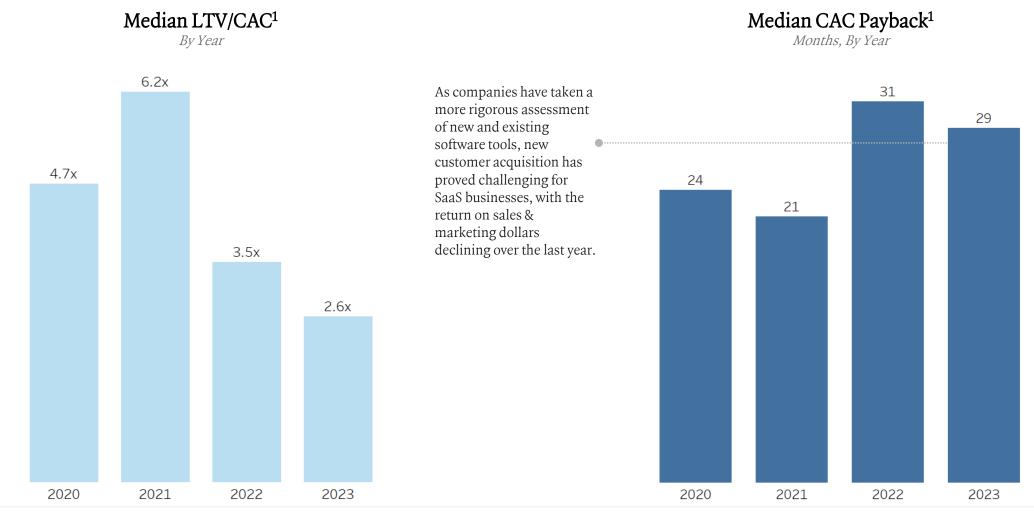
Similarly, sales efficiency (represented here via net magic number) has also declined as selling SaaS tools and platforms has become much more challenging in the current macro environment



2017 1H 2017 2H 2018 1H 2018 2H 2019 1H 2019 2H 2020 1H 2020 2H 2021 1H 2021 2H 2022 1H 2022 2H 2023 1H

The SaaS Landscape | LTV / CAC by Year

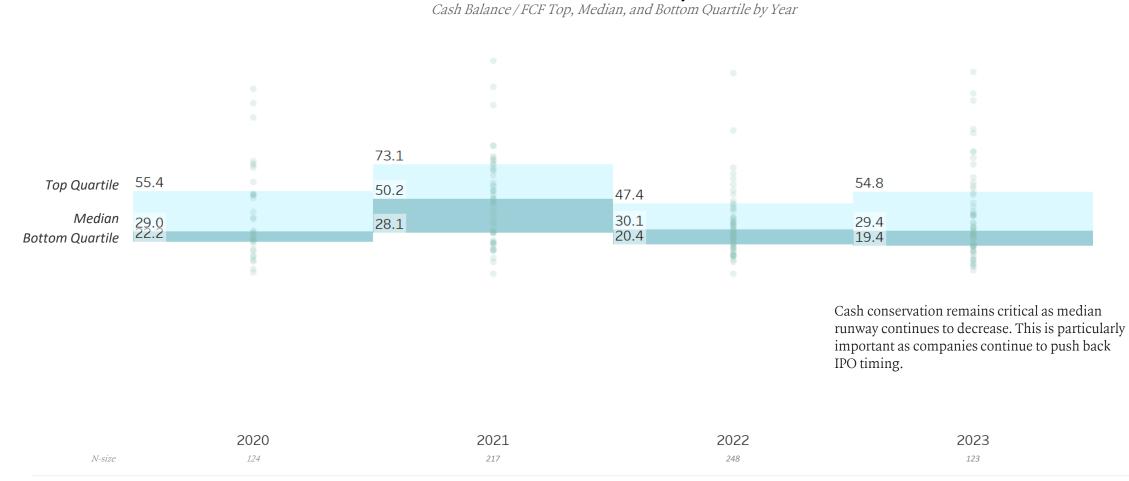
Customer acquisition continues to be challenging in 2023, with median LTV/CAC falling under 3x and CAC payback increasing to ~30 months



The SaaS Landscape | Runway by Year

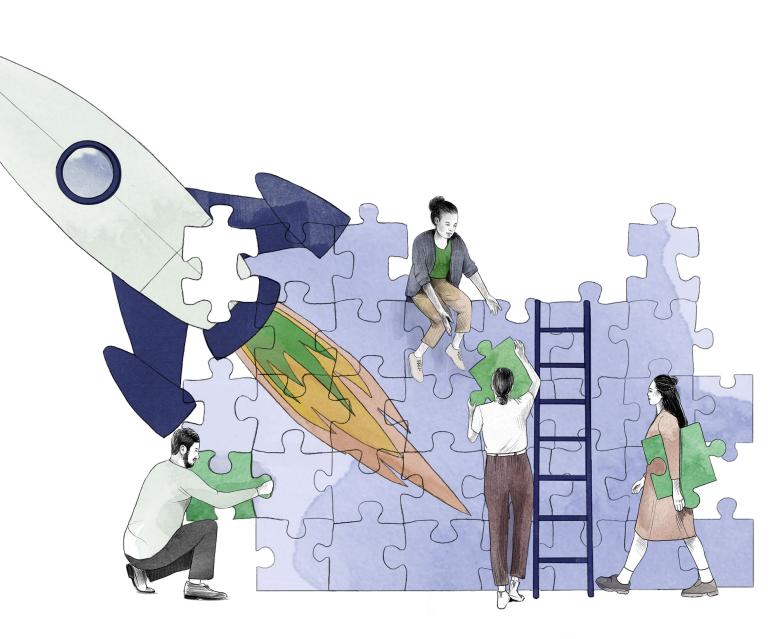
Runways and cash balances peaked in 2021 amidst a favorable fundraising market; as of 2023 however, median runway has declined to 29 months, implying that companies need to continue finding ways to preserve liquidity

Months of Runway¹



Best in Class Performance

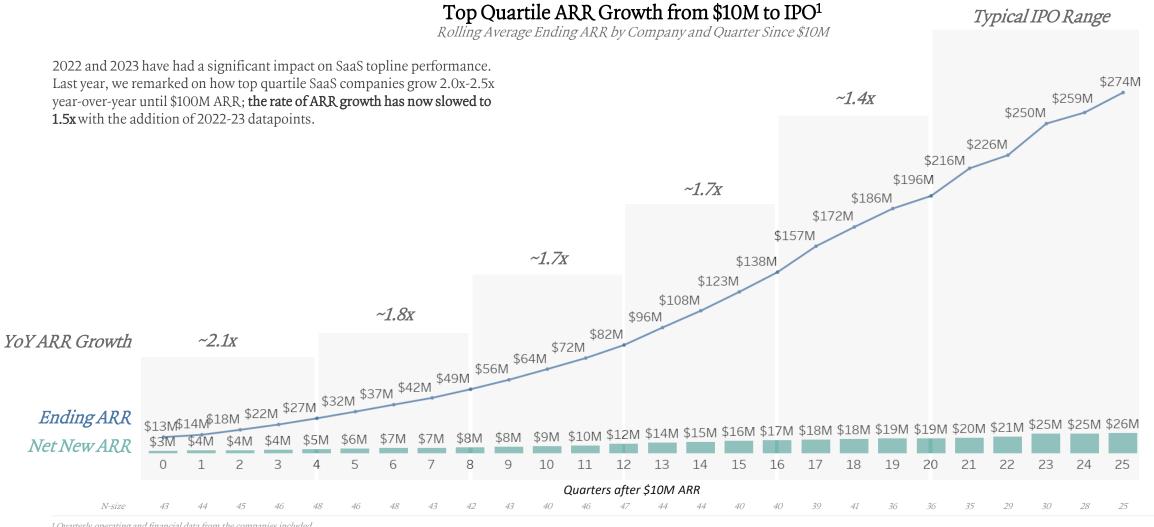
Drivers of Growth Efficiency





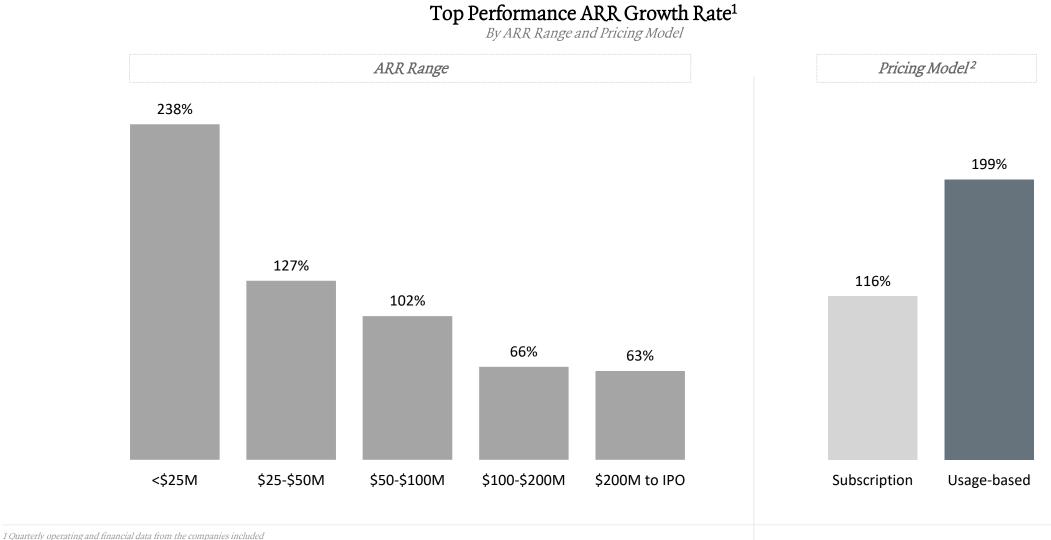
Drivers of Growth

Topline Health | ARR Growth since \$10M Enterprise SaaS companies with top performance in ARR growth grow around 1.5x each year until reaching \$100M ARR, at which point they are able to maintain YoY growth above 30% until IPO



Topline Health | ARR Growth Rate

Growth rate decreases as companies scale; Enterprise SaaS companies with top performance in ARR growth that utilize usage-based pricing models experience ~200% YoY growth



2 Pricing model comparison includes all top quartile companies regardless of ARR range

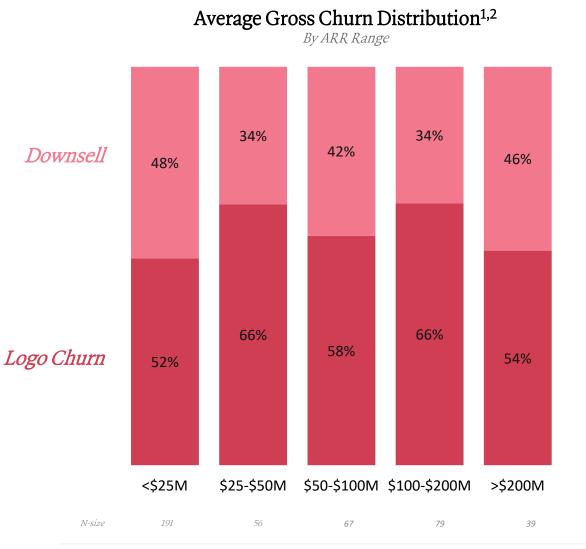
Topline Health | Drivers of ARR Growth by Scale

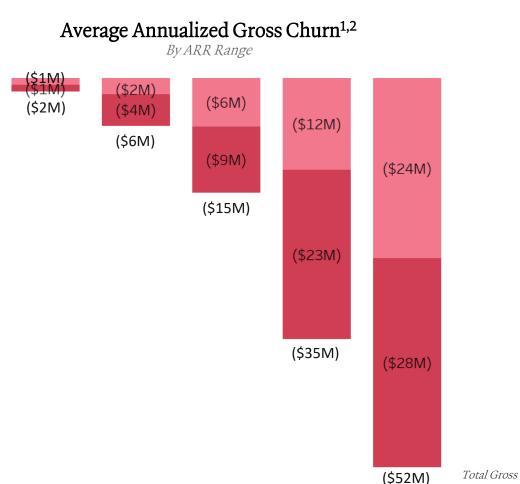
New logos are the primary driver of ARR growth until companies reach ~\$100M ARR, at which point expansion starts to contribute more than 50% of gross new ARR



Topline Health | Drivers of Churn by Scale

Logo churn usually makes up the majority of gross churn, with no significant variation in gross churn mix by stage





\$50-\$100M \$100-\$200M

79

67

1 Quarterly operating and financial data from the companies included

2 Churn Rate = Gross Churned ARR / BOP ARR

<\$25M

191

\$25-\$50M

56

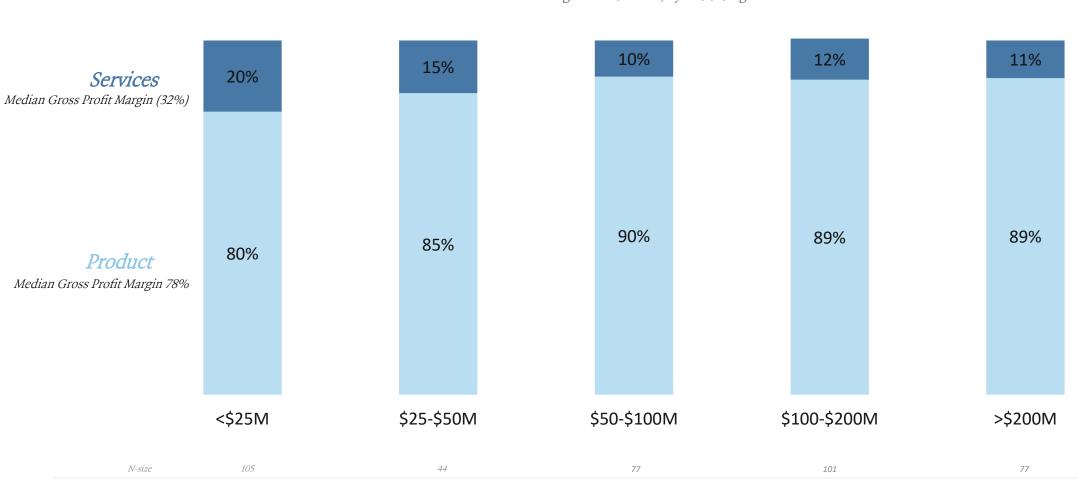
Churn

>\$200M

39

Topline Health | Product vs Services Revenue

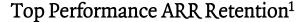
On average, 80-90% of revenue is driven by products vs. services, with product revenue comprising a greater portion of total revenue as companies scale. Services are generally not a strategic source of revenue, and are instead used as a means to drive higher retention and additional upsell



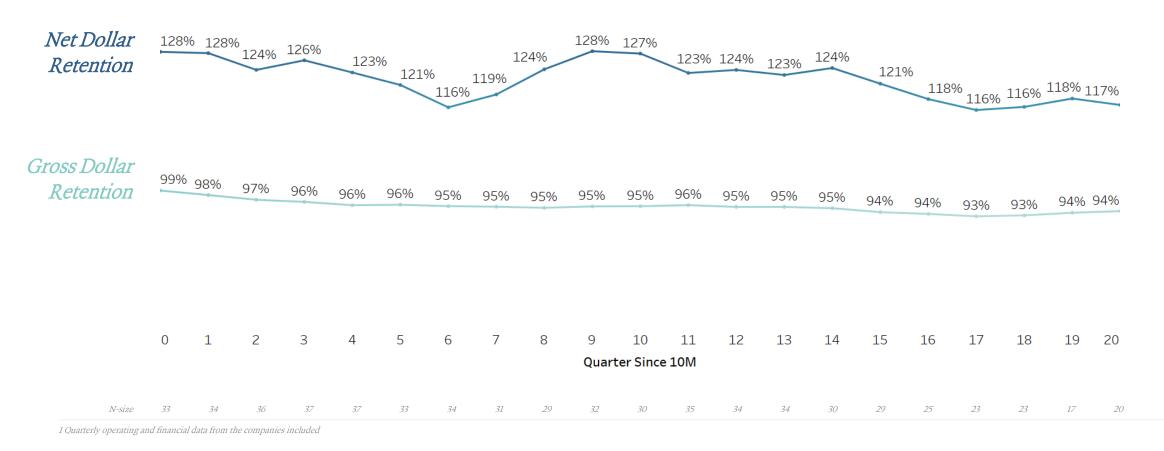
Product vs Services Mix¹ *Average % of Revenue, By ARR Range*

Topline Health | ARR Retention

Top quartile companies usually achieve 115+% net dollar retention and 95%+ gross dollar retention consistently once they have scaled past \$10M ARR

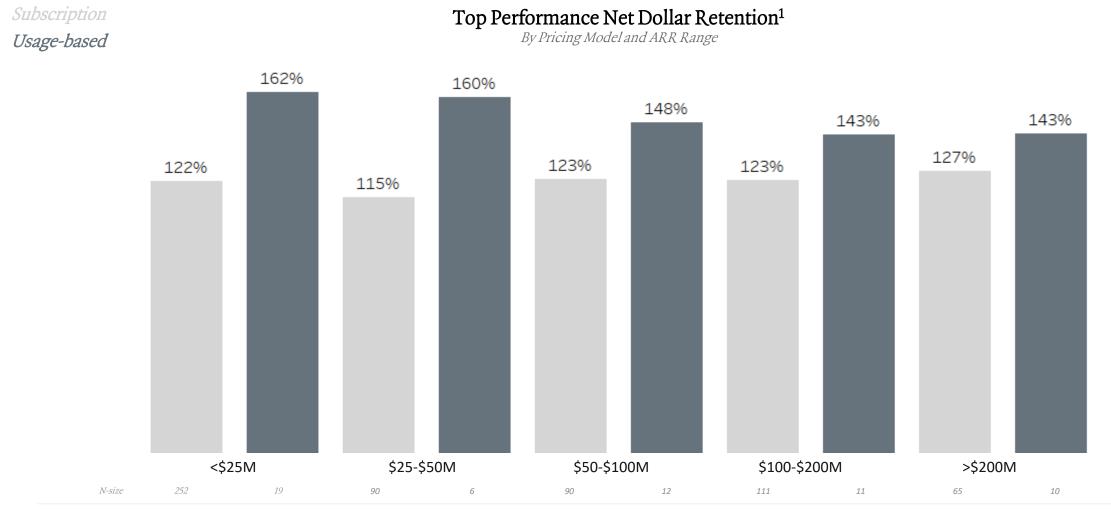


Rolling Top Quartile Annualized Net and Gross ARR Retention by Quarters after \$10M ARR



Topline Health | ARR Retention by Pricing Model

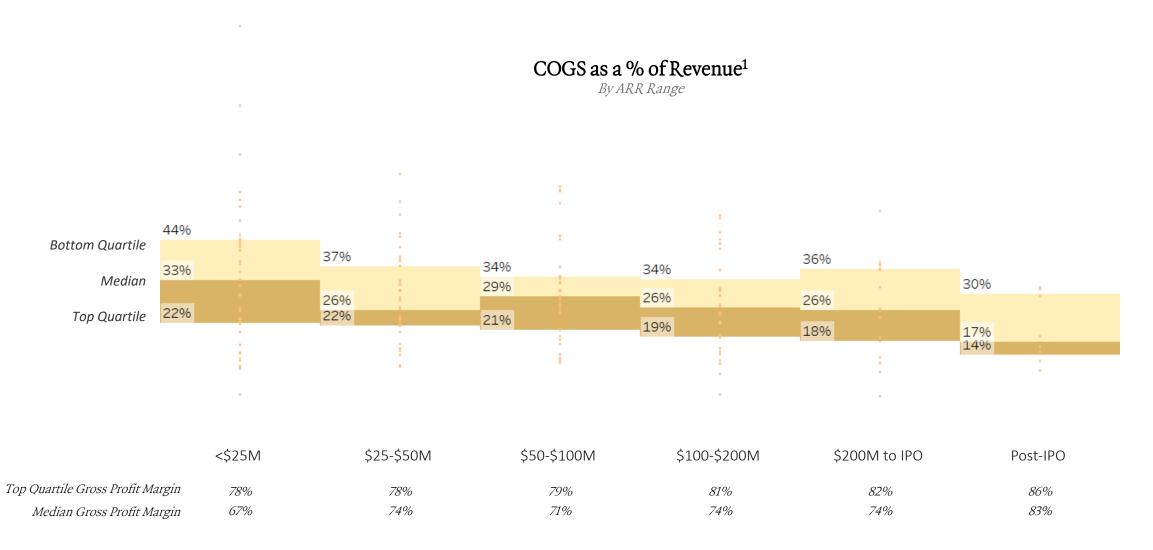
SaaS companies with usage-based pricing models tend to experience greater volatility in net dollar retention as they scale, as usage-based pricing models are more susceptible to spikes in both expansion and downsell



Efficiency

Unit Economics | COGS as a % of Revenue by Scale

Software companies typically have ~70%+ gross margins and are able to reduce COGS on a per unit basis as they scale



Unit Economics | COGS as a % of Revenue by Growth Motion

PLG companies tend to see significant leverage and reduced COGs compared to sales-led companies once they hit \$50M ARR, likely driven by strong self-serve motions and fewer implementation costs



COGS as a % of Revenue¹

By Growth Motion

Unit Economics | Magic Number

Usually requiring lower S&M spend, PLG companies also tend to have higher efficiency compared to sales-led growth companies with top quartile gross magic number usually closer to 2x



Top Quartile Net Magic Number^{1,2,3} By ARR Range

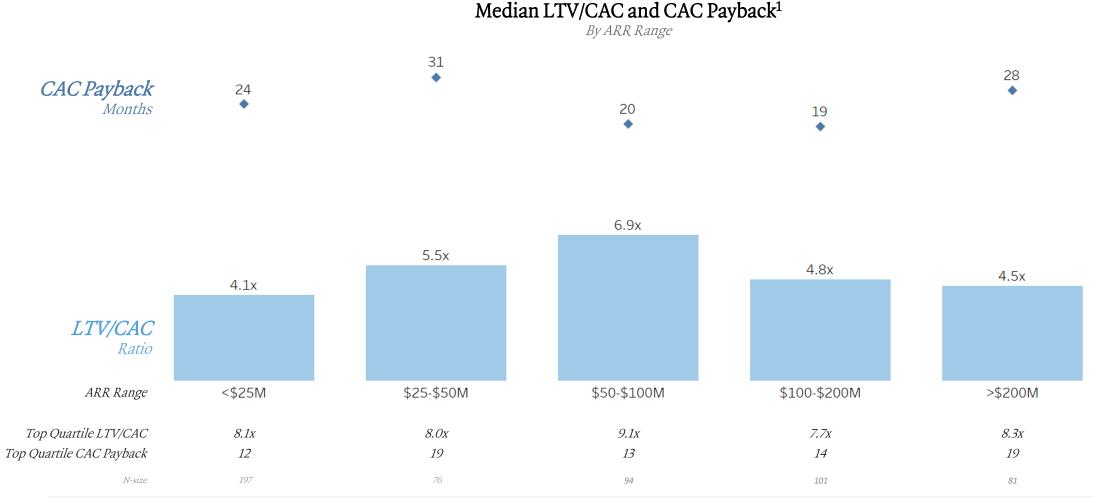
1 Quarterly operating and financial data from the companies included

2 Net magic number = Current quarter net new ARR / prior quarter S&M OpEx

3 Quarter of S&M OpEx utilized in magic number calculations should depend on a given company's sales cycle

4 Gross magic number = Current quarter gross new ARR / prior quarter S&M OpEx

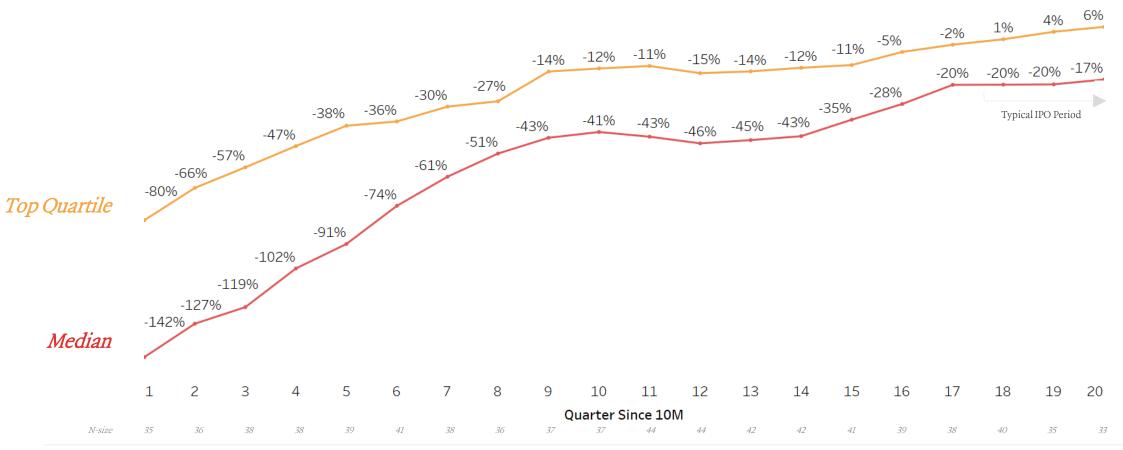
Unit Economics | LTV / CAC by Scale SaaS companies typically see a LTV/CAC ratio of 4-7x depending on scale and a median CAC payback of 20-30 months



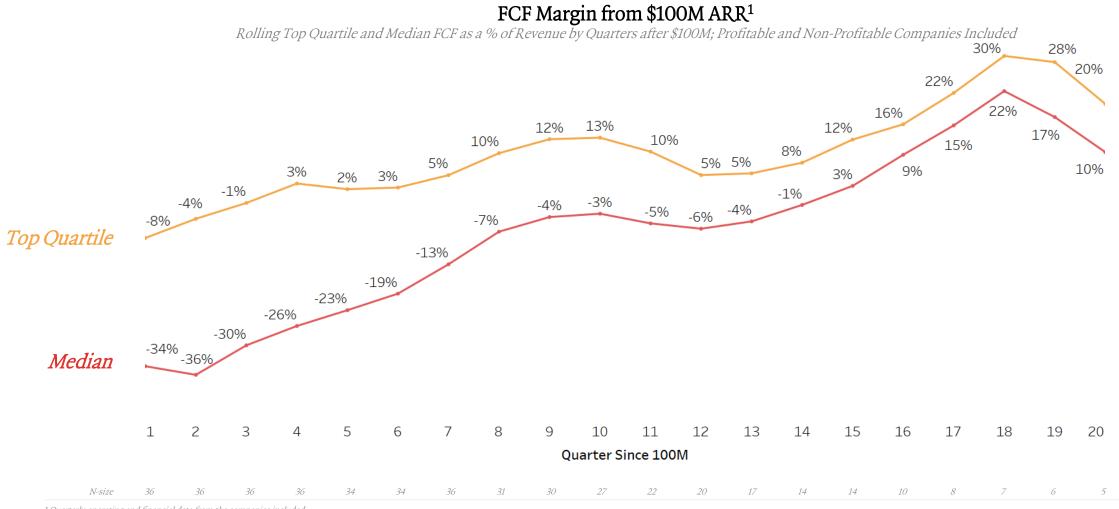
Efficiency | FCF Margins Top quartile SaaS companies achieve profitability 6-7 years after reaching \$10M ARR

FCF Margin from \$10M ARR¹

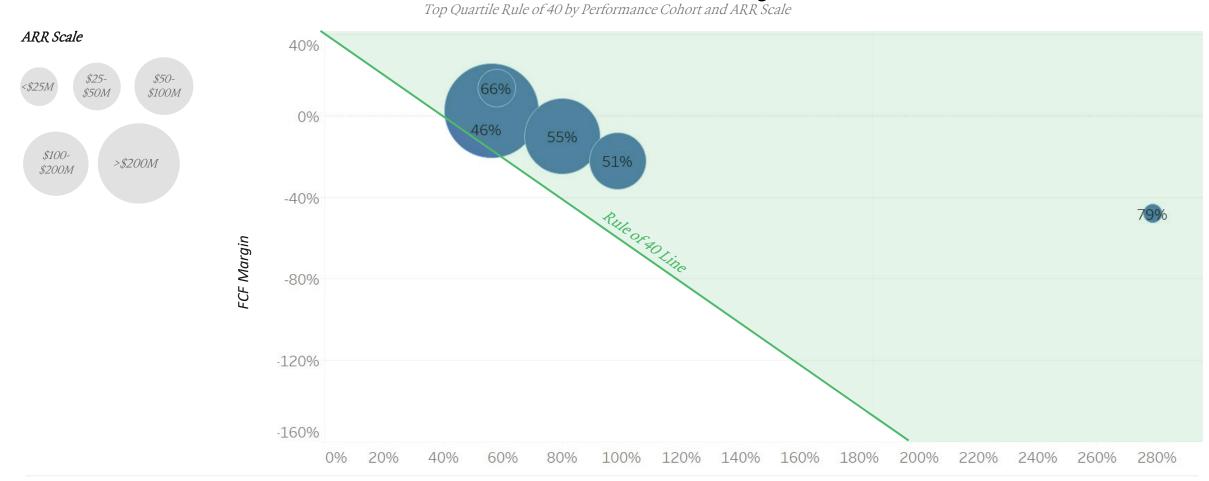
Rolling Top Quartile and Median FCF as a % of Revenue by Quarters after \$10M; Profitable and Non-Profitable Companies Included



IPO Readiness | FCF Margin On average, SaaS companies approach profitability 3-4 years after reaching \$100M ARR, while top quartile companies reach profitability ~1.5 years sooner



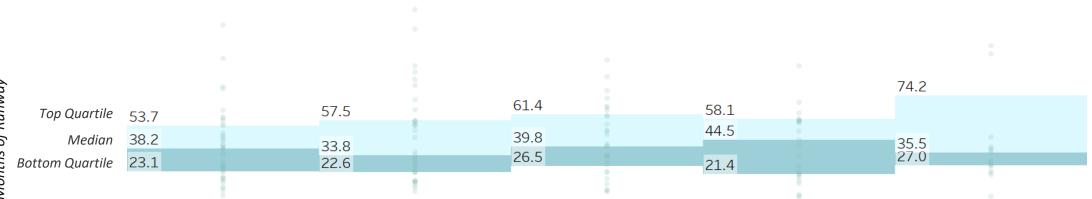
Efficiency | Rule of 40 Rule of 40 tends to decline as SaaS companies scale and growth slows. However, top quartile companies are able to achieve Rule of 40 regardless of ARR scale



Rule of 40: YoY ARR Growth + FCF Margin¹

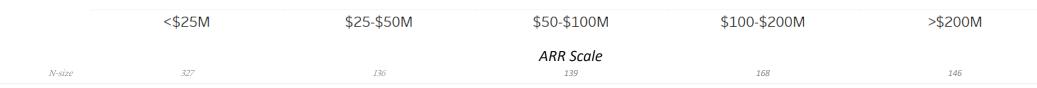


Efficiency | Runway On average, SaaS companies maintain a median of ~35+ months of runway regardless of scale



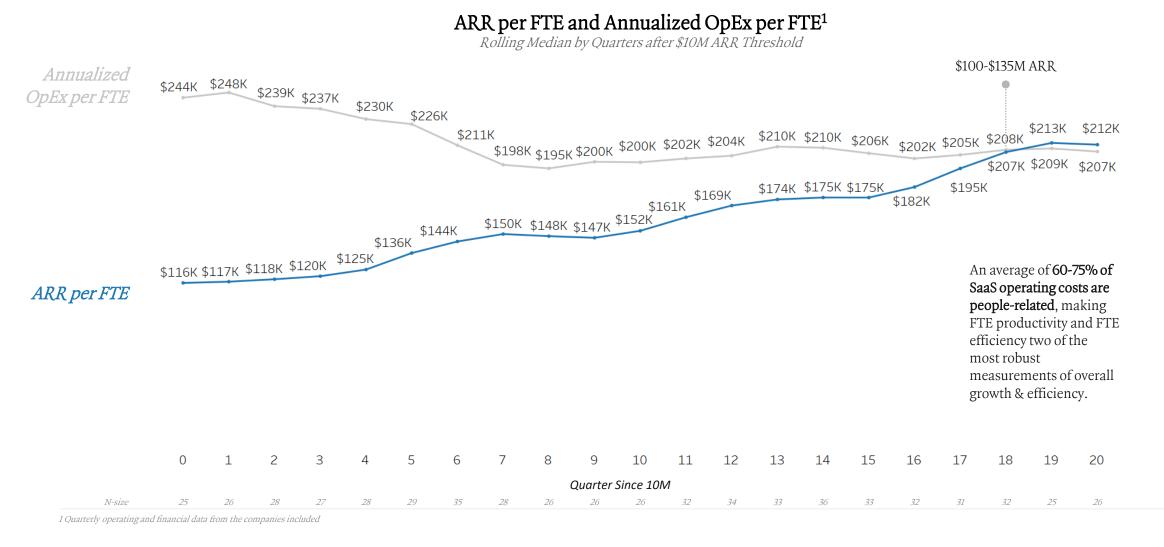
Months of Runway¹

Cash Balance / FCF Top, Median, and Bottom Quartile by ARR Scale

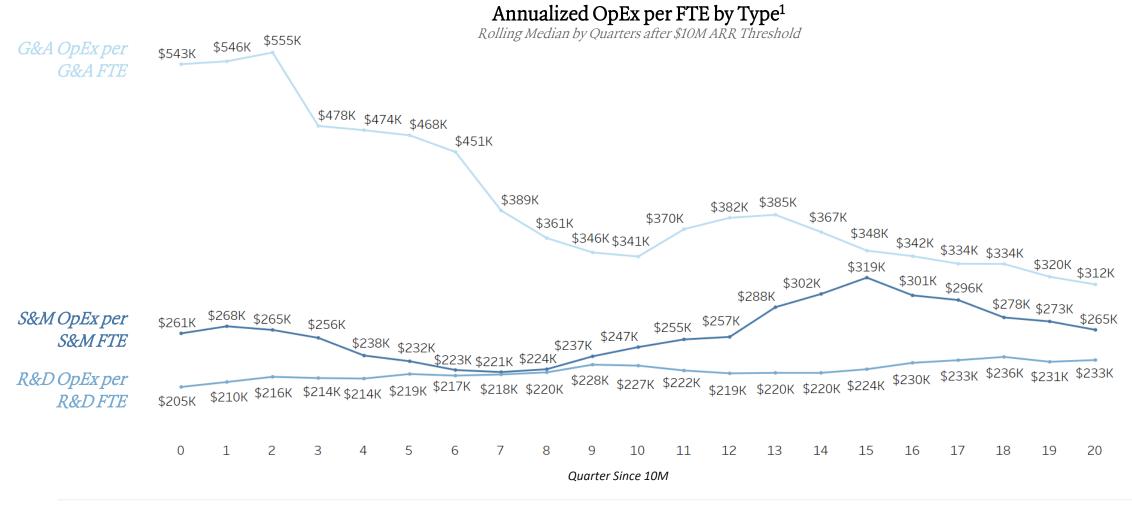


Efficiency | Headcount Productivity vs Efficiency

Over time as companies scale, ARR per FTE should outpace OpEx per FTE as companies find increasing leverage and improve per employee productivity

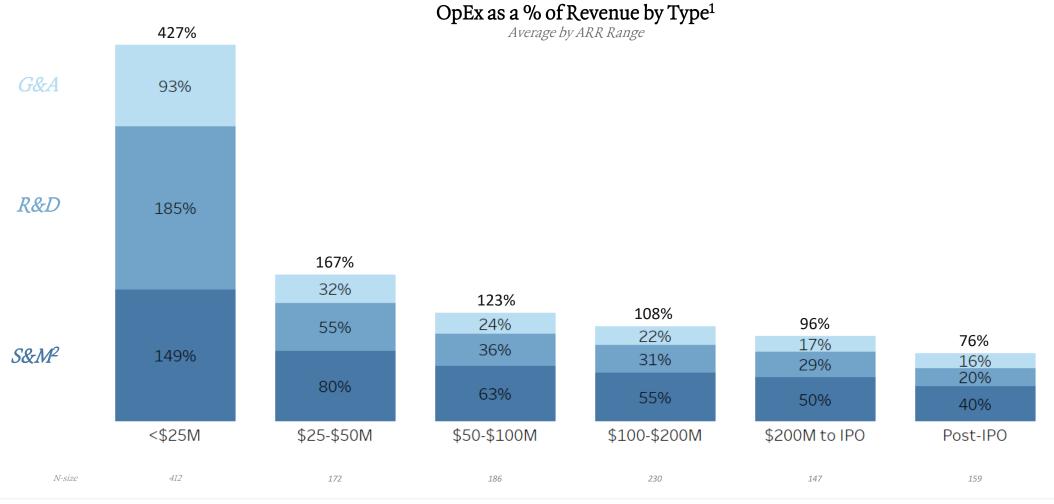


Efficiency | Spend per FTE G&A typically comprises the highest spend per FTE; however, as companies scale, average spend per FTE tends to converge around \$200-300K



Cost Allocation | OpEx as a % of Revenue by Scale

Over time as SaaS companies scale, revenue should start to outpace total operating spend once companies reach ~\$200M in ARR

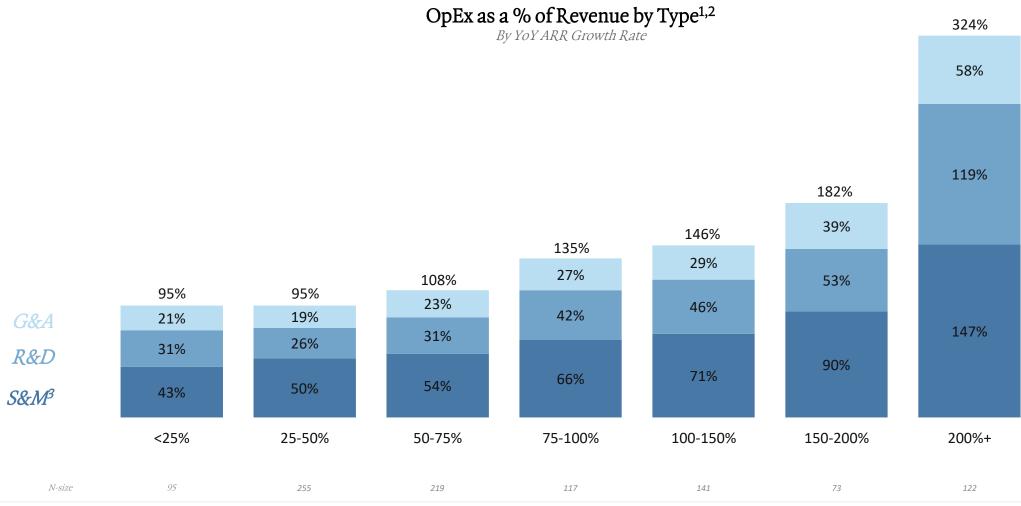


1 Quarterly operating and financial data from the companies included

2 Total Sales & Marketing OpEx includes Customer Success

Cost Allocation | OpEx as a % of Revenue by Growth Rate

Total operating spend scales directionally with pace of growth. For hyper-growth companies in the 200%+ YoY range, total operating spend outpaces revenue by 3x



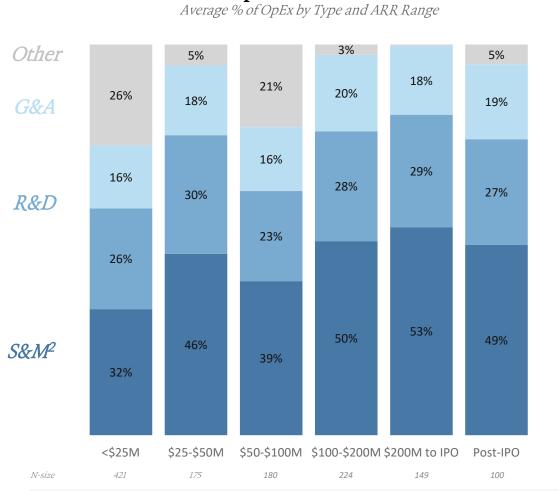
1 Quarterly operating and financial data from the companies included

2 OpEx distribution excludes 'Other' OpEx due to data availability

3 Total Sales & Marketing OpEx includes Customer Success

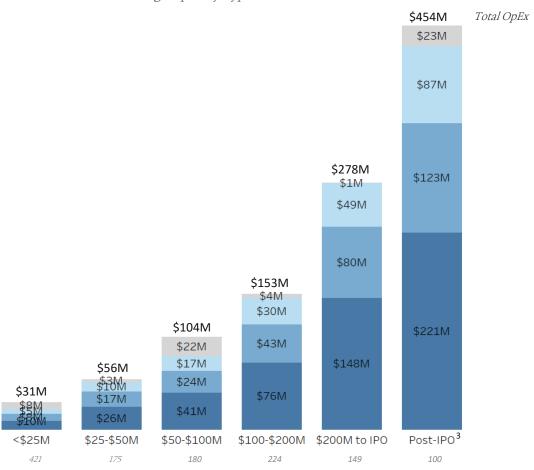
Cost Allocation | OpEx Distribution by Scale

As companies mature and invest in GTM to drive revenue growth, R&D starts to make up an increasingly smaller proportion of total operating spend



OpEx Distribution¹

OpEx Distribution (\$)¹ Average OpEx by Type and ARR Scale



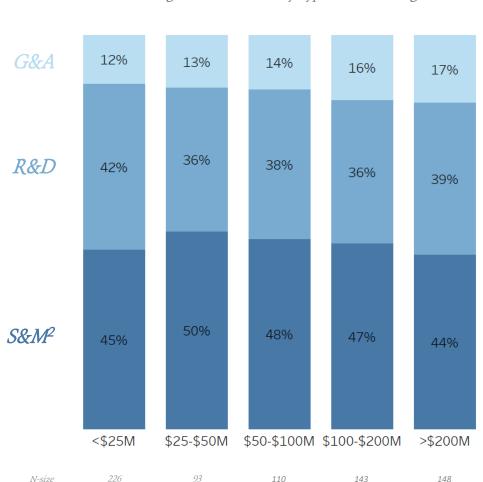
1 Quarterly operating and financial data from the companies included

2 Total Sales & Marketing OpEx includes Customer Success OpEx

3 "Post-IPO" includes data within 2 fiscal years after IPO

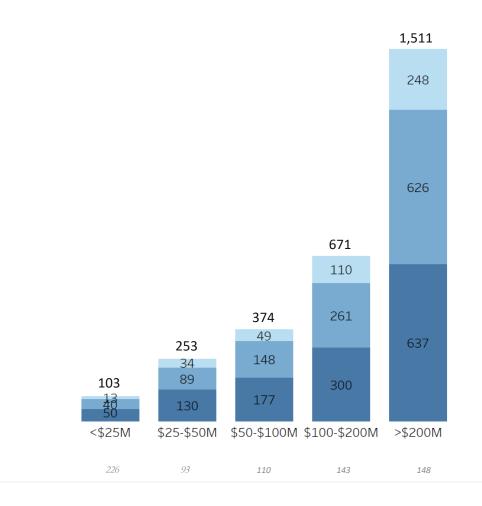
Cost Allocation | Headcount Distribution

Similarly, R&D also comprises a smaller proportion of total headcount as companies invest in go-to-market excellence leading up to IPO





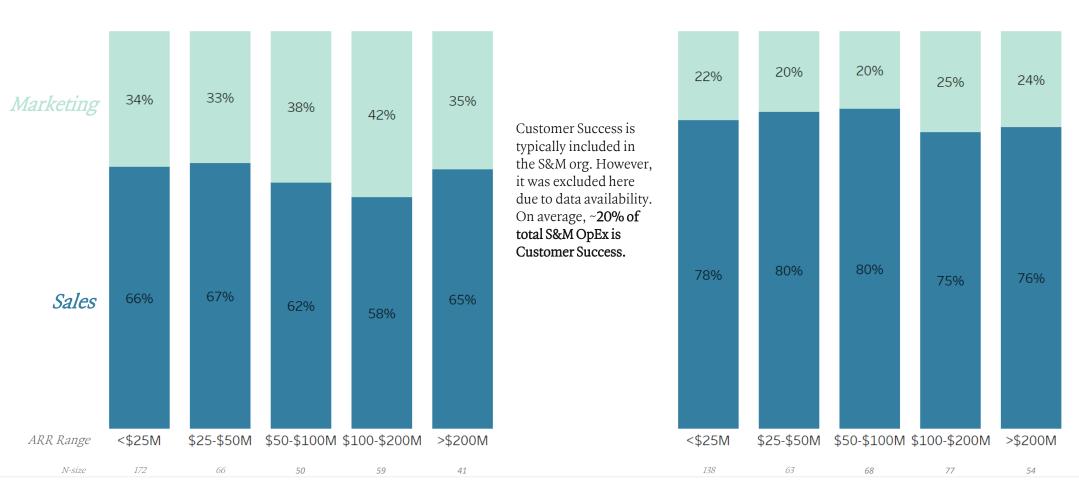
FTE Distribution¹ Average Headcount by Type and ARR Range



1 Quarterly operating and financial data from the companies included 2 Total Sales & Marketing OpEx includes Customer Success OpEx

Cost Allocation | GTM Spend Sales spend usually comprises 65-75% of total GTM spend and around 70-80% of total GTM headcount

S&M OpEx Distribution¹ Average % of S&M OpEx by Type and ARR Range

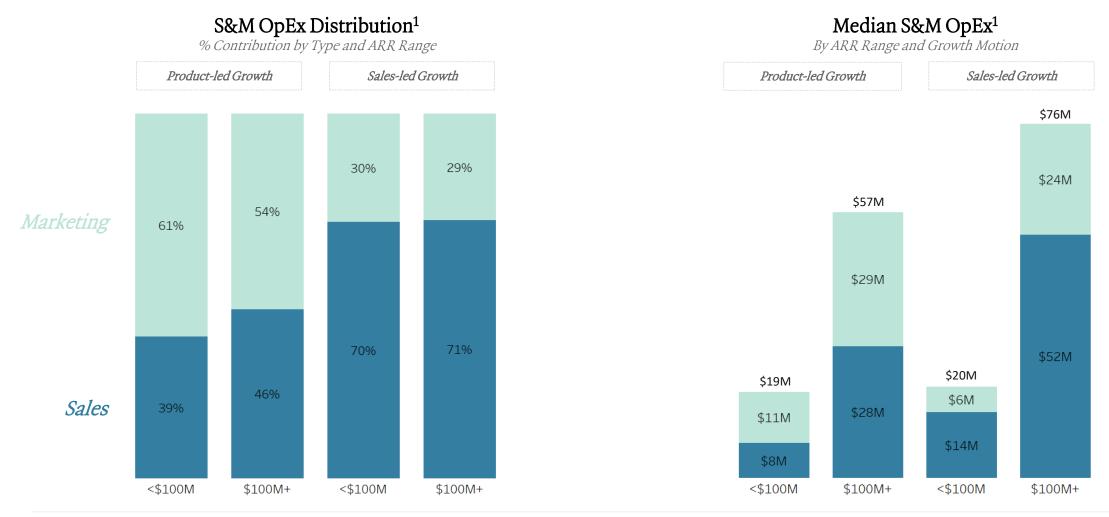


S&M FTE Distribution¹

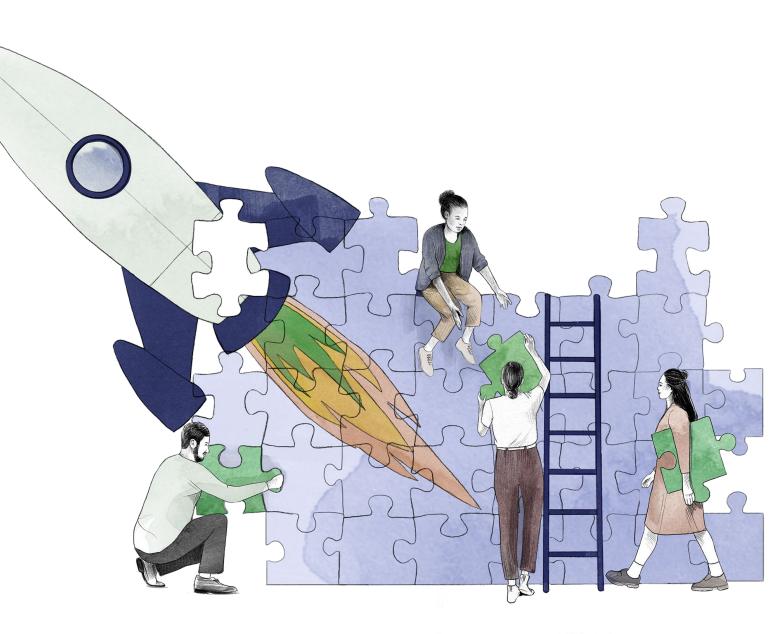
Average % of S&M Headcount by Type and ARR Range

Cost Allocation | GTM Headcount by Growth Motion

On average, PLG companies allocate more dollars to marketing over sales compared to sales-led growth companies



The Resiliency Rubric





THE ICONIQ GROWTH Resiliency Rubric

<u>Legend</u> Median Top Quartile

What is the Resiliency Rubric?

Read about why we believe it's so important for SaaS companies to start tracking these 5 metrics in the current market.

In addition to the Enterprise Five, we recommend SaaS companies keep in mind these additional metrics that will drive resilience in times of volatility		Median & Top Quartile Performance by ARR Range ¹							
		<\$25M	\$25-\$50M	\$50-\$100M	\$100-\$200M	\$200M to IPO	Post-IPO ⁵		
1	Quick Ratio Gross New ARR / Gross Churned ARR	8x 19x	5x 16x	6x 11x	5x 10x	4x 6x	Low N-Size		
2	Topline Attainment Actuals as % of annual plan, net new cumulative bookings	Companies should aim to achieve 100% quarterly net new attainment of their topline plan, regardless of scale. Top performers have managed to stay in the 80-100% range regardless of scale in the current environment.							
3	Burn Multiple	2.0x 1.1x	1.6x 0.7x	0.9x 0.5x	1.1x 0.6x	0.9x 0.4x	0.3x 0.2x		
4	CAC Payback CAC / (New MRR x Gross Margin) ³	22 10	28 15	20 13	19 14	34 19	12 8		
5	Productivity Ratio	0.5x 0.7x	0.7x 0.8x	0.9x 1.1x	1.0x 1.3x	1.2x 1.4x	1.2x 1.5x		

Given the current environment, we expect that **median benchmarks shown here will be more realistic for companies to target in 2023**, but have included top quartile as *1 Quarterly operating and financial data from the companies included* reference for "best in class" performance regardless of time period

2 Non-profitable companies only

3 CAC Payback shown in months. Overall gross margin reflects customer support

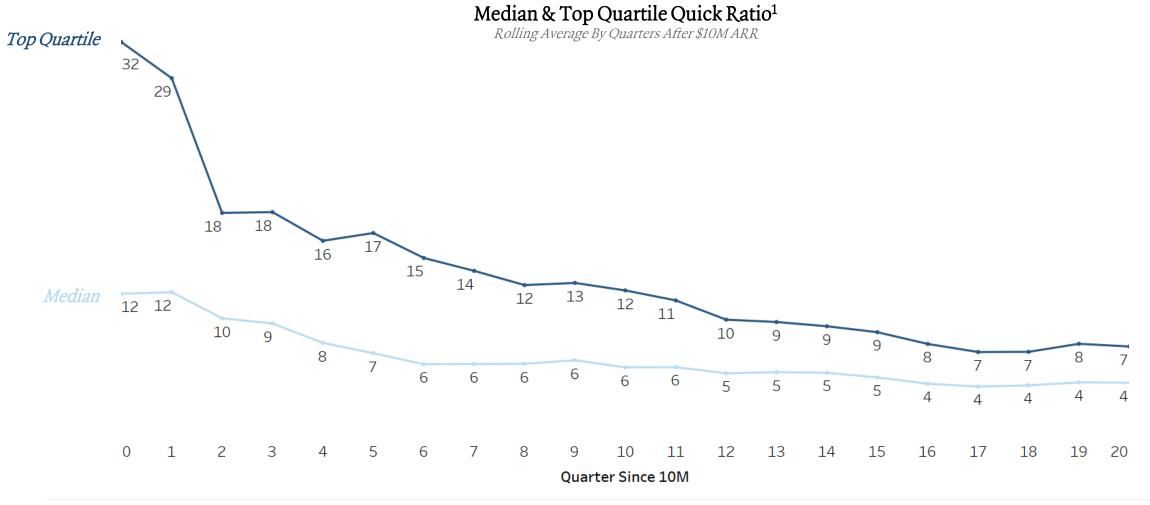
4 The productivity ratio = ARR / OpEx. We believe it is topical to present the ratio in this format as companies

continue to look at metrics on a per FTE basis post-RIF 5 Within 2 fiscal years after IPO

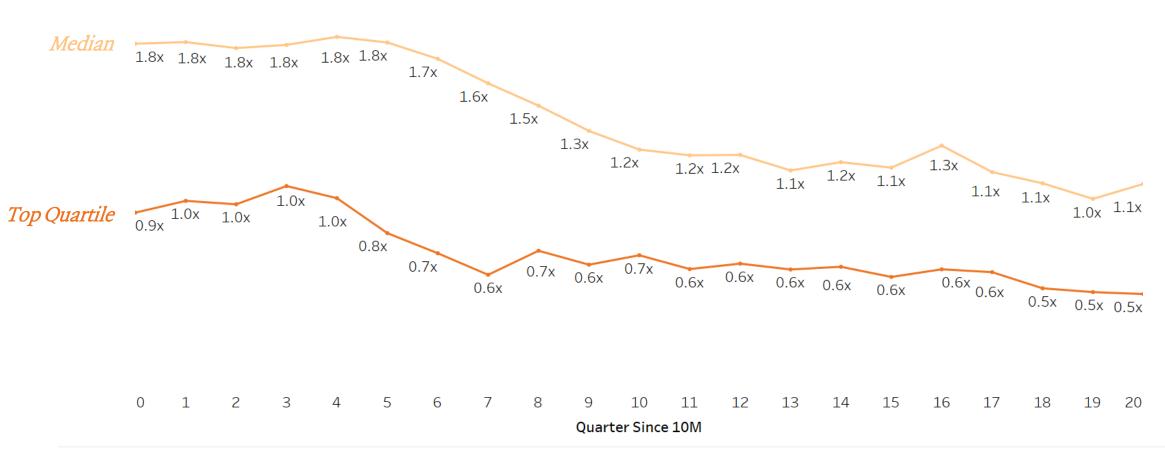
ICONIO | Growth

The Resiliency Rubric | Quick Ratio

Quick ratio measures bookings growth vs. contraction; as companies scale, quick ratio naturally decreases. However, top quartile companies are able to maintain a quick ratio above 7x even after reaching \$100M ARR



The Resiliency Rubric | Burn Multiple Top quartile companies maintain a burn multiple under 1x after reaching \$10M ARR

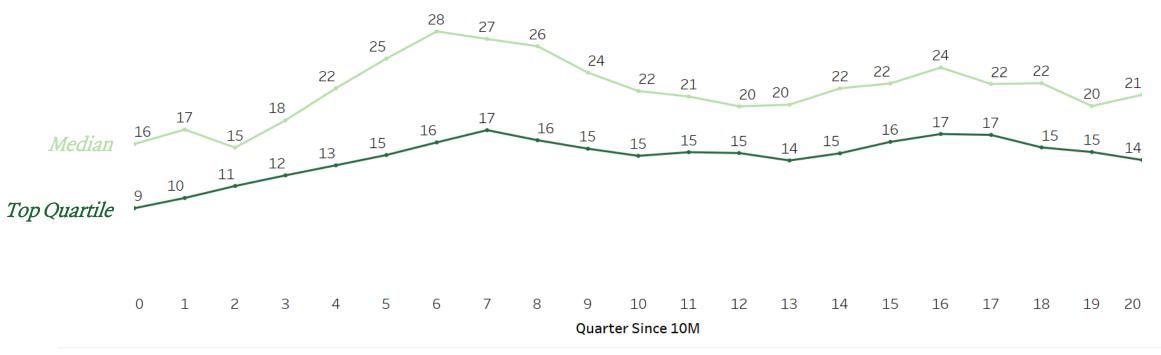


Burn Multiple¹ *Rolling Top Quartile and Median by Quarters after \$10M; Only Non-Profitable Companies*

The Resiliency Rubric | CAC Payback Top-quartile companies maintain a CAC payback of under 20 months after reaching \$10M ARR

Top Quartile CAC Payback¹

Rolling Top Quartile and Median by Quarters After \$10M ARR, Excluding PLG Companies



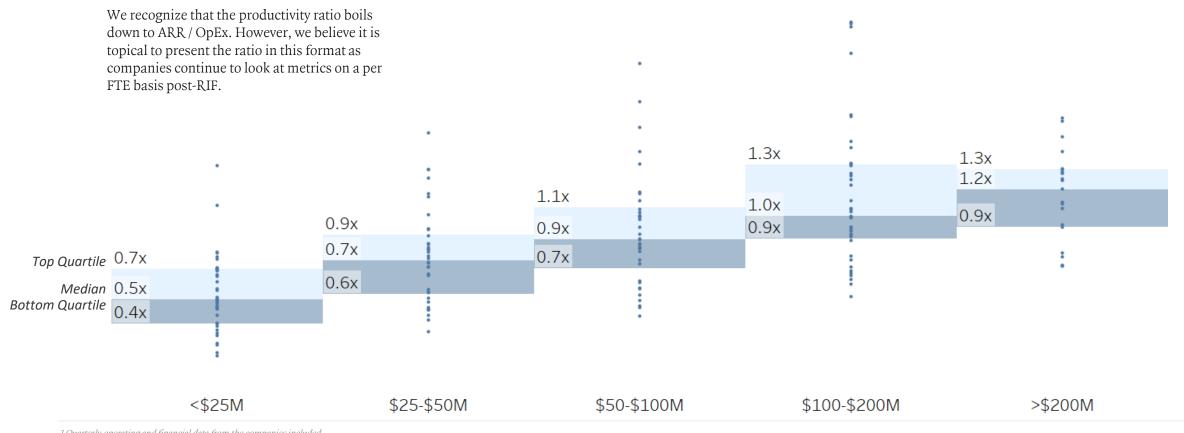
¹ Quarterly operating and financial data from the companies included

The Resiliency Rubric | Productivity Ratio

The productivity ratio measures how much ARR is generated per employee vs how much spend is being invested per employee. As companies scale, they should aim to achieve a productivity ratio greater than 1.0x

Top Quartile ARR per FTE / OpEx per FTE¹

By ARR Range



Appendix

Supplemental Materials



CONTENTS

A global portfolio of category-defining businesses

1Password	adyen	SI Age of Learning	🚫 airbnb	矝 Airtable	👻 ajaib	Alibaba.com	alteryx	∧ PPRENTICE	APT <i>TUS</i>
articulāte	🕷 aurora	AUTOMATTIC	🗙 AXONIUS	*bamboohr*	👮 Benchling	BetterUp	bill.com	🐱 BLACKLINE	braze
Calendly	🞽 Campaign Monitor	causaly	Captivate <mark>IQ</mark>	chime	CLARA	Collibra	Sconexiom	र्द्ध coupa	CROWD STRIKE
cyber 🎇 GRX	DATADOG	🕗 dataiku	💢 dbt	d Devoted Health	de <mark>x</mark> care	🏟 dialpad	DocuSign	DRATA	enfusion
Epic	EPIC	ez cater	fastly		Fireblocks	, Fivetran	Flipkart	FREEWILL	FTX
💎 Gem	GitLab	gofundme	GoodR	GreenSky	😑 Groww	Guild	HashiCorp	headspin	HEPTAGON
Ohighradius		hightouch	<u></u> Hippo	HONEST	houzz	iex		<i>in</i> vision	📦 komodo
💥 loom	Lucid	MARQETA	附 miro	MONTE CARLO	motorway [.]	Moveworks	Nayya	& netskope	notable
Notion	Orca	v panther	people. <mark>a</mark> í	Pigment	Pinecone	PLURALSIGHT	Primer	PROCORE	🔇 QGenda
ramp ノ	recharge	R E D V E N T U R E S	Reify health		(Re) prise	Restaurant 365	Robinhood 🖉	SANITY	sendbird
ServiceTitan	oshopmonkey	Oside	😈 skuid		snowflake	SPOTIXIANNA	🍂 sprinklr	SQUĪRE	
	€ truckstop	turbonomic	twin	📦 Twistlock	Uber	/// Unit21	🔰 UNITE US	vic.ai	
	(v)	VITTU WARB	Y PARKER 🕺	wayfair we	ealthsimple	Wolt 🔅 zin	nier <mark>ZOO</mark>	m	

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