# AI eats the world

**Benedict Evans** 

May 2025

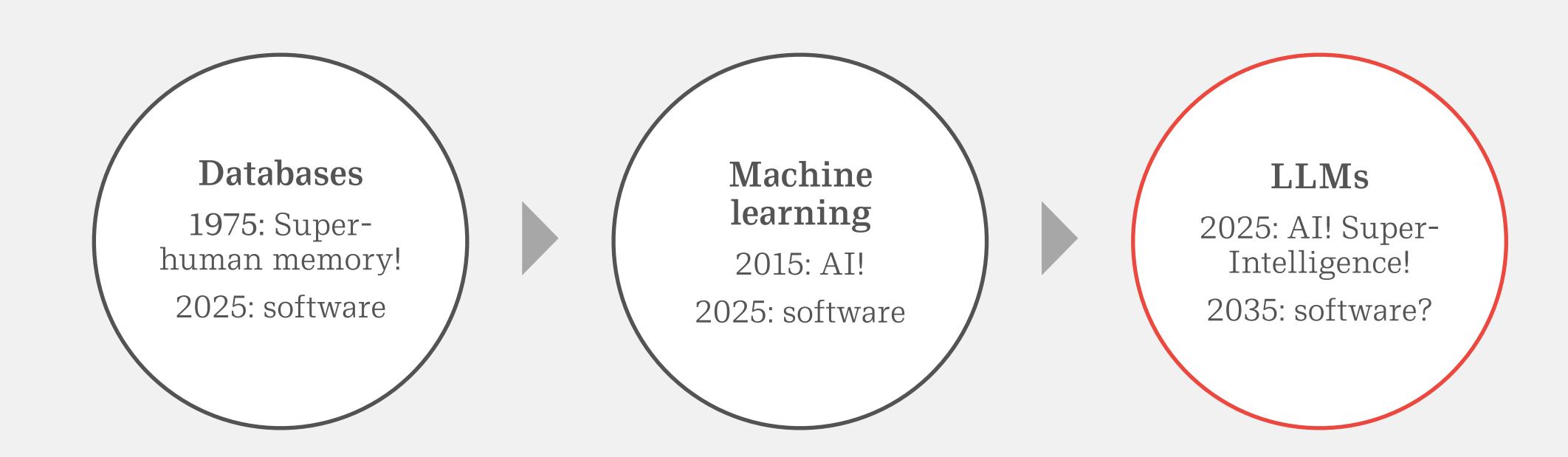
www.ben-evans.com

"AI is whatever machines can't do yet"

Larry Tesler, 1970

#### Historically, once 'AI' works it's just software

'AI' seems to mean whatever just started working, or maybe whatever almost works



Yes, but...

"In my lifetime, I've seen two demonstrations of tech that struck me as revolutionary: the GUI and ChatGPT"

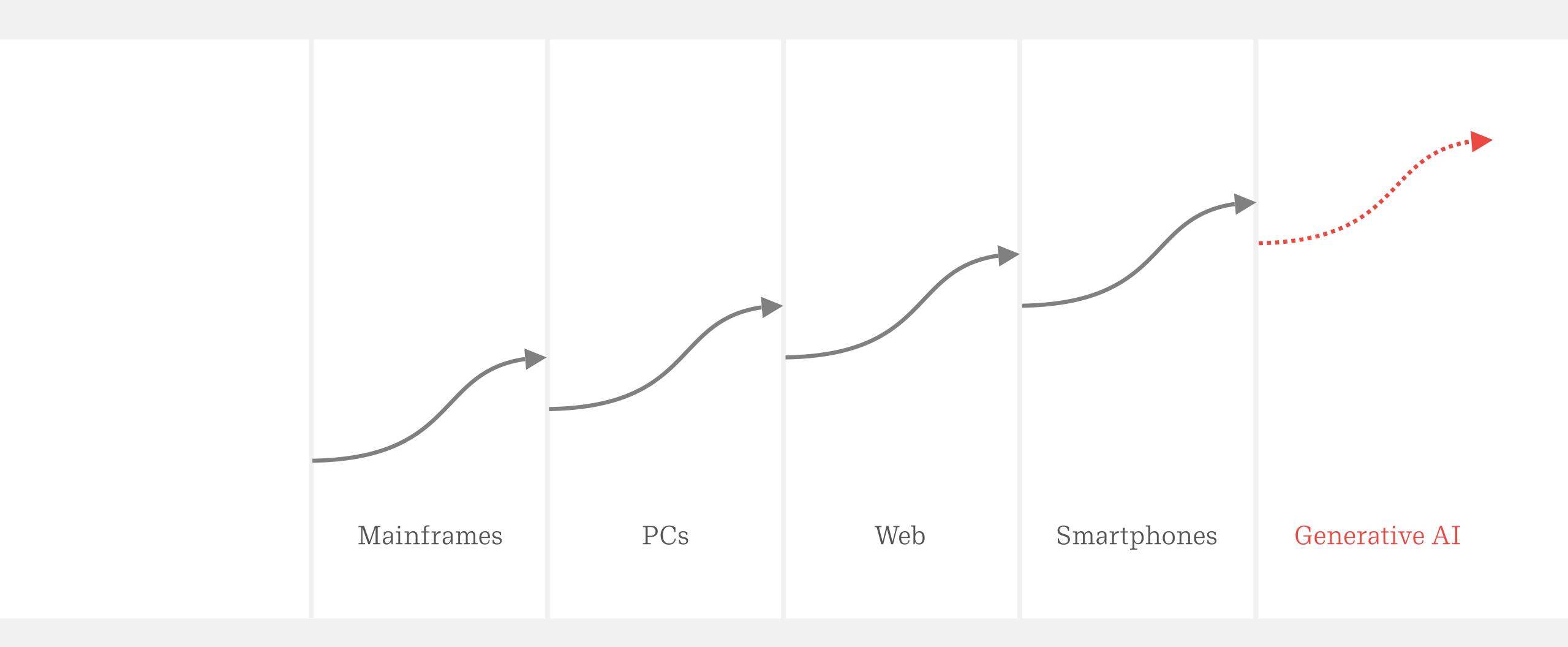
Bill Gates, March 2023

"The final race to AGI is afoot"

Sergey Brin, February 2025

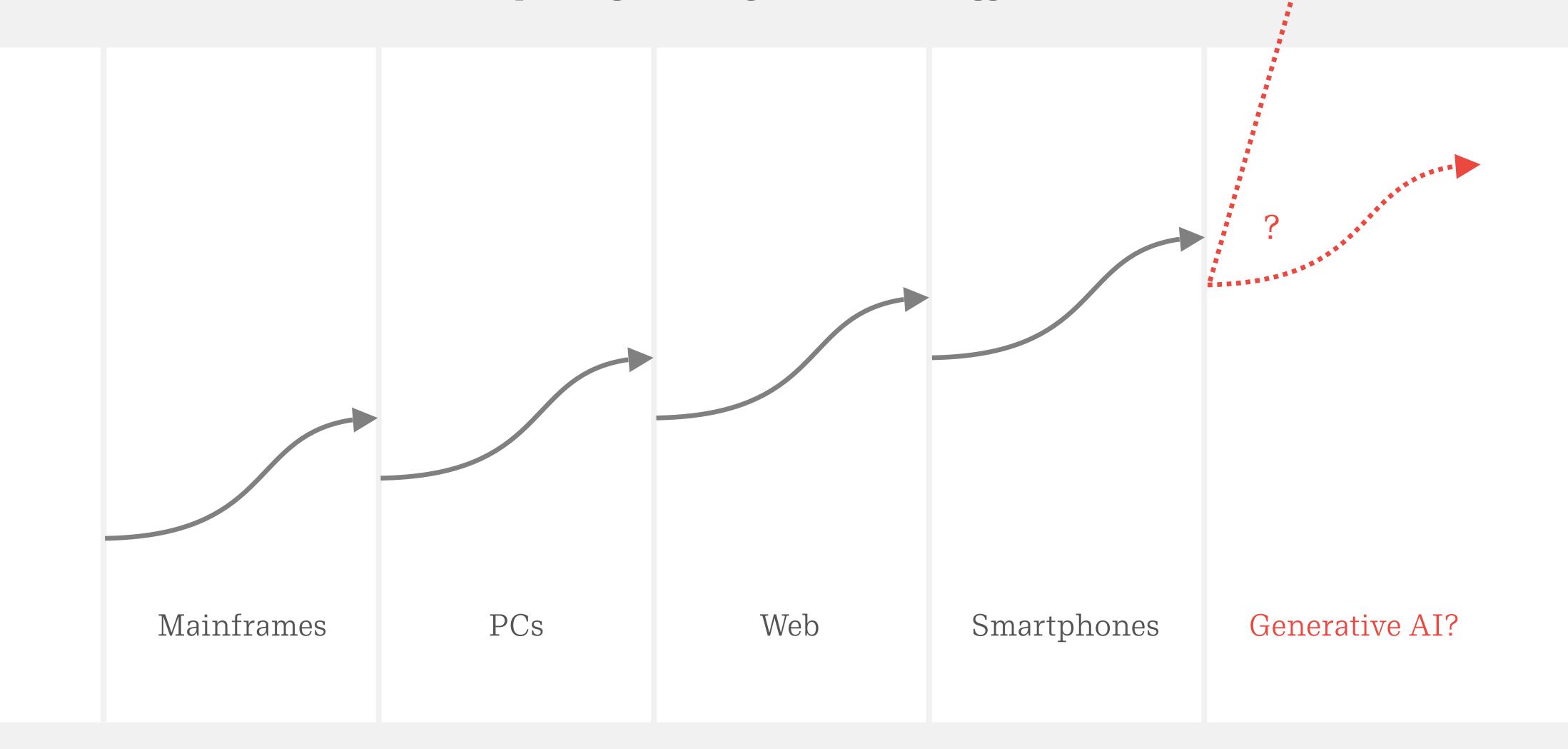
### So, the next platform shift?

Every 10-15 years, a platform shift reshapes the tech industry



# So, the next platform shift? Or more?

But if these models really do keep scaling, the change could be a lot bigger



## What kind of a change is 'generative AI'?

Is this Everything, or just the New Thing?



"In from three to eight years we will have a machine with the general intelligence of an average human being"

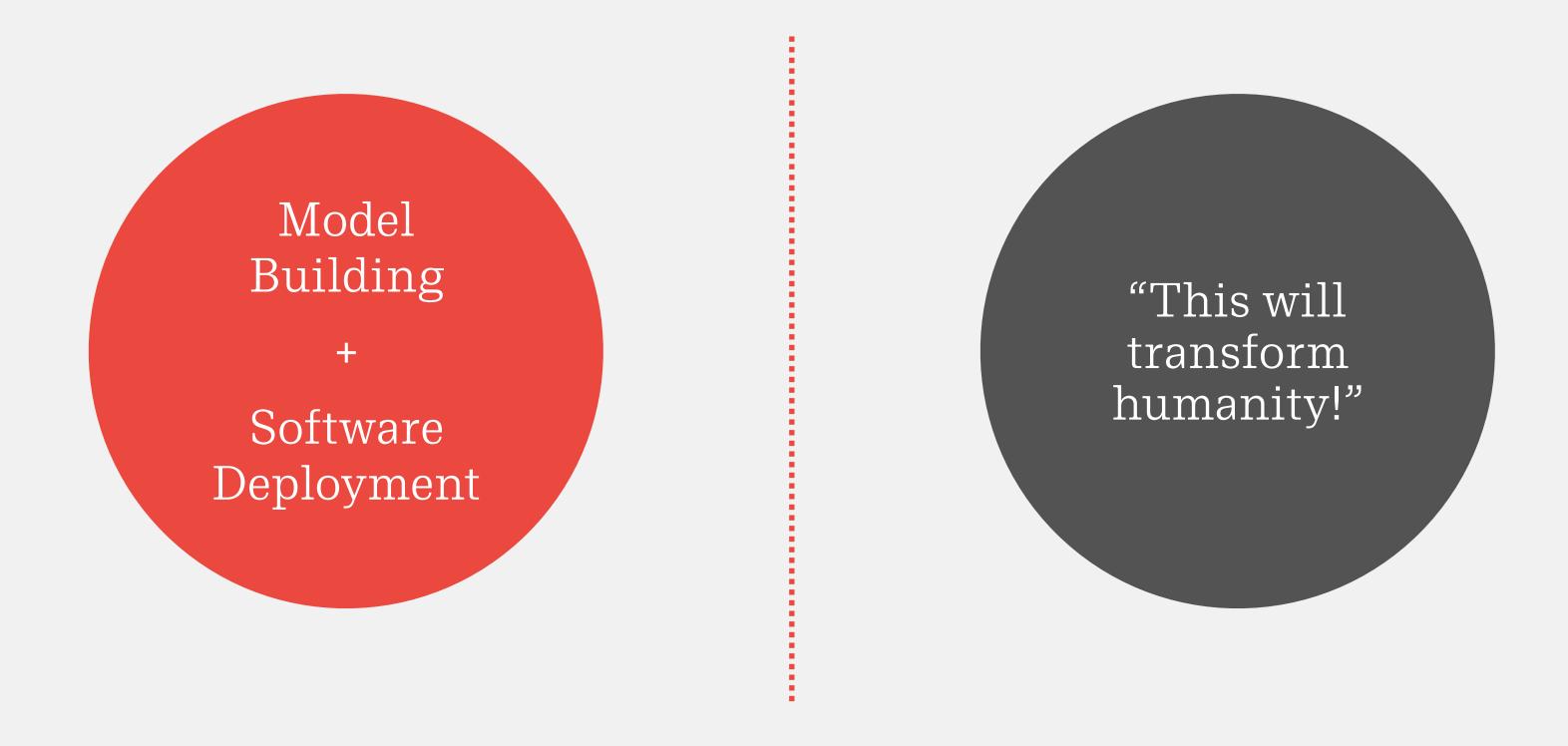
Marvin Minsky, 1970

"AI is whatever machines can't do yet"

Larry Tesler, 1970

# What's going on right now?

Two kinds of conversation - this is Something, but it might be Everything



# Model building

#### Two years of the model wars

Lots of investment, lots of progress, no apparent defensibility

Much more capital

Pricing collapse

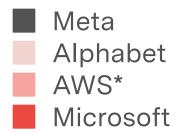
Lots of new stuff - agents, multimodal, 'reasoning', MCP etc

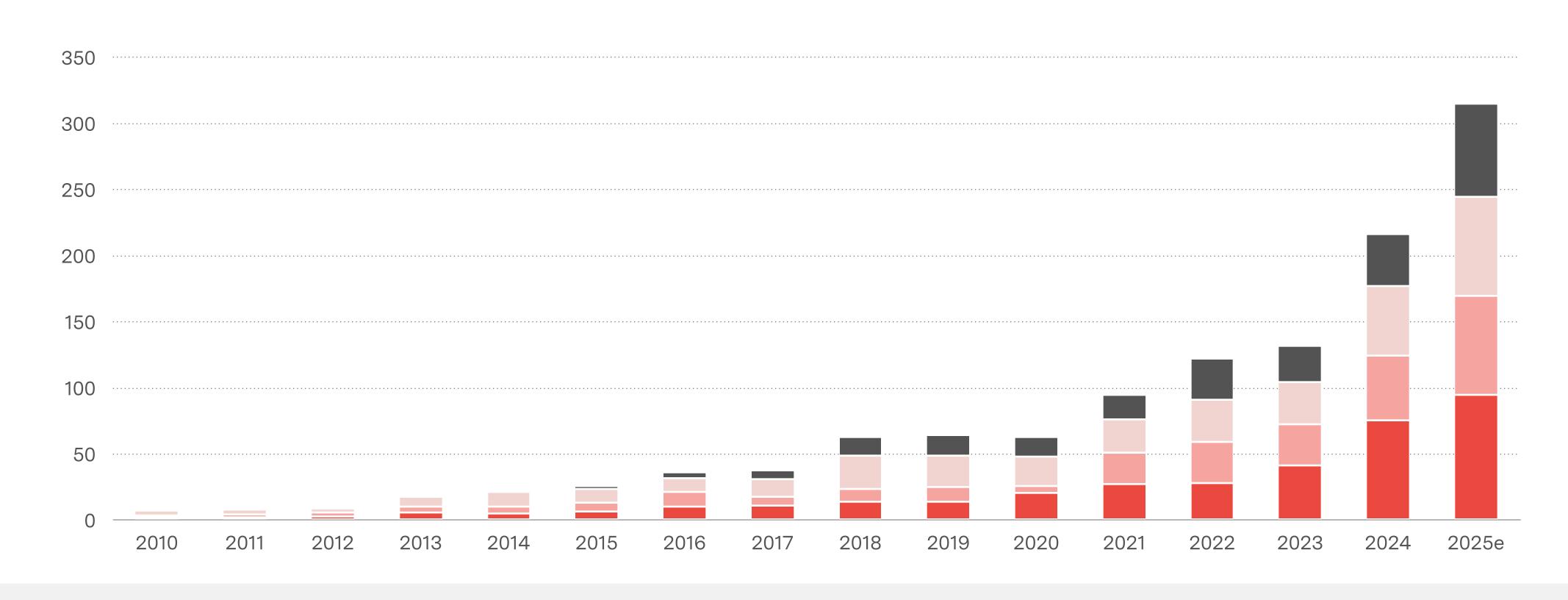
No obvious moats
Open Source

#### FOMO drives a capex surge

If this is the centre of tech for the next decade, you don't want to miss it





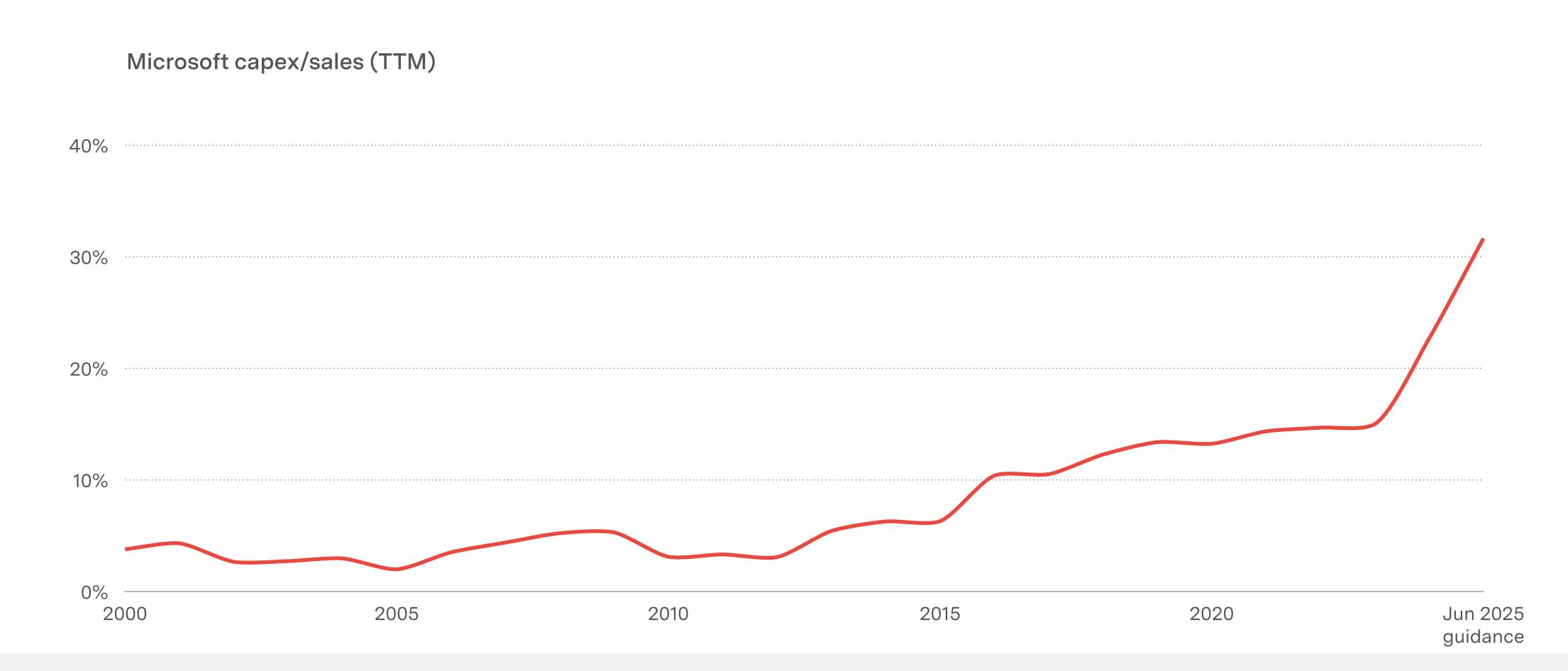


Source: Companies, company guidance. Includes capital leases

\* Amazon does not break out AWS capex but reports it as 'the majority'

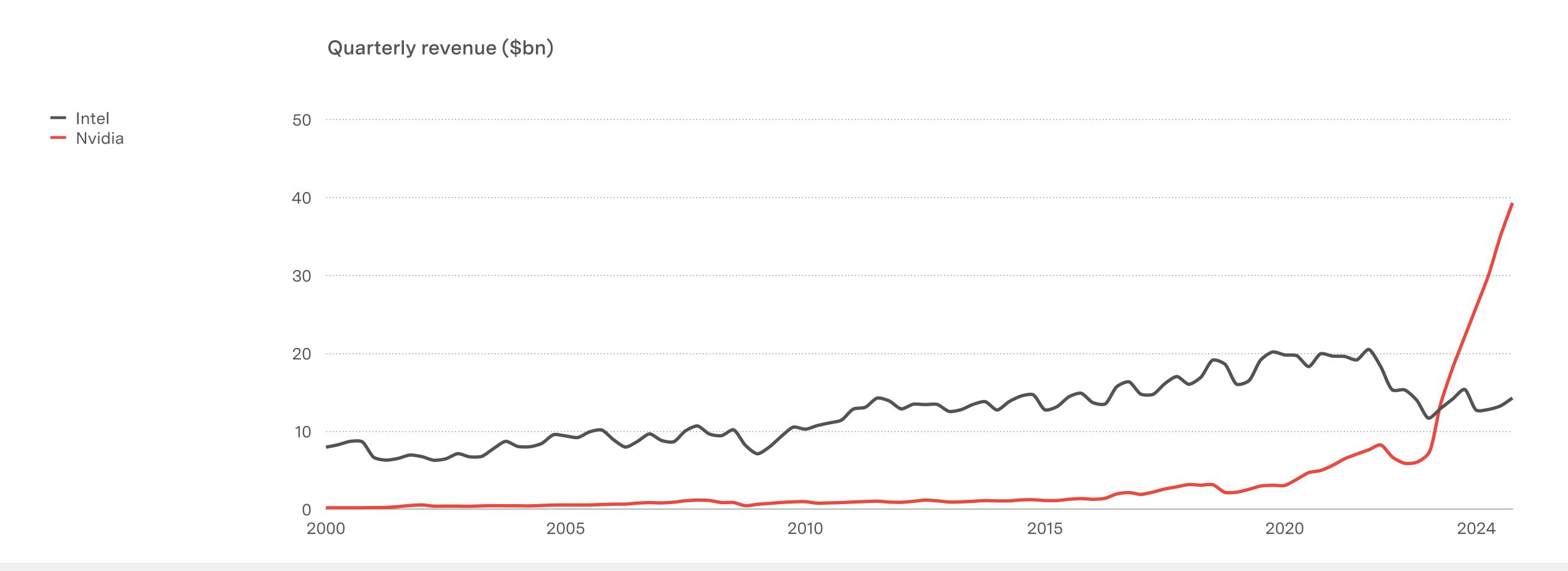
# Microsoft's margin shift

Remember when Microsoft's business was selling \$1 CDs for \$250 each?



#### The Nvidia moat

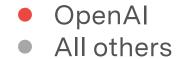
Nvidia tries to build a new Sun with custom compute and a software ecosystem. (This is also a TSMC chart)

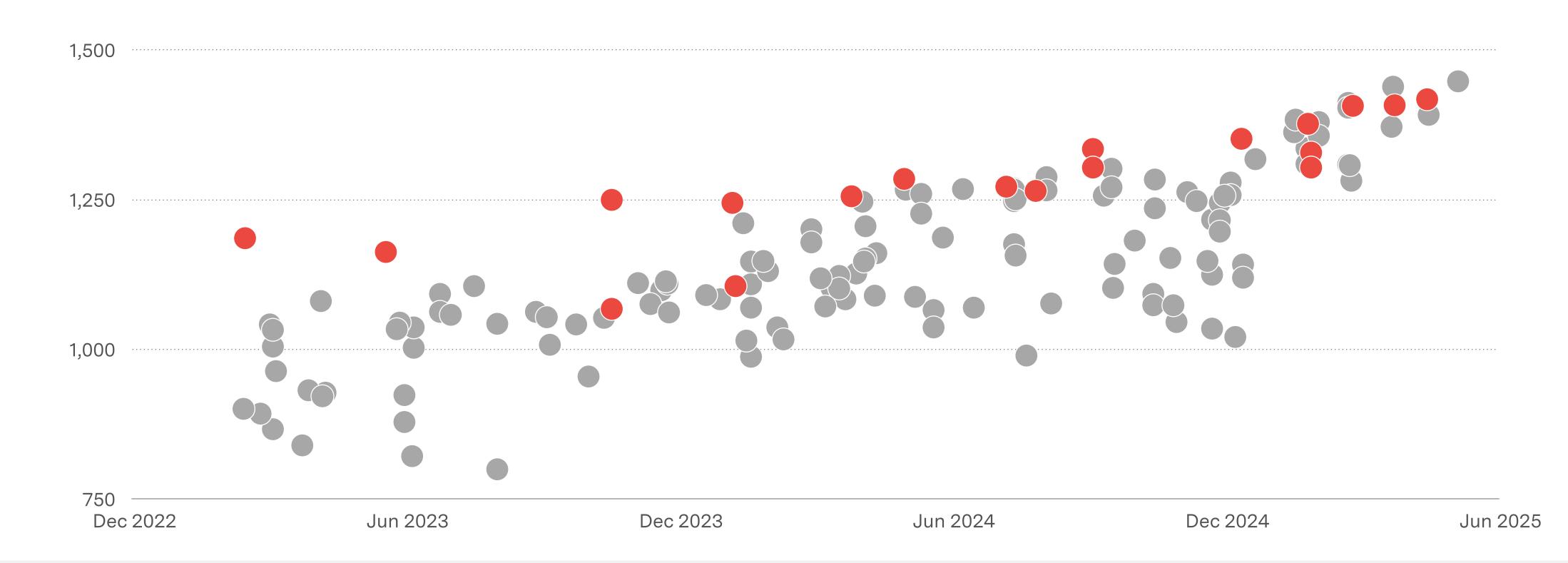


#### Models themselves seem to be commodities

No apparent barriers to matching SOTA, and OpenAI's first-mover lead has steadily eroded



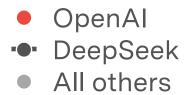


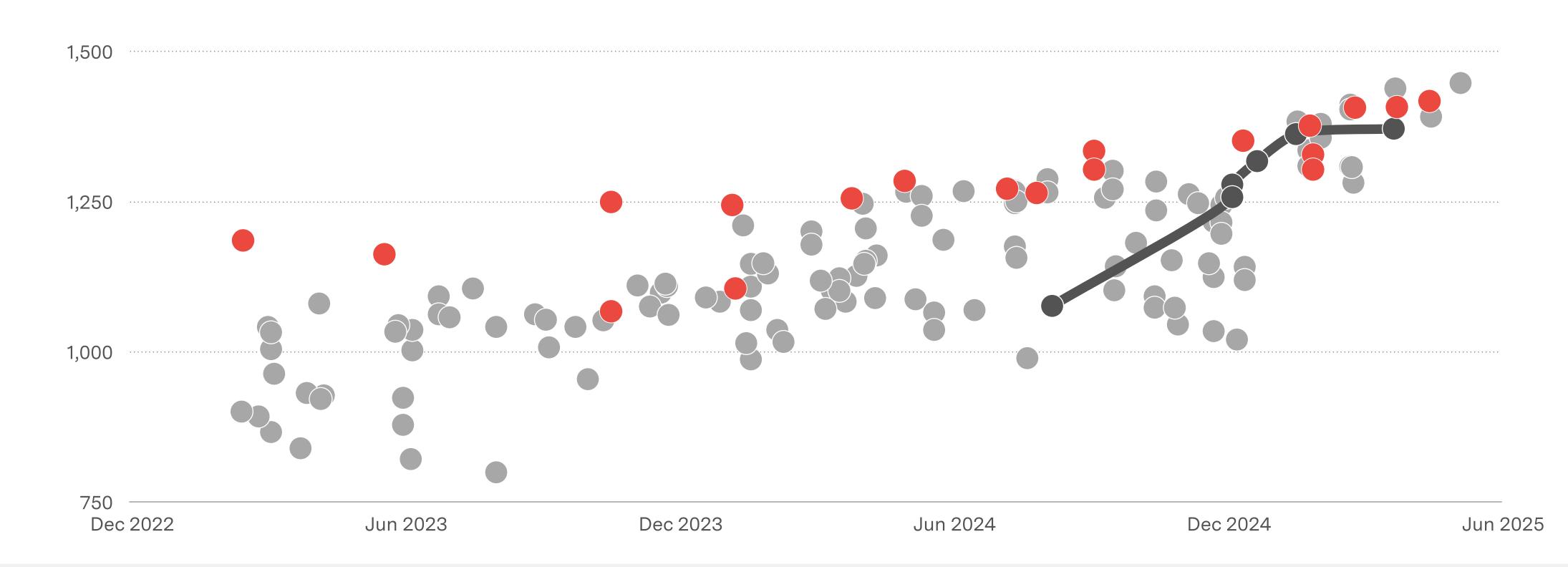


#### DeepSeek just proves the point

Open source (plus leaky sanctions and \$500m of capex) let a Chinese hedge fund rival the best labs

#### Model quality (LMArena) by release date



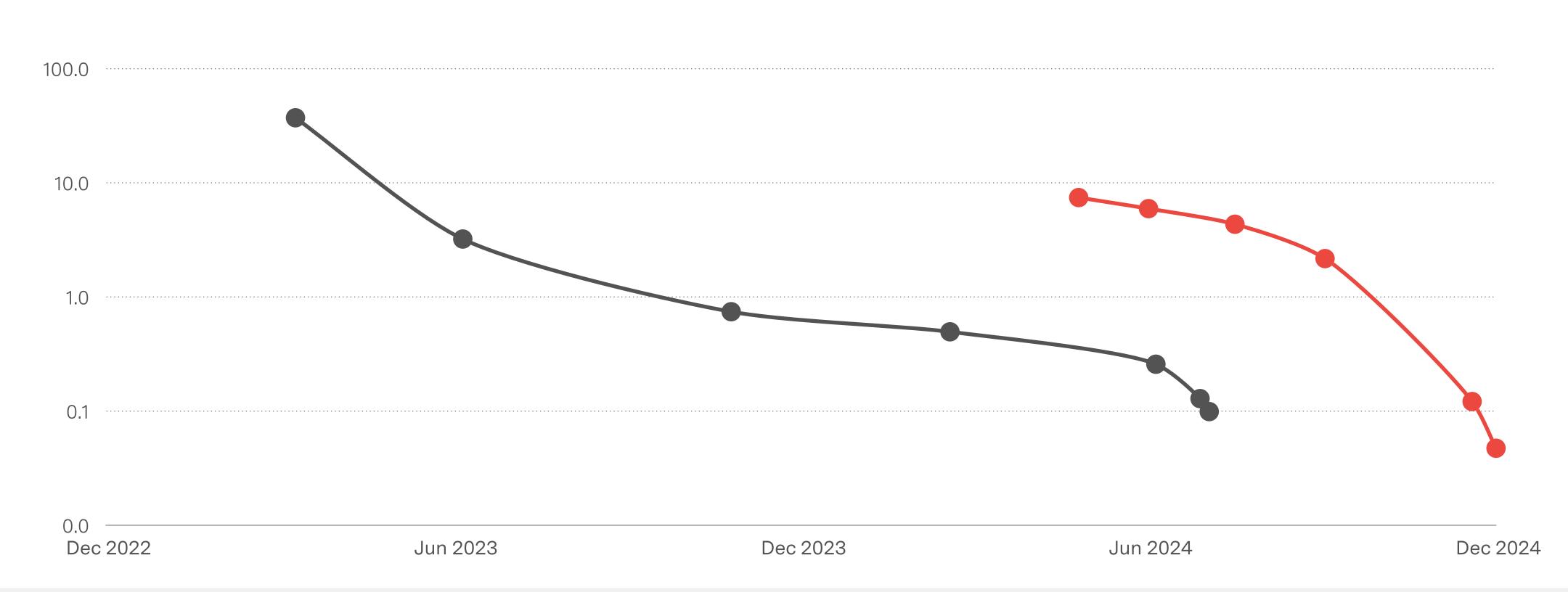


# Ongoing price collapse

"An LLM is the most expensive and fastest-depreciating asset in tech history"

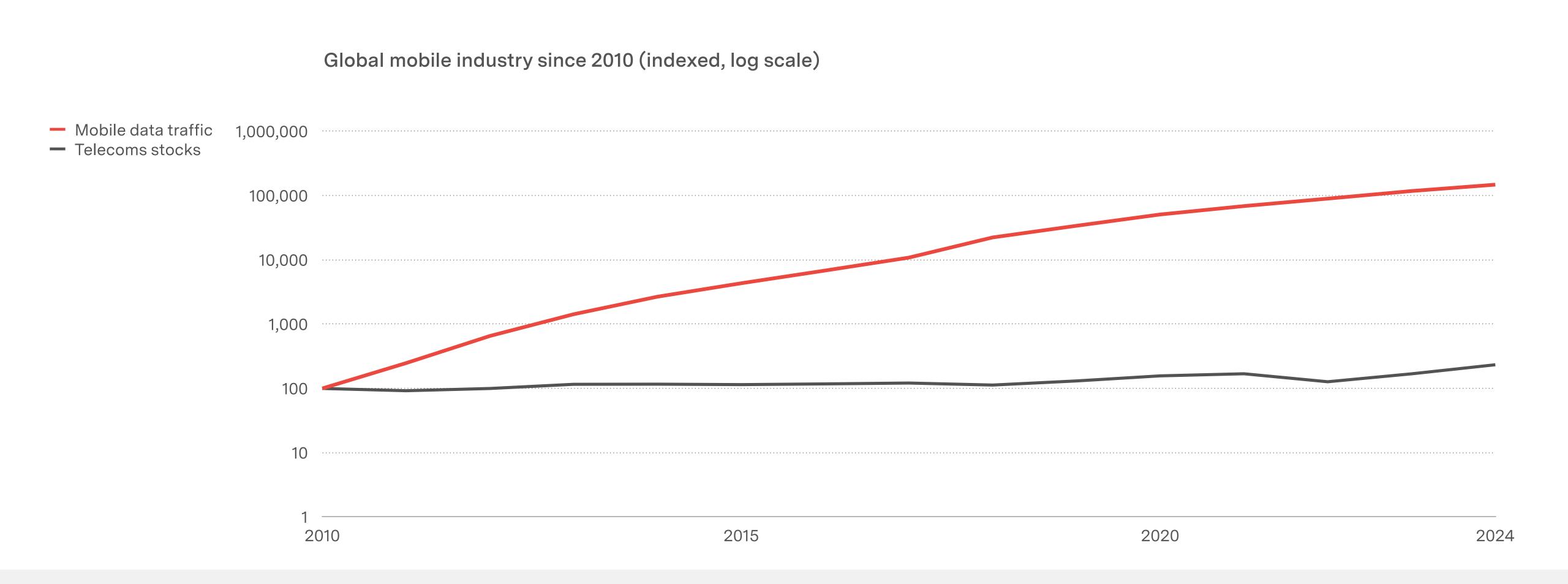






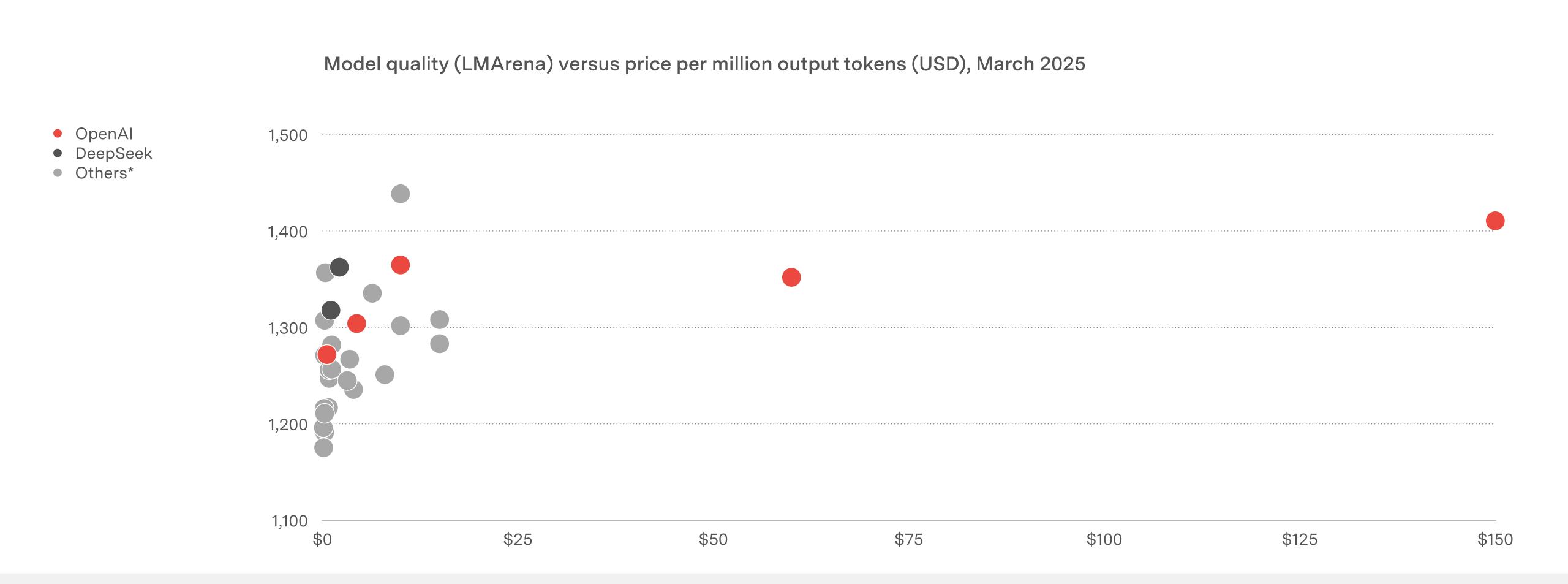
#### "The Jevons Paradox!"

Economics for beginners: lower prices generally mean more use, but not necessarily more revenue or profits



#### "Better, faster, cheaper: pick two"

Dozens of models trading cost versus performance, and pushing towards the edge

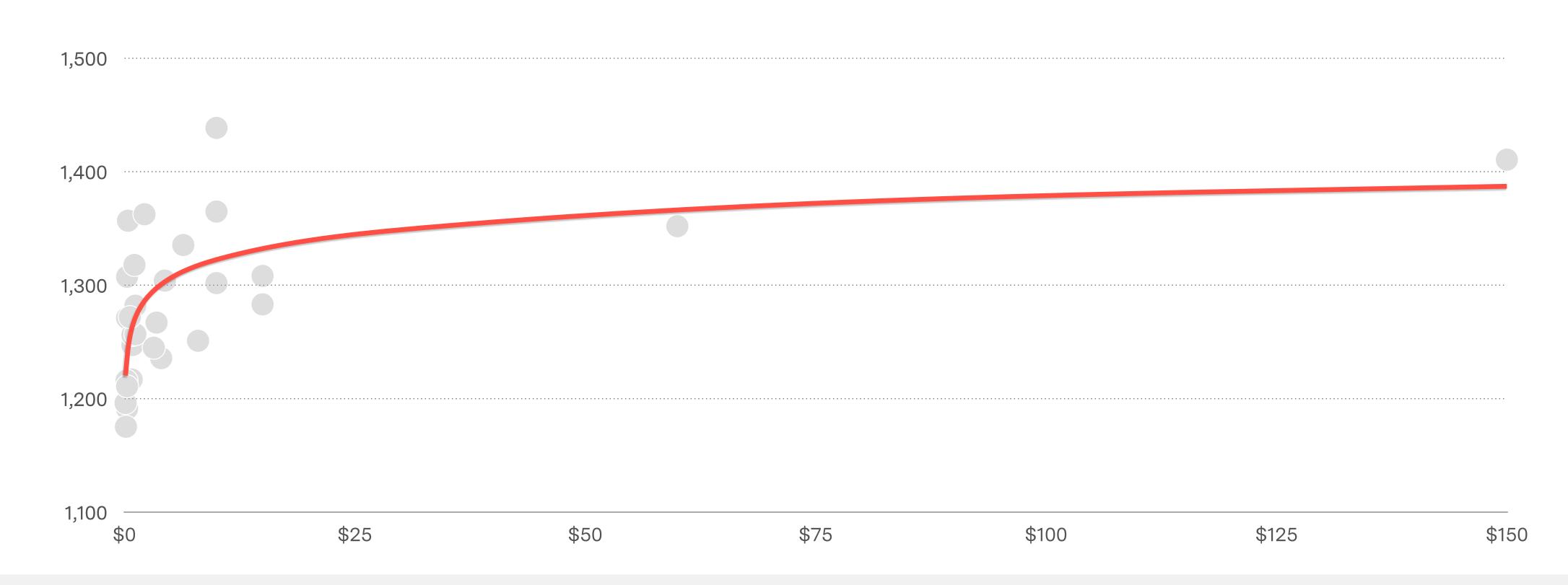


Source: Companies, LMArena \* Google, Meta, Amazon, Anthropic, Alibaba, Mistral, xAl

#### "Better, faster, cheaper: pick two"

Dozens of models trading cost versus performance, and pushing towards the edge

Model quality (LMArena) versus price per million output tokens (USD), March 2025



#### "Feeds & speeds" and a lot of acronyms

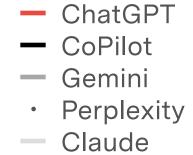
Hundred of models, dozens of benchmarks and acronyms - MTOK replaces MHz

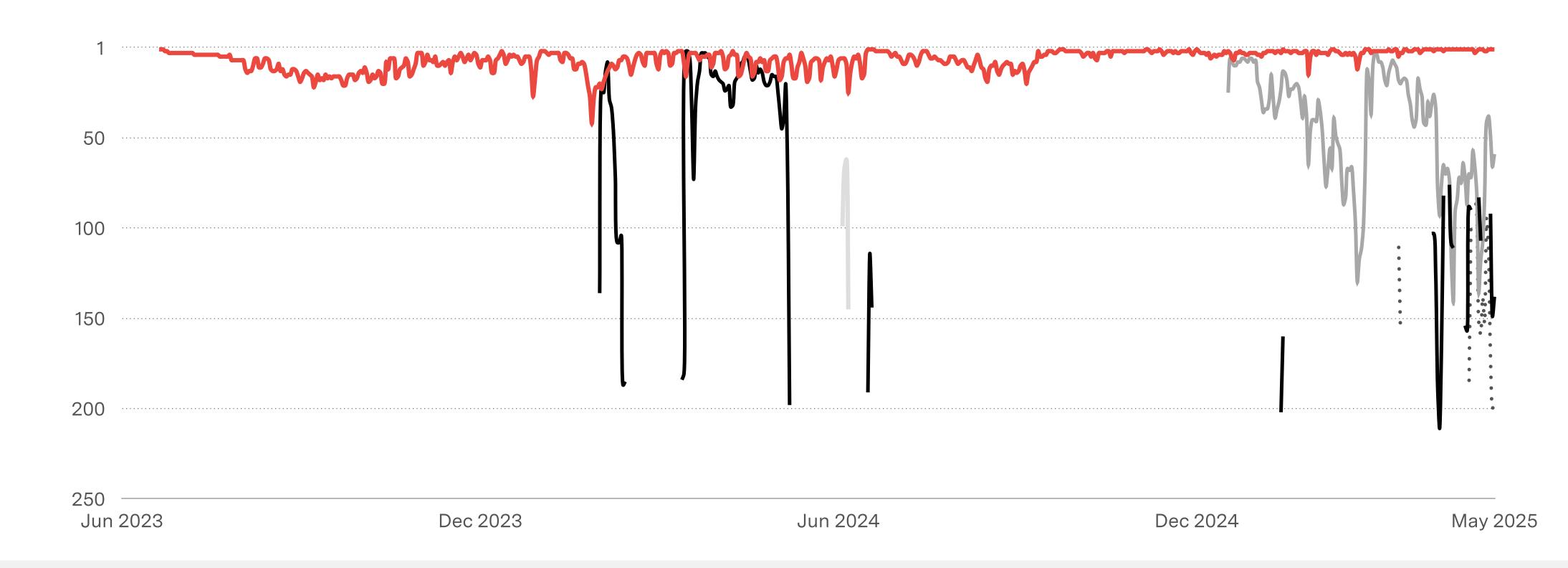


#### Product, brand or distribution?

The models may be commodities, but ChatGPT is the only 'AI' brand with consumer awareness







### 'Big Tech' strategies: "how do we use this?"

Incumbents always try to absorb the new thing into their existing strategies

Build a hardware platform Nvidia

Make it a commodity

Amazon, Meta

Sell the APIs Amazon, Google, Microsoft

Make it a feature

Google, Meta, Microsoft, Apple

#### But what does this mean for the rest of us?

How many acronyms do you need to care about if you're not an Nvidia shareholder?



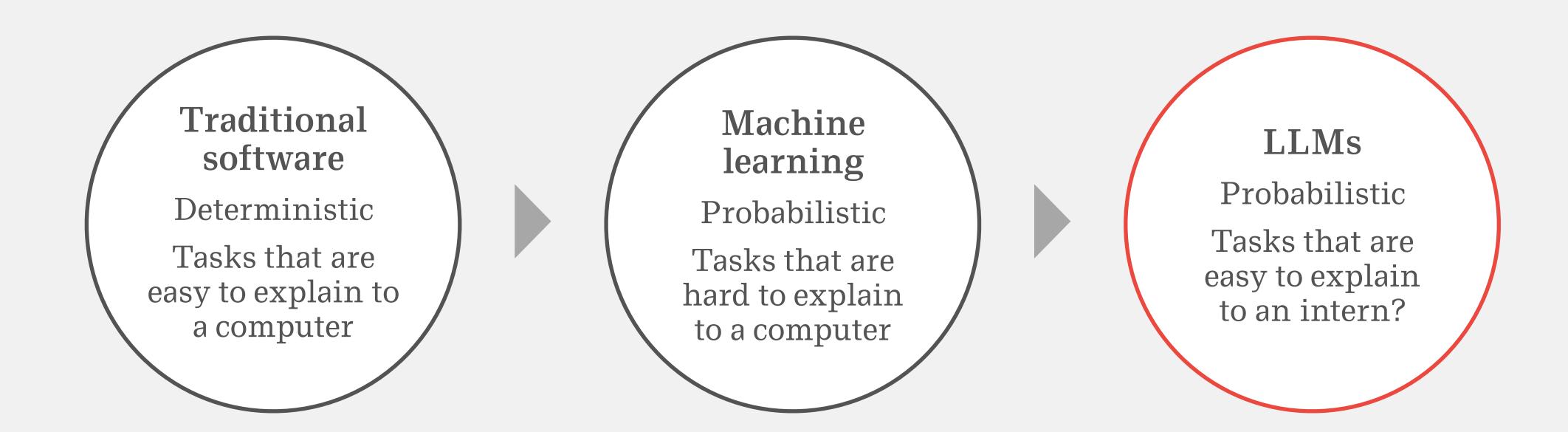
Models getting better and cheaper



# Deployment

#### From deterministic to probabilistic software

LLMs change what we can expect from software



That sounds great, but...

What specifically can we do with tech that can automate things computers could never do before?

If the tech might get it wrong?

#### What do we do with this? How?

For most people in most kinds of job, it's not easy to work out what do with an LLM



How do I ask, control, steer, explain, iterate? What kind of errors are OK?

Where do we put the human in the loop?

Do we use LLMs to control all of our traditional software?

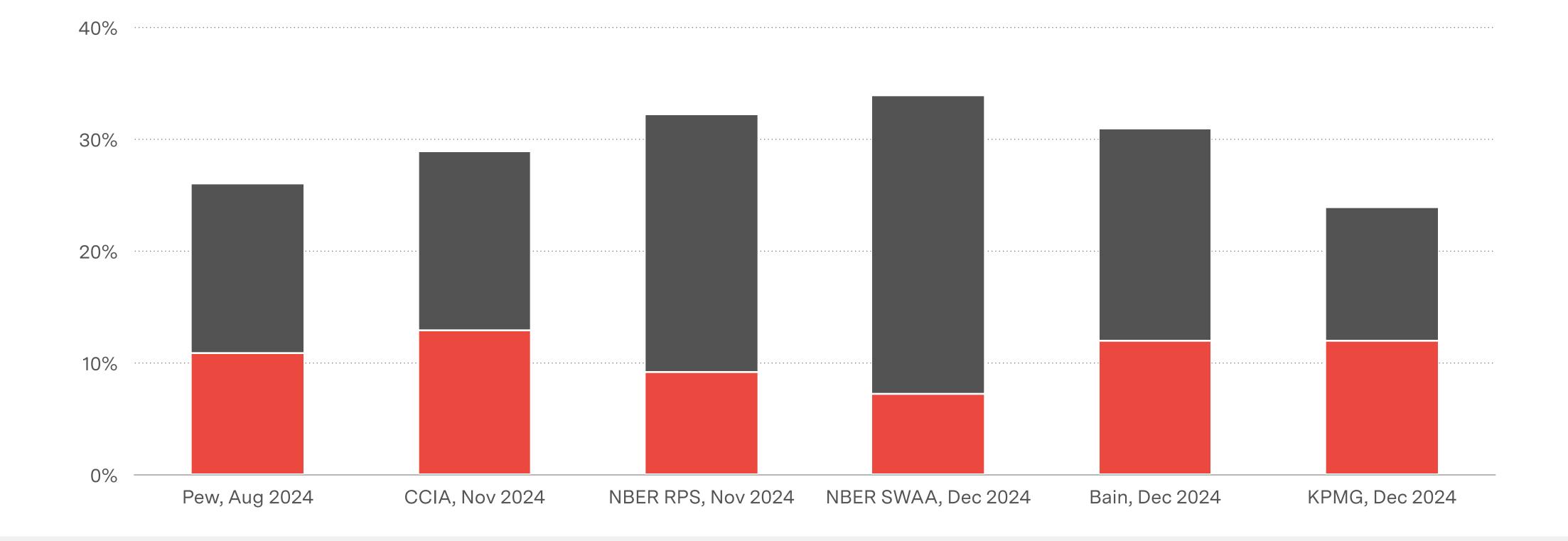
Or are LLMs just another API to build software?

#### Do chatbots have product-market fit? Who for?

If this is life-changing, why is WAU/DAU so bad? Is this just a matter of time, or is this a product problem?







#### Corporate hesitation

For enterprises, use cases are easier to see but implementation is hard

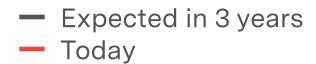
Enterprise reasons to delay LLM deployment, top three choices (December 2024)

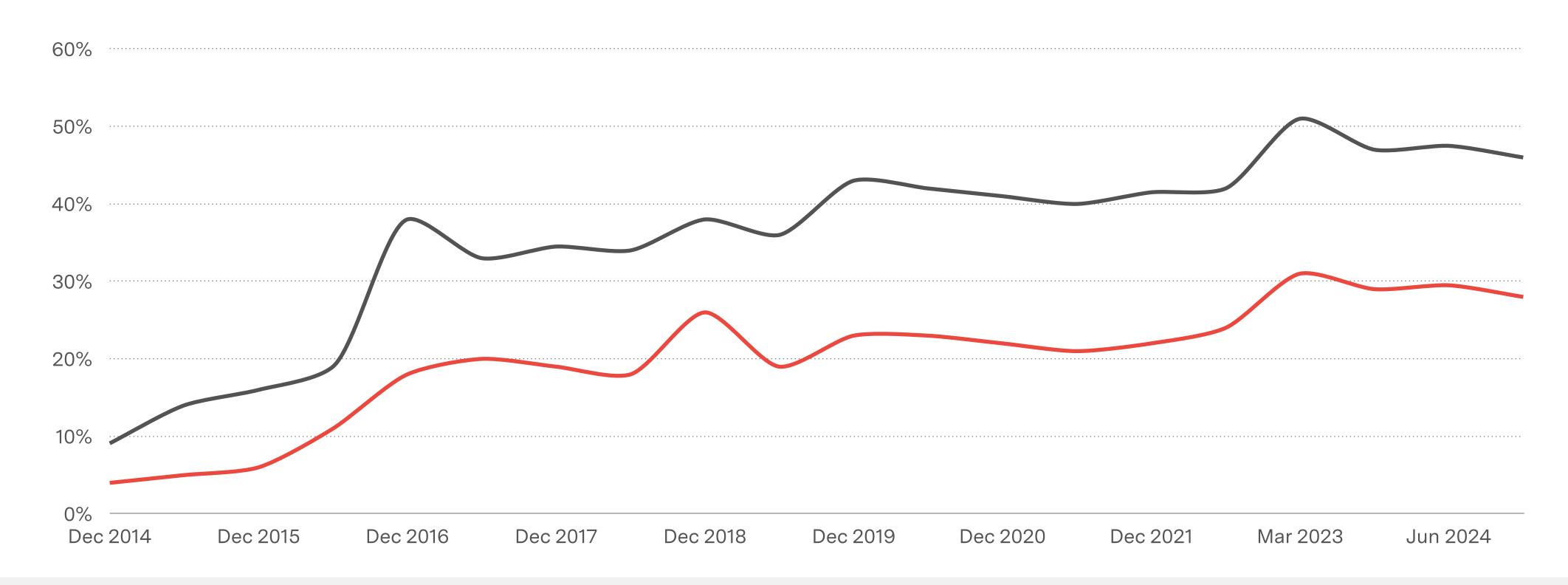


#### The future always takes time

Cloud is old and boring - but still only 30% of workflows

#### Enterprise workloads in public cloud





#### It's always different

Every platform shift looks like fundamental discontinuity

Smartphones replace "What's a use-case for 3G?" ...... PCs at 5-10x the scale "Why would anyone trust All new software is ...... Amazon with their data?" built on the cloud "LLMs are slow, expensive True, but... ......... and unpredictable"

#### What's the standard pattern?

How do we *always* deploy new technologies?



#### Do you have that use case?

"VisiCalc took 20 hours of work for some people and turned it out in 15 minutes" - Dan Bricklin

Now, imagine a lawyer seeing it: "that's very clever, but I don't have that use case"



#### "I have that use case!"

Immediately, obviously useful for some professions and some workflows...

Coding

Errors easy to see
30%+ efficiency
gains already

Marketing

Errors easy to see

Many possible
answers

Customer support

(Use with caution)

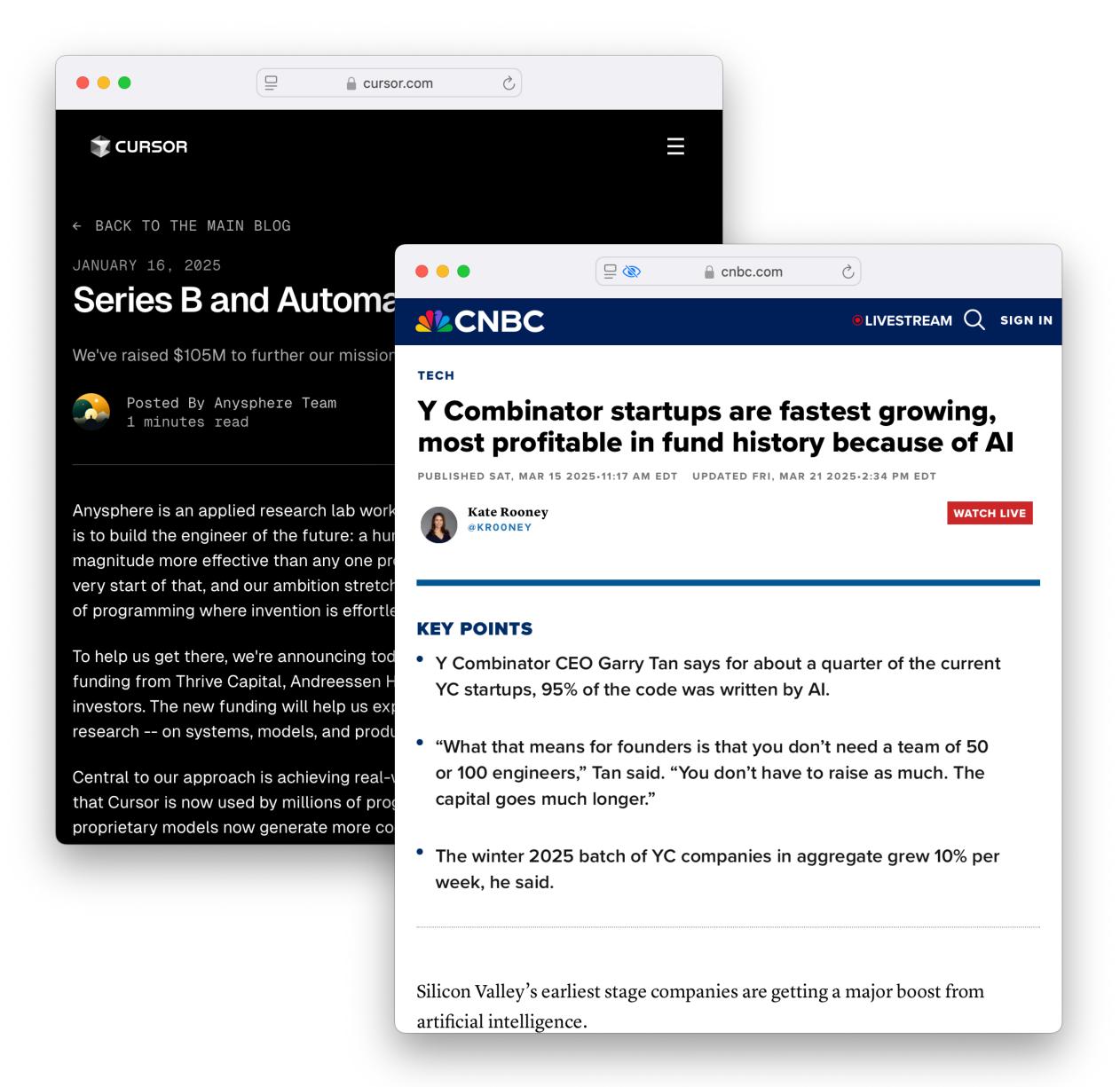
Early adopters

(Always a limited market)

## AI coding as the new AWS?

"Vibe coding" as the new abstraction layer, after AWS, libraries, operating systems...

A new step change reduction in software creation costs?



For everyone else...

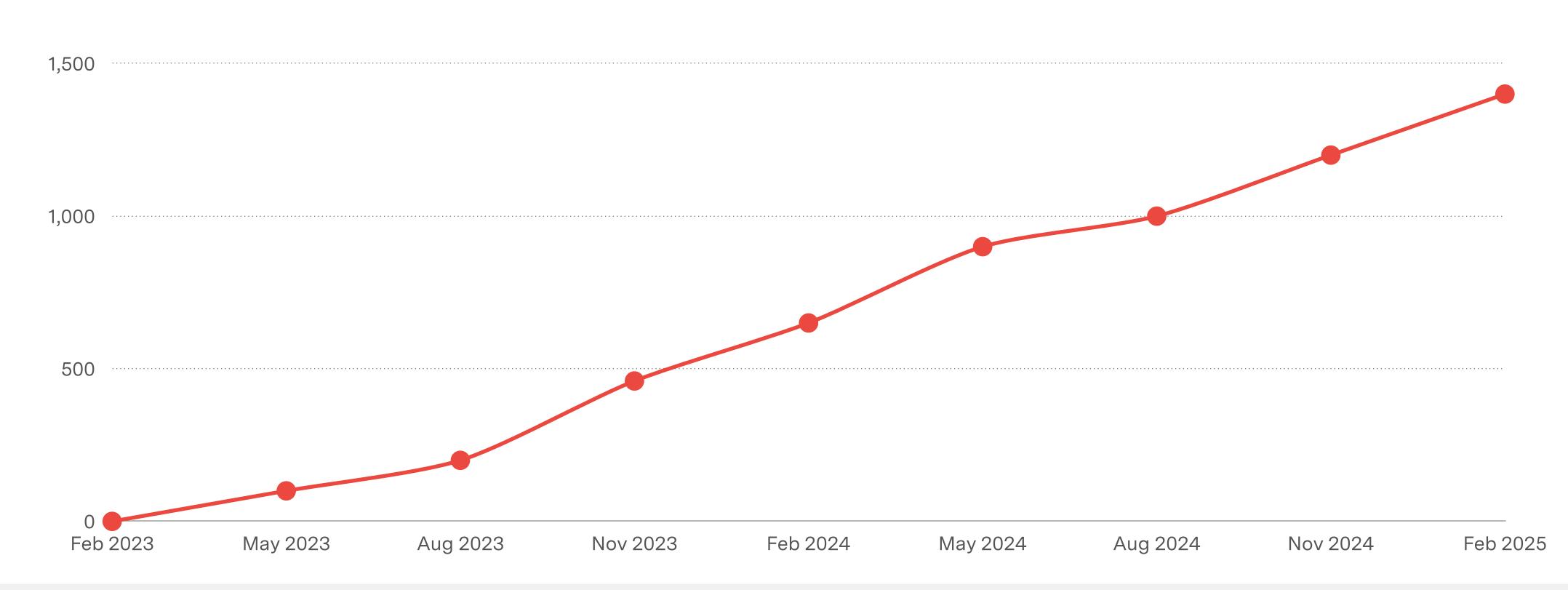
"It's not the customer's job to know what they want. It's our job to show it to them"

Steve Jobs

## Digital transformation!

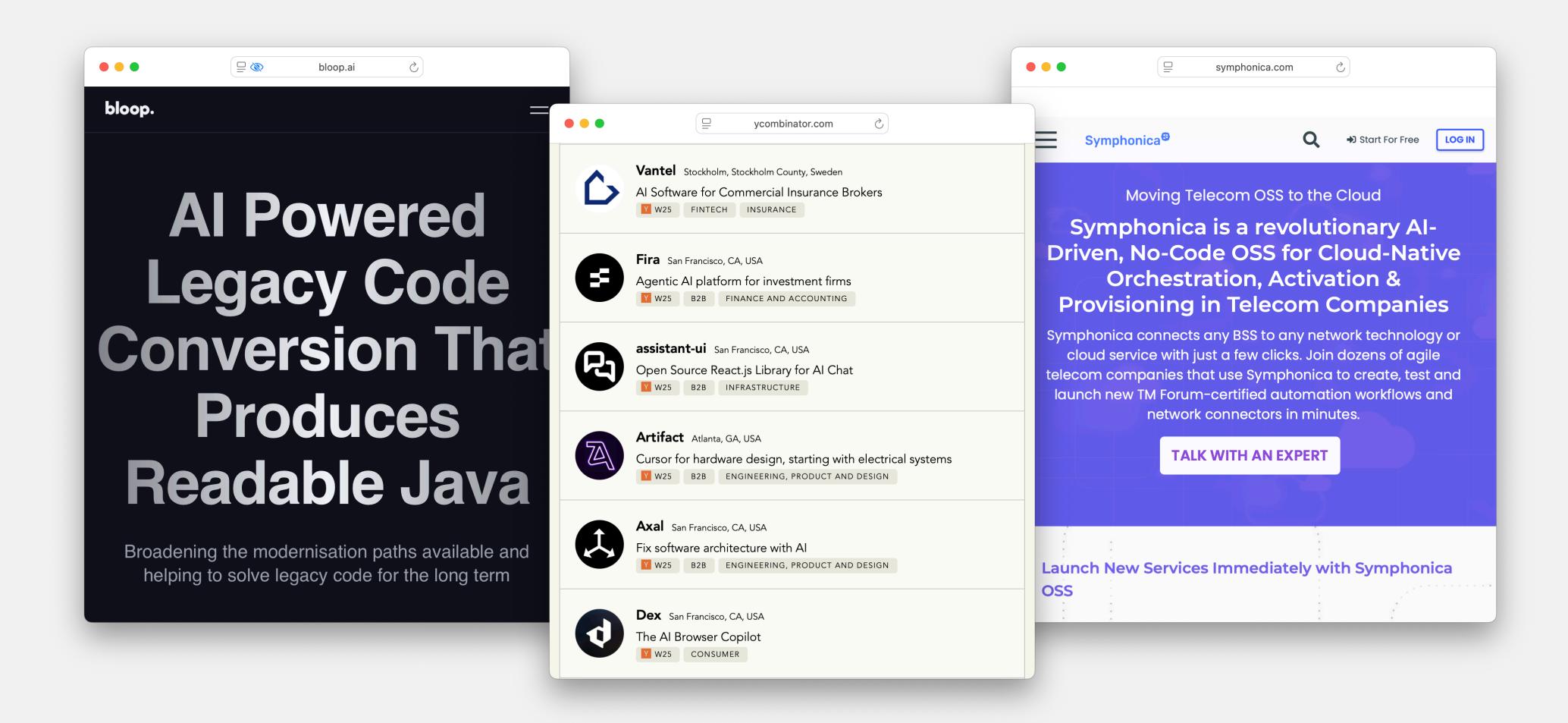
Dig into boring back-office processes and look for things to automate





#### Startups create use cases & unbundle incumbents

Unbundling Excel, Email and Oracle

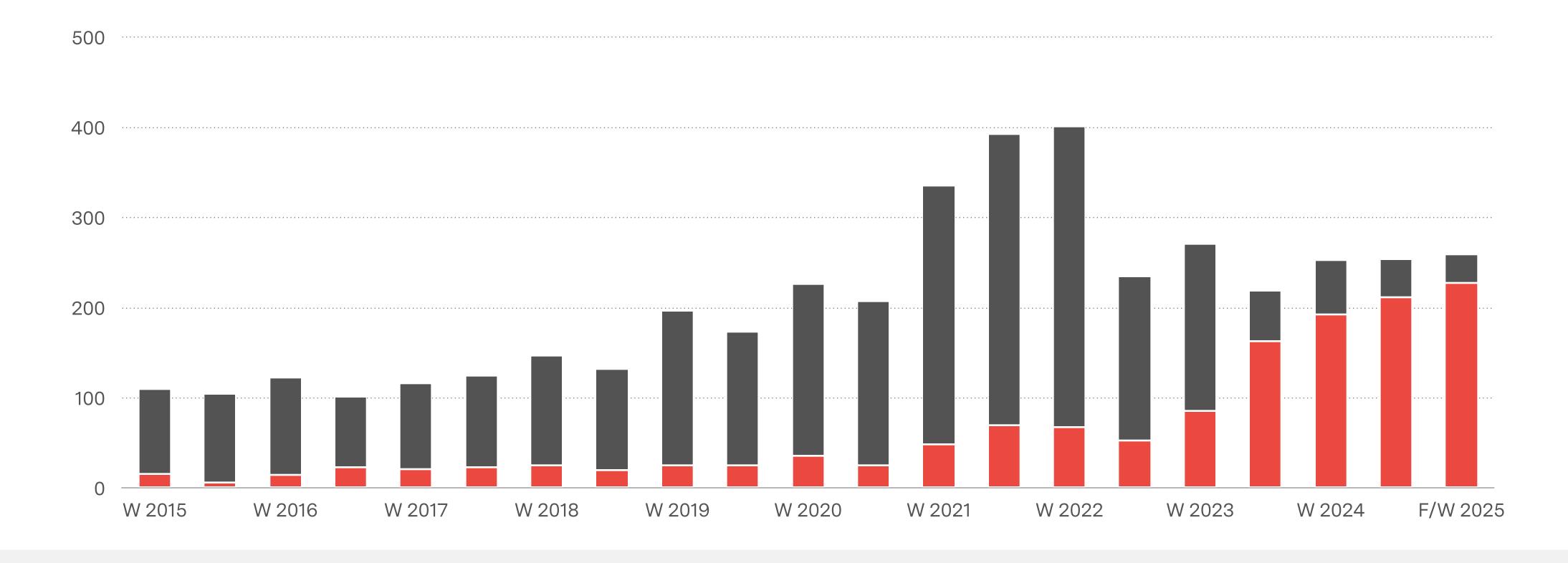


## (Almost) every new startup is AI

The coming wave of AI startups unbundling Excel, email and Oracle

#### Y Combinator startups by field



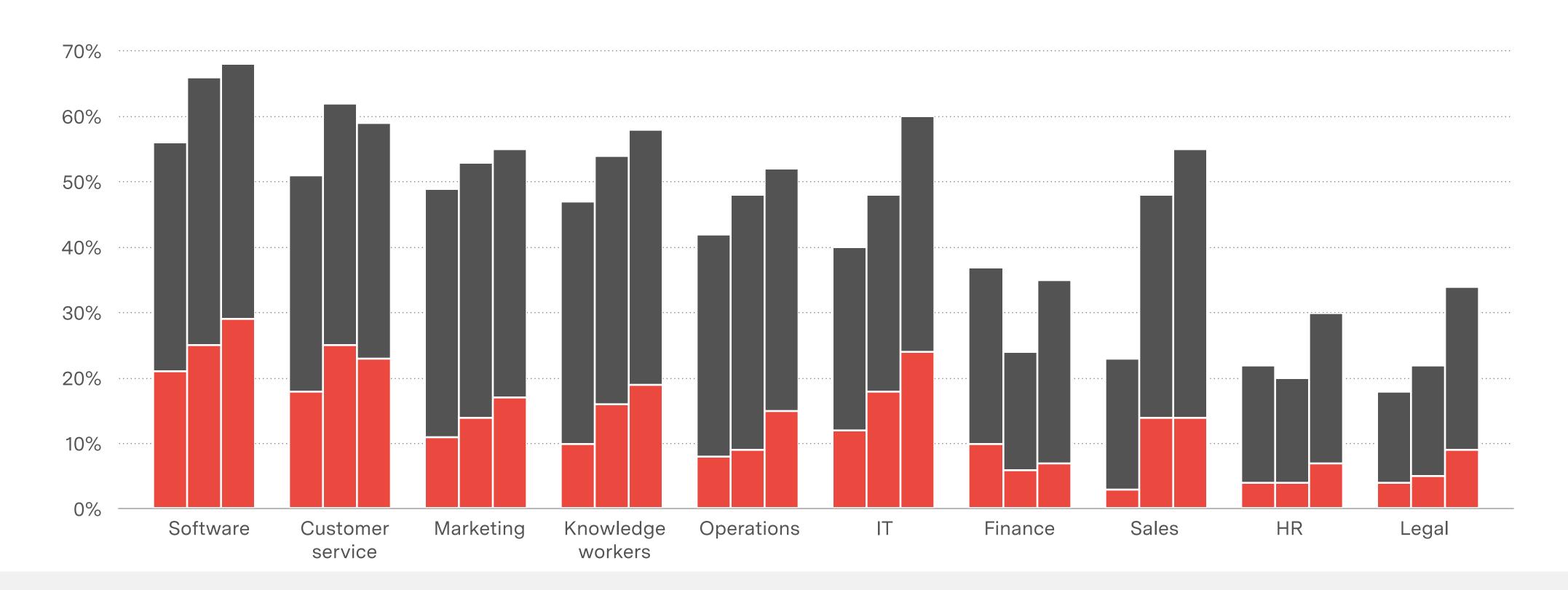


## Everyone has a pilot

Enterprise software takes time, and come with early disappointments

Enterprise use case adoption rates for generative Al: February, July & December 2024

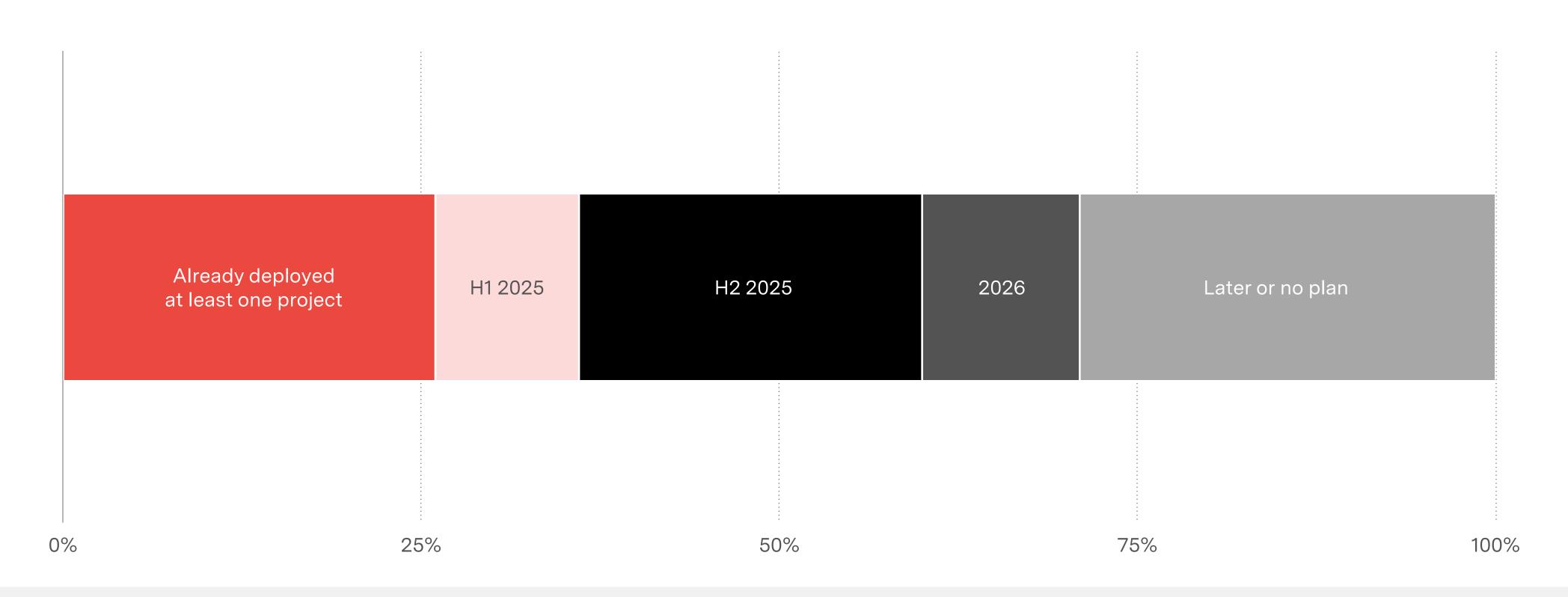




#### The future can take time

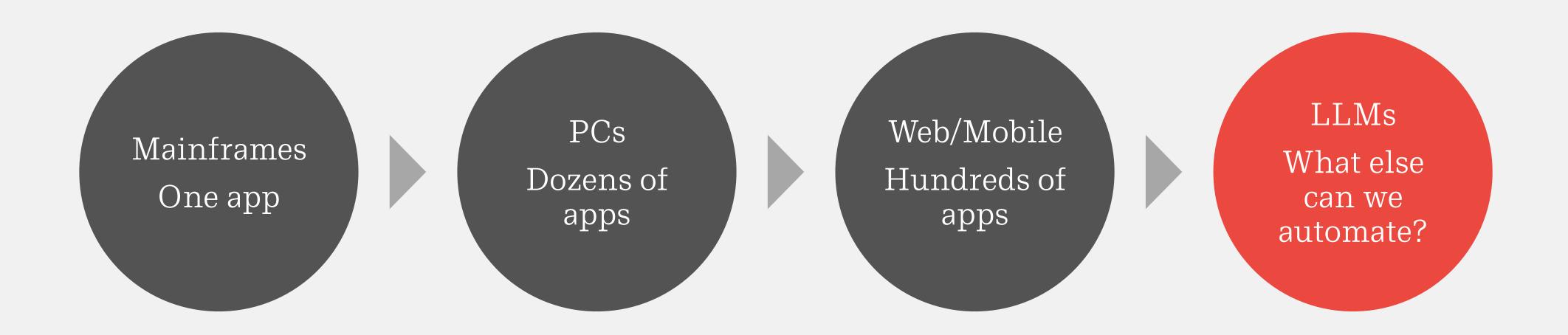
A quarter of CIOs have launched something - but 40% don't plan anything until at least 2026

CIO expected timing for first LLM projects in production, March 2025



#### Platform shifts mean more tools

SaaS means the typical large enterprise now uses 4-500 apps



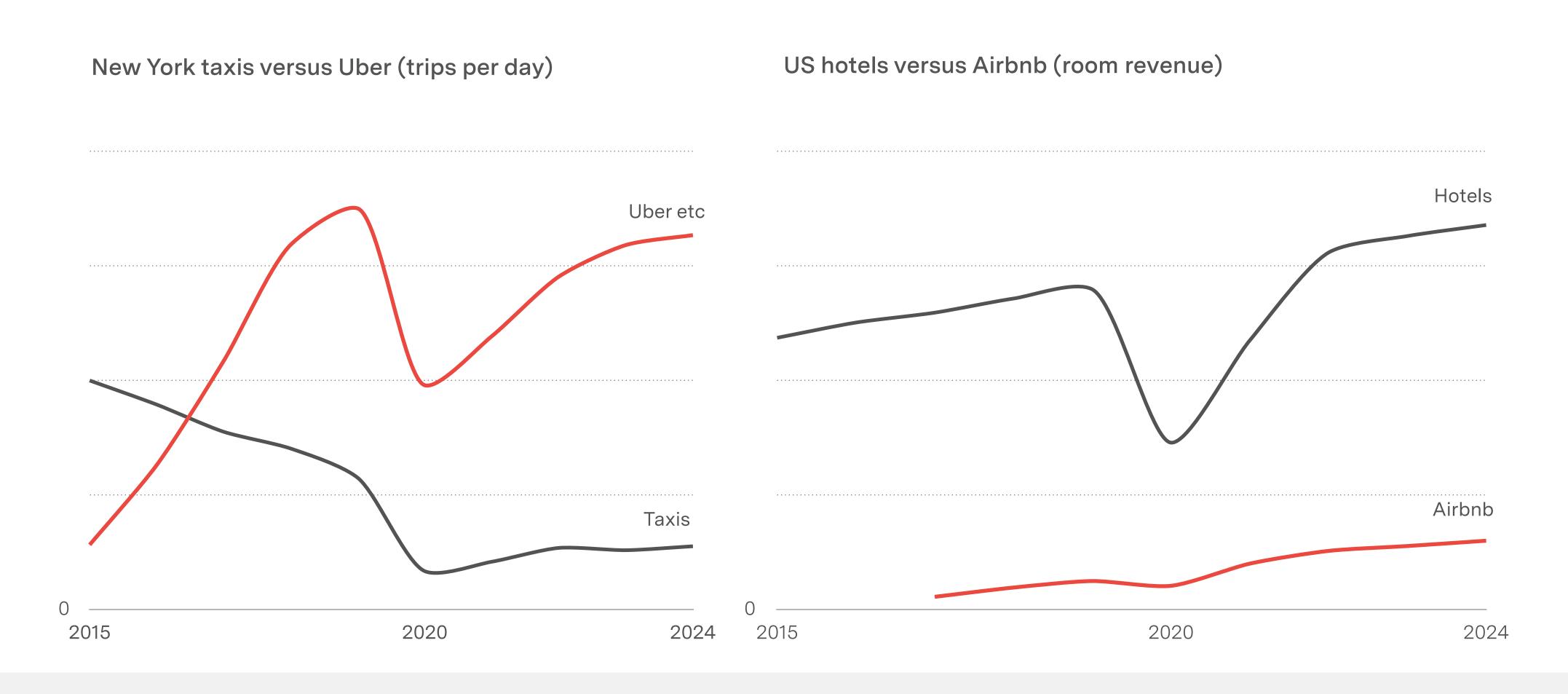
Is this a CIO question? CFO? CEO?

Is this an Accenture question? Or a Bain/BCG/McKinsey question?

Is this top line or bottom line change? Or a disruptive, existential threat?

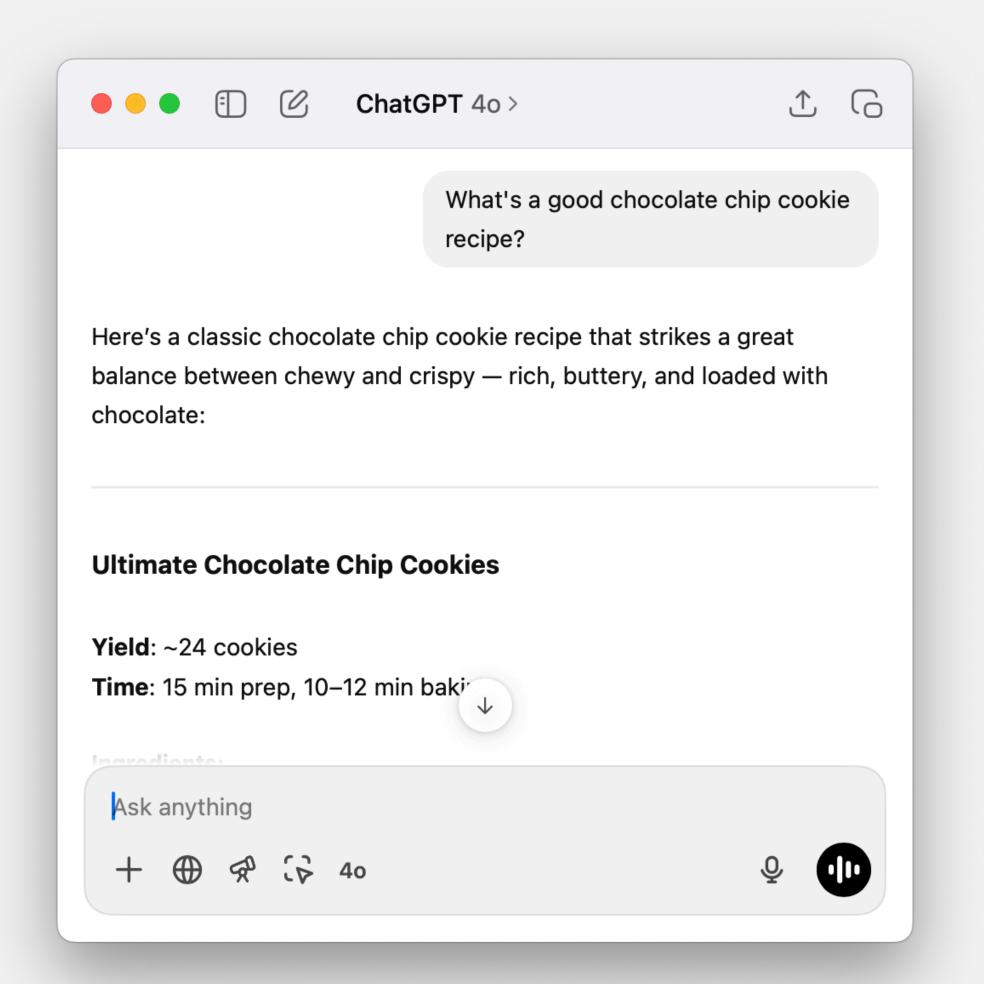
#### What kind of disruption, anyway?

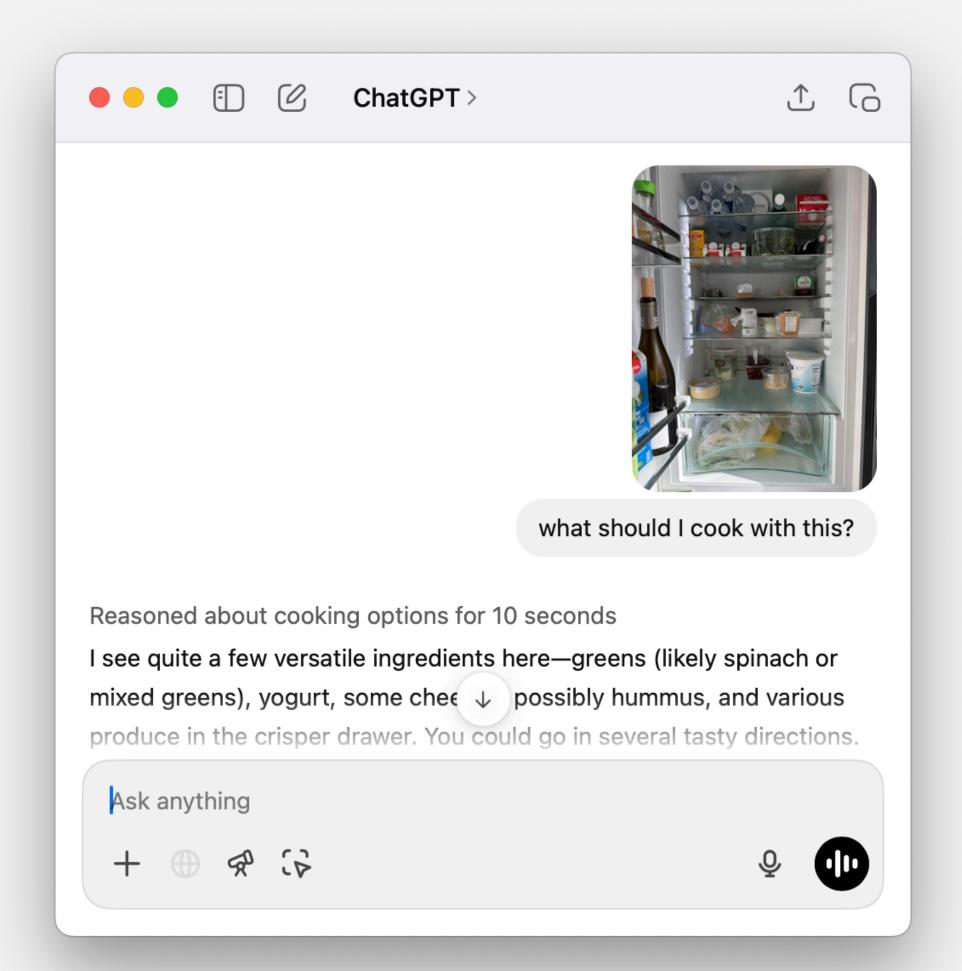
'Redefining the market' can mean very different things



#### Can we change the question?

Do you replace Google, or ask something entirely new?

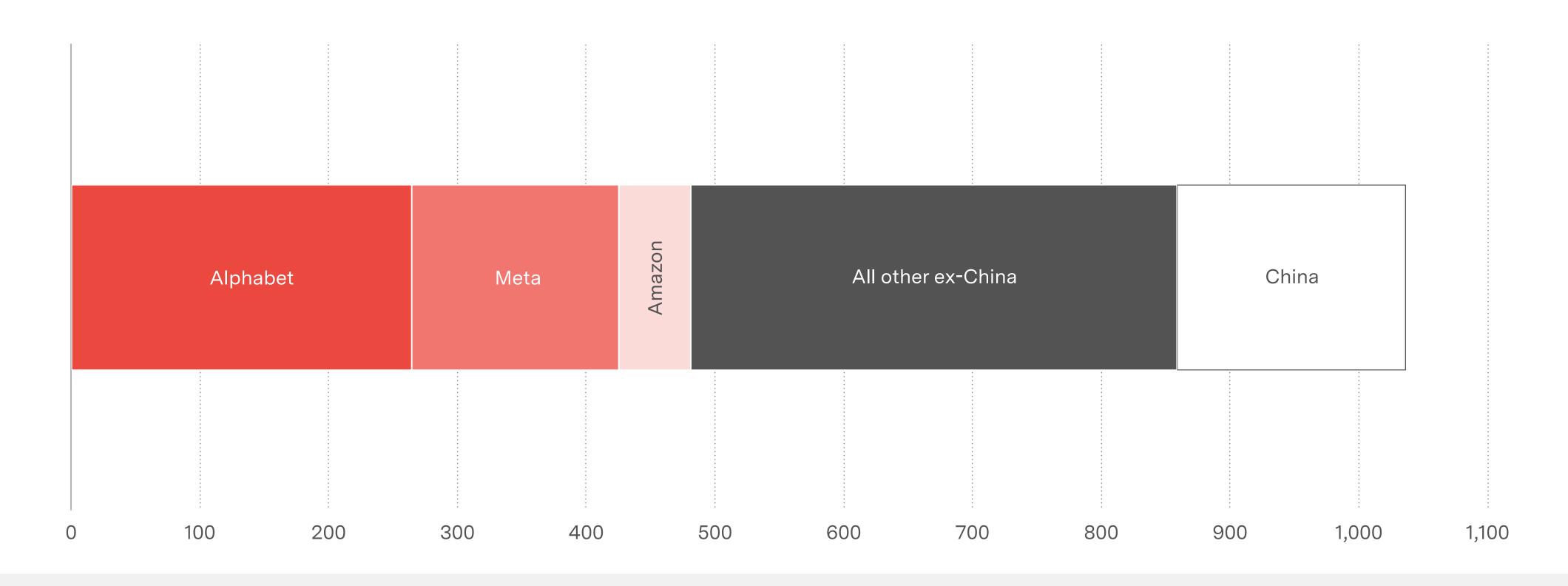




#### Where does the money go?

Brands spend a trillion dollars a year to talk to consumers - how does that money move around LLMs?





#### And what kinds of questions are these?

Tech changes the landscape for each industry, and then moves on

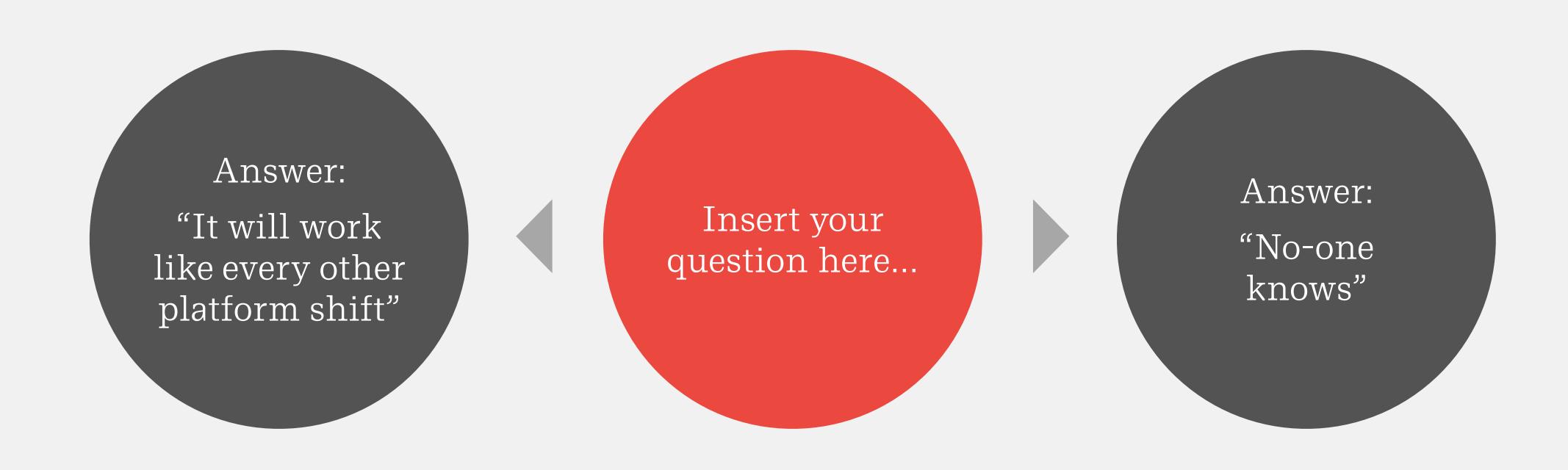
How does AI search & discovery change retail?

What will AIenabled robotics do to logistics? How will AI video generation change Hollywood?

# Welcome to the next platform shift?

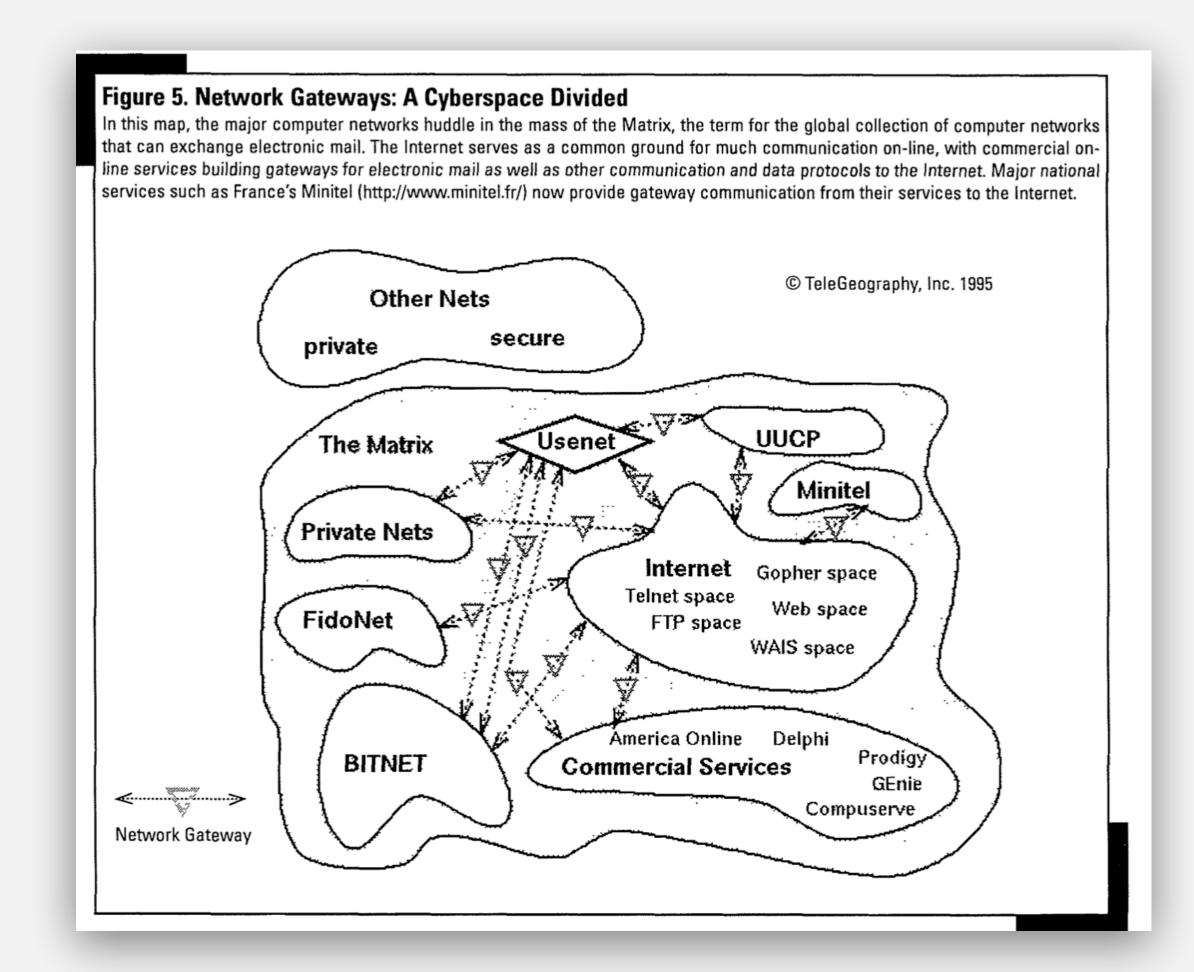
#### Posit: all AI questions have one of two answers

Will this just be like everything else? No-one really knows



#### But no-one ever knows

What did we know about the future of the internet?

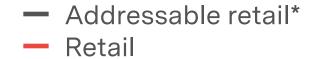


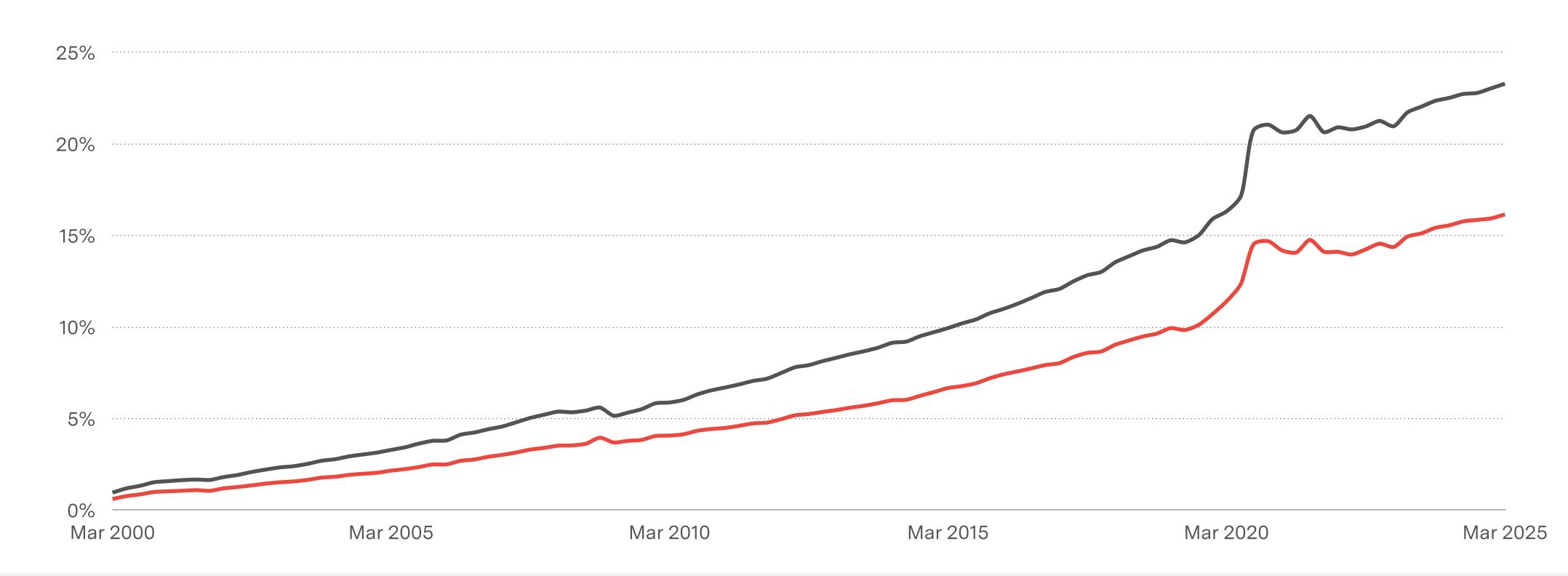
Source: TeleGeography

#### Meanwhile, all the old stuff is still there

The most boring chart in tech, with a brief exception - but this is trillions of dollars of global value

#### E-commerce as % US retail sales



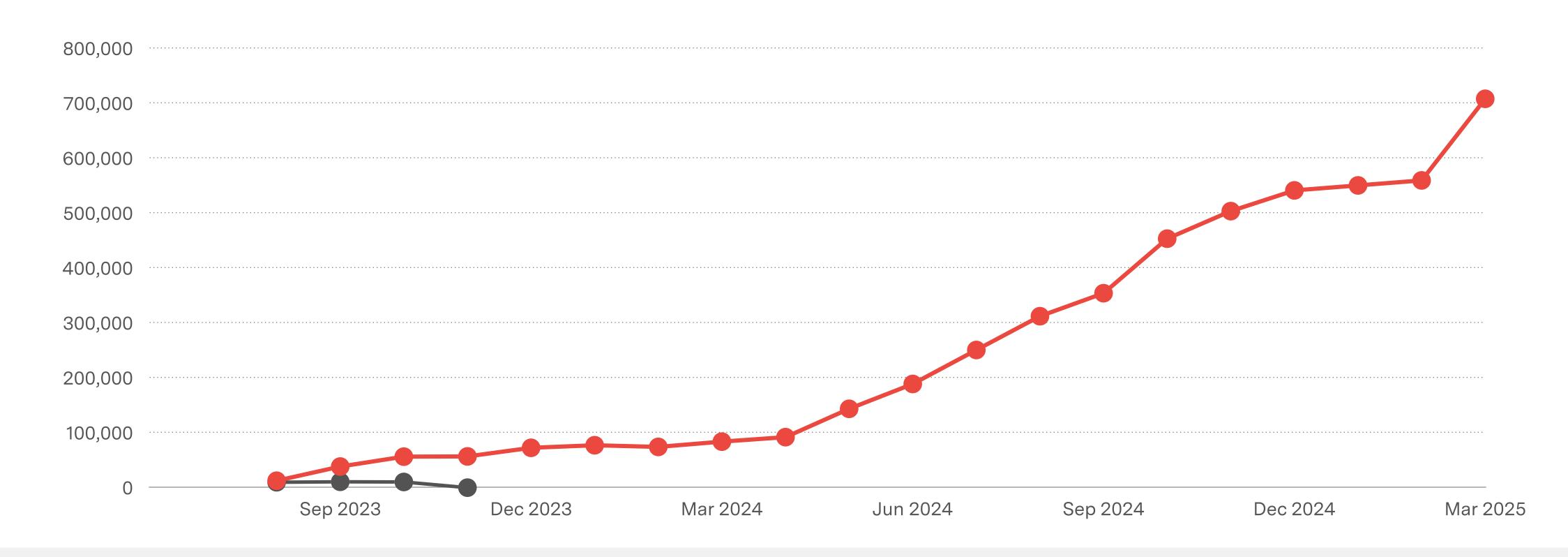


#### And all the other new stuff

After a decade of promises and tens of billions of dollars, AVs might be starting to work

#### Monthly 'robotaxi' trips in California





#### From dreams to deployment

What's already big, what's being built, and what comes next?



# About

What matters in tech? What's going on, what might it mean, and what will happen next?

I've spent 25 years analysing mobile, media and technology, and worked in equity research, strategy, consulting and venture capital. I'm now an independent analyst, and I speak and consult on strategy and technology for companies around the world. Mostly, that means working out the right questions.

For more, see www.ben-evans.com

# Thank you

**Benedict Evans** 

May 2025

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