

Battery Ventures

STATE OF THE OPENCLOUD

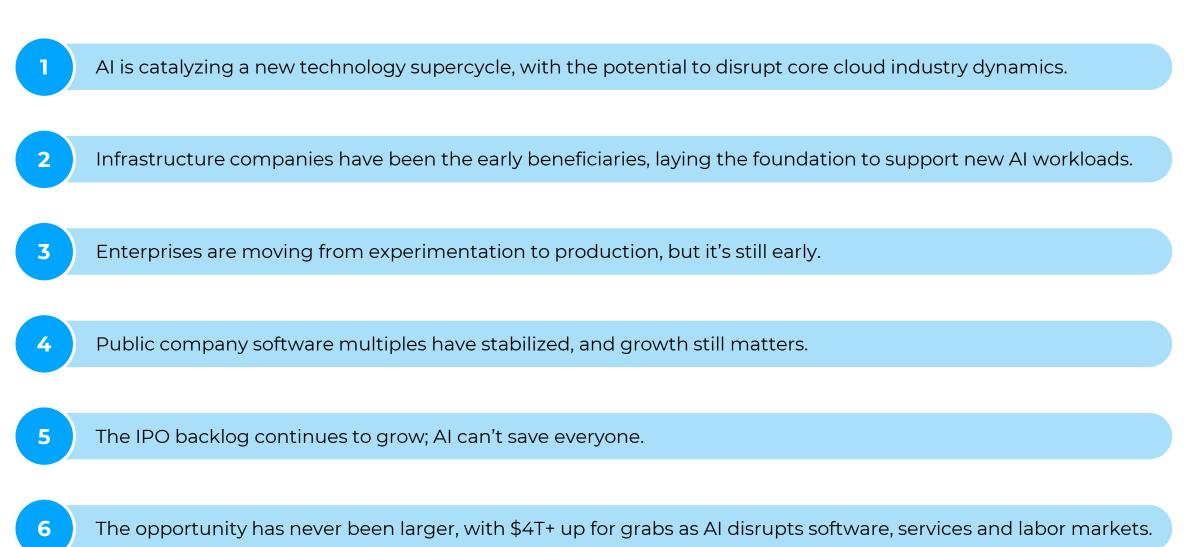
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NOVEMBER 2024

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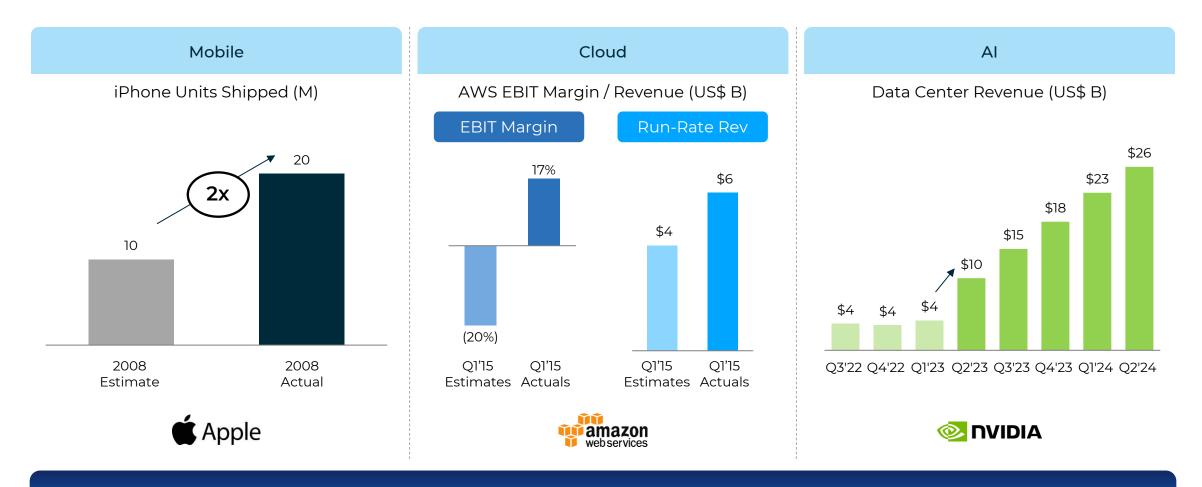
Al is driving the next wave of cloud growth





Macro Update

Just like mobile and cloud, AI is the next platform shift

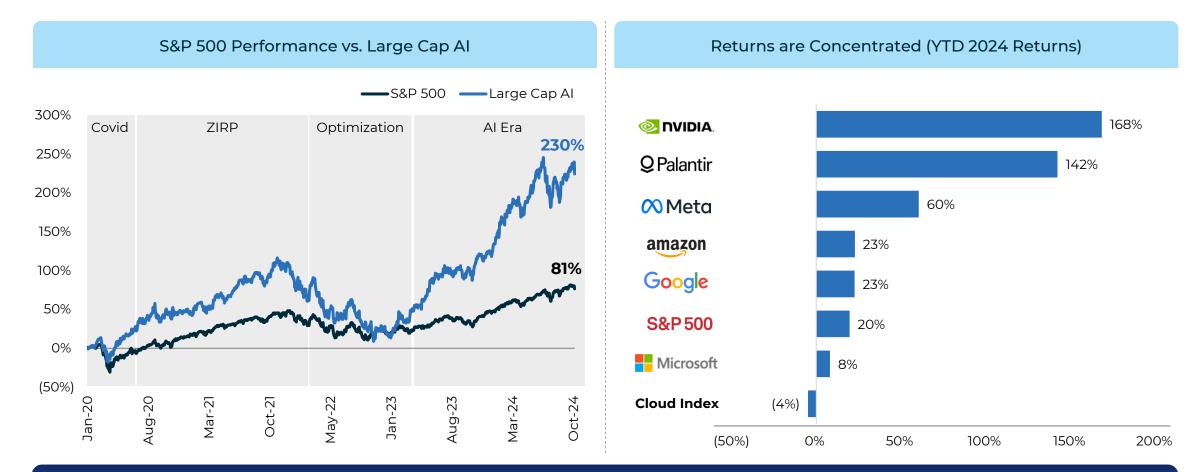


Infrastructure build-outs are a precursor to technology supercycles.

Source: Apple, Amazon and Nvidia earnings. Goldman Sachs Research. Note: Apple data CY2008. AWS FYE 12/31 and estimates based on consensus figures. Nvidia FYE 1/31.



Markets reached new highs, driven by large-cap Al

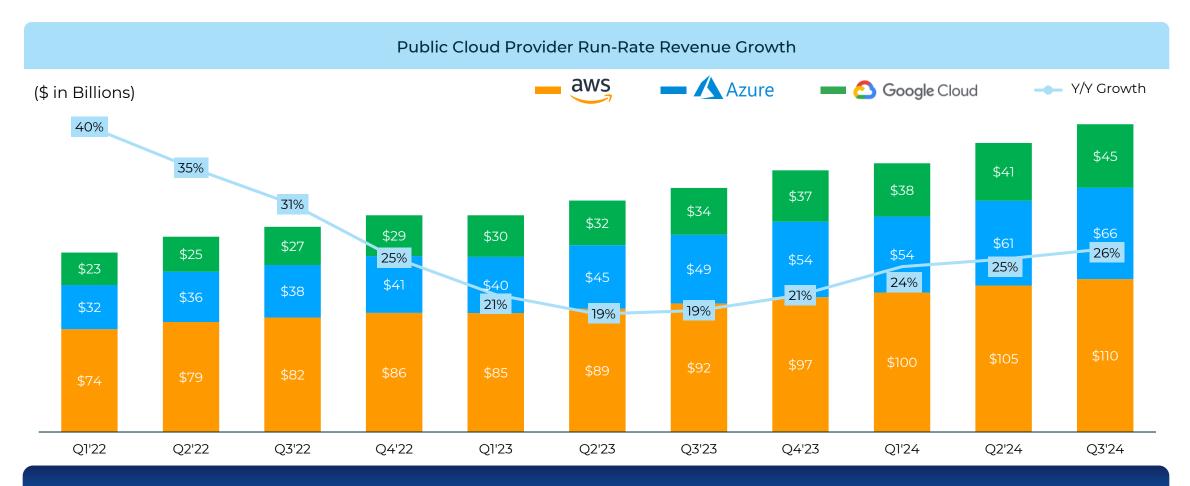


The S&P 500 is experiencing strong growth, driven by core infrastructure companies laying the foundation for an Alpowered future.

Source: CapIQ. Cloud Index represents EMCLOUD. Note: Market data as of 10/31/24.



AI has reshaped public cloud provider growth ...

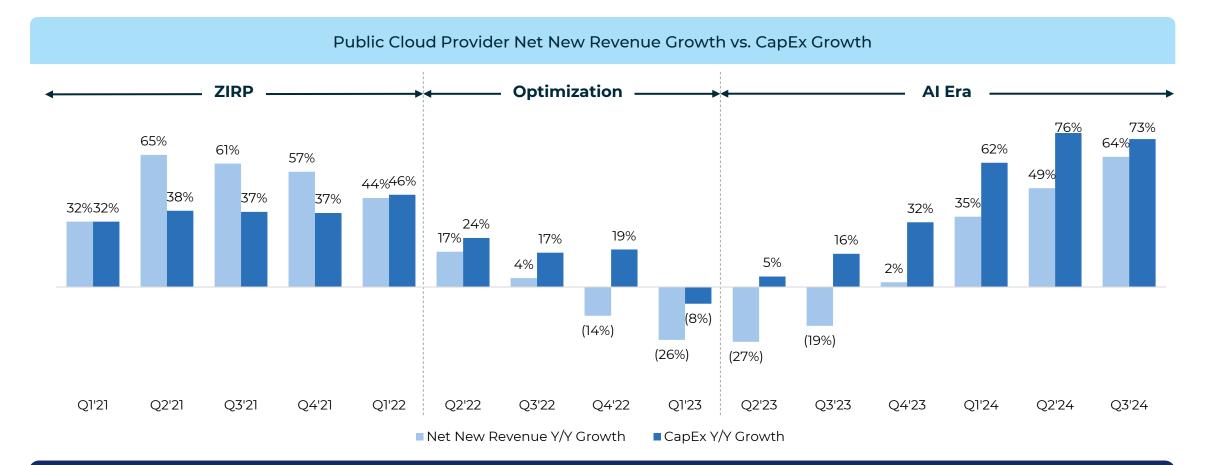


AI has unlocked new workloads for cloud providers, reaccelerating growth following optimization headwinds.

Source: Company filings and Goldman Sachs research. Note: In Q3'24 MSFT restated Azure disclosures to better reflect consumption revenue and growth.



... and cloud providers continue to invest ahead of the curve.

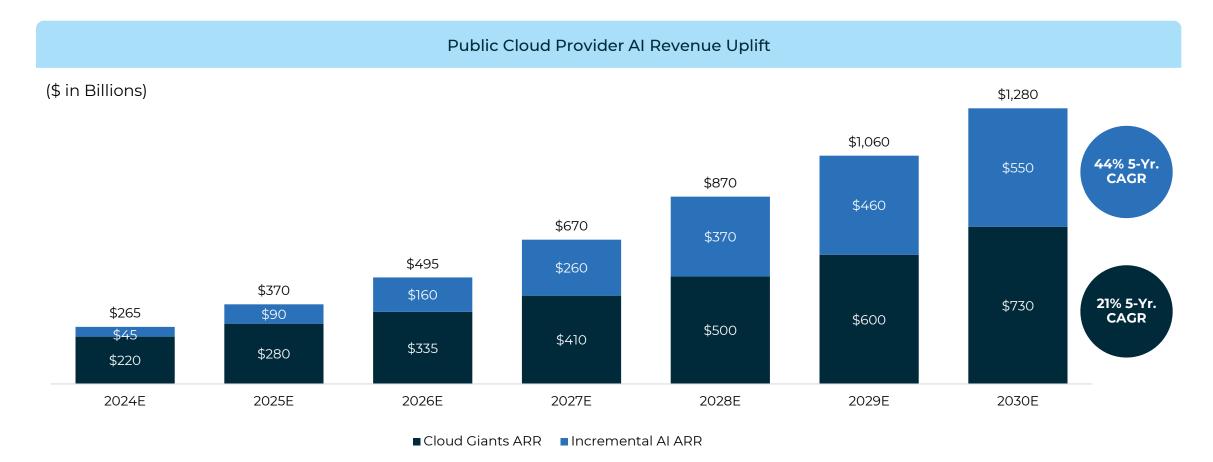


Cloud providers are aggressively expanding AI infrastructure capacity to meet growing customer demand.

Source: Company filings and Goldman Sachs Research. Note: Represents the sum of AWS, Azure and GCP.



Al will fuel the next era of cloud consumption



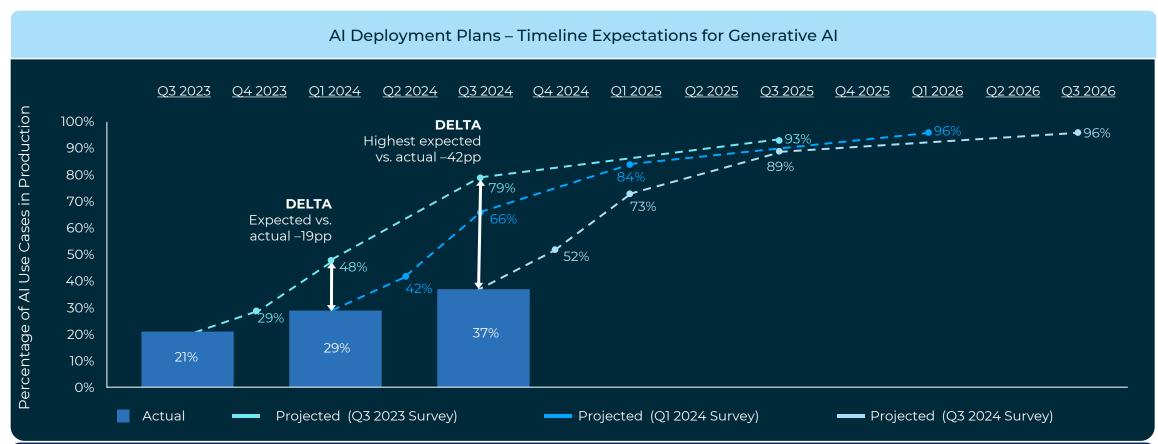
Cloud adoption is rapidly expanding with AI, and the stakes have never been higher. There is ~\$2T+ of incremental cumulative revenue that is up for grabs by 2030.

Source: Goldman Sachs research.

Note: Incremental AI ARR implied from Nvidia's data center revenue. Battery estimates and assumptions include \$25K GPU ASP, % of data center revenue attributable to Cloud Providers, Cost per GPU/Hr., and GPU utilization rate. Cloud Giants includes AWS, GCP, and Azure.

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There is a delineation between experimental vs. established budgets . . .

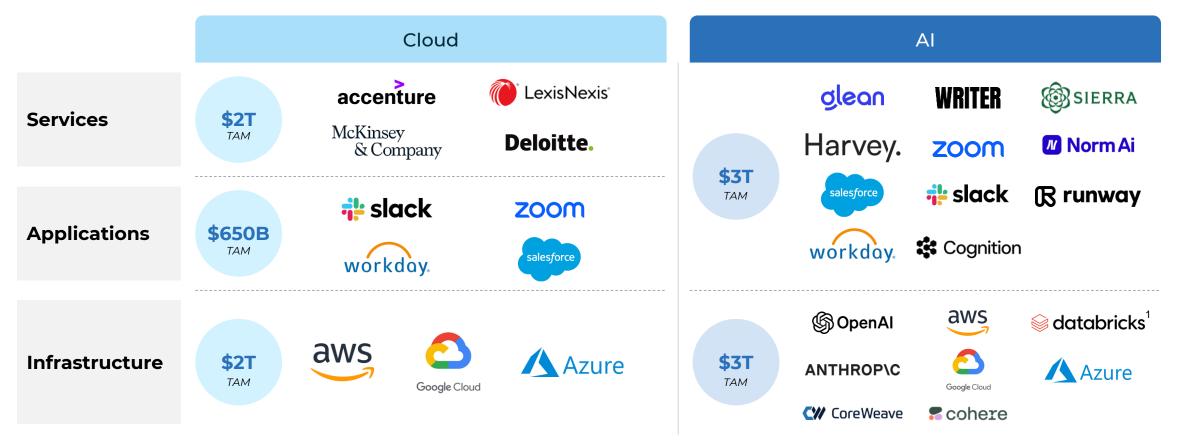


Excitement about AI is high, but most companies are still in the early stages of deployment, with fewer projects in production than expected.

Source: Battery Ventures 2024 State of Enterprise Tech Spending Survey.



... but maturing use cases are driving value creation for Alnative application and infrastructure companies.



The potential value has never been higher as a new AI stack emerges, allowing software to penetrate a larger market opportunity than ever before.

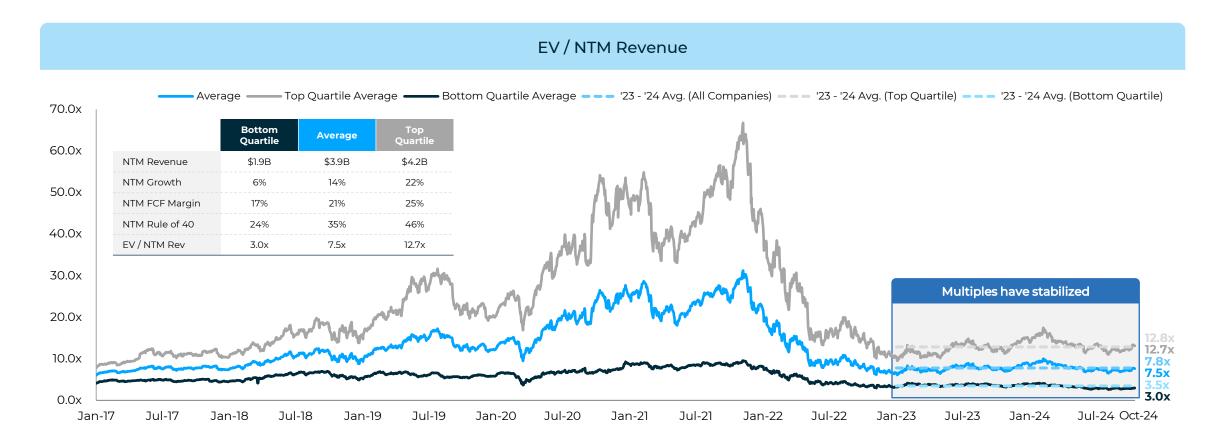
Source: Gartner.

Note: TAM represents 2028 estimate.

1. Denotes a past or current Battery company. For a full list of all Battery investments, please click here.



SaaS multiples have begun to stabilize ...

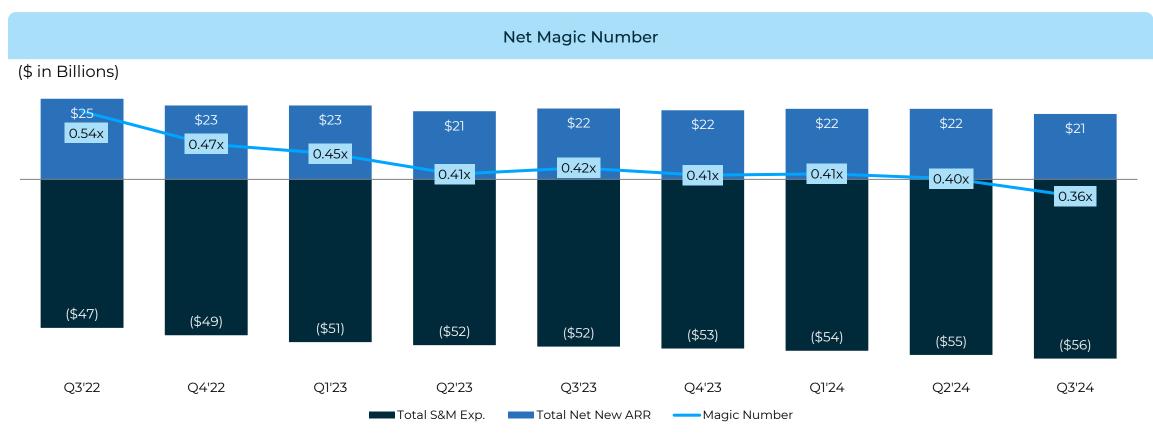


Rising interest rates and a pullback in software spending drove multiple contraction coming out of the ZIRP era, but multiples have since stabilized.

Source: CapIQ. Note: Market data as of 10/31/24.



... but software is still challenged, and a tough macro is the new normal.

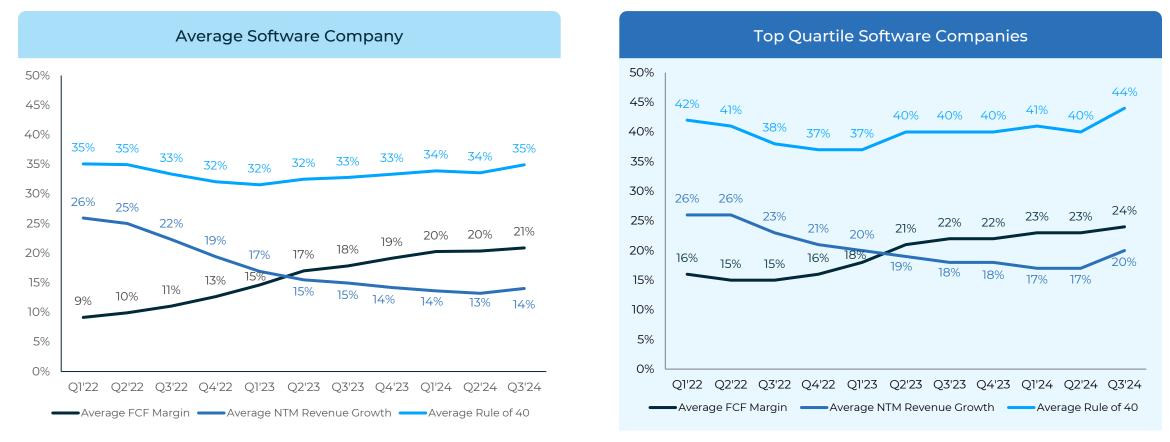


Despite a continued acceleration in sales and marketing spending, net new ARR has not inflected.

Source: CapIQ. Note: All medians based on rolling LTM average.



Macro uncertainty has catalyzed a push toward efficiency, which has come in different forms . . .

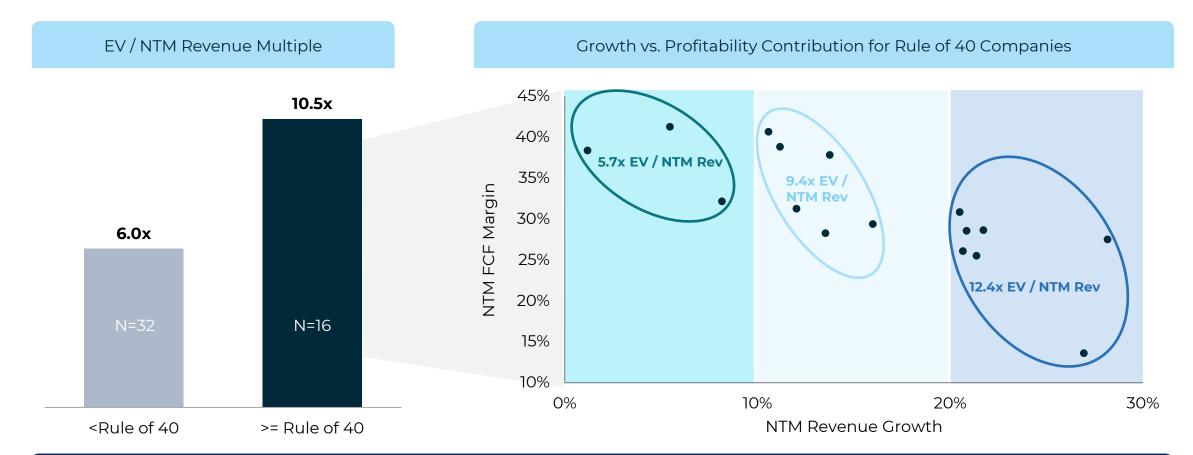


Top-quartile software companies have expanded profitability margins while reaccelerating growth to maintain Rule of 40 status.

Source: CapIQ. Note: Top quartile companies represents those with a >=10x EV / NTM revenue multiple. Market data as of 10/31/24.



... but the market still values growth over profitability.

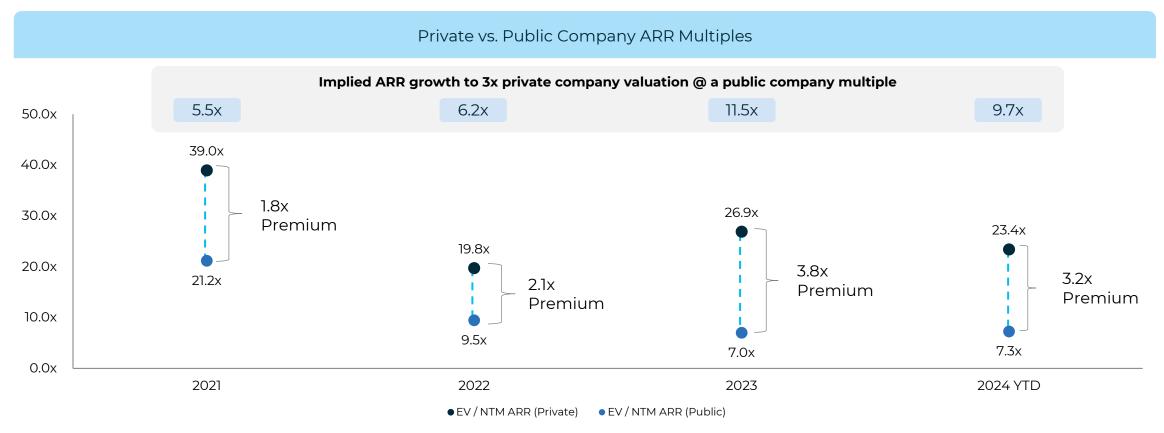


Within the Rule of 40 bucket, companies growing >20% trade at a premium compared to their slower-growth but more-profitable peers.

Source: CapIQ. Note: Market data as of 10/31/24.



Private company multiples trade at a premium, baking in future growth and AI tailwinds



Private companies trade at a premium ARR multiple compared to their public market peers, as private investors bet on scaling ARR by 10x to achieve a 3x return.

Source: CapIQ and internal data.

Note: NTM ARR for public companies calculated as NTM quarter revenue x 4. Market data as of 10/31/24



U.S. software unicorn creation has outpaced IPO and M&A volume; AI isn't a panacea for all startups

Significant IPOs 🗾 N

M&A > \$1B Beginning # of Unicorns

Net New Unicorns



The backlog of software unicorns has grown by 3x since 2020 while the number of large-scale software IPOs and M&A have declined.

Source: Pitchbook

Note: Data represents IT & B2B SaaS companies headquartered in the US excluding blockchain/cryptocurrency. Net new unicorns adjusted for exits and down rounds. Unicorns are private companies with a post-valuation >= \$1B. Logos represent a subset of the total company base. M&A shown in year announced. 1. Denotes a past or current Battery company. For a full list of all Battery investments, please click here.

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Large capital raises have led to creative early exits

Inflection / Microsoft	Adept / amazon	character.ai / Google
\$ Raised \$1.6B	\$ Raised \$414M	\$ Raised \$193M
Last Round Valuation \$4.0B	Last Round Valuation \$1.0B	Last Round Valuation \$1.0B
Date of Last Round Jun 2023	Date of Last Round Feb 2023	Date of Last Round Mar 2023
Date of Acquisition Mar 2024	Date of Acquisition Jun 2024	Date of Acquisition Aug 2024
Time Since Last ~8 Months Round	Time Since Last ~1.5 Years Round	Time Since Last ~1.5 Years Round

Key executives hired + licensing agreement to use the technology

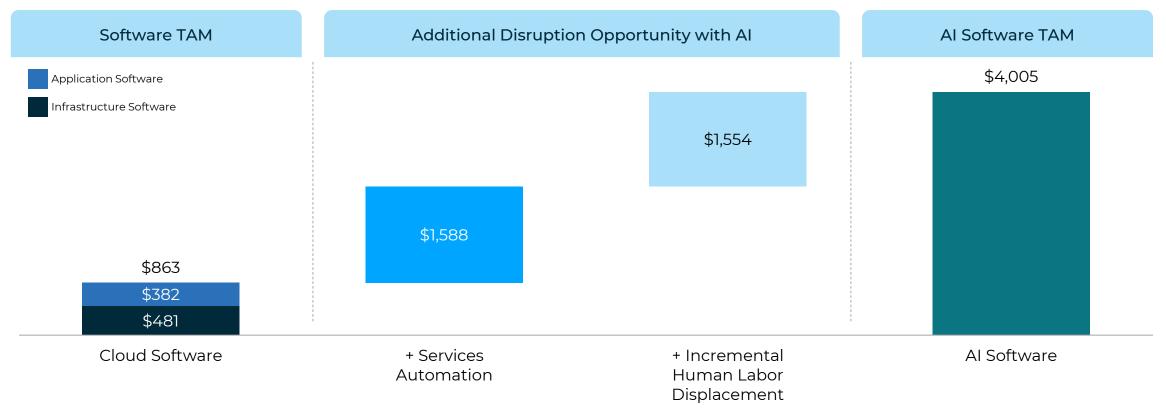
Large amounts of capital raised early in the cycle at high valuations has resulted in creative acquisitions, structured as large-scale acquihires and licensing agreements.

Source: Pitchbook data.



The AI opportunity remains massive, but tread carefully

(\$ in Billions)



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There is \$4T of software disruption opportunity as AI unlocks additional services and human labor spend.

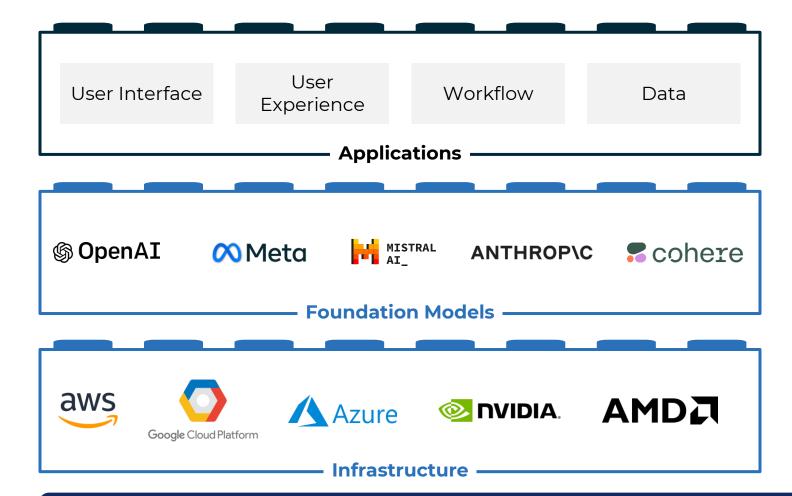
Source: Gartner.

Note: Battery assumptions include incremental human labor displacement based on an estimated # of global knowledge workers, penetration rate and avg. salary.

Operational Best Practices to Build a Durable Cloud Company



Looks and engagement create durable moats



Product design is an offensive force and key differentiator, critical to driving fast adoption and accelerating the time to value.

Technology moats are eroding as powerful off-the-shelf infrastructure building blocks, offered as a service, abstract the complexity of building and managing underlying systems. As technology moats diminish, differentiation at the application layer will be driven by user experience and workflow.

As technology moats erode and competition rises, product design and user experience become core differentiators for software companies.



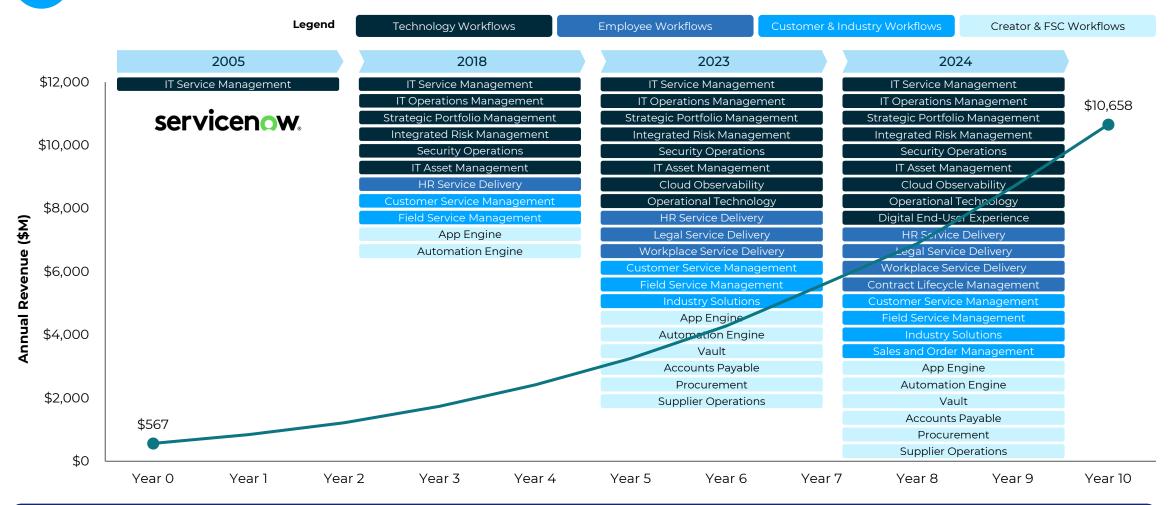
2 New era, new metrics: tracking SaaS and AI product success together

	SaaS Product Metrics	Al Product Metrics		
Acquisition	 % of visits to sign-ups Source mix: organic, paid, referrals, etc. 	 % of new sign-ups via direct traffic or referrals (viral factor) 		
Activation	% of signups that reach "aha moment"Avg. time to activation	% of valid or accurate AI responsesAvg. time to respond or execute an action		
Engagement	Daily active users / monthly active usersAvg. session duration	 # of daily prompts / actions / tasks # of monthly users with >X prompts / tasks 		
Retention	• M-1, M-6, M-12 user and \$ retention	 Productivity uplift and time / cost saved 		

AI products require hybrid metrics: a blend of SaaS product metrics and AI-specific performance indicators.



3 Product velocity is critical to long-term growth



ServiceNow has grown at a 34% CAGR over the last 10 years as product innovation has unlocked new market opportunities to fuel growth to \$10B in revenue.

Source: Wall Street research and company investor presentation.



4 Al aligns product with value, and pricing models are catching up

Per Seat

Copilot

GitHub Copilot





Predictable and scalable pricing model where the cost per seat reflects the productivity uplift seen by individual users.

Rooted in traditional subscription pricing models, often requiring an upfront commitment, which can lead to misalignment between cost and actual customer value.

Consumption & Outcome-Based

Autopilot

databricks¹

🕼 OpenAl

ANTHROP\C



- Customers only pay for what they use, and the successful outcomes achieved, resulting in true alignment between customers and vendors.
- Forecasting is difficult with variable consumption in each period, and it is easier for customers to accidentally overspend when not tied to pre-defined commitments.

Human Labor Augmentation

Services as software

The Future to Come

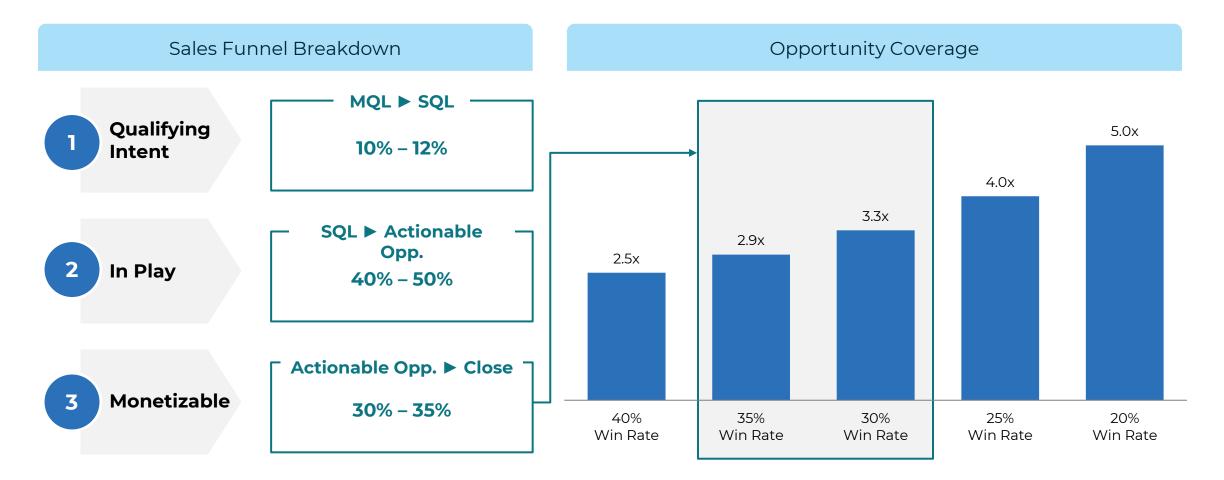
- Pricing is directly tied to the cost of displaced human labor, making ROI clear by linking the cost of the product to the headcount savings achieved.
- Does not fit every AI use case and may ignore long-term value while focusing on near-term headcount cost savings.

As AI moves from augmentation to automation, value-based pricing is key to aligning customers and vendors.

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5 Pipeline is an output of your sales funnel



A 20-percentage point decrease in win rate requires a 2x increase in pipeline coverage.



6 Intent metrics drive pipeline generation and pipeline quality

Intent Signals	Considerations	
 Product usage Website interactions Data warehouse analytics Marketing engagements Ist party cookies Demos Marketing Funnel Right Person & Account Prospecting Funnel Right Time Sales Funnel Right Message Qualified Lead	 Quality of lead is just as important as speed to lead Measure # of leads and conversion rates through stages Track content informed pipeline Focus on high-value ICP Prioritize intent signals to drive campaigns 	

Be data driven when it comes to demand gen and demand capture to drive higher conversion rates and quality leads.



7 Choose your expansion journey



Be long-term greedy when it comes to expansion.

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8 Value-based pricing requires re-thinking sales compensation models

\$16,000 \$14,000 Upsell & Cross-sel \$12,000 **Full Usage** \$10,000 \$8,000 \$6,000 \$4,000 Live in Contract Prod Holidavs Signed \$2,000 \$0 Jan-23 Feb-23 Mar-23 Apr-23 May-23 Jun-23 Jul-23 Aug-23 Sep-23 Oct-23 Nov-23 Dec-23 Jan-24 Feb-24 Mar-24 Apr-24 Jun-24 Jul-24 Vay-24 -ARR

Consumption Pricing Customer & Revenue Lifecyle

Sales Compensation Framework

Base + Variable Structure

- Higher base salary (60-70%) vs. traditional models (50%)
- Reduced variable component to offset delayed revenue realization
- Quarterly or monthly true-ups based on actual usage

Hybrid Incentive Structure

- Initial booking compensation (30-40% of total commission)
- Usage milestone bonuses (60-70% tied to consumption)
- Accelerators for exceeding usage forecasts

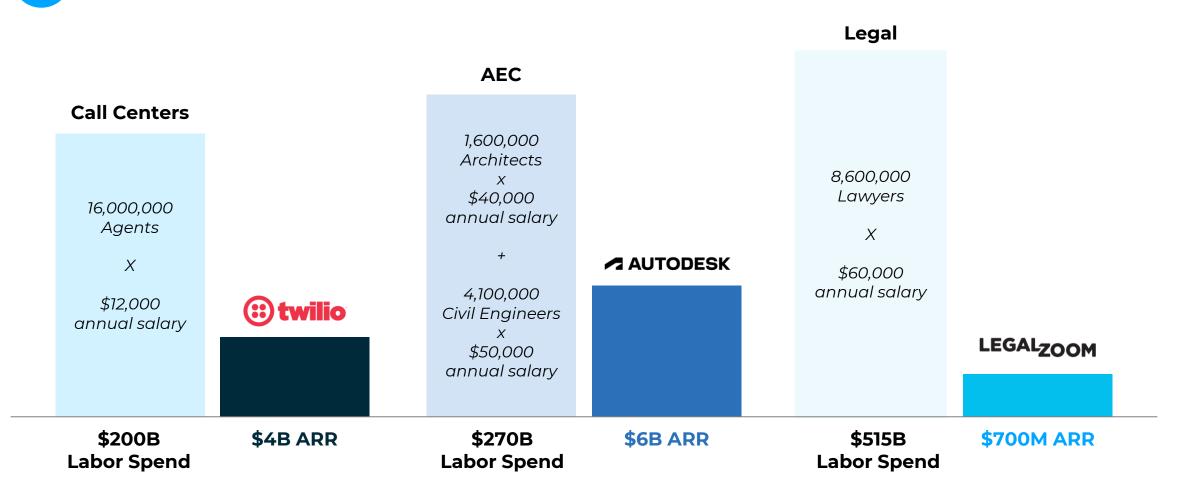
Key Success Metrics to Track

- Initial deployment completion
- Time to first production usage
- Monthly usage growth
- Customer expansion milestones

Sales compensation in consumption models requires balancing immediate rewards with long-term revenue realization.



9 Sell work with AI and capture a broader TAM



By automating high-value professional work in areas such as these, AI agents can convert salary budgets into software revenue, driving TAM growth.

Source: US Bureau of Labor Statistics and company filings. Note: TAM calculations based on global workforce estimates x average annual salaries in USD. ARR figures reflect latest quarterly revenues annualized.

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10 Leading tech companies are returning to the office

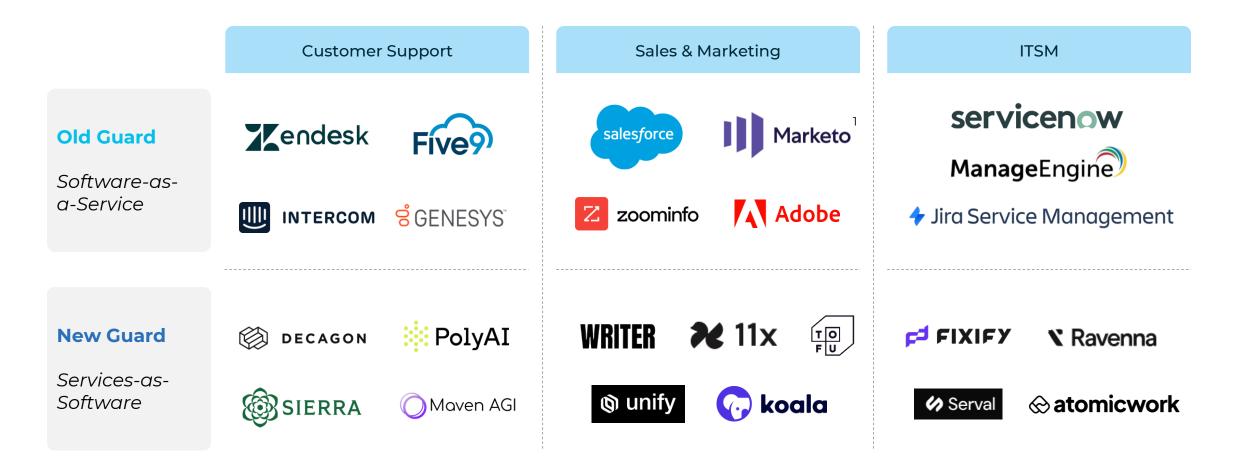


In-person work fosters collaboration, strengthens company culture, enhances learning and development, and accelerates strategic decision-making.



Themes of Interest

Al is eating services, creating services-as-software companies

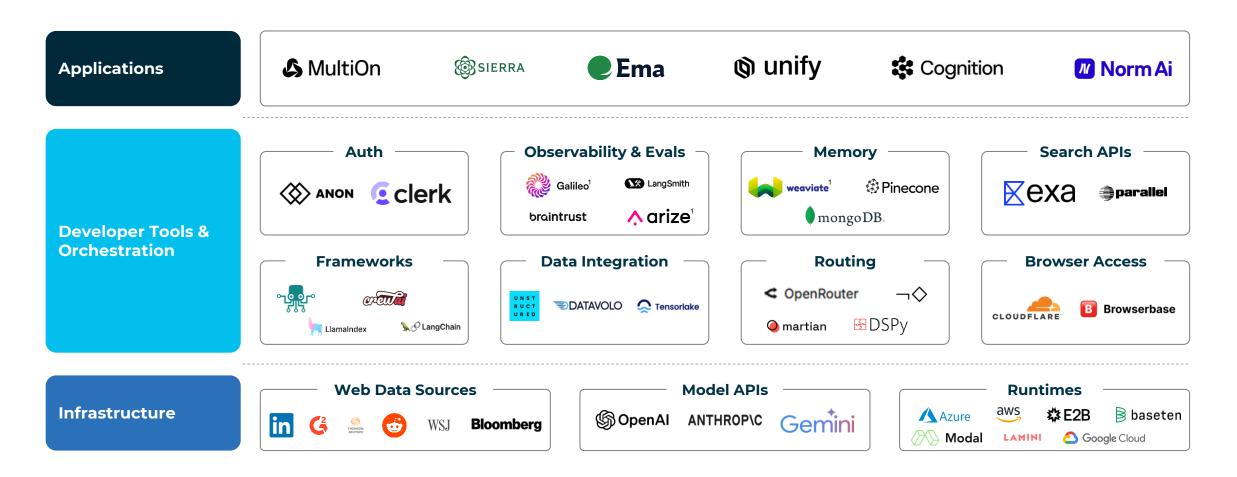


A new wave of AI companies is transforming the SaaS business model by shifting from providing workflow tools to fully automating the work itself.

Note: 1. Denotes a past or current Battery company. For a full list of all Battery investments, please click here.



A new web infrastructure has emerged for AI agents

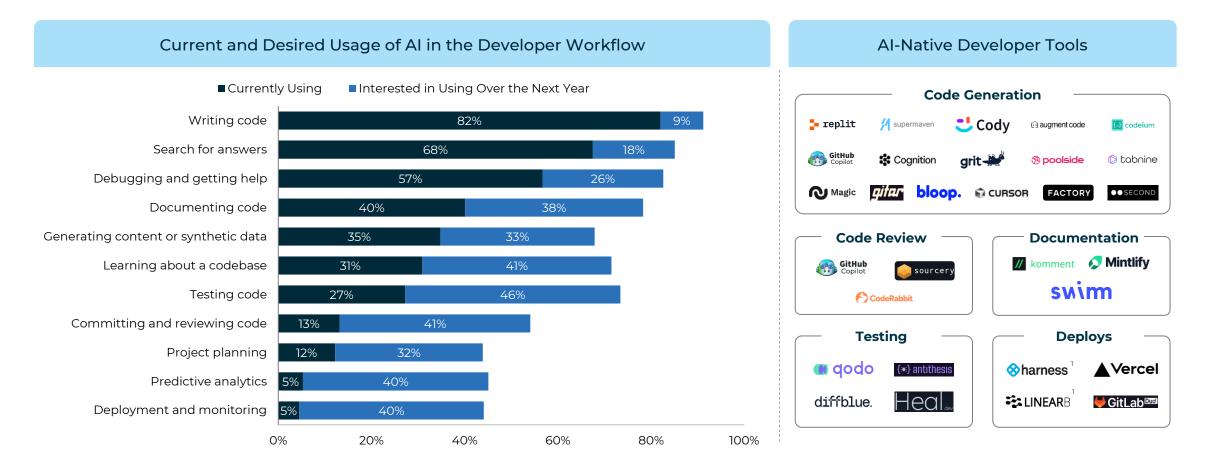


A new agent-native layer for internet information retrieval and automation is emerging.

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Al redesigns the software-development lifecycle

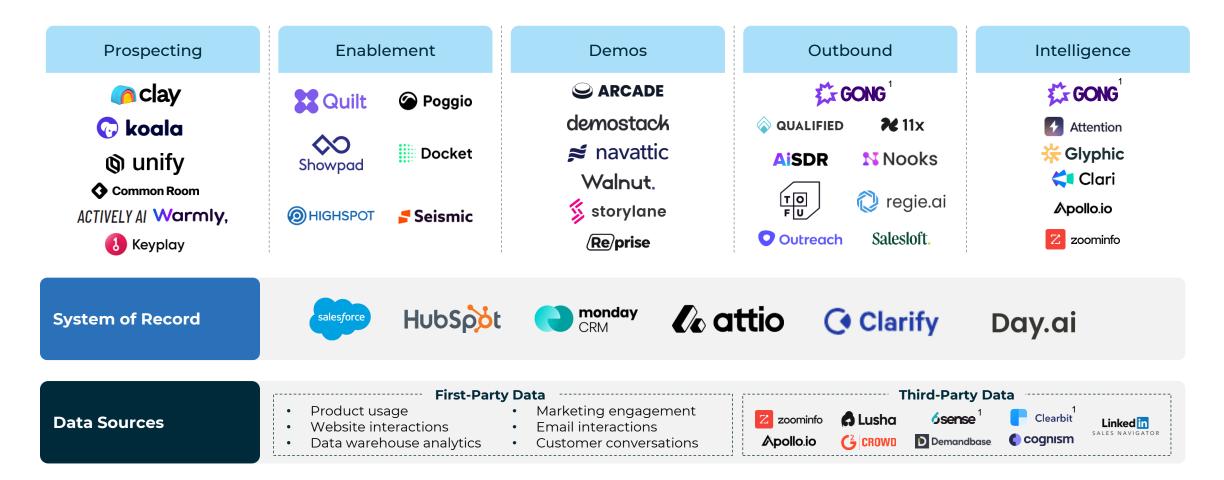


Al-powered tools are emerging in every part of the developer workflow, from writing to securing code, and have potential to unlock new productivity.

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The Al-native GTM tech stack



Al-powered GTM tools unlock higher velocity and conversion rates through intelligent, data-driven sales workflows.

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Next-gen BI tools evolve from dashboards to meaningful insights

	Incumbents	Next-Gen BI Tools		
Companies	Power BI 👌 Looker Mode 💠	🐒 sigma omni 🎛 🏽 🖓 WisdomAl 🕈 Lightdash		
Users	Data Teams	Data Teams + Business Users		
Applications	1 Visualization 2 Exploratory analysis	 Visualization Exploratory analysis Self-serve analytics Multi-language support (Python, SQL, NLP) 		
Data modalities	Structured	Structured, Semi-Structured, Unstructured		
Data Sources	Google ■ amazon BigQuery ■ REDSHIFT Snowflake Set atabricks ¹			

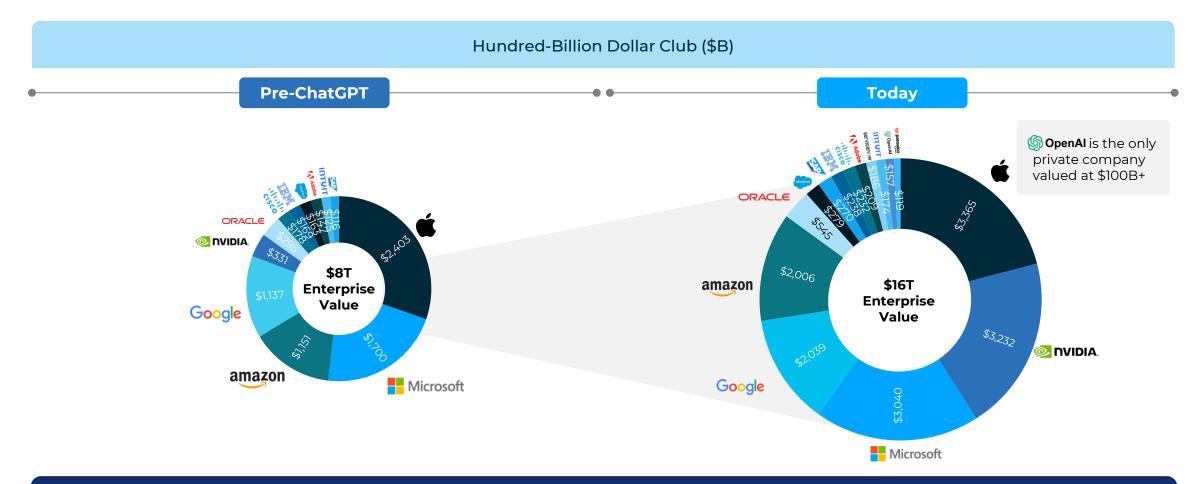
New BI products have an opportunity to unlock a larger user base and incorporate unstructured data to enhance insights.

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Future of OpenCloud

The prize has never been bigger for cloud & AI companies ...



Cloud infrastructure and AI growth has created a new generation of trillion-dollar giants, with an unprecedented number of high-quality companies rapidly scaling.

Source: CapIQ and Pitchbook data as of 10/31/2024.



... and the backlog of \$10B+ private companies is promising

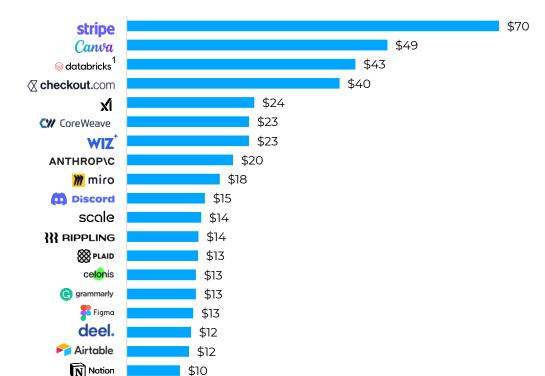
\$70

CROWDSTRIKE A APP LOVIN \$61 workday \$58 **A**TLASSIAN \$48 DATADOG \$42 **k**snowflake \$37 CLOUDFLARE \$30 Veeva \$29 HubSpot \$28 **Exercaler** \$27 Samsara 🔮 \$26 mongoDB \$19 zoom \$16 gdynatrace \$15 //. monday.com \$14 DocuSign \$13 CYBERARK \$12 okta \$11 klaviyo \$11

(Enterprise Value \$ in Billions)

Public Company Ten Billion Dollar Club

Private Company Ten Billion Dollar Club



(Enterprise Value \$ in Billions)

The number of \$10B+ private software companies equals the number of public software companies, with many private companies growing faster at scale.

Note: 1. Denotes a past or current Battery company. For a full list of all Battery investments, please visit: https://www.battery.com/list-of-all-companies Source: Pitchbook data as of 10/31/2024. The above listed private companies are enterprise software and infrastructure software companies with valuations of \$10B or greater as of October 2024. Excluded from this analysis are public and private companies that Battery believes are not representative because they are principally vertical-focused (ex. Bentley Systems, Toast, and Guidewire, Anduril, and Brex).

Cloud-native companies continue to grow at healthy rates at scale

Date of IPO

		Run-Rate Revenue (\$M)			
		IPO	Current	CY '25E	IPO to CY '25E CAGR
2024	🛟 rubrik	700	820	1,064	87%
2021	🔶 GitLab	233	730	929	55%
2021	(ii) Sentınel One ⁻	150	796	1,029	74%
2021	S CONFLUENT 1	308	940	1,163	46%
2021	Ui Path [®]	832	1,265	1,583	19%
2020	JFrog 1	146	412	501	34%
2020	** snowflake	533	3,475	4,356	64%
2019	CLOUDFLARE	270	1,604	2,109	48%
2019	CROWDSTRIKE	384	3,855	4,779	58%

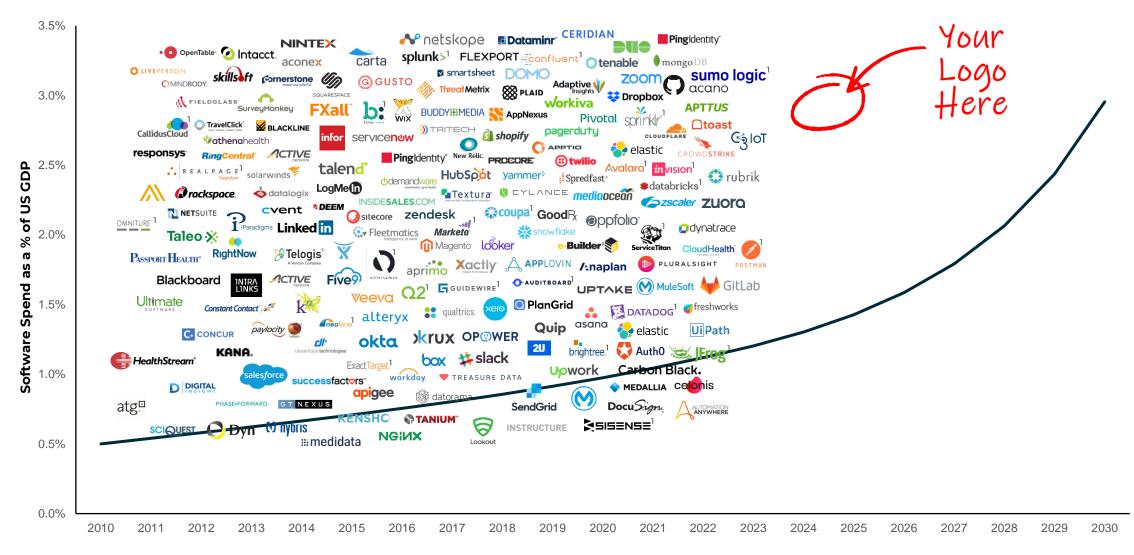
		Run-Rate Revenue (\$M)			
		IPO	Current	CY '25E	IPO to CY '25E CAGR
2019		333	2,581	3,224	54%
2018	😽 elastic	227	1,390	1,586	37%
2018	Exercaler "	180	2,371	2,872	51%
2017	mongoDB.	142	1,912	2,270	47%
2017	okta	195	2,584	2,828	42%
2016	🙂 twilio	237	4,330	4,740	42%
2015	ATLASSIAN	385	4,526	5,541	34%
2012		263	8,758	9,782	34%
2012	servicenow	190	10,508	13,242	40%

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Cloud-native companies have 10x'ed revenue since IPO while maintaining an average growth rate of 40%.

Source: CapIQ, company filings. Note: Representative companies include cloud infrastructure and software companies that have gone public since 2012. 1. Denotes a past or current Battery company. For a full list of all Battery investments, please visit <u>https://www.battery.com/list-of-all-companies/</u>. CAGR defined as the compounded annual growth rate, calculated as (Current Revenue / IPO Revenue)^(1 / (2023-IPO Year)) - 1

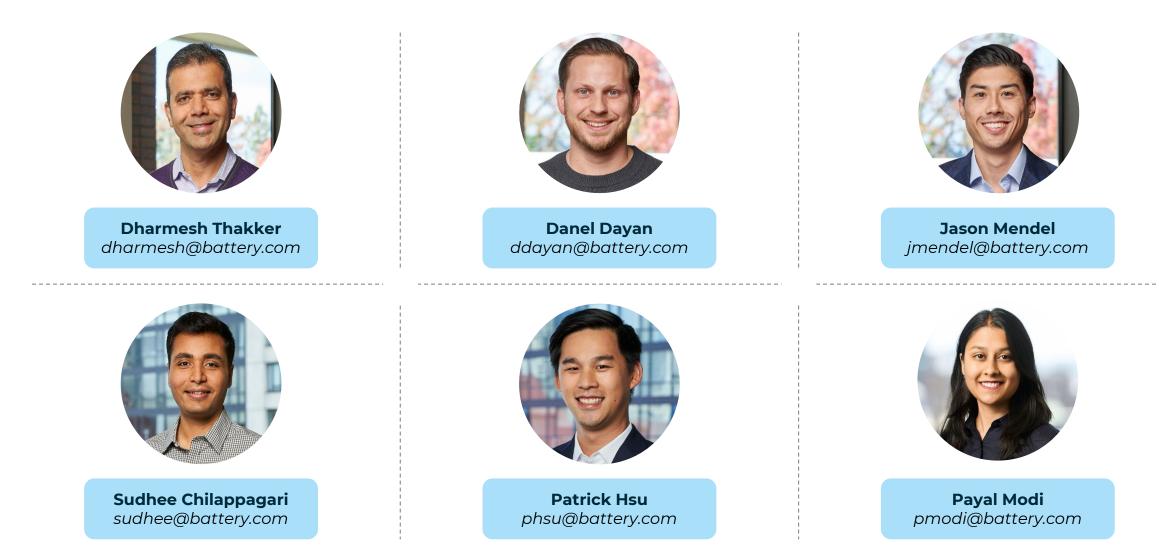
We're still in the early innings for OpenCloud



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The Battery team





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Appendix: Public Comp Set

01 Adobe	11 Crowdstrike	21 Guidewire ¹	31 Procore	41 Twilio
02 Amplitude ¹	12 CyberArk	22 Rubrik	32 RingCentral	42 UiPath
03 Asana	13 Datadog ¹	23 Hubspot	33 Salesforce	43 Wix
04 Atlassian	14 Docusign	24 Jfrog ¹	34 SentinelOne	44 Workday
05 Bill.com	15 Dropbox	25 Klaviyo	35 ServiceNow	45 Zoom
06 Box	16 Dynatrace	26 Monday.com	36 Shopify	46 ZoomInfo
07 Braze ¹	17 Elastic	27 MongoDB	37 Smartsheet	47 Zscaler
08 Checkpoint	18 Fastly	28 Okta	38 Snowflake	48 Veeva
09 Cloudflare	19 Fortinet	29 PagerDuty	39 Sprinklr ¹	
10 Confluent ¹	20 Gitlab	30 Palo Alto Networks	40 Tenable	

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