





The Rise of GenAl and Recent Venture Capital Trends

NOVEMBER 2023

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Illuminate Ventures

HOW WE SOURCE, SELECT, WIN AND SUPPORT IS DIFFERENT

- 100% focused on B2B/ENTERPRISE SOFTWARE a \$880⁺B market
- **SEED STAGE** investors in **"further along"** companies that deliver rapid, measurable **ROI**
- Setting our **APERTURE WIDER** to identify unique investment opportunities
- **SOUGHT-AFTER ADVISORS** –leading/co-leading most, with pro rata rights
- Leveraging a **PLATFORM** of world-class B2B execs and >100 MBA intern grads as **SCOUTS** and for **PORTFOLIO SUPPORT**
- Advocates for **DIVERSITY** with >80% diverse/45% female founders
- **THOUGHT LEADERS** via white papers and B2B pieces with 100s of media citations

>\$30B Increase in Enterprise Value Across 30 Companies



Al is A MegaTrend

"The age of AI has begun. ...as fundamental as the creation of the microprocessor,...." Bill Gates

> "AI has spawned a 'Game of Thrones'-style battle for an \$800B opportunity..."

> > Dan Ives, Managing Dir & Equity Research Analyst Technology, Wedbush

"I've always thought of A.I. as the most profound technology humanity is working on more profound than fire or electricity ..."

Sundar Pichai, CEO, Google

"I see how AI and the fourth industrial revolution will impact every aspect of people's lives."

Fei-Fei Li, Professor, Computer Science Dept, Stanford and Co-Director, Stanford Human-Centered AI Institute



Yet AI Faces Major Risks and Obstacles

TIME A Factual Error by Bard AI Chatbot Just Cost Google \$100 Billion

Forbes Why Is Microsoft's New Bing ChatBot Raising Ethical Eyebrows?

HEALTH TANALYTICS AI May Be More Prone to Errors in Image-Based Diagnoses Than Clinicians

Newsweek AI Accidents Are Set to Skyrocket This Year

The New York Times

Elon Musk and Others Call for Pause on A.I., Citing 'Profound Risks to Society'

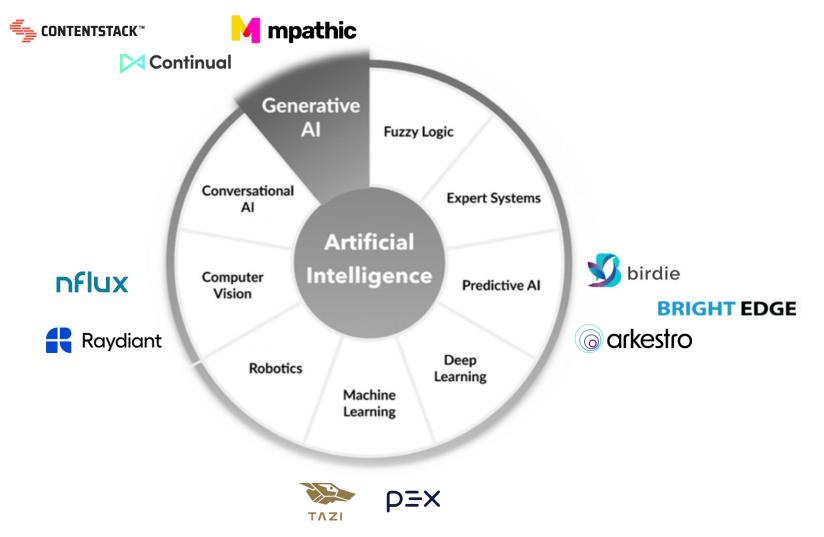


y China isn't waiting to set down rules on generative AI



Illuminate Investments Across the AI Landscape

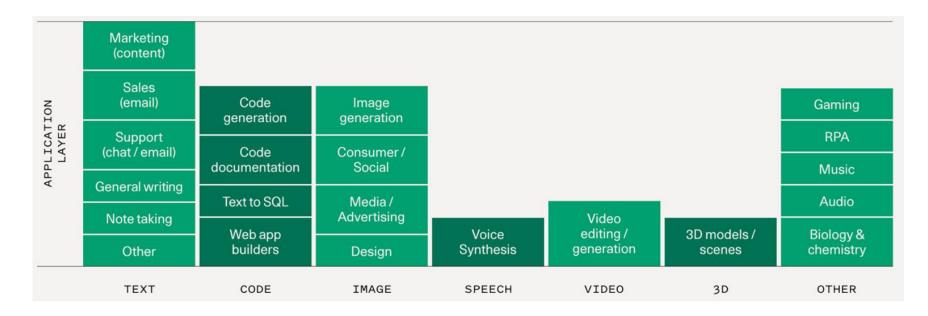
ALL PORTFOLIO COMPANIES INCREASINGLY LEVERAGE MULTIPLE TYPES OF AI





What is Generative AI?

NEW CLASS OF MODELS THAT ARE MAKING IT POSSIBLE FOR MACHINES TO WRITE, CODE AND DRAW WITH APPLICATIONS ACROSS MULTIPLE DIMENSIONS



- Generative AI can best deliver value in industries that require knowledge and creative work (less disrupted by prior AI advances)
- It is a step change in the evolution of AI

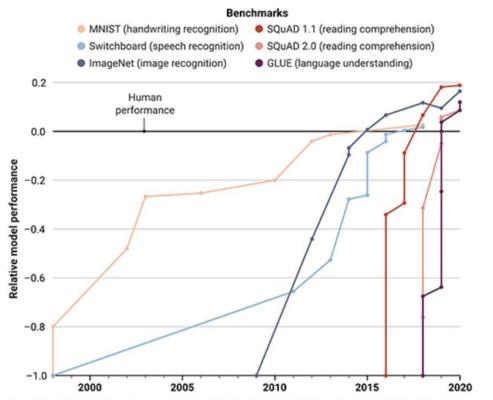


Why Now? Better Models, More Data and Compute

STARTING IN 2015 MODELS SURPASSED HUMAN PERFORMANCE BENCHMARKS DUE TO IMPROVEMENTS - FLOODGATES OPENED FOR NEW APPLICATION DEVELOPMENT

Quick learners

The speed at which artificial intelligence models master benchmarks and surpass human baselines is accelerating. But they often fall short in the real world.



Market timeline can be characterized as 3 waves:

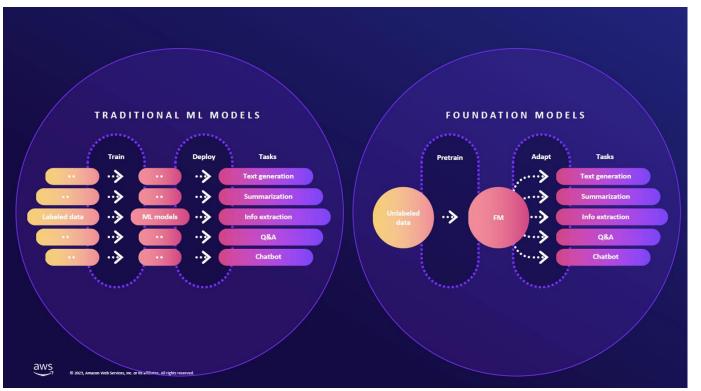
- Wave 1: Small models reign supreme (pre-2015)
 - Initial AI / ML models were not expressive enough for generative tasks
- Wave 2: Race to scale (2015-2022)
 - **Research breakthrough** on new model design (neural network architecture called transformers)
 - **Compute power** used to train models increased by 6x
- Wave 3: Better, faster and cheaper (2022+)
 - Computer power has gotten cheaper, new algorithms are continuing to get developed.



(GRAPHIC) K. FRANKLIN/SCIENCE; (DATA) D. KIELA ET AL., DYNABENCH: RETHINKING BENCHMARKING IN NLP, DOI:10.48550/ARXIV.2104.14337

ML Models Different From Foundational Models

TRADITIONAL ML MODELS REQUIRED IN-HOUSE TRAINING AND DEPLOYMENT WHEREAS FOUNDATIONAL MODELS UNDER GENERATIVE AI COME PRE-TRAINED AND CAN BE FINE TUNED FOR SPECIFIC TASKS

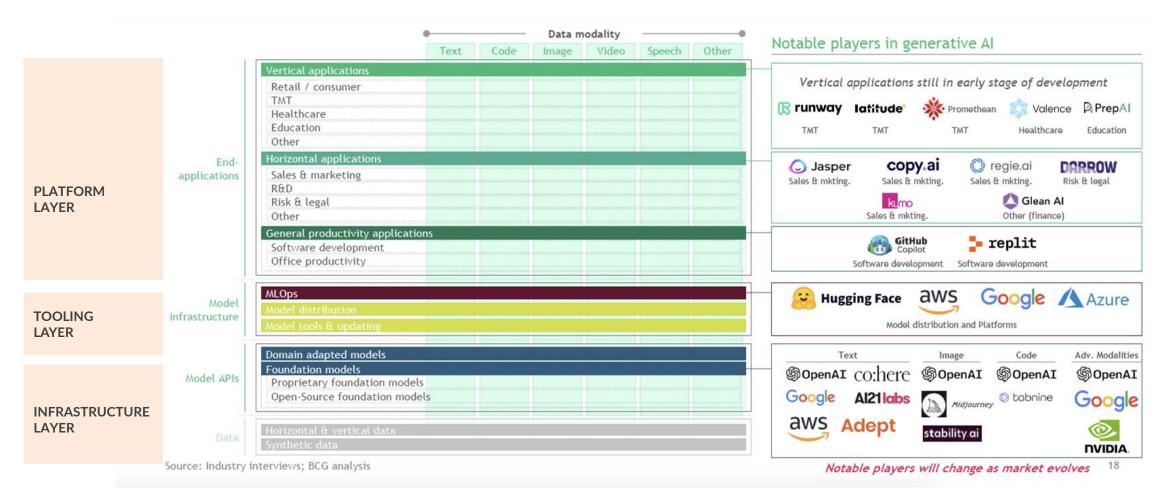


- Traditional Machine Learning (ML)
 Models: Statistical algorithms that can learn from data to make predictions without being explicitly programmed
- Foundational Models: Large AI models that are trained on massive datasets of text, code and images, and can learn to perform many different tasks without being explicitly programmed for each task.



Broader Landscape Overview

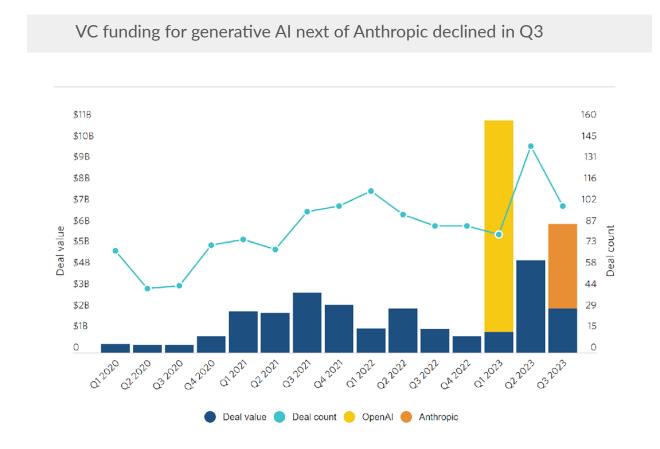
NOTABLE PLAYERS ARE STARTING TO EMERGE ACROSS THE GENERATIVE AI VALUE CHAIN – MODEL DESIGN, DEPLOYMENT AND END APPLICATIONS





VC Funding Supports Al Innovation

DESPITE OVERALL WEAKNESS IN FUNDING ENVIRONMENT, AI INVESTMENT GREW TO \$17.9B IN Q3

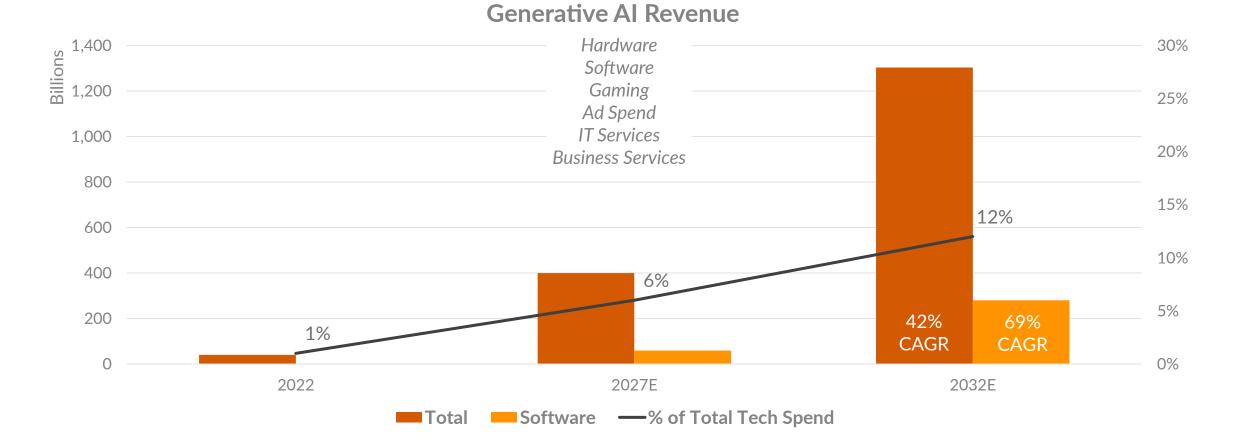


- Dollars raised for AI companies are outpacing funding totals in every other category of tech
- Al companies absorbed 70% of private capital in '23, up 55% from '22
- GenAl-focused saw highest deal volume in Q2
 - Infrastructure and Platform layer has attracted most investments to date
 - Most blockbuster fundraises weren't led by traditional VCs
 - GenAl investment showed signs of slowing in Q3 - The number deals fell to 101 rounds in Q3, a 29% decline from Q2



Generative AI to Become a \$1.3 Trillion Market by 2032

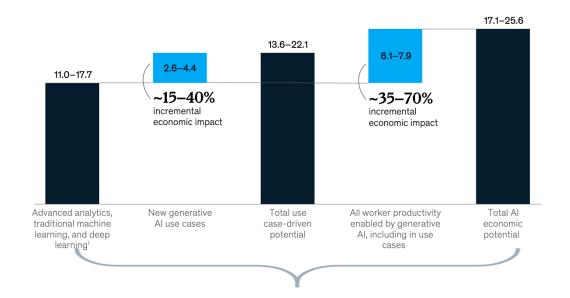
SOFTWARE TO GROW TO \$280B AT NEARLY A 70% CAGR





Drivers of Growth

GENERATIVE AI COULD ADD \$6.1-\$7.9 TRILLION GLOBALLY TO GDP BASED ON PRODUCTIVITY IMPROVEMENTS WHEN APPLIED TO KNOWLEDGE WORKERS ACTIVITIES



Al's potential impact on the global economy, \$ trillion

Generative AI is expected to incrementally generate around 1/3rd of the total AI economic potential

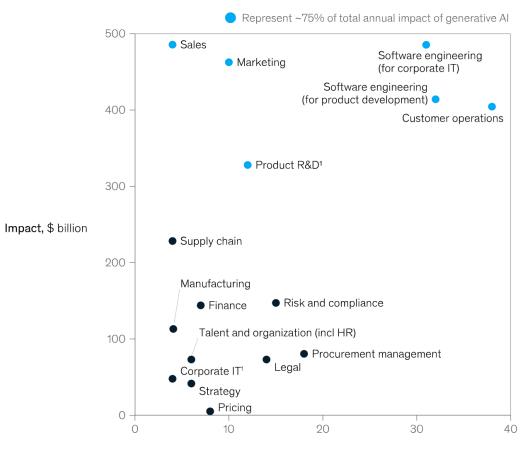
- Generative AI could add the equivalent of \$2.6 trillion to \$4.4 trillion annually across several use cases, out of which <u>75%</u> falls under the following:
 - Customer Operations, Marketing & Sales, Software Engineering and R&D
- Additional gains can be realized from broad based increases in **knowledge workers' productivity** (~\$3.5 trillion)



Top Use Cases & Opportunities

BUSINESS ANALYTICS/DECISIONING, WORKER PRODUCTIVITY TOOLS AND SALES & MARKETING TOOLS ARE TOP B2B USE CASES

- Use Cases: Potential B2B services ripe for disruption
 - **Business analytics** particularly related to customer operations.
 - Worker productivity tools (e.g., code generation, personal assistants)
 - Sales & Marketing Tools (e.g., personalized content generation)
- Opportunity: As models continue to get better, faster and cheaper, and model access is trending to API-based services, <u>companies operating in the Platform layer can</u> <u>capture value through novel applications</u>



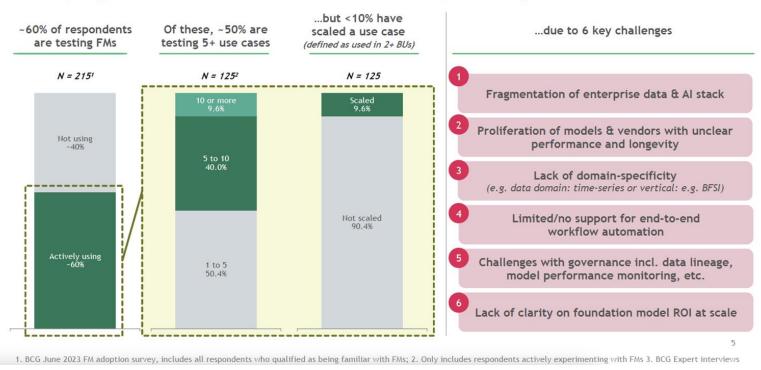
Impact as a percentage of functional spend, %



Adoption Timing

INITIAL ENTERPRISE ADOPTION SUGGESTS KEY CHALLENGES ON SCALING PROOF-OF-CONCEPTS

While several enterprises are experimenting with foundation models, <10% have progressed from POC to scale due to 6 key challenges



Scaling GenAl solutions is more costly than many anticipate. Business models often leave ot the indirect costs:

• Direct Costs: Setup and run costs

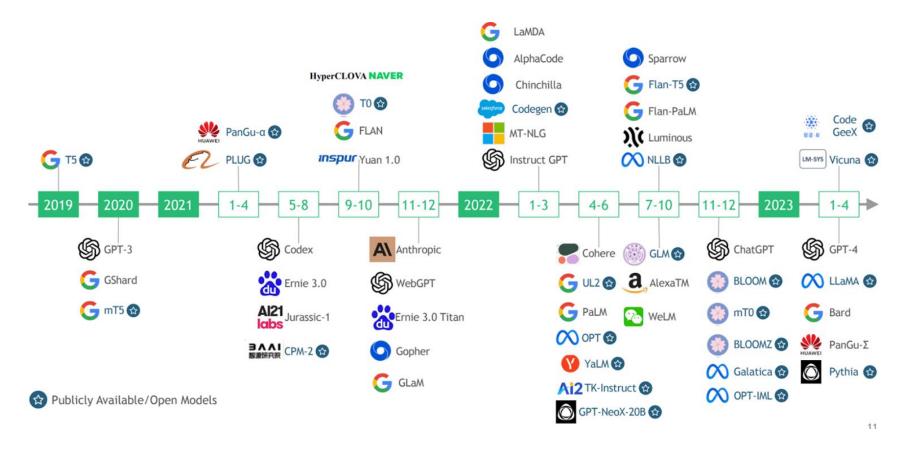
Indirect Costs:

- Engineering maintenance
- Compliance and legal
- o change management



Competitive Landscape

NEW COMPANIES ARE INNOVATING AT ALL LAYERS – TOUGHEST INCUMBENT COMPETITION LIKELY FOR INFRASTRUCTURE



- Infrastructure Layer model design and compute optimization. This layer will involve foundational model development, training cost reduction, chip development etc.
- Tooling Layer model deployment. This layer will involve emphasis on regulatory and model governance requirements.
- Platform Layer value capture through novel applications and targeted data collection for fine tuning foundational models ^{2,10}



Overall Perspective

AI IS EXPERIENCING A STEP CHANGE EVOLUTION - OFFERING A GENERATIONAL OPPORTUNITY TO CAPTURE VALUE

Attractive Sectors for Value Capture

- O Horizontal B2B platforms related to business analytics, worker productivity, and Sales & Marketing
- "Packaged" comprehensive solutions (traditional AI/ML + generative AI), with a vertical focus

Desirable Flywheel Effects (requirements for succeeding over time)

- O GTM motion: Experienced management team that understands the application needs for target customers
- **Product design:** Focus on privacy, security and data protection, with interoperability across multiple infrastructure providers
- Model performance: Model performance that improves over time and serves as "AI-aided" tools for business critical functions

Scaling To Profitability:

- Focus and management of all-in deployment costs
- Eye towards leveraging cost structure changes with ongoing innovations in the Platform layer



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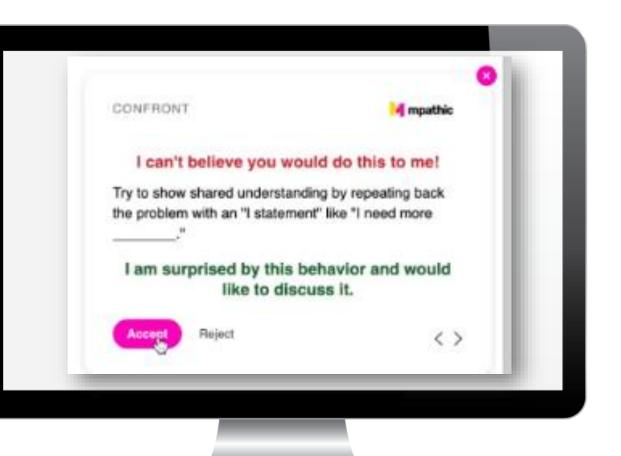


EMPATHIC CONVERSATIONAL ANALYTICS

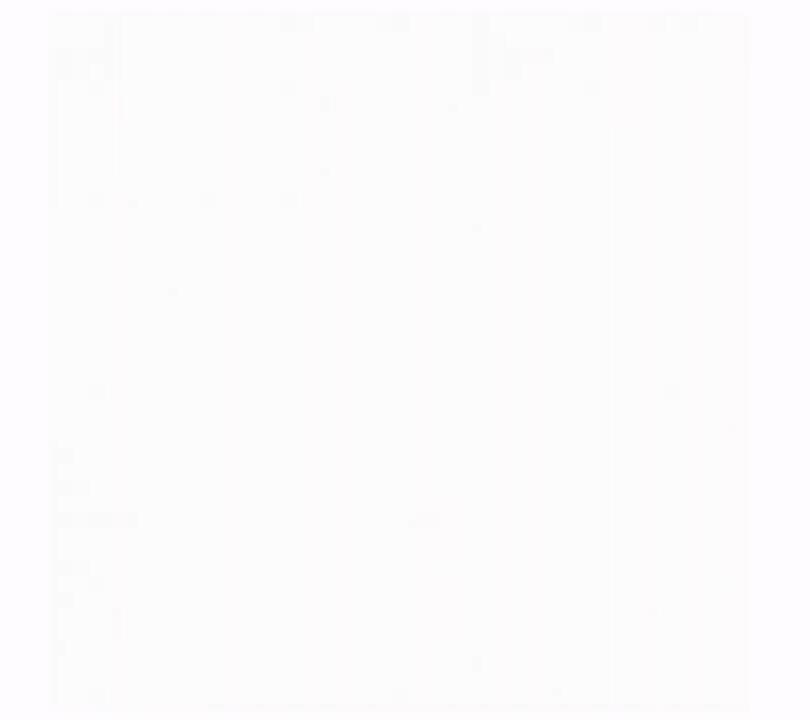
Better team alignment

9% Increased interview acceptance rate

90% Reduced cost of FDA medical monitors









mpathic Suggestions

You need to provide feedback to your boss but you aren't sure how to say it. Use our writing assistant to find the right words to convey your message with empathy.

Finish

Original Text

My manager doesn't support me very well.

Back

Suggested Text

I believe that my manager's focus on empowering and developing the team could be enhanced to provide better support for each team member. By seeking more opportunities for one-on-one time, I think this will give us the chance to further develop our skills and understanding. This will enable us to collectively improve our performance and contribute to the success of the team.



Venture Capital Trends





2023 – VC Investment Trend Key Takeaways

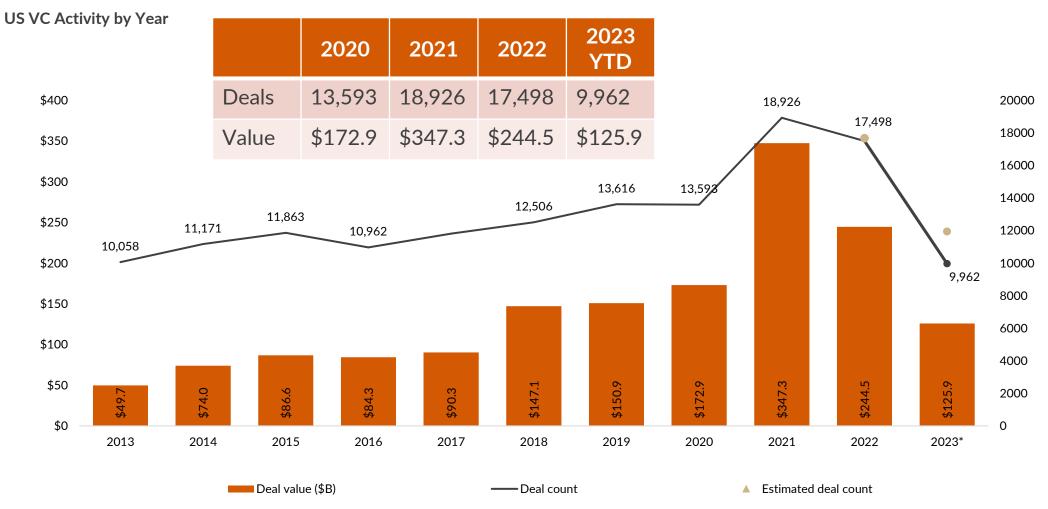
CONTINUED FREEFALL OF VC INVESTMENT TRANSACTION VOLUMES AND DOLLARS

- Despite all-time high for capital availability, venture investing continued steep decline
- Later stage rounds experienced the steepest decline in dollars deployed
- Terms have become dramatically more investor-friendly
- Exit volumes and values have declined precipitously
- Fear is driving investors back to old patterns (less diversity)
- Software still dominates investments and remains highest growth segment
- Seed stage investing continues to outperform other stages of VC investment returns



2023 VC Investments Trending Toward 4-Year Low

HOWEVER THE PACE OF DECLINE SLOWED IN Q3

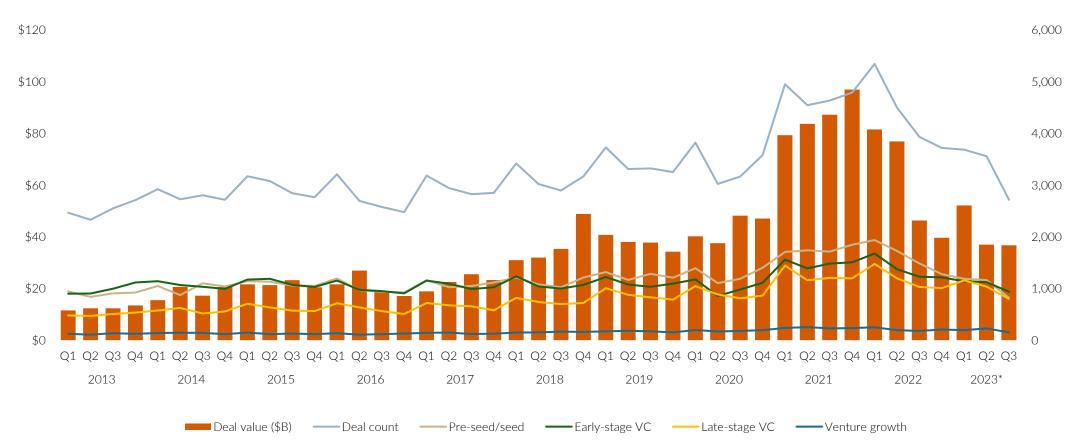


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Every-Stage of Investment Impacted

PRE-SEED AND SEED ACTIVITY SLUMPED MORE SIGNIFICANTLY THAN OTHER STAGES US VC Deal Activity (#) by Stage



Software Investment Gains Market Share

PHARMA, BIO-TECH ALSO SEE GAINS AS TRANSPORT EXPERIENCES LARGEST DECLINE US VC Deal Activity by Sector (\$B)

\$400.0 39% \$350.0 \$300.0 37% \$250.0 Media Other \$200.0 33% 32% 30% \$150.0 39% 32% 33% \$100.0 34% 37% \$135.5 33% \$50.0 \$91.3 \$56.5 \$49.5 \$47.7 \$44.7 \$28.8 \$28.2 \$27.2 \$28.5 \$16.3 \$0.0 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023*

Transportation
Commercial products & services
Consumer goods & services
Energy
HC devices & supplies
HC services & systems
IT hardware
Media
Other
Pharma & biotech
Software

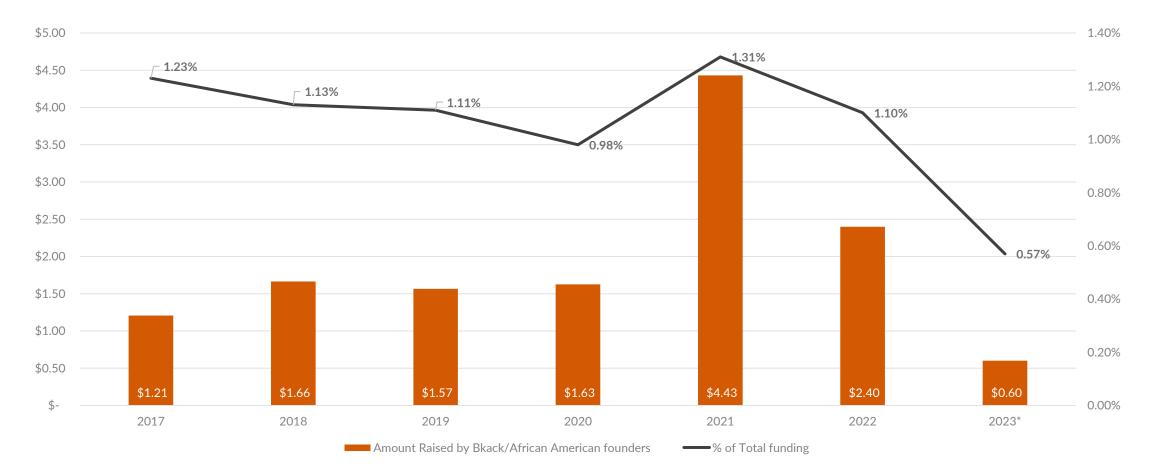




Funding to Black/African-American Founders Slumps

AFTER A POSITIVE 2021, FUNDING PROPORTION SLIPS BACK TO PRE-PANDEMIC LEVELS

Funding to Black/African-American Founded Companies (\$B, % of total funding)

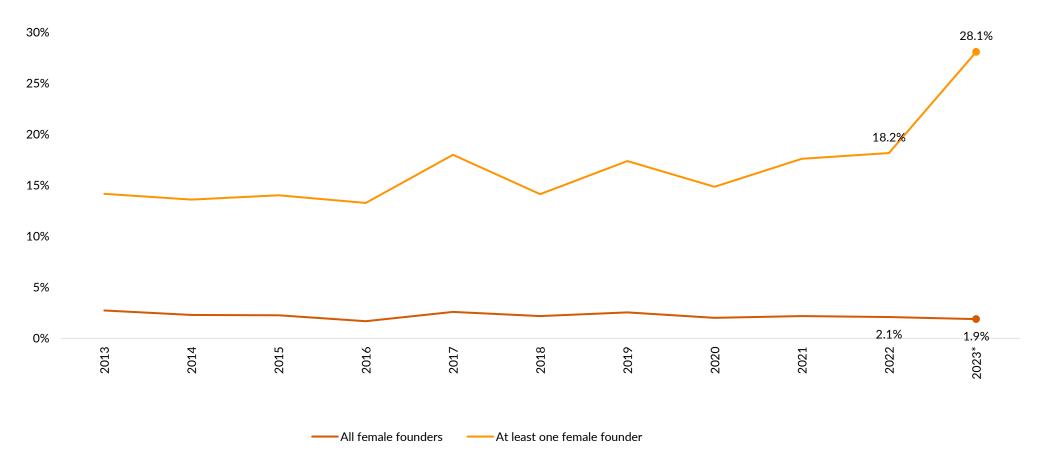




Mixed Gender Increases Due a Few Large Transactions

FUNDING TO 100% FEMALE FOUNDER TEAMS CONTINUED TO DECLINE

Female-Founded Companies as Proportion of Total US VC Deals (#)





Illuminate's Exceptional Diversity Track Record

HIGH PERCENTAGE OF COMPANIES WITH AT LEAST ONE DIVERSE, FEMALE, IMMIGRANT CO-FOUNDERS

BIPOC Founder

Female Founder

62% Illuminate

Portfolio



USVC Benchmark 41% Illuminate Portfolio

Immigrant Founder

69% Illuminate Portfolio



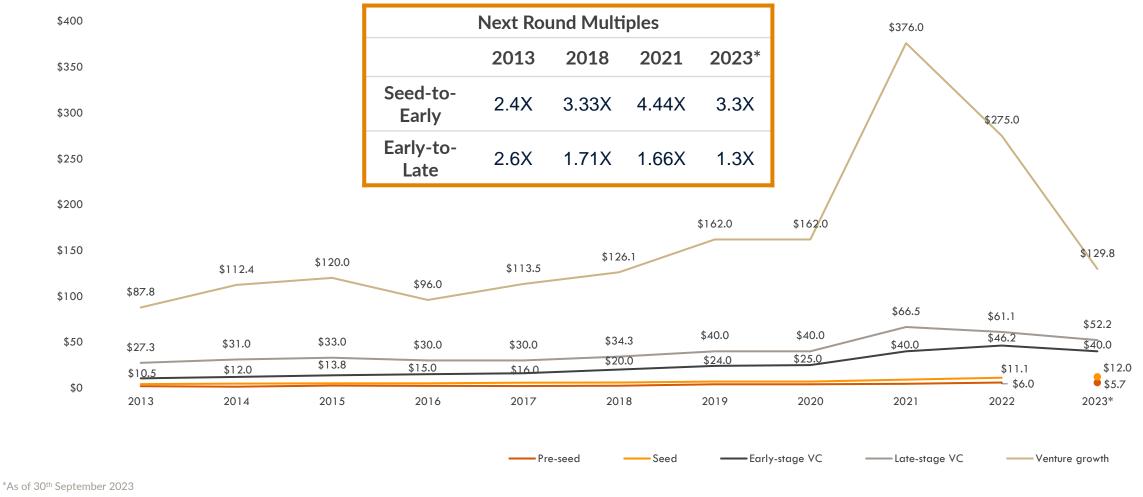
US Enterprise VC Benchmark 33% **USVC** Benchmark





Seed Stage Investing Is The Right Place To Be

US VC Median Pre-Money Valuation (\$M) by Stage



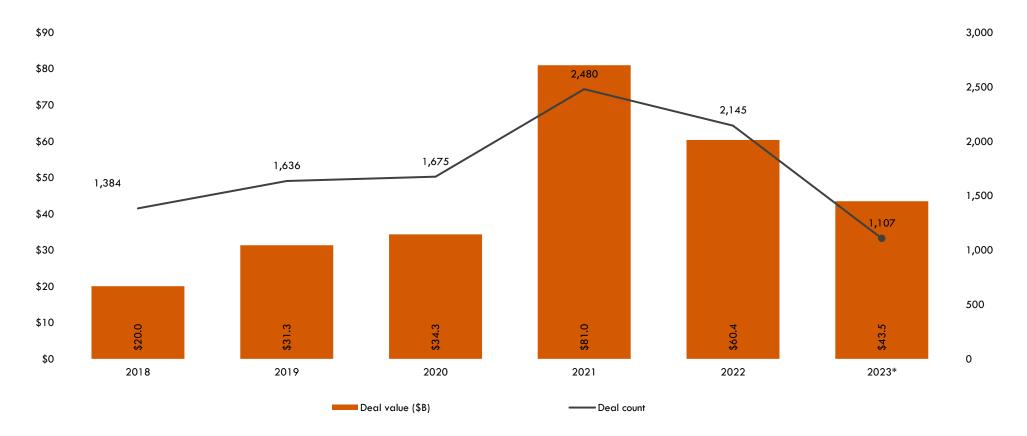
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Source: NVCA and Pitchbook. "Venture Monitor, Q3 2023"



Enterprise SAAS Value Approaches 2022 Levels

DESPITE LAG IN DEAL COUNT, DEAL VALUE HIGHER THAN PRE PANDEMIC LEVELS US Enterprise SAAS VC Deals by Year



B2B Technology companies are defined as companies offering technology-focused or technology-enabled solutions and whose customers are primarily other businesses.

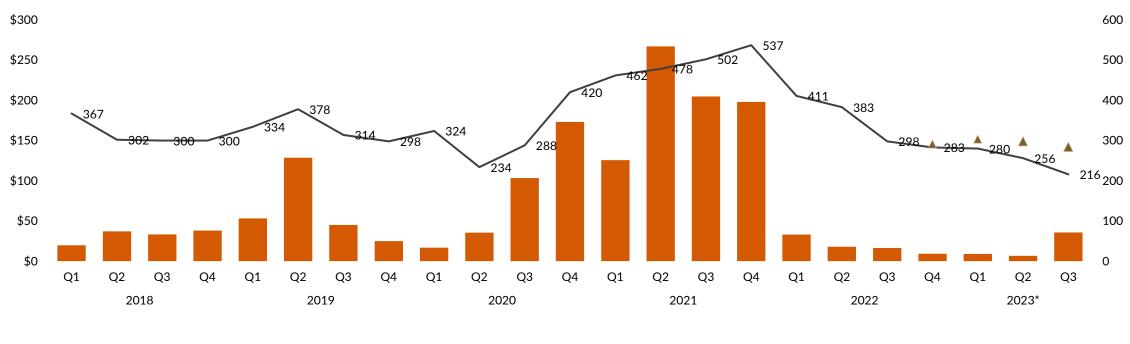
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2023 Exit Value Down >90% From 2021 Peak

Q3 SHOWS UPTICK LARGELY DUE TO ARM, INSTACART AND KLAVIYO IPOS



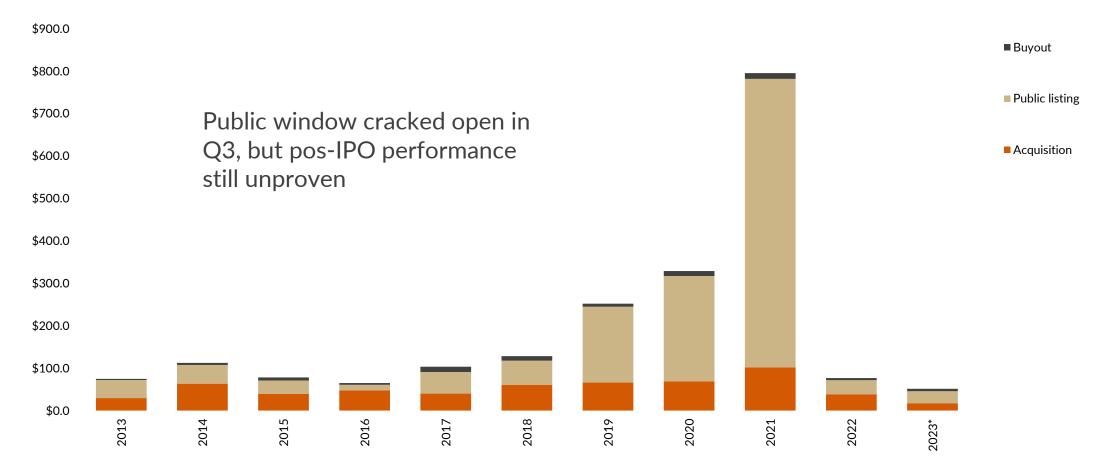
US VC-backed Exit Activity by Quarter (\$ in B)

Deal value (\$B) — Deal count 🛛 🔺 Estimated exit count



Public Window Has Cracked Open

BUT VALUATIONS HAVE DECLINED 50% AND POST IPO PERFORMANCE IS YET TO BE DEMONSTRATED US VC Exit Activity (\$) by Type,



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Exits - What's Likely Ahead?

COMBINATION OF ELEMENTS LIKELY TO CONTINUE TO IMPACT EXIT OPPORTUNITIES

Exit volume overall and value remain muted due to:

- Recession fears and inflation reality
- Lack of confidence in valuations
- Overall market and global uncertainty

M&A - deals with lower risk, less financing dependence and less regulatory scrutiny

- Small to mid-size deals (less than \$250M) likely continue to dominate
- Cash rich corporations will see good value in addressing strategic capability gaps (e.g., AI)
- Multiples starting to stabilize and possibly begin to rise slowly

IPOs

Post IPO performance needs to improve for the trend to solidify

Profitability continues to be valued over growth

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