

AI eats the world

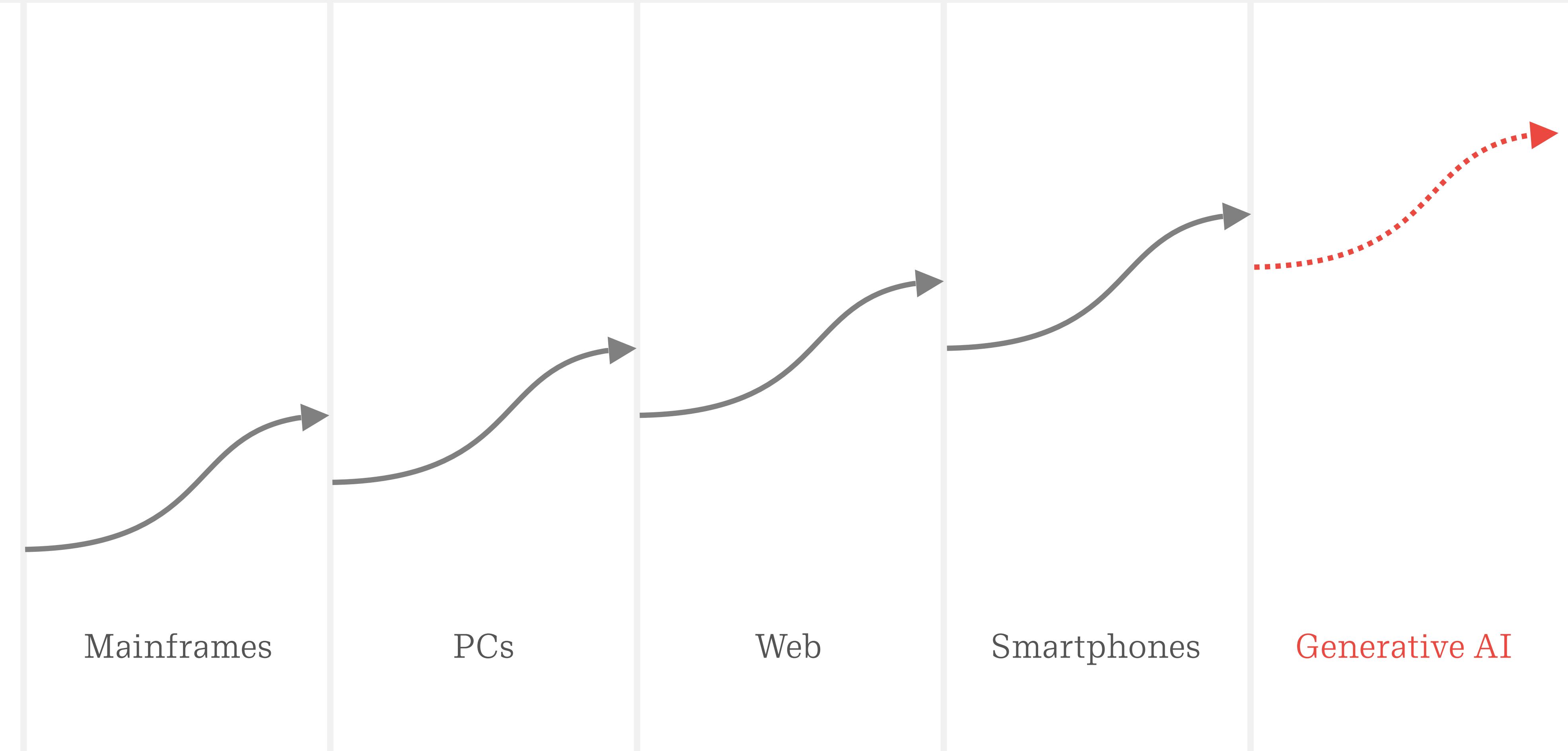
Benedict Evans

November 2025

www.ben-evans.com

The next platform shift

Every 10-15 years, a platform shift reshapes technology



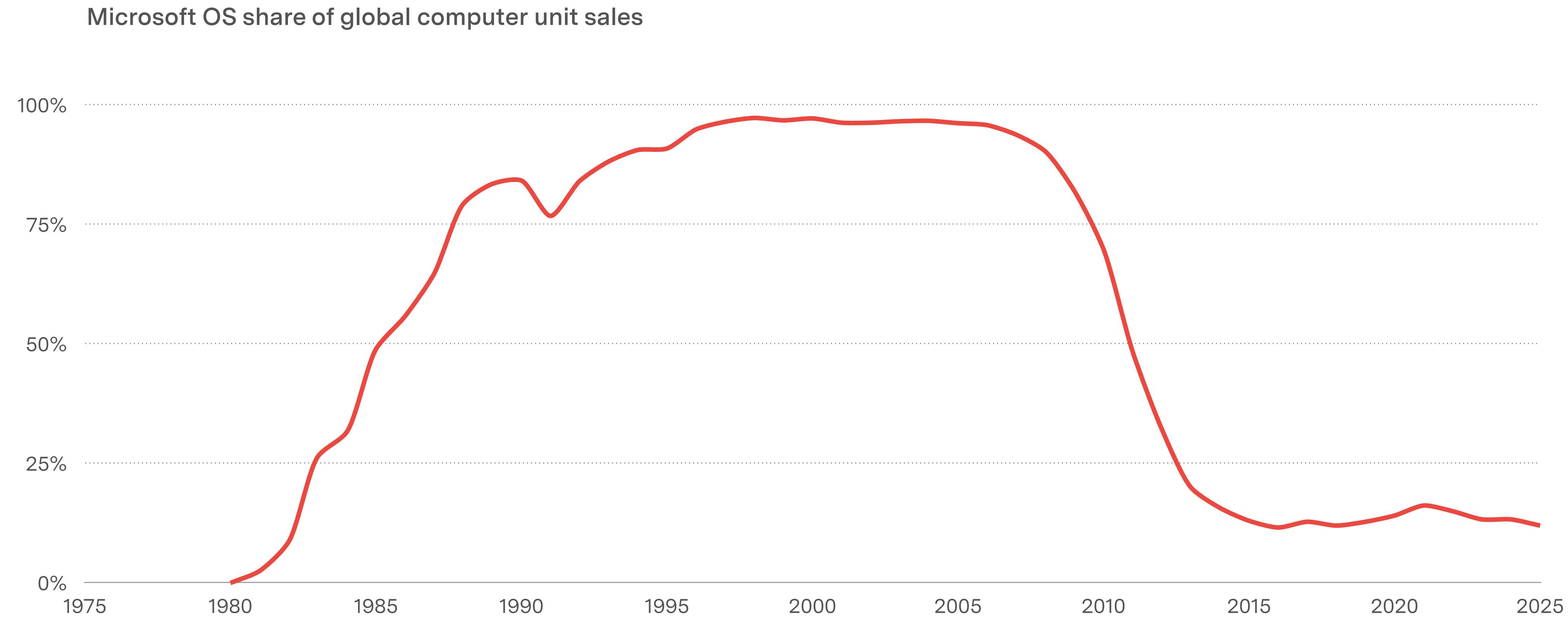
What happens in a platform shift?

Who is affected, and how much?



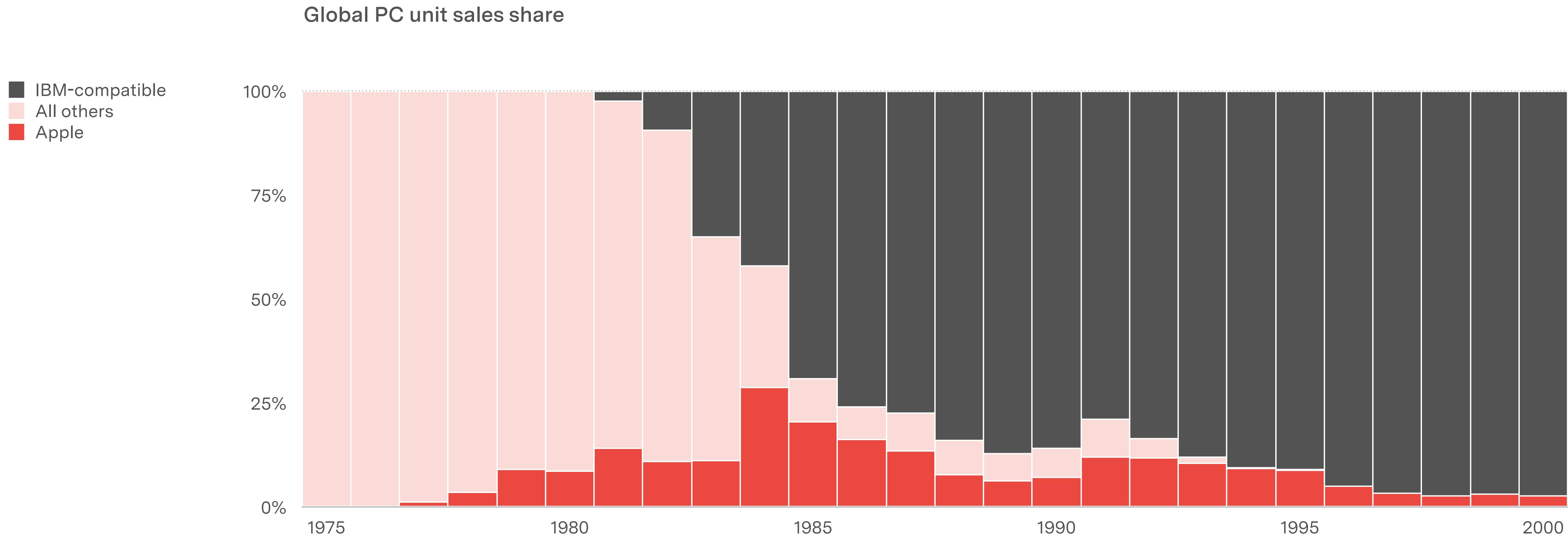
Dominance is won and lost

Microsoft dominated the PC era, but when the centre of gravity shifted to smartphones it became irrelevant



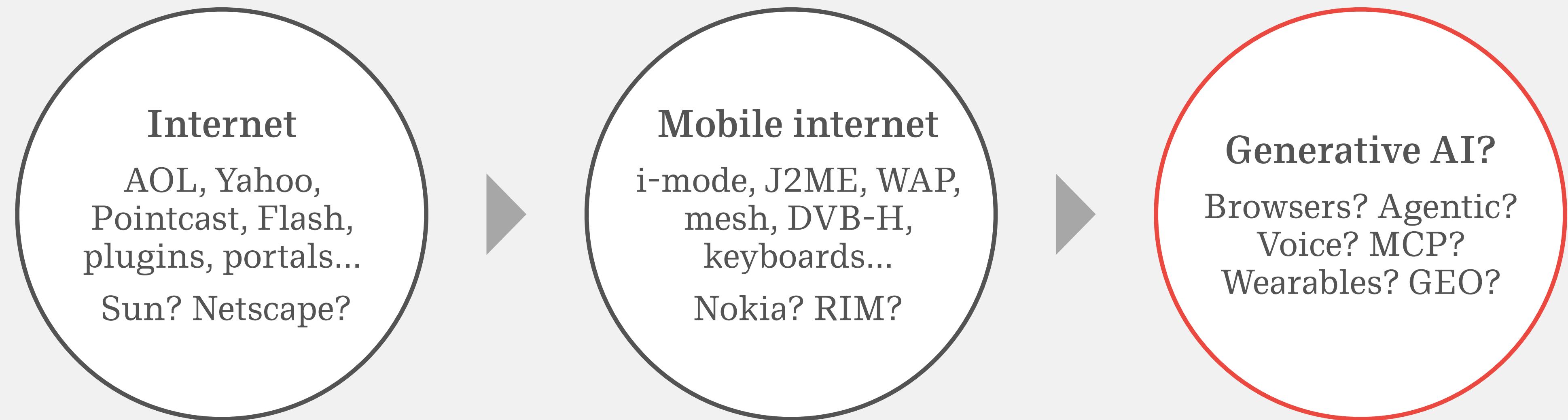
Early leaders often disappear

The 'first' was not the winner in PCs, browsers, search, social or smartphones



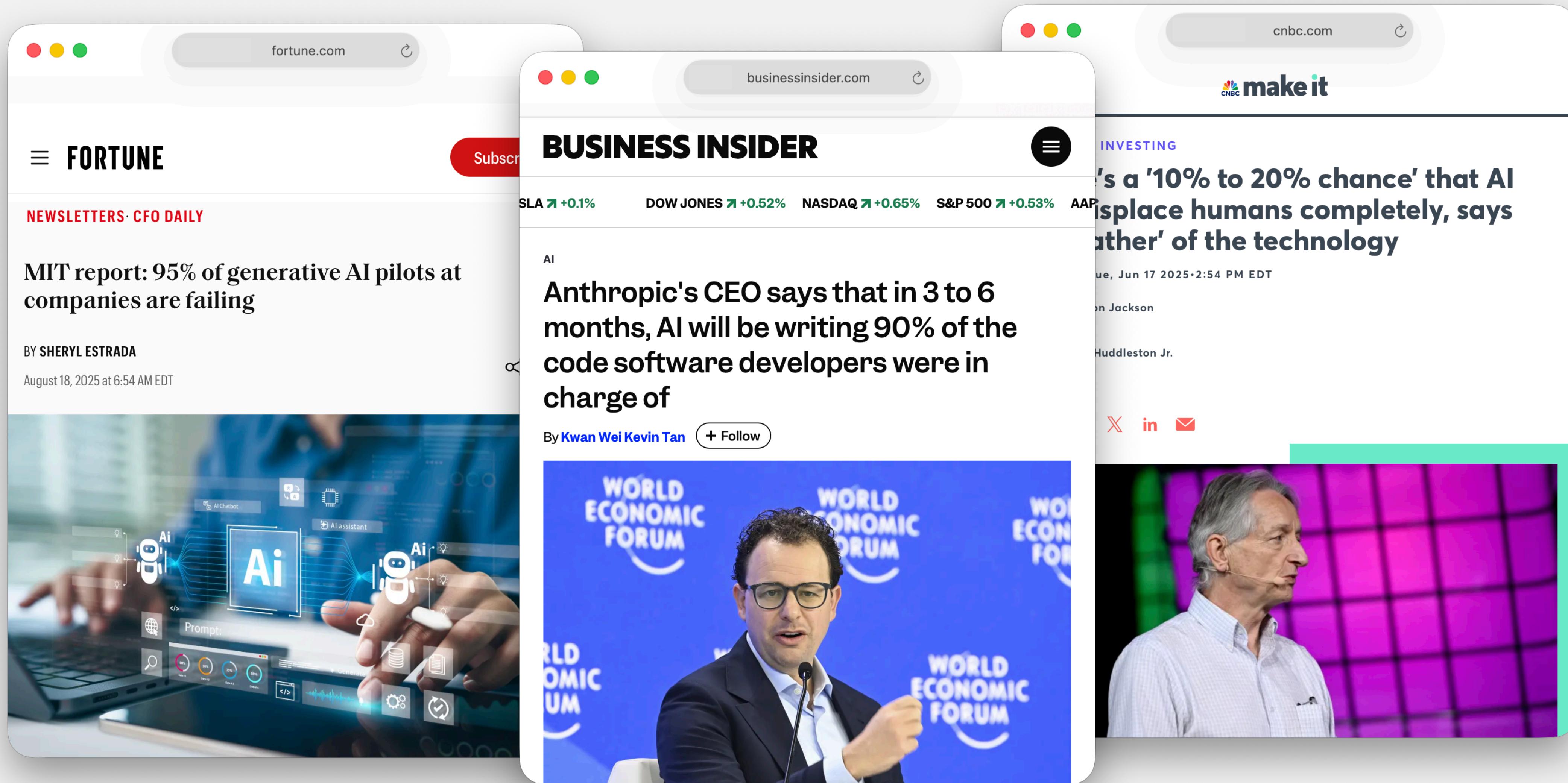
How will the new thing work? We don't know

For every new platform, we forget how many ideas failed and how unclear everything was



Noise, hype, anti-hype

When things are exciting, people get excited



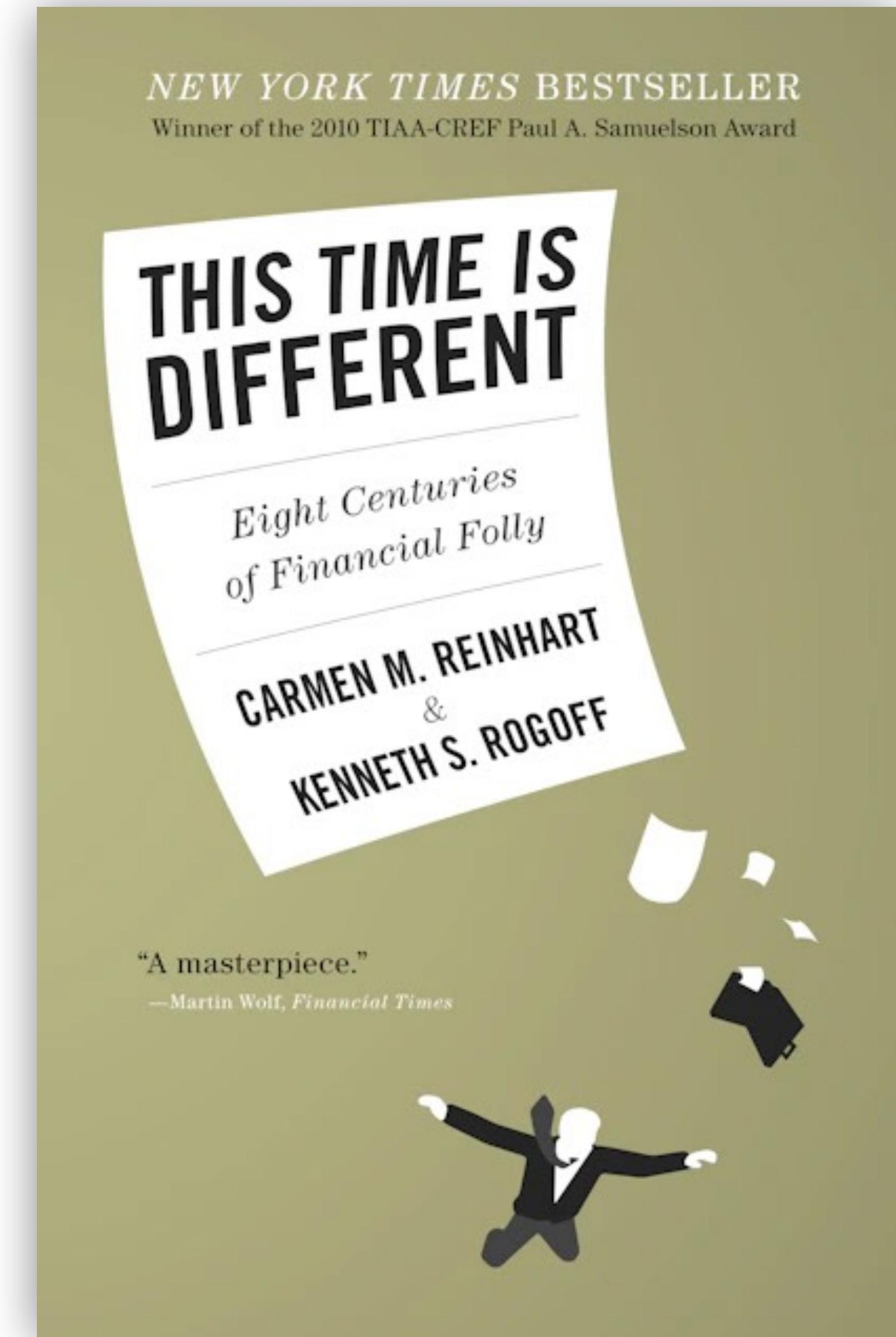
This often brings bubbles

People draw straight lines on log scale charts

They forget that exponential growth is generally an exponential curve

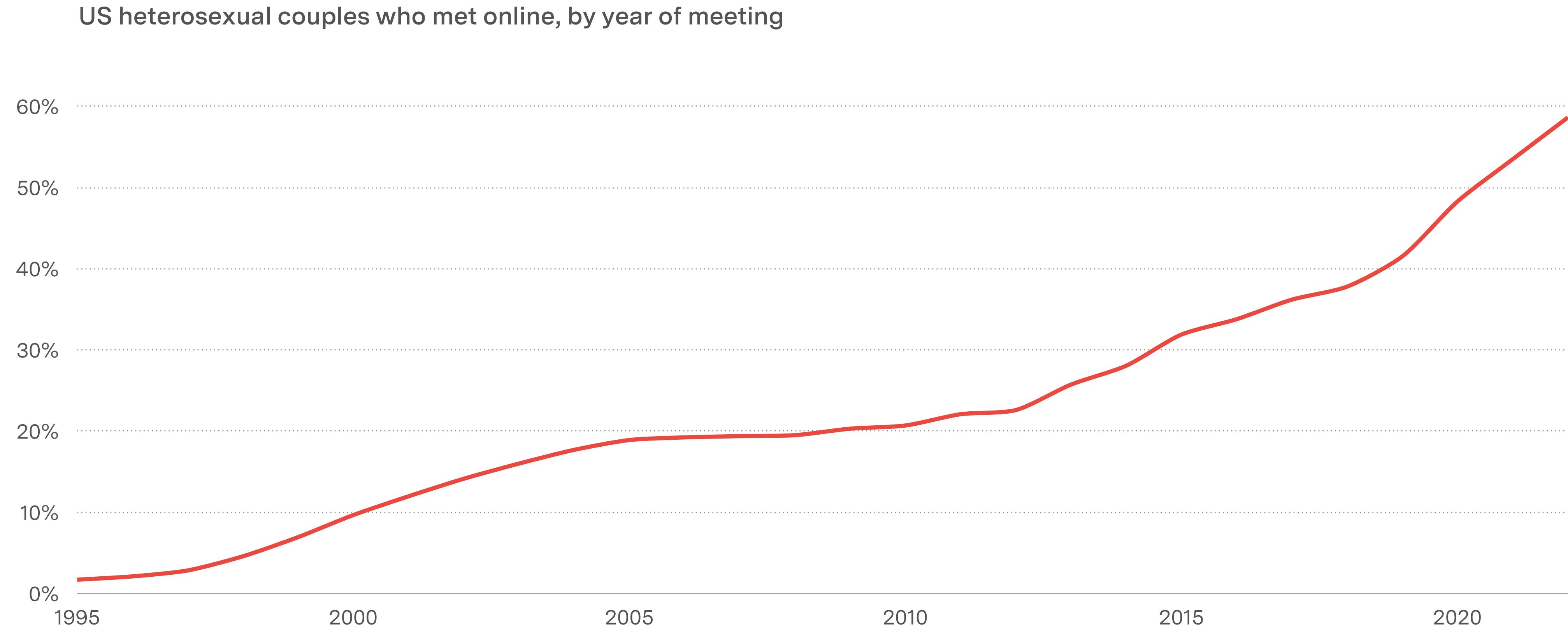
And always say “this is different”

The trouble is, they’re generally *right* - every bubble is different! But it can still be a bubble



But when the dust settles, the world has changed

The internet has gone from the New Thing to a basic part of daily life



New platforms mean new tools (and new revenue)

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



One way this platform shift *is* different, though

For PCs, the web or smartphones, we knew the physical limits of what could happen next year

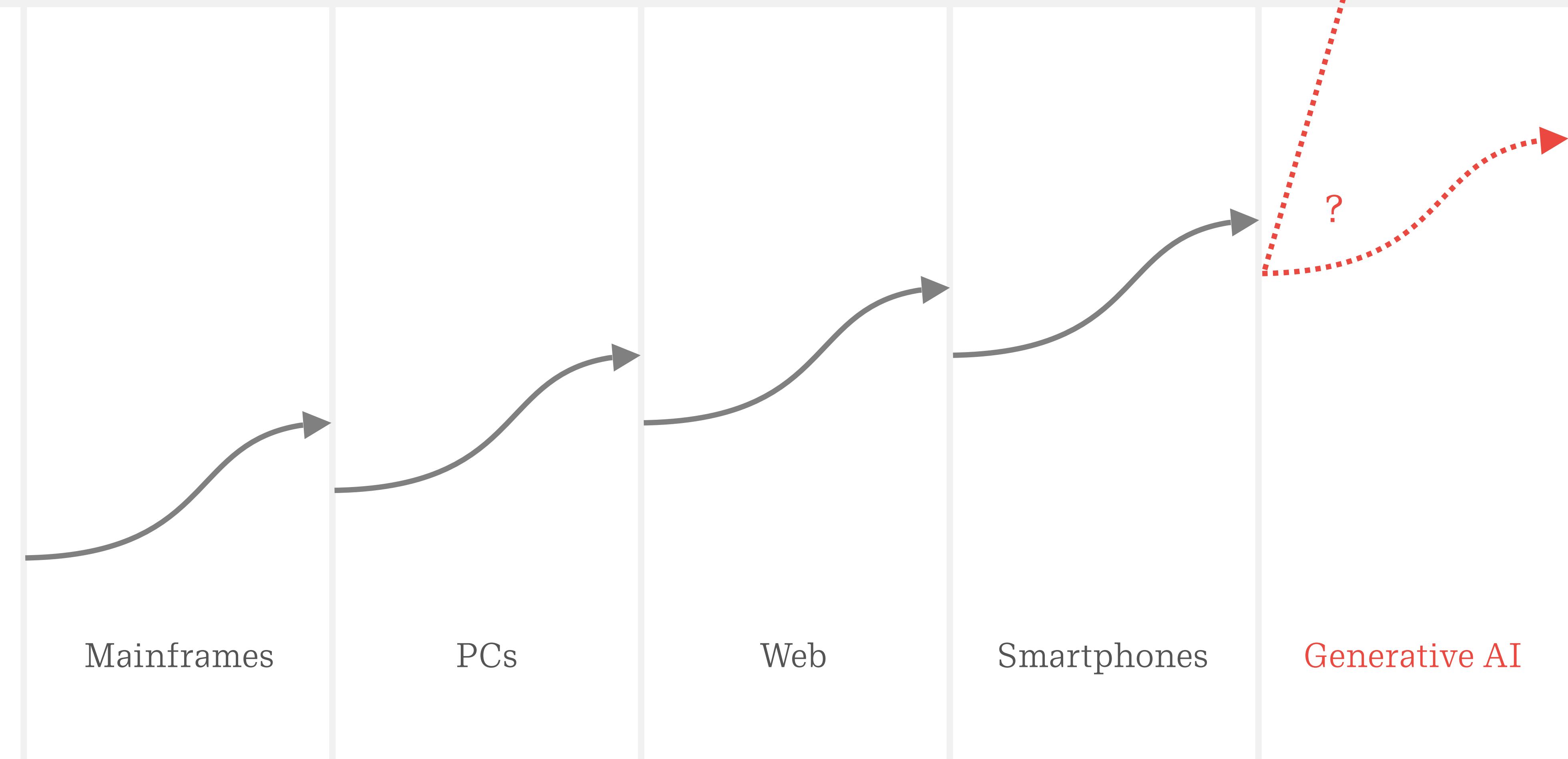
With LLMs, we don't know how much better this could get

“The race to AGI is afoot”
Sergey Brin

“AGI needs multiple further breakthroughs”
Demis Hassabis

Another platform shift, or more?

We know this will get better, but we don't know how much



So how will the new thing turn out?

If this is 'only' as big as mobile or the internet, that seems like enough



How will this work?

How will this be useful?

Where is the distribution, value capture, and value destruction?

Inside tech

“The risk of under-investing
is significantly greater than
the risk of over-investing”

Sundar Pichai, Q2 2024

“The very worst case would
be that we have just pre-
built for a couple of years”

Mark Zuckerberg, Q3 2025

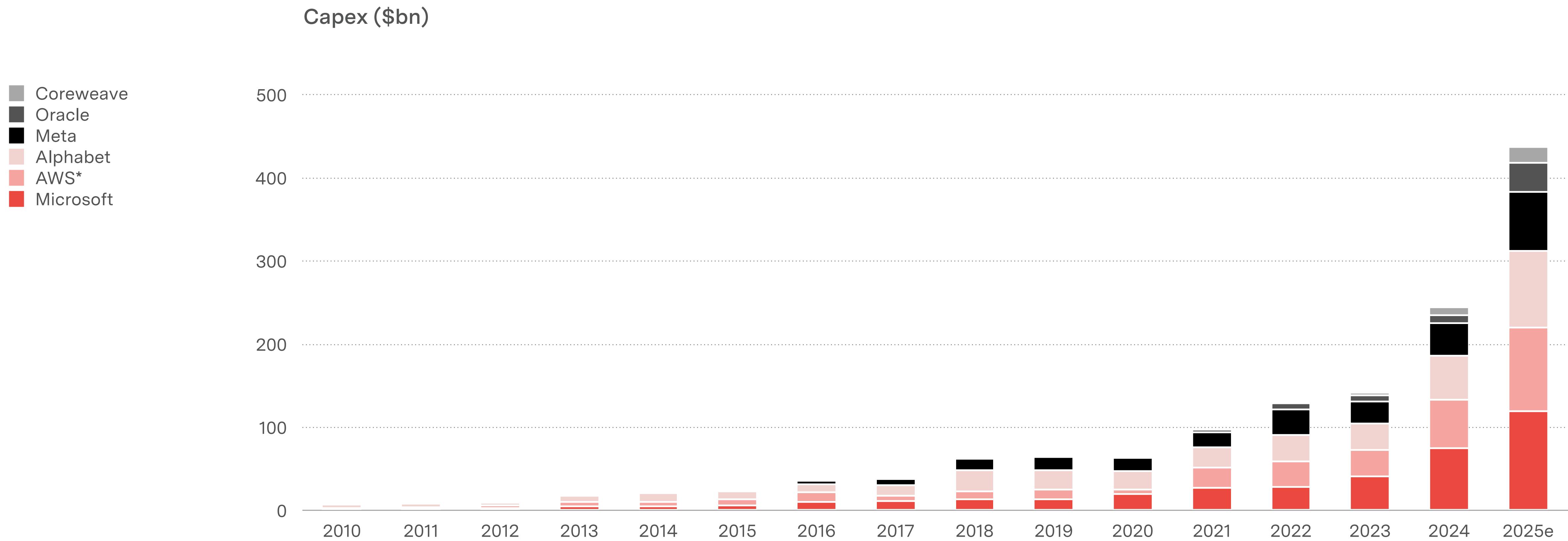
Three years of FOMO in Big Tech

“This is a huge new market, a huge threat to all our existing businesses, and we can’t miss it”



FOMO drives a capex surge

~\$400bn in 2025 for the big four alone (for comparison, global telecoms is ~\$300bn)

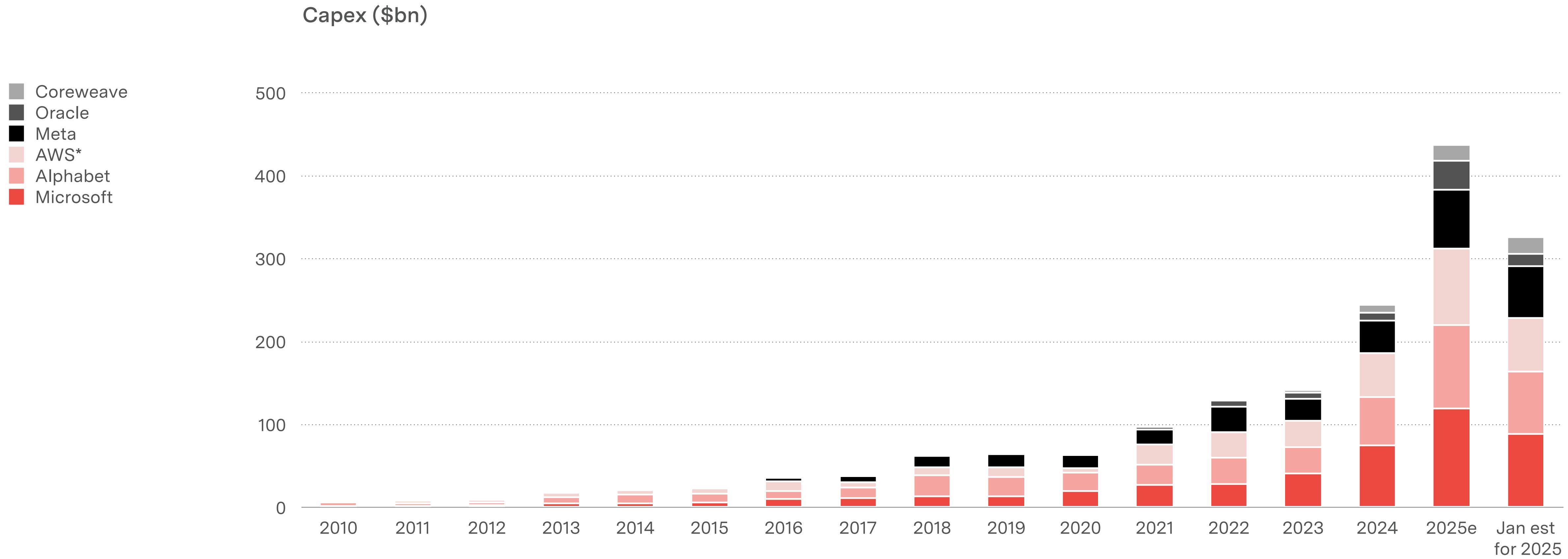


Source: Companies, company guidance. Includes capital leases
* Amazon does not break out AWS capex directly

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Planned 2025 growth almost doubled - in 2025

~\$350bn in 2025 for the big four alone (for comparison, global telecoms is ~\$300bn)

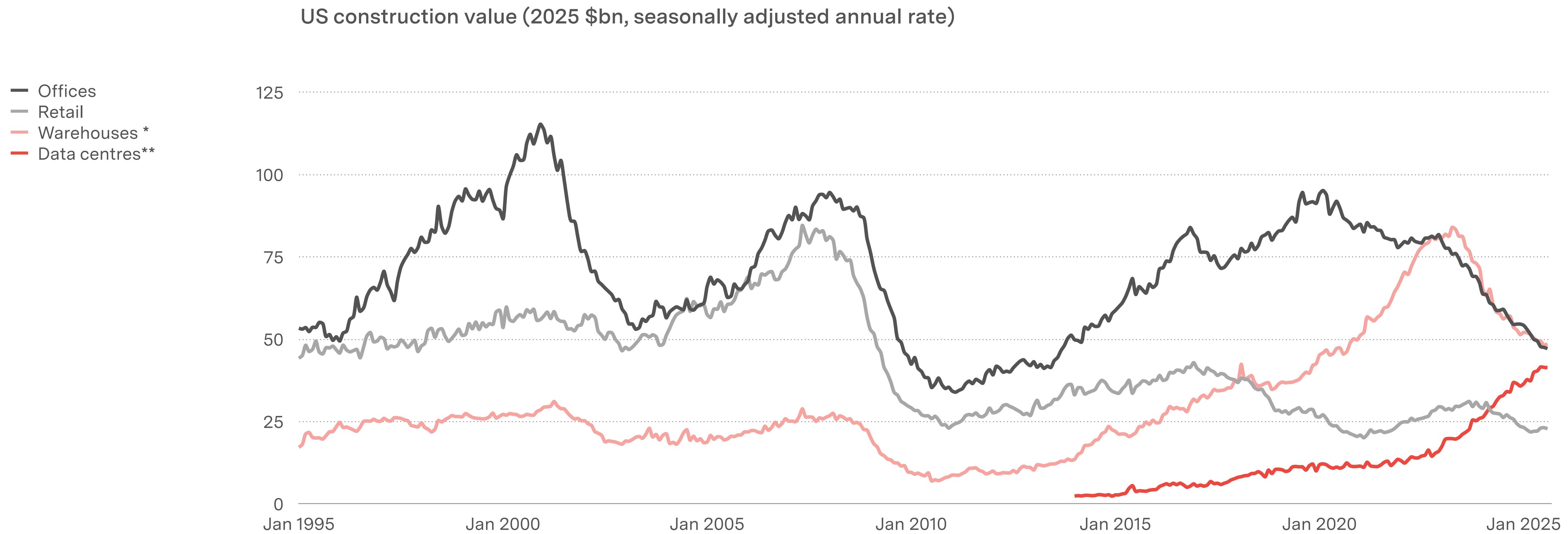


Source: Companies, company guidance. Includes capital leases
* Amazon does not break out AWS capex but reports it as 'the majority'

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A new investment cycle

US data centre construction overtaking offices

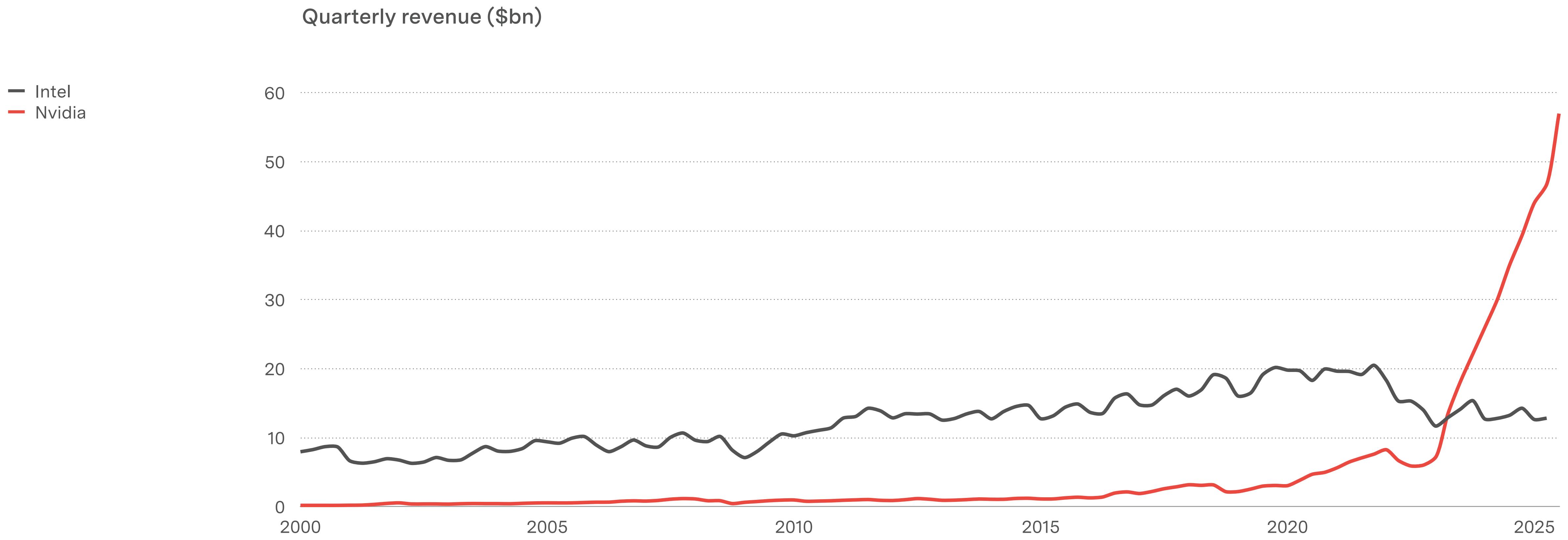


Source: US Census. * Excludes mini-storage ** Excludes compute
NB: data after July 2025 delayed by US government shutdown

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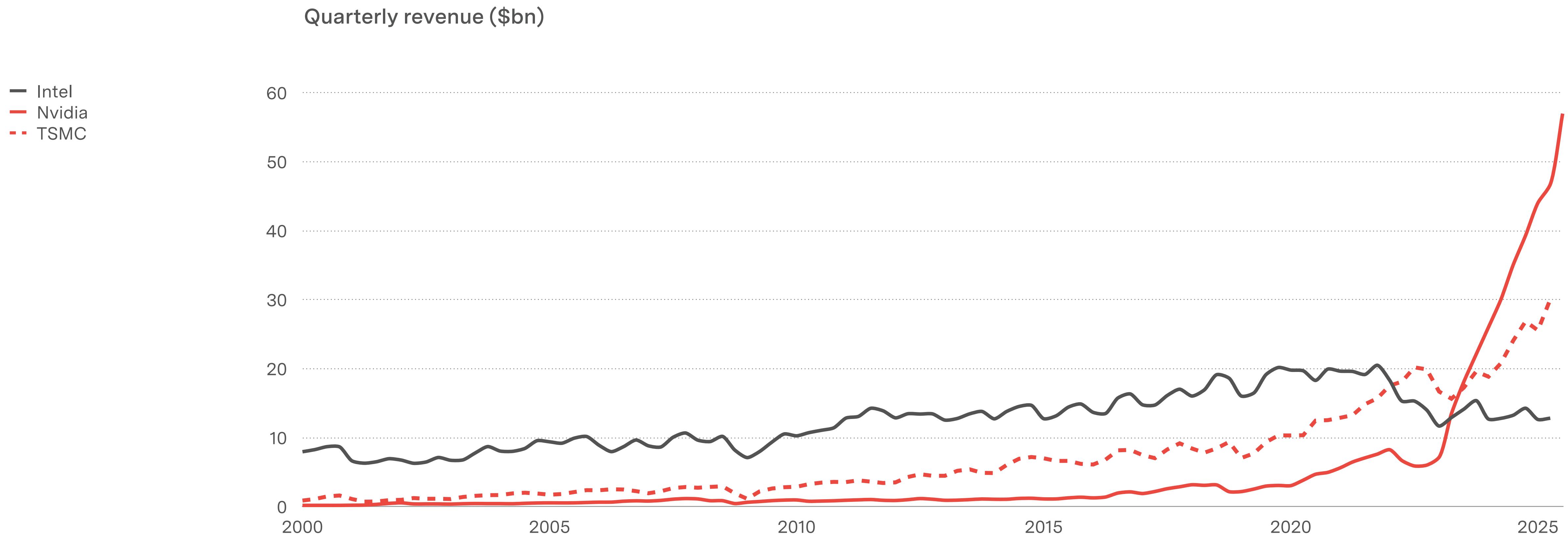
Nvidia can't keep up

Trying to build a new Sun Microsystems (though China and hyperscalers' own chips are coming up behind)



Nvidia can't keep up (neither can TSMC)

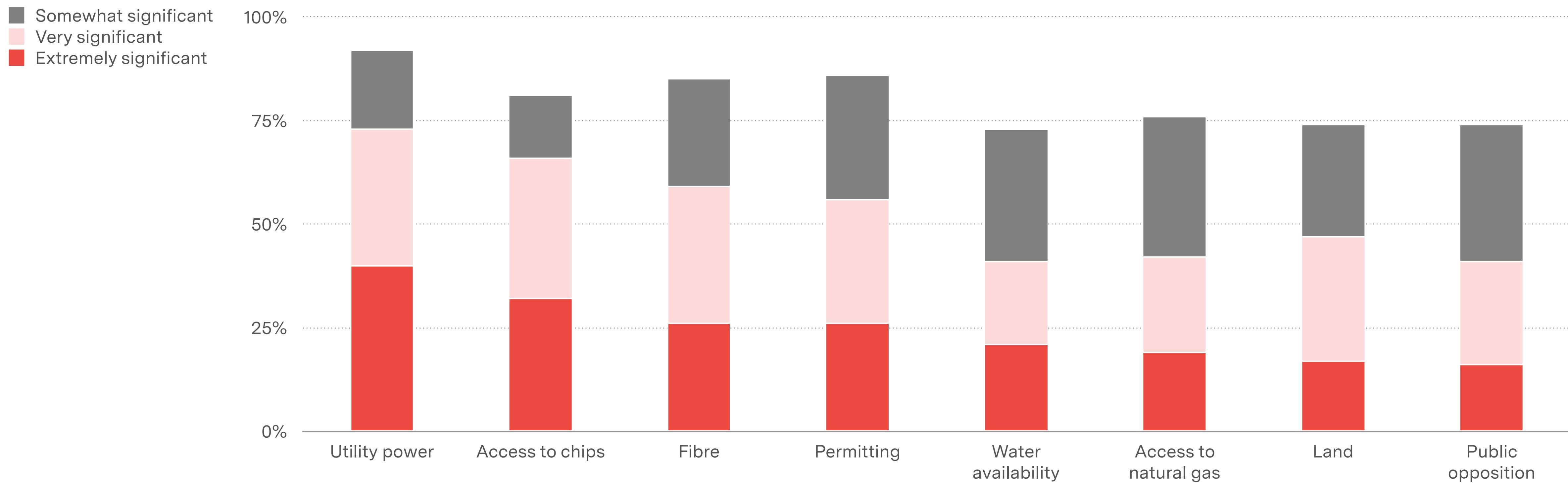
TSMC unwilling/unable to expand capacity fast enough to meet Nvidia's book



US power backlogs becoming a major issue

US power demand growth is ~2%, and AI might add 1% that's hard to build fast (this is not an issue in China)

Main constraints to data centre construction, USA (February 2025)



“It’s been almost impossible to build capacity fast enough since ChatGPT launched”

Kevin Scott, Microsoft CTO

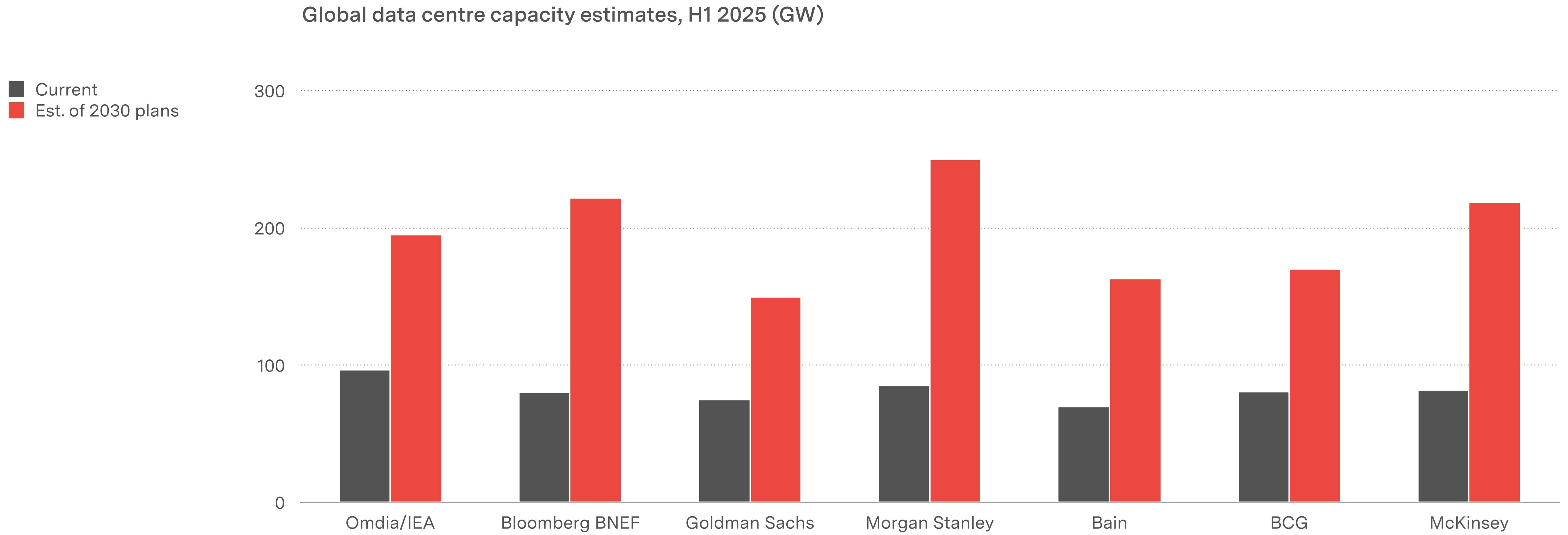
“We now expect the FY26 growth rate to be higher than FY25” - Microsoft

“Capex dollar growth will be notably larger in 2026” - Meta

“We expect a significant increase in 2026” - Alphabet

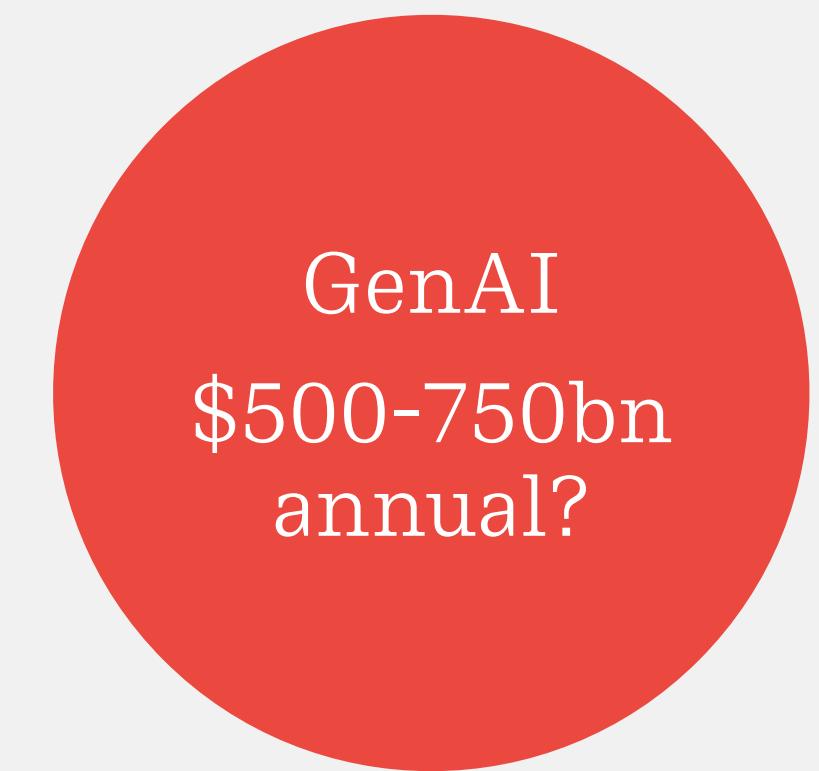
Data centre capacity triples? For \$3tr? \$5tr? More?

Some very large numbers (although some of the 'bragawatts' may be more performative than real)



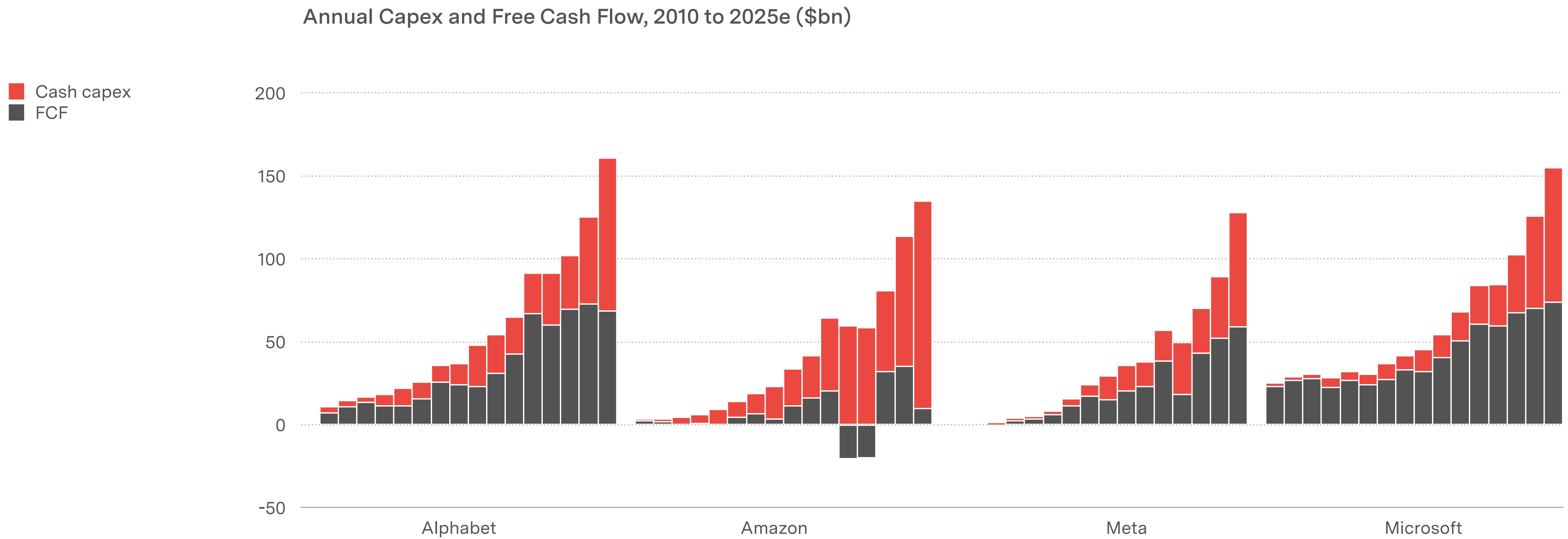
“Three trillion dollars!”

Annualised AI capex aspirations are a similar magnitude to mature global capital-intensive industries



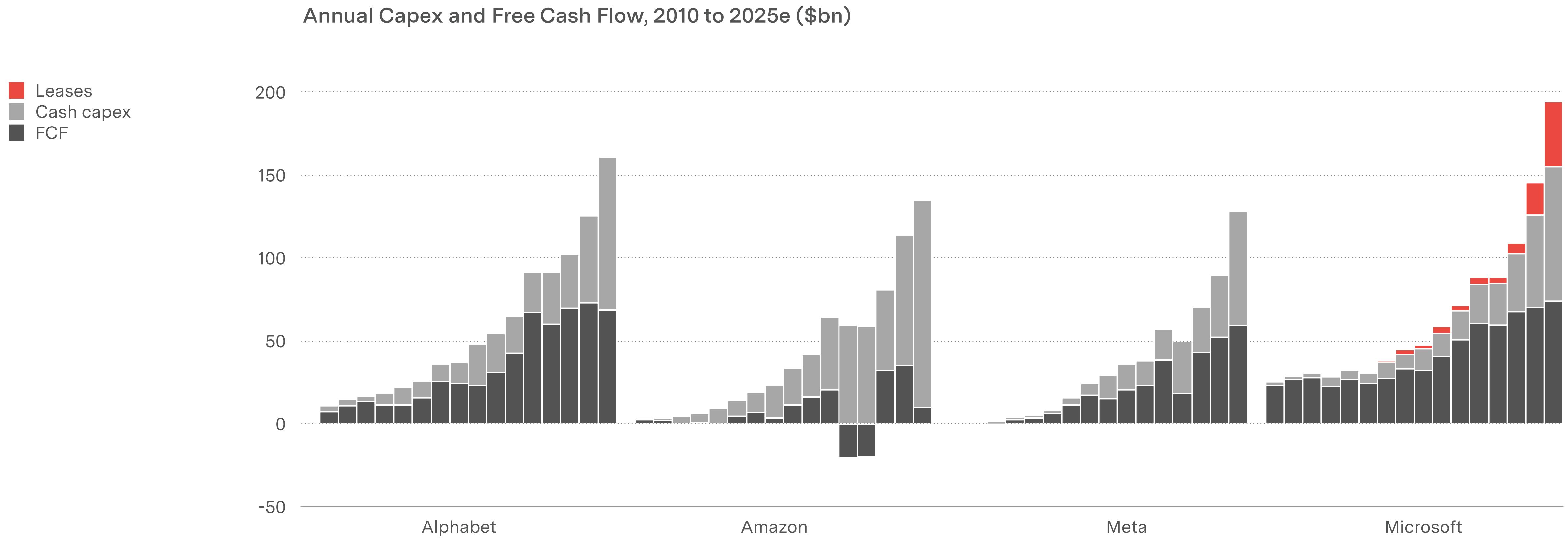
The hyperscalers can afford it...

Big Tech cashflow has surged since the Pandemic, and most of that growth is going on AI capex



The hyperscalers can afford it... up to a point

Capital leases are not new, but they've got a lot bigger

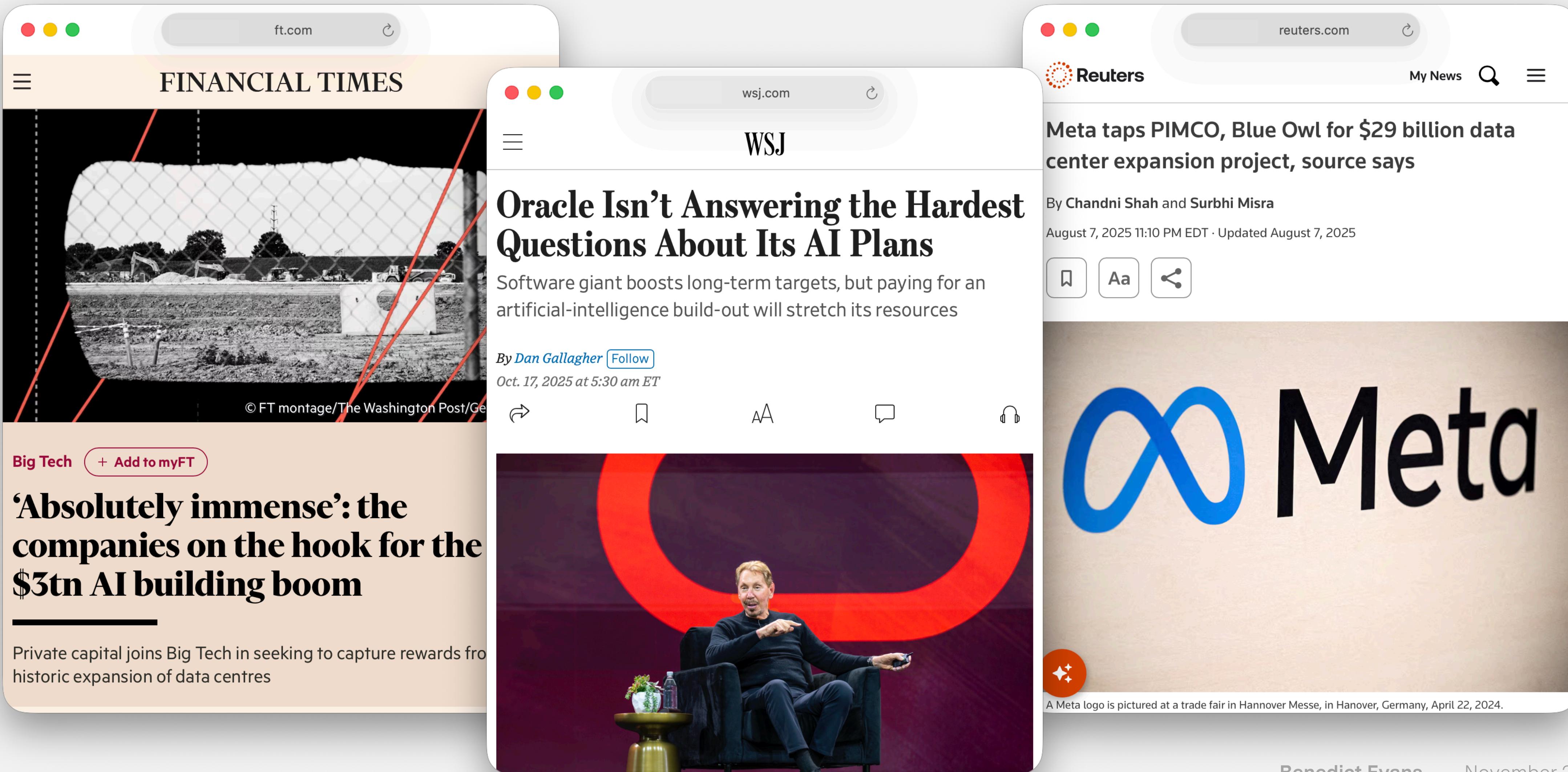


Source: Companies, consensus estimates. Calendar year.

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Up to a point

Hyperscalers add leases and debt, while some analysts suggest Oracle's cloud capex might be >100% of revenue



The image displays three overlapping news browser windows from ft.com, wsj.com, and reuters.com, illustrating the financial and operational challenges faced by tech hyperscalers.

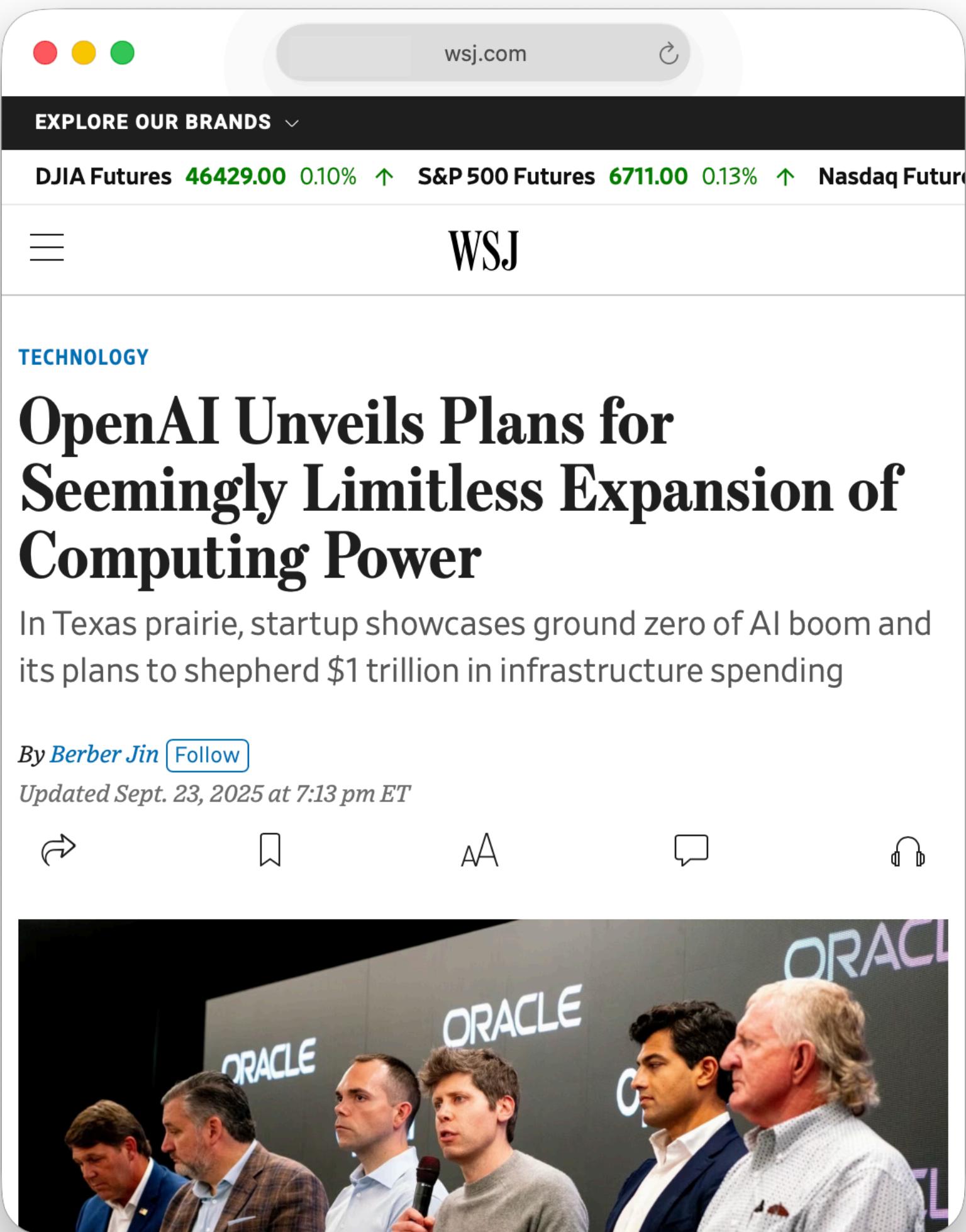
- Financial Times (ft.com):** Headline: '‘Absolutely immense’: the companies on the hook for the \$3tn AI building boom'. Subtext: 'Private capital joins Big Tech in seeking to capture rewards from historic expansion of data centres'. A large image shows a construction site behind a chain-link fence.
- Wall Street Journal (wsj.com):** Headline: 'Oracle Isn’t Answering the Hardest Questions About Its AI Plans'. Subtext: 'Software giant boosts long-term targets, but paying for an artificial-intelligence build-out will stretch its resources'. By Dan Gallagher. A photo of Oracle CEO Larry Ellison speaking on stage.
- Reuters (reuters.com):** Headline: 'Meta taps PIMCO, Blue Owl for \$29 billion data center expansion project, source says'. By Chandni Shah and Surbhi Misra. Subtext: 'August 7, 2025 11:10 PM EDT · Updated August 7, 2025'. A large image of the Meta logo.

OpenAI joins the club

Announced commitments for 30GW+ of capacity at \$1.4tr

Aspiration for 1GW/week of new construction at \$20bn/GW = ~\$1tr annually...

Equivalent to 2/3 of total current global base, every year



The screenshot shows a news article from wsj.com. The header includes the WSJ logo and a navigation bar with 'EXPLORE OUR BRANDS', 'DJIA Futures 46429.00 0.10% ↑ S&P 500 Futures 6711.00 0.13% ↑ Nasdaq Future', and a menu icon. The main content is titled 'TECHNOLOGY OpenAI Unveils Plans for Seemingly Limitless Expansion of Computing Power'. The subtext reads: 'In Texas prairie, startup showcases ground zero of AI boom and its plans to shepherd \$1 trillion in infrastructure spending'. Below the text are author information ('By Berber Jin Follow'), a timestamp ('Updated Sept. 23, 2025 at 7:13 pm ET'), and social sharing icons. A small image at the bottom shows several men, including one with a microphone, standing in front of an Oracle logo.

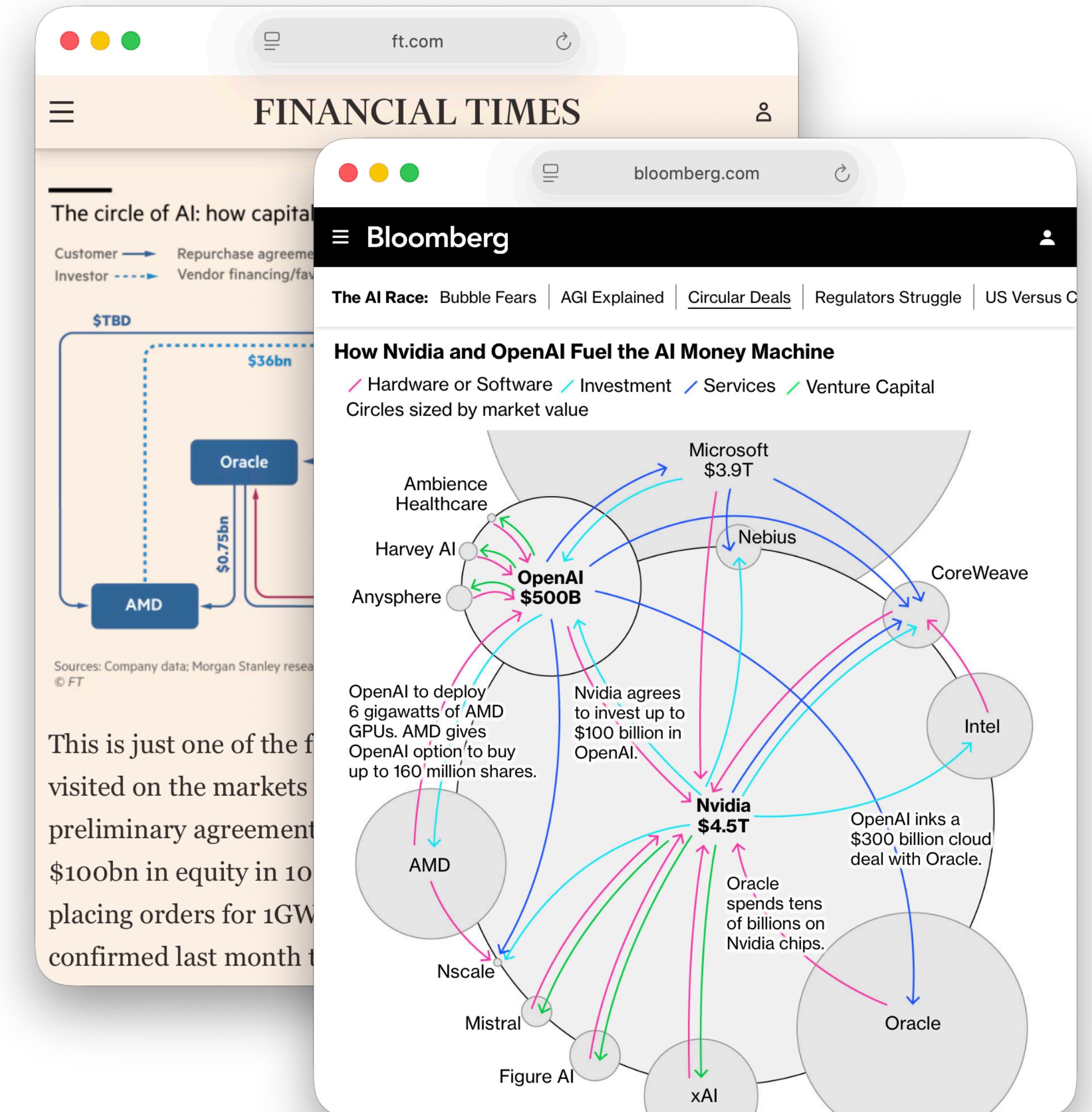
“Circular revenue”

Without its own cashflows, OpenAI partners with Nvidia, Oracle, Softbank, petrodollars...

OpenAI is buying Nvidia chips with Nvidia's cashflow...

Which comes from the hyperscalers...

and using Nvidia's cash to turn AMD into an Nvidia competitor, and pay Broadcom to make its own chips...



Rational actors?

What would you do if your company was sitting on a bubble?

Nvidia has \$72bn of TTM FCF* and TSMC can't keep up with demand



Use your excess cash to buy demand, FOMO and platform lock-in

OpenAI has mindshare and expensive stock, but no platform, infra or moat



Swap your paper for hard assets and market position

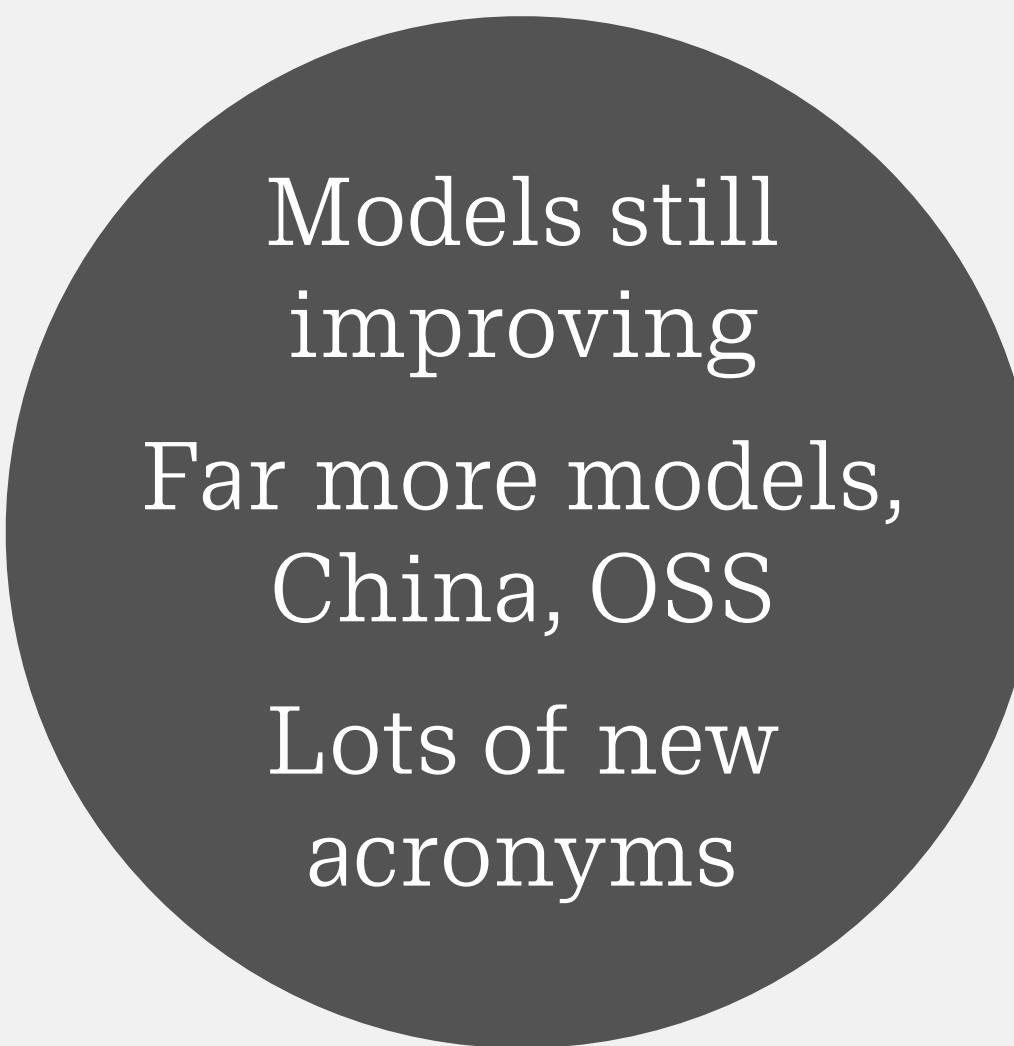
Oracle is a cash-generative legacy business losing share to cloud and now to AI



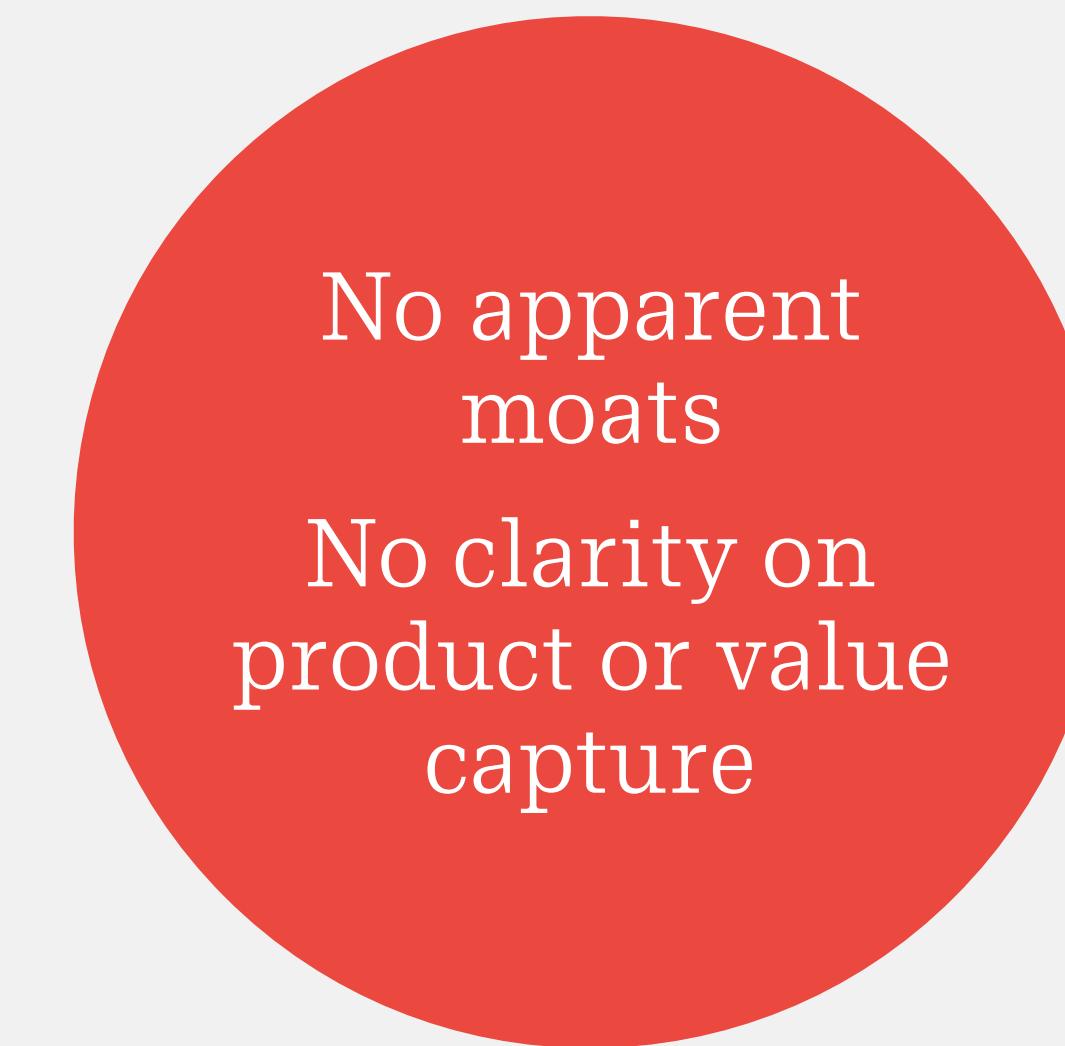
Gear up and burn your way into the new thing?

Yes, but where has all this money got us?

After three years, lots more science and engineering, but no real clarity on the shape of the market



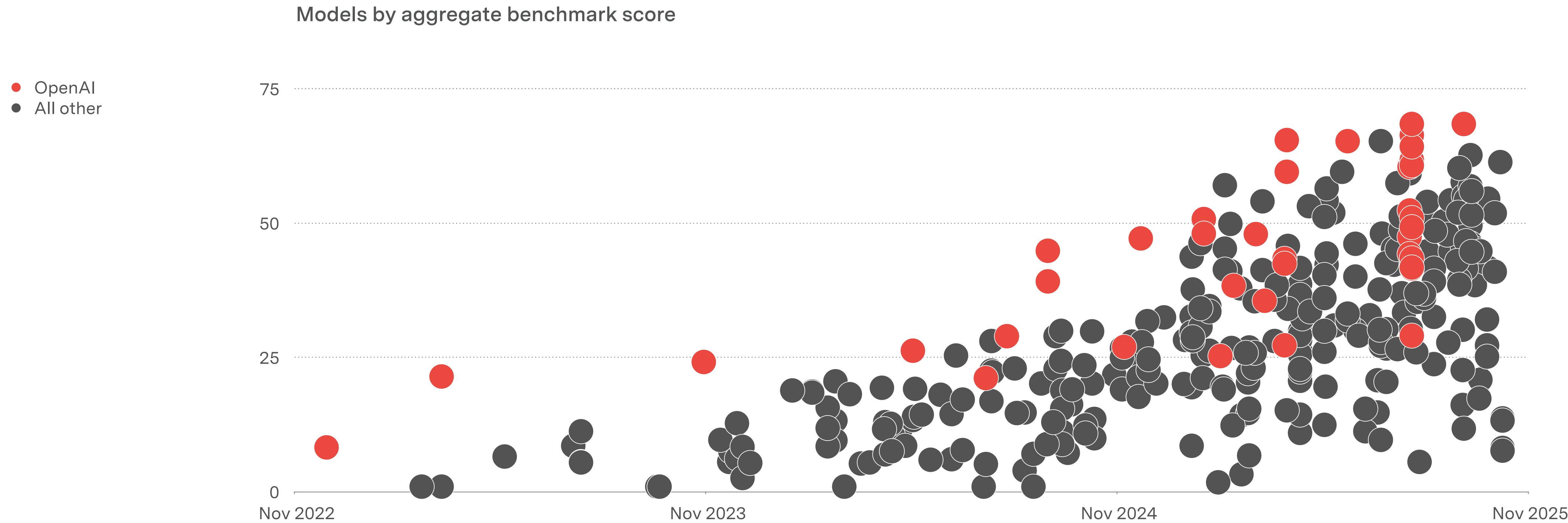
Models still improving
Far more models,
China, OSS
Lots of new acronyms



No apparent moats
No clarity on product or value capture

Far more models

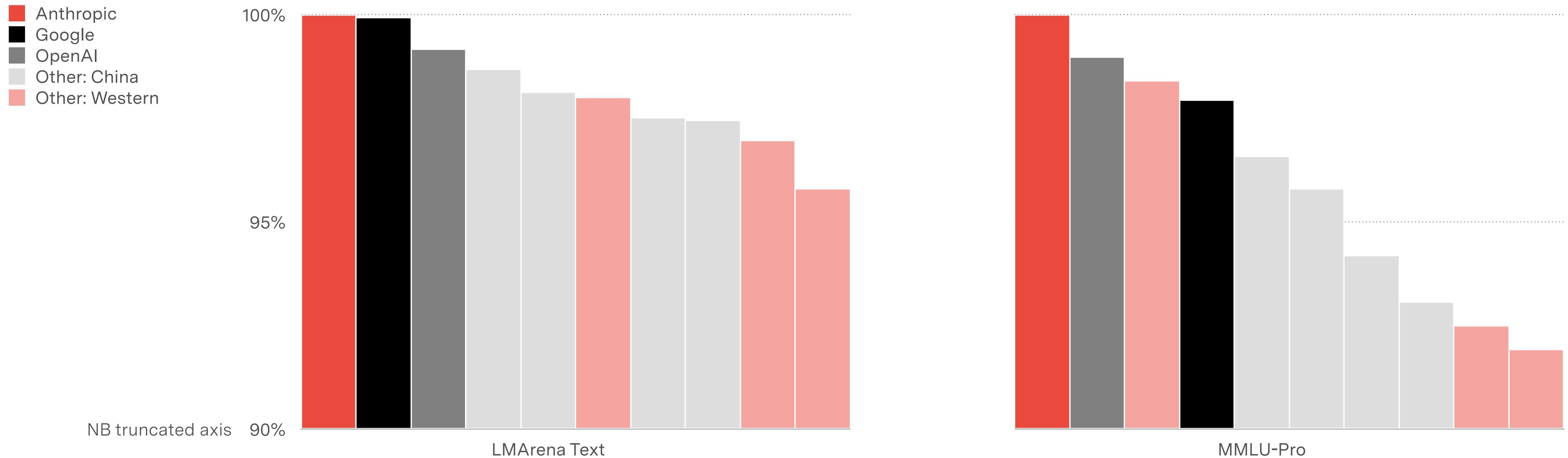
Every week - new models, new (problematic, gamed, saturated) benchmarks, new acronyms



Models converge and leaders change weekly

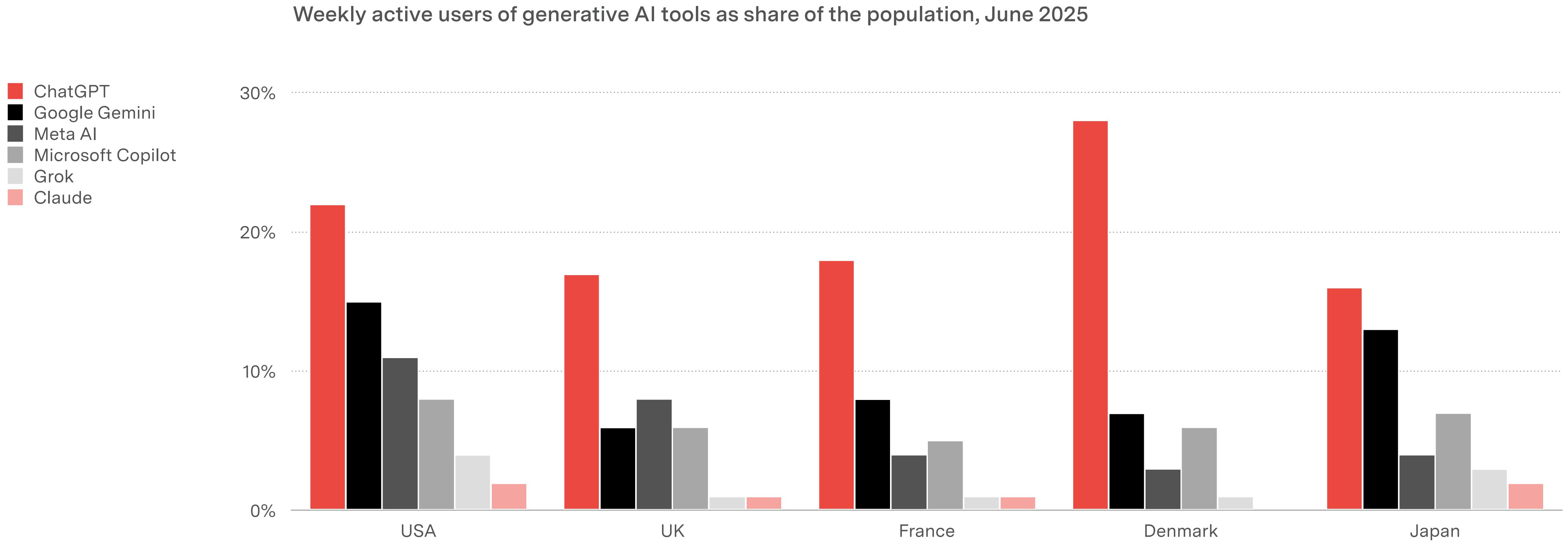
Dozens of (saturated) benchmarks to choose from, but on the most general, the leaders are very close

Best scoring model relative to leader, October 2025



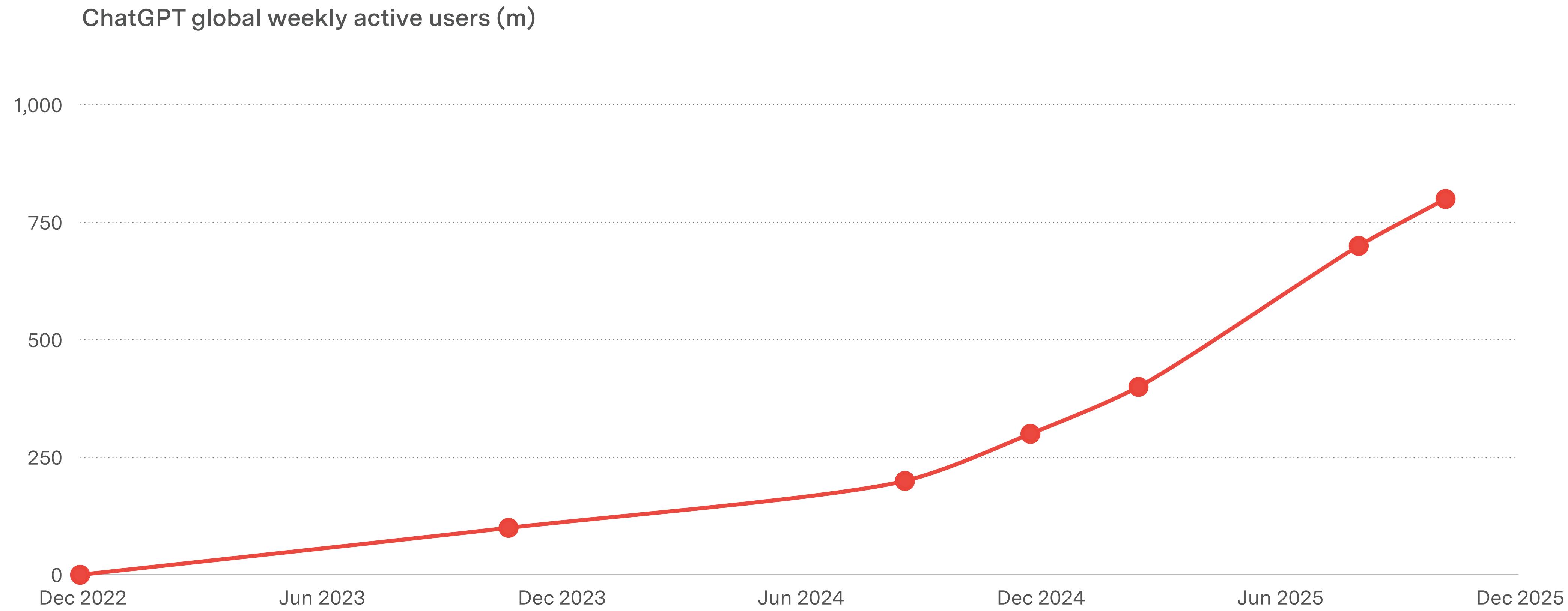
Tech versus brand versus distribution?

The models may be close to commodities (especially for general use), but market position is not, so far



“Everyone is already using this!”

800m weekly users, but apparently only 5% are paying - and why announce WAU and not DAU?



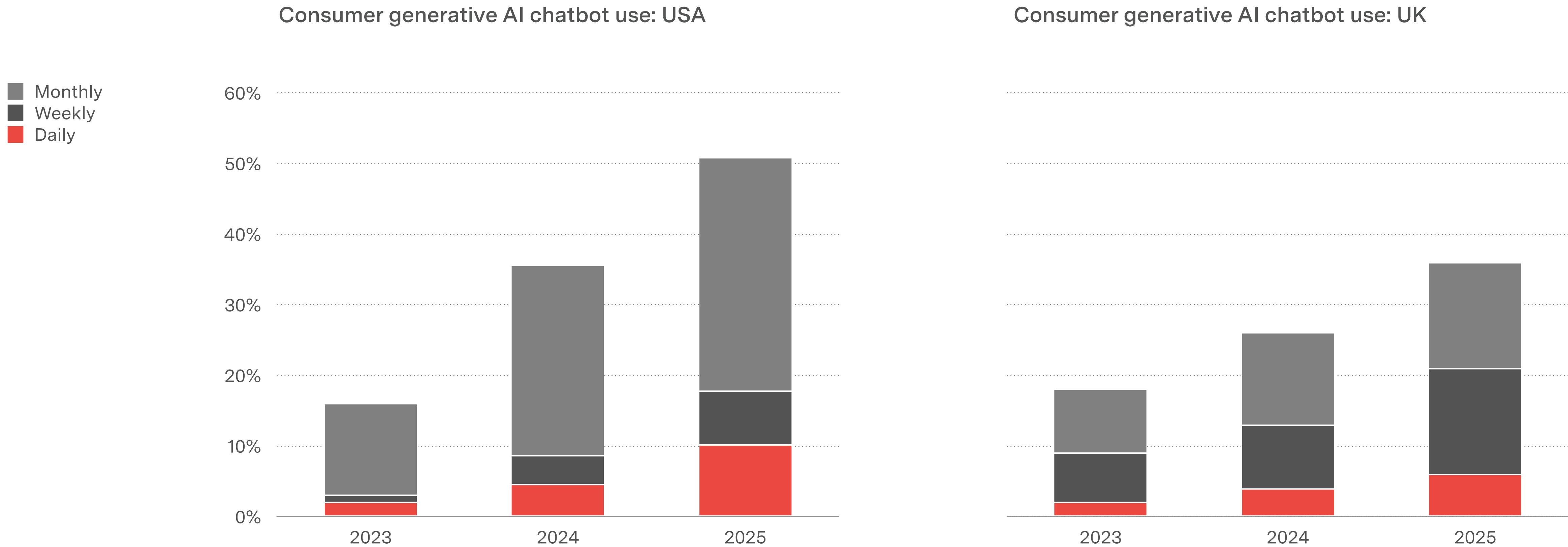
Source: OpenAI. NB: round numbers reported at scheduled events

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Still more experimentation than daily use

So far, many more people use chatbots occasionally than make them part of their daily lives



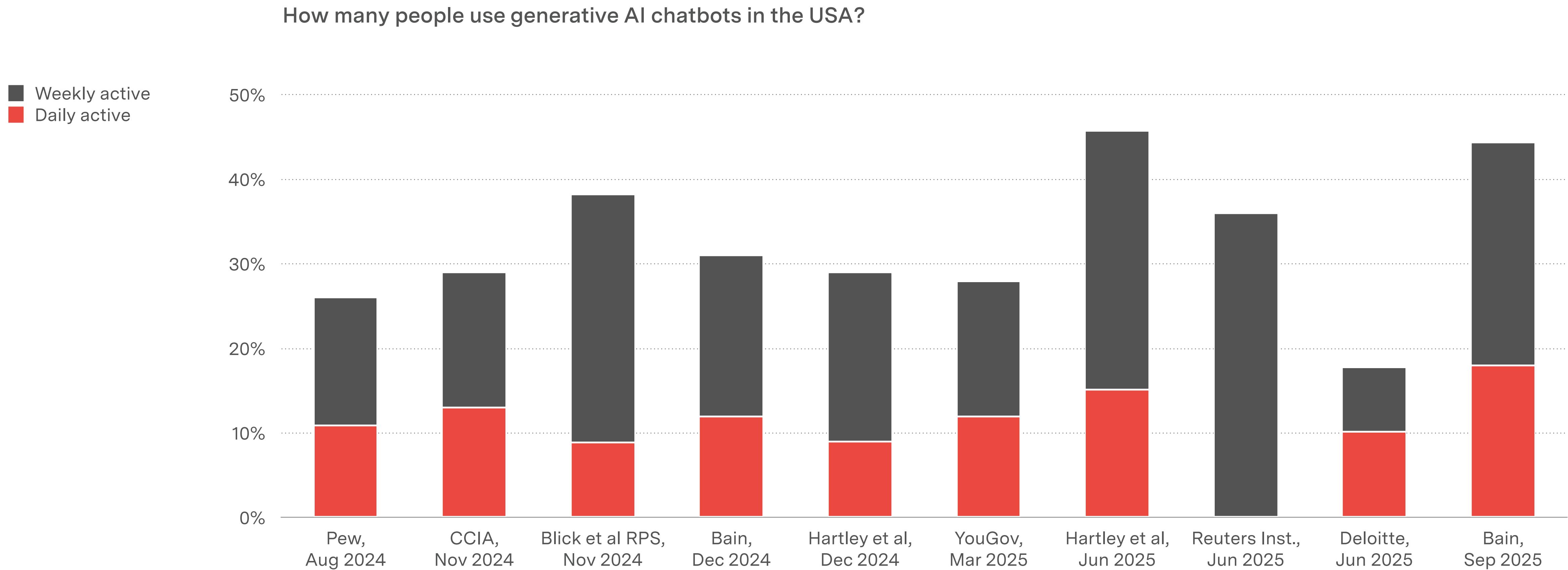
Source: Deloitte. Surveys conducted in June.

Defined as “Use of a purpose-built GenAI tool, like ChatGPT, Microsoft Copilot, Google Gemini, etc”

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Most data shows the same picture

Surveys are early, scattered and inconsistent, but an engagement gap seems clear

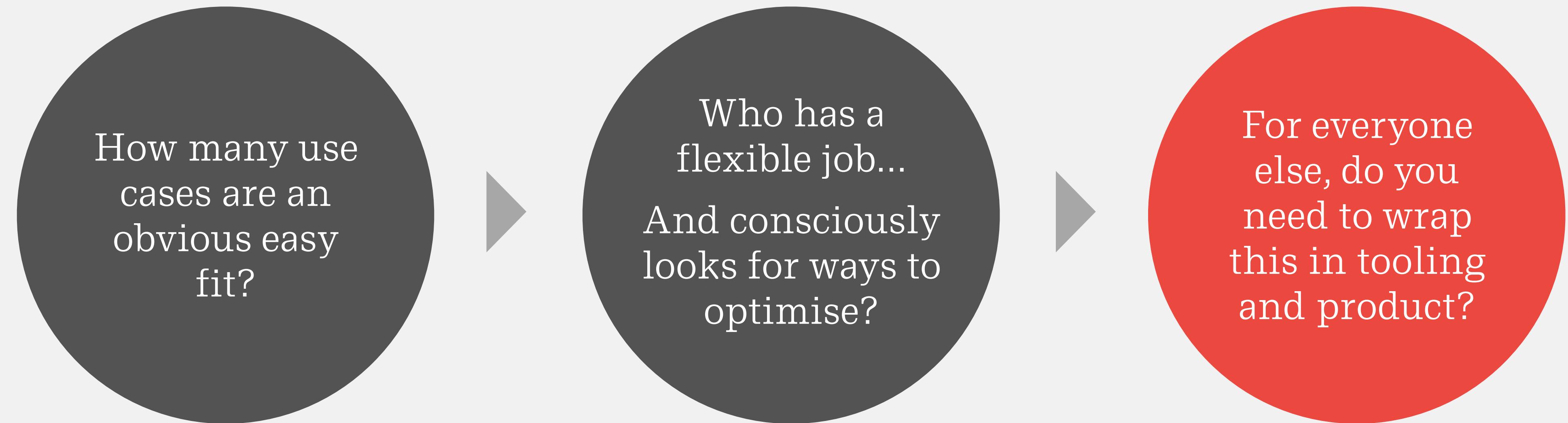


Source: Consumer surveys conducted as of date shown

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Is this just early? Or a harder problem?

Why do most users of ChatGPT only use it a little bit?



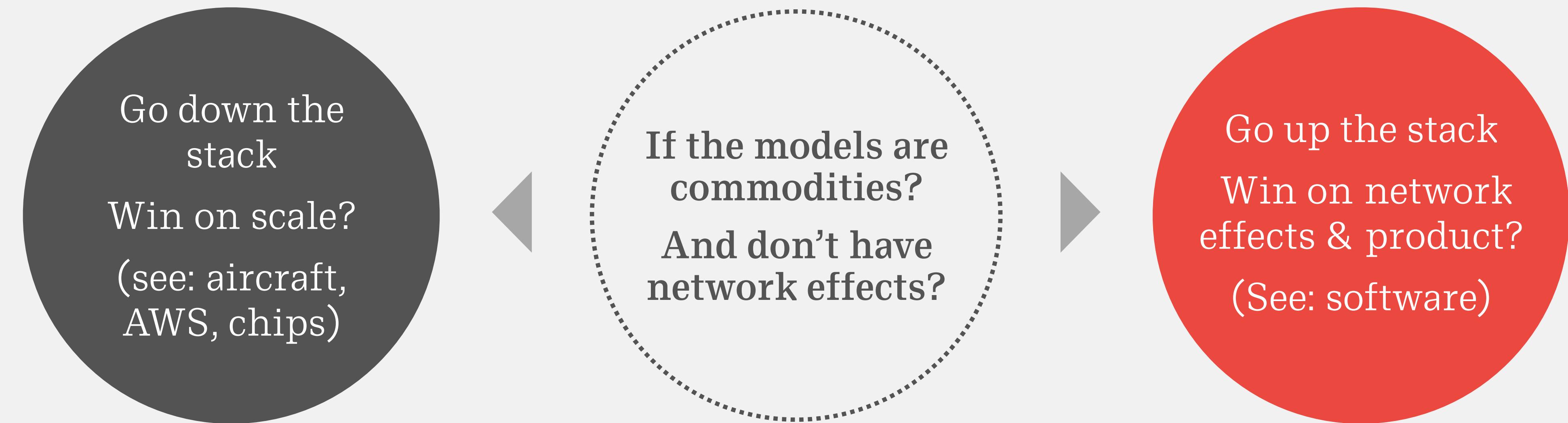
“People don’t know what they want until you show it to them”

“You’ve got to start with the experience and work backwards to the technology”

Steve Jobs

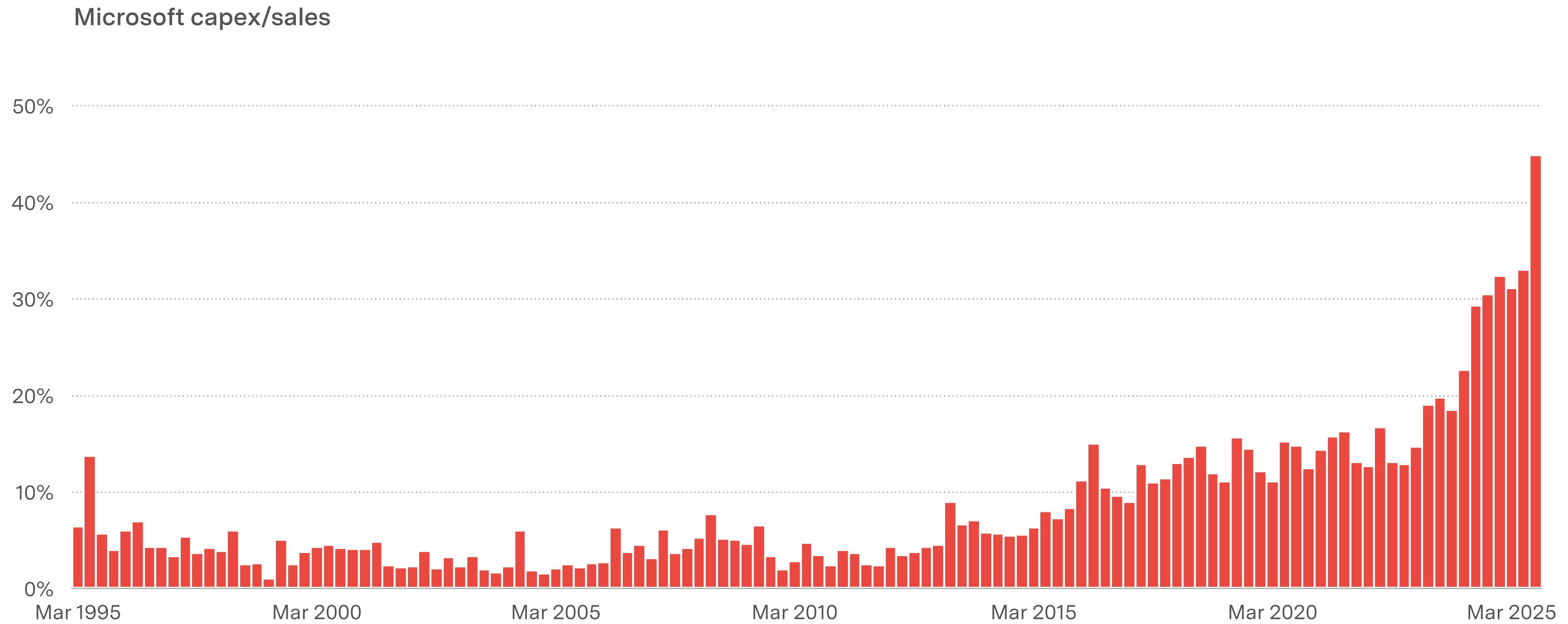
So where does a model lab compete?

Where is the value capture for a research-heavy, capital-intensive commodity?



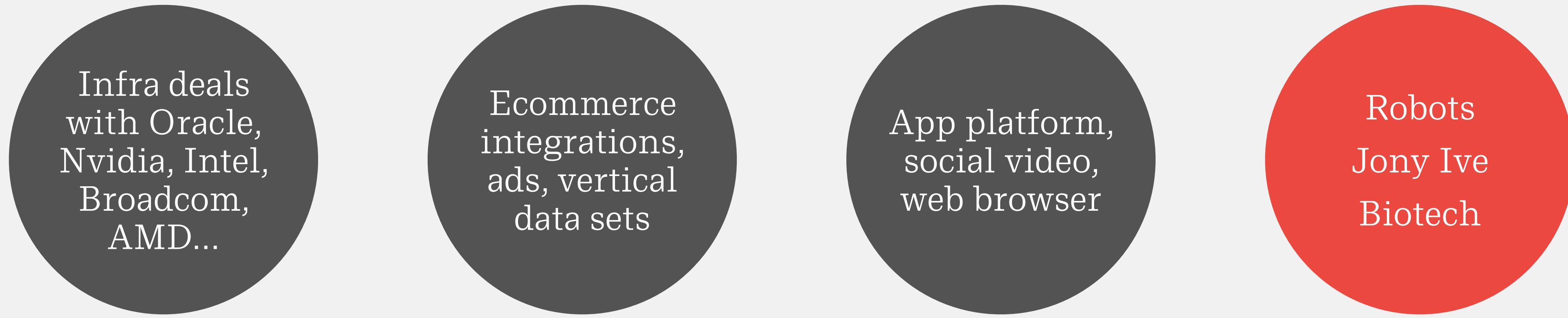
Microsoft's shift away from network effects?

From competing on network effects to competing on access to capital?



For OpenAI, “yes!” to everything

Everything, everywhere, yesterday (on other people's balance sheets), before the market slips away



Infra deals
with Oracle,
Nvidia, Intel,
Broadcom,
AMD...

Ecommerce
integrations,
ads, vertical
data sets

App platform,
social video,
web browser

Robots
Jony Ive
Biotech

“There are two ways to make money.
You can bundle, or you can unbundle”

Jim Barksdale

OpenAI bundles and unbundles use cases

What's the right experience? The right distribution? And why isn't it just the ChatGPT app?



Introducing ChatGPT Atlas

The browser with ChatGPT built in.

Download for macOS ↗

Takes action for you

Ask ChatGPT

Share

Ask anything

Introducing ChatGPT Atlas | ...

Why would I install ChatGPT Atlas instead of using Gemini?

That's a very reasonable question — they're both AI-integrated browsers, but they take quite different approaches. Here's how **ChatGPT Atlas** and **Google Gemini** (inside Chrome) differ conceptually and practically:

1. Core Architecture and Integration

Aspect	ChatGPT Atlas	Gemini in Chrome
Engine	A standalone browser built by OpenAI with ChatGPT natively inside every tab.	Chrome browser with Gemini available through the "Help me write" or "Ask Gemini" overlays.
AI Context	ChatGPT has <i>deep contextual access</i> to the page you're on — it can read, summarize, act, and	Gemini operates mainly as a sidebar or overlay. It can see some page content but

Ask ChatGPT

Share

11:30

ChatGPT 5 >

Booking.com find me a hotel in Paris for two adults between 11/21-11/24 with parking

B Booking.com

Nov 21 - Nov 24 · 2 travelers

★★★★★ 9.0 **Zoku Paris** Fabulous · 2,493 reviews

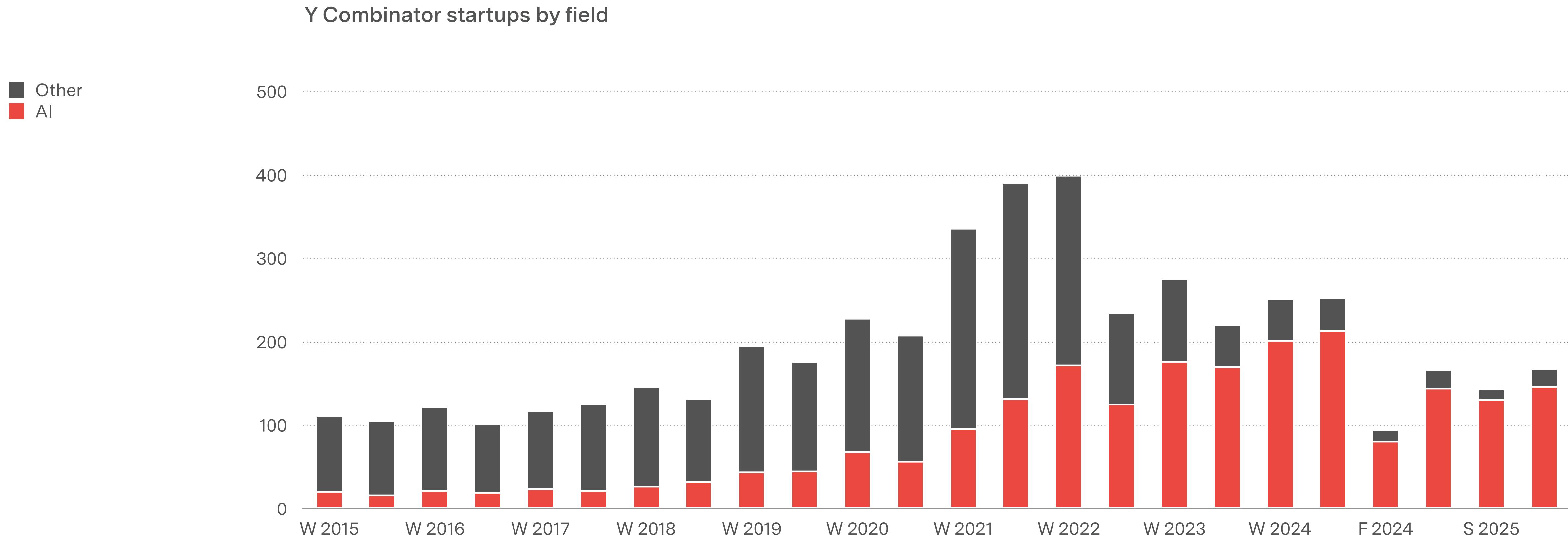
WiFi • Parking • Pool • Pets • Res

★★★★★ 9.0 **Le Meurice – Dorch** Fabulous · 212 reviews

WiFi • Parking • Po

Startups exist to unbundle use cases

The coming wave of AI startups trying to unbundle Google, Excel, email and Oracle... and ChatGPT



Where is the value capture?

If models are near-commodities, and we don't know the right product, where will the value be?

Best model?
Most capital?

Proprietary
vertical data?

Distribution
& GTM?
Product?
UX?

Building
'normal'
software
companies?

Outside tech

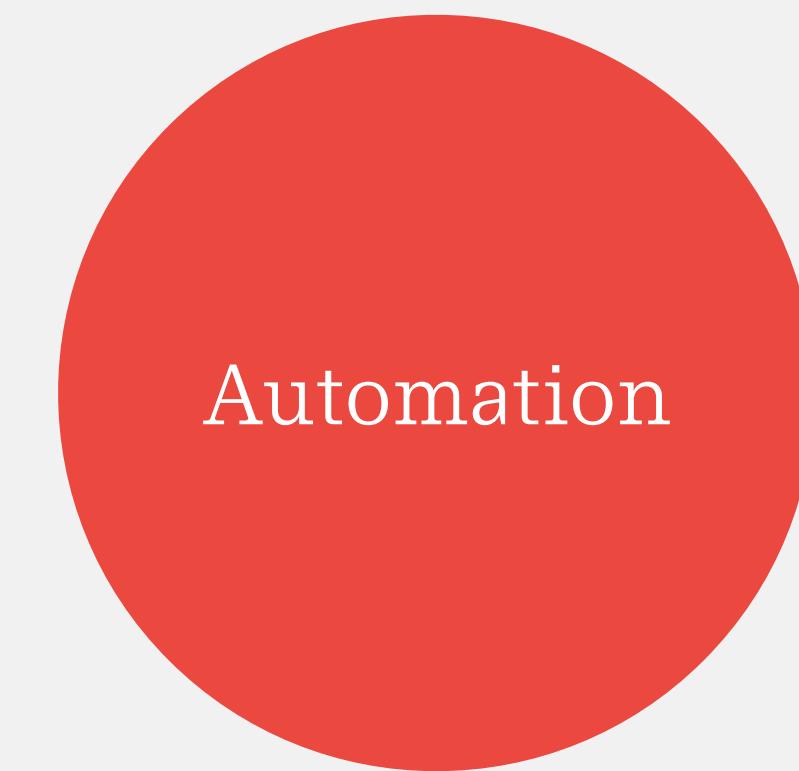
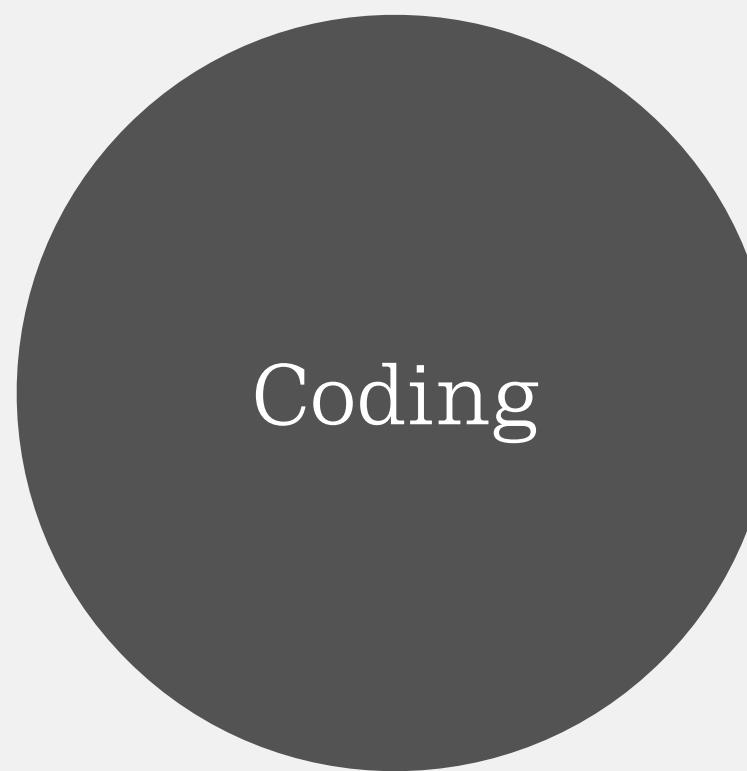
“What’s our AI strategy?” Well, what’s the pattern?

How do we *always* deploy new technologies?



So far, most successful use-cases are 'absorb'

Where is it easy and obvious to use generative AI?



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

The image shows two web browser windows side-by-side. The top window is from cursor.com and features the Cursor logo, a 'Sign in' button, a 'Download' button, and a menu icon. The main content discusses the company's seed round and its mission to make AI code more accessible. The bottom window is from [cnbc.com](https://www.cnbc.com/2025/03/15/y-combinator-startups-are-fastest-growing-most-profitable-in-fund-history-because-of-ai.html) and features the CNBC logo, a 'LIVESTREAM' button, a search icon, and a 'SIGN IN' button. It is a news article titled 'Y Combinator startups are fastest growing, most profitable in fund history because of AI' by Kate Rooney (@KROONEY). The article discusses Y Combinator's success with AI startups, mentioning a \$2.3B post-money valuation and how AI is changing the startup landscape. A 'WATCH LIVE' button is also visible.

cursor.com

CURSOR

When we raised our seed round, we wanted to make sure that AI could be as delightful, and fun than the tools we use today. We believe that where it's impossible to write PRs with 50 lines of pseudo-code, AI can answer a question answered instantly. As the AI code itself starts to melt away, the code becomes more readable.

It's been exciting to see the early results of our work.

We're obsessed with the magic of AI. Internally, we often talk about how great Cursor can become, and how we can make it even better.

Today, we're pleased to announce that we've raised a \$2.3B post-money valuation, up from \$1.2B. We've worked with existing investors like Horowitz, and DST, and welcome new investors.

We've grown to a team of over 100 people, and operators, with ambitious goals. We've crossed \$1B in annualized revenue, and many of the world's most successful companies are our customers. And our investors are more than almost any other LLMs in the world.

cursor.com

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cnbc.com

CNBC

TECH

Y Combinator startups are fastest growing, most profitable in fund history because of AI

PUBLISHED SAT, MAR 15 2025 11:17 AM EDT UPDATED FRI, MAR 21 2025 2:34 PM EDT

 **Kate Rooney**
@KROONEY

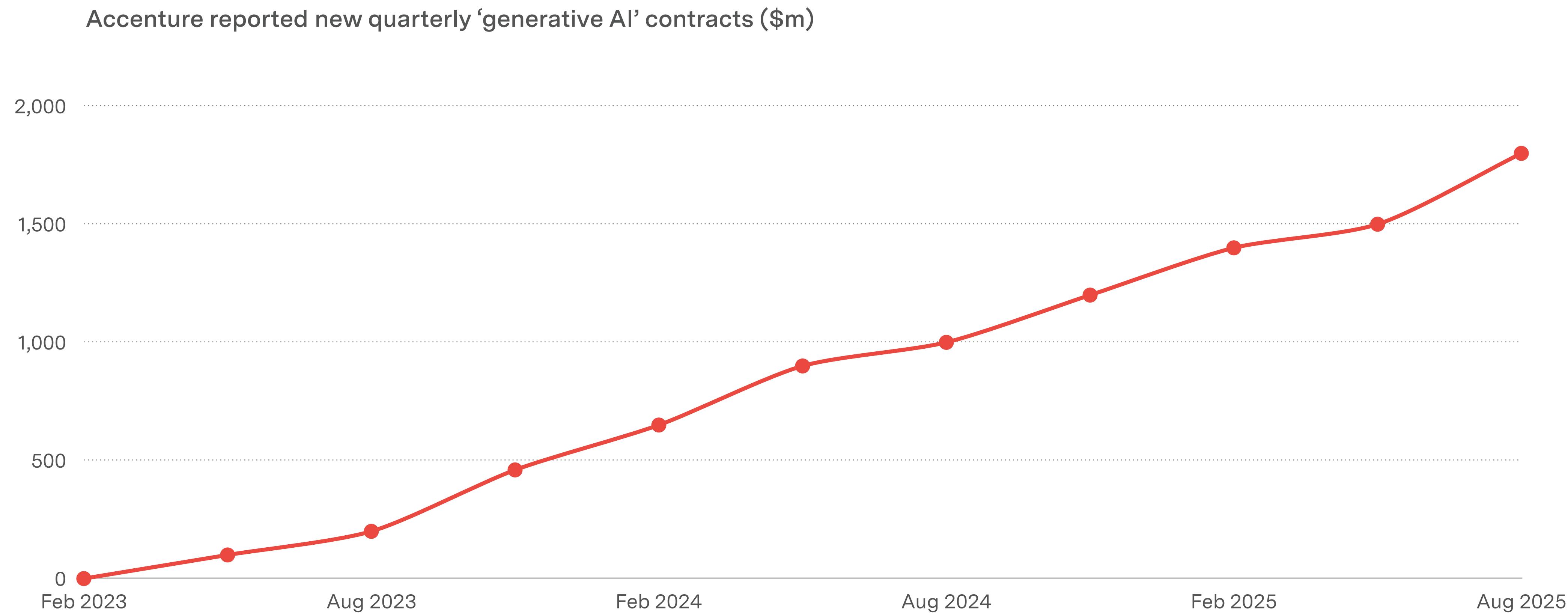
WATCH LIVE

KEY POINTS

- Y Combinator CEO Garry Tan says for about a quarter of the current YC startups, 95% of the code was written by AI.
- “What that means for founders is that you don’t need a team of 50 or 100 engineers,” Tan said. “You don’t have to raise as much. The capital goes much longer.”
- The winter 2025 batch of YC companies in aggregate grew 10% per week, he said.

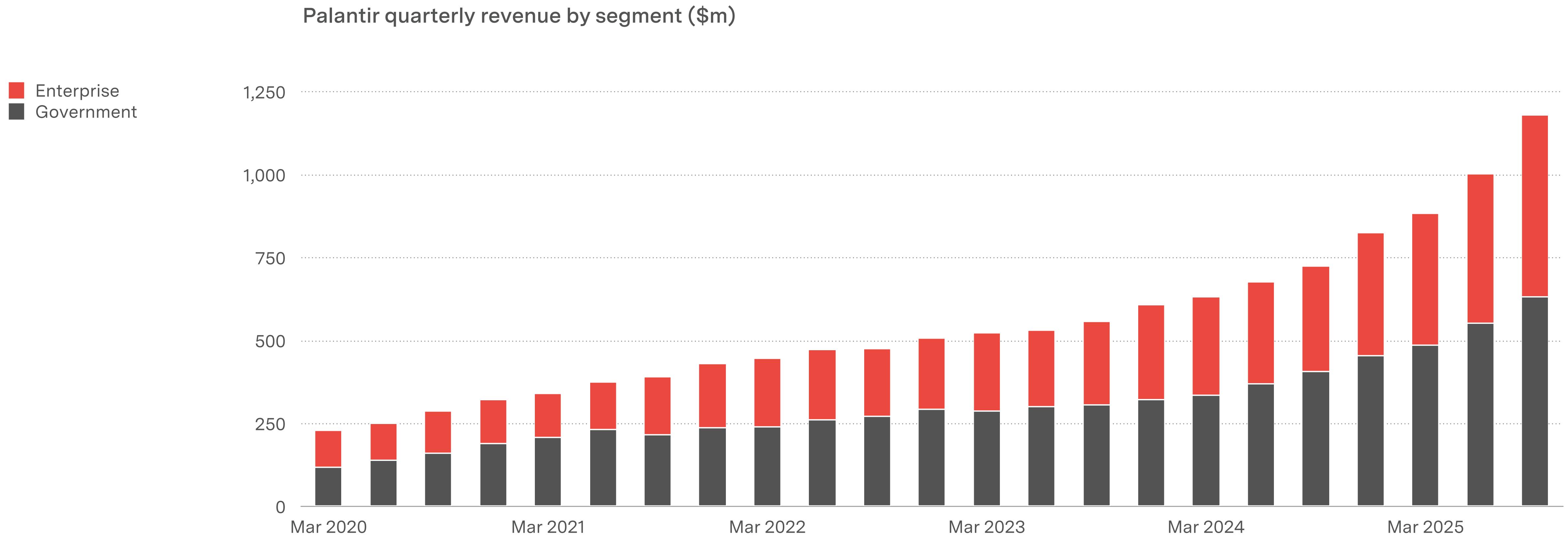
How do you know what to automate?

Step one: ask your systems integrator



How do you know what to automate?

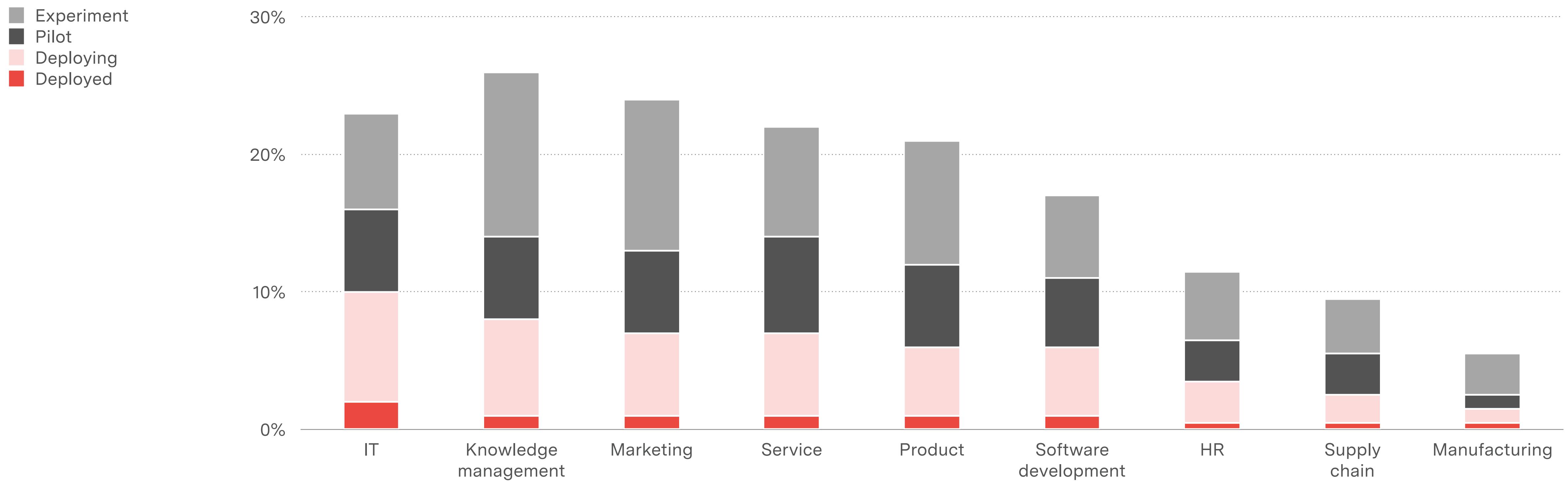
Step two: buy some SaaS from Dr Evil



Pilots come first and deployment takes time

“Agentic!” is 2025’s buzzword, but deployment takes longer

AI ‘agent’ use by business function, where Generative AI is already used. June 2025



Not everything works? Welcome to tech

“Why did our AI pilot fail?” That’s a CTO question, not an AI question



Security,
privacy, IPR,
error rates,
legal

Data
integration
& legacy
systems

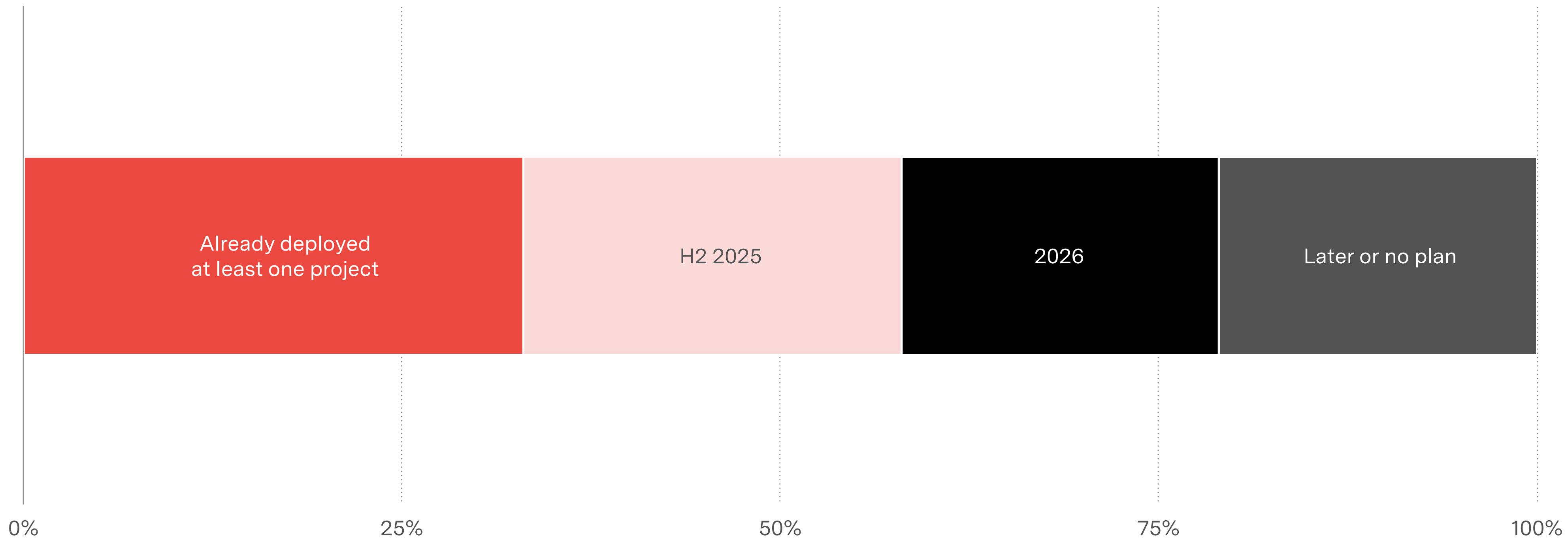
Finding the
right solution
for the right
people

The same
issues as
deploying any
new tech

The future can take time

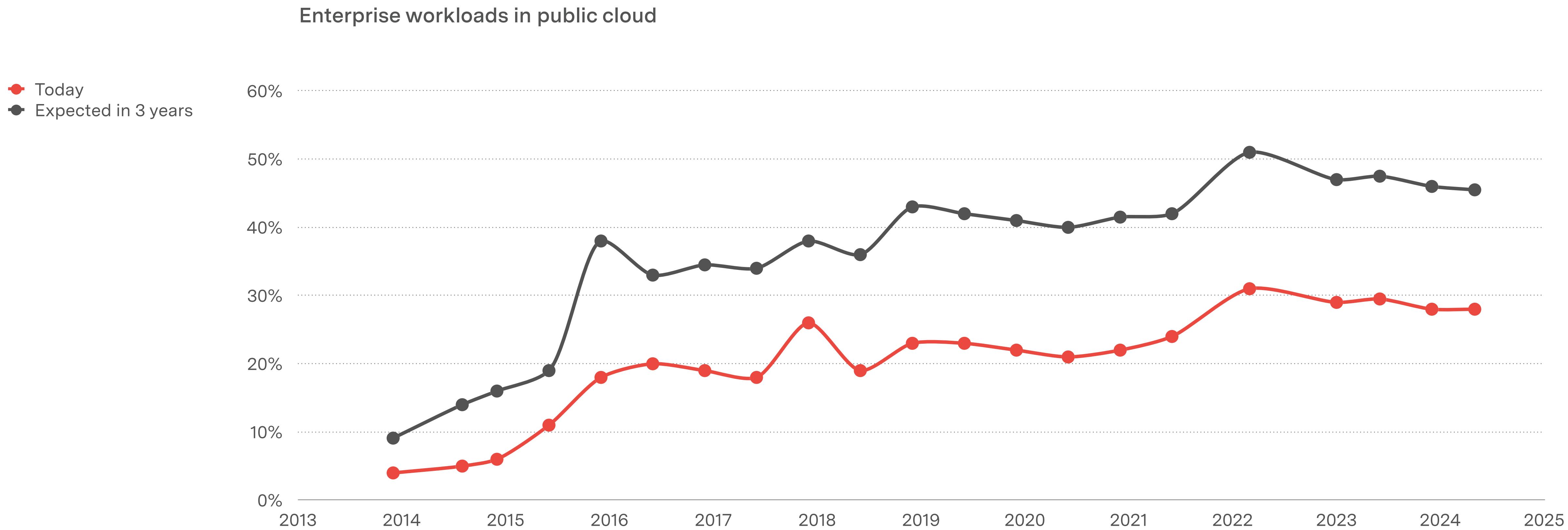
A quarter of CIOs have launched something - but 40% don't plan anything until at least 2026

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



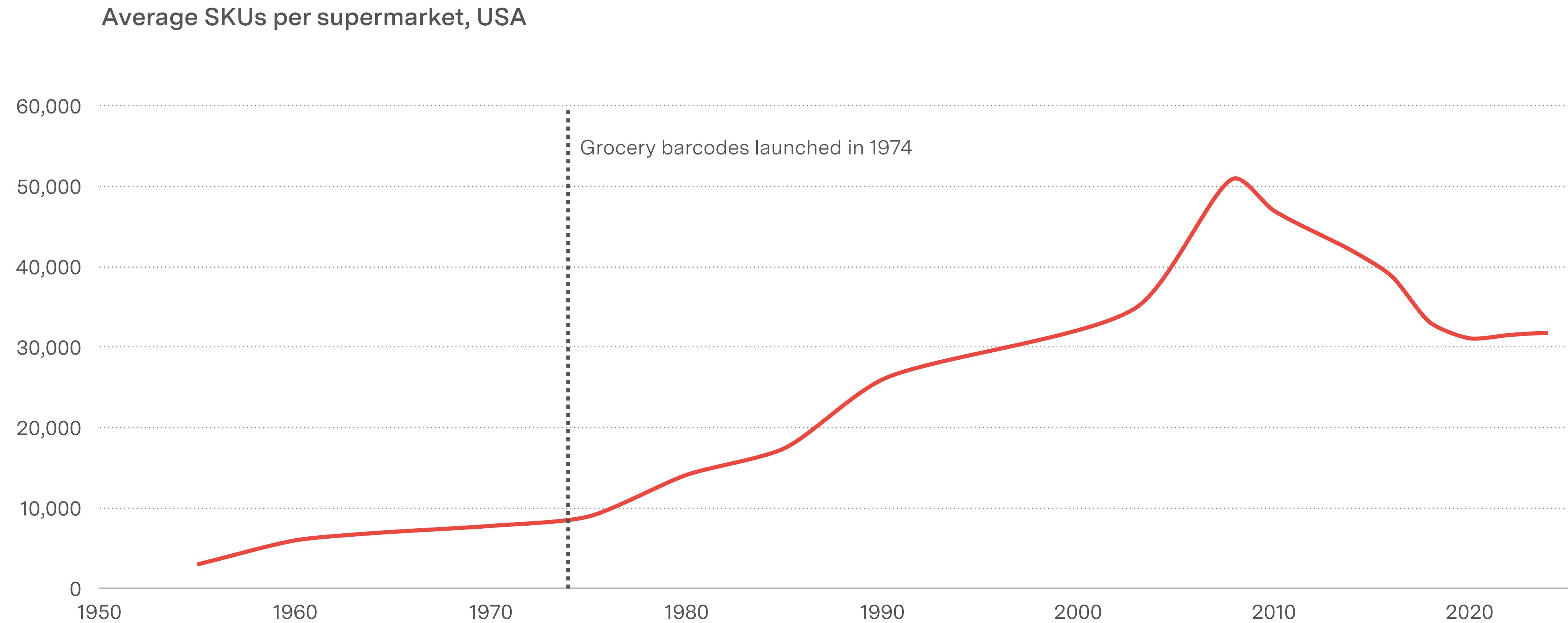
But the future always takes time

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



Sometimes ‘automation’ alone is a big deal

UPCs, barcodes and databases let retailers manage 5x more SKUs



But...

“We’ve all seen lots of AI presentations now, and we’ve deployed a bunch of stuff. Is that it? What’s next?”

F100 Retailer CMO, summer 2025

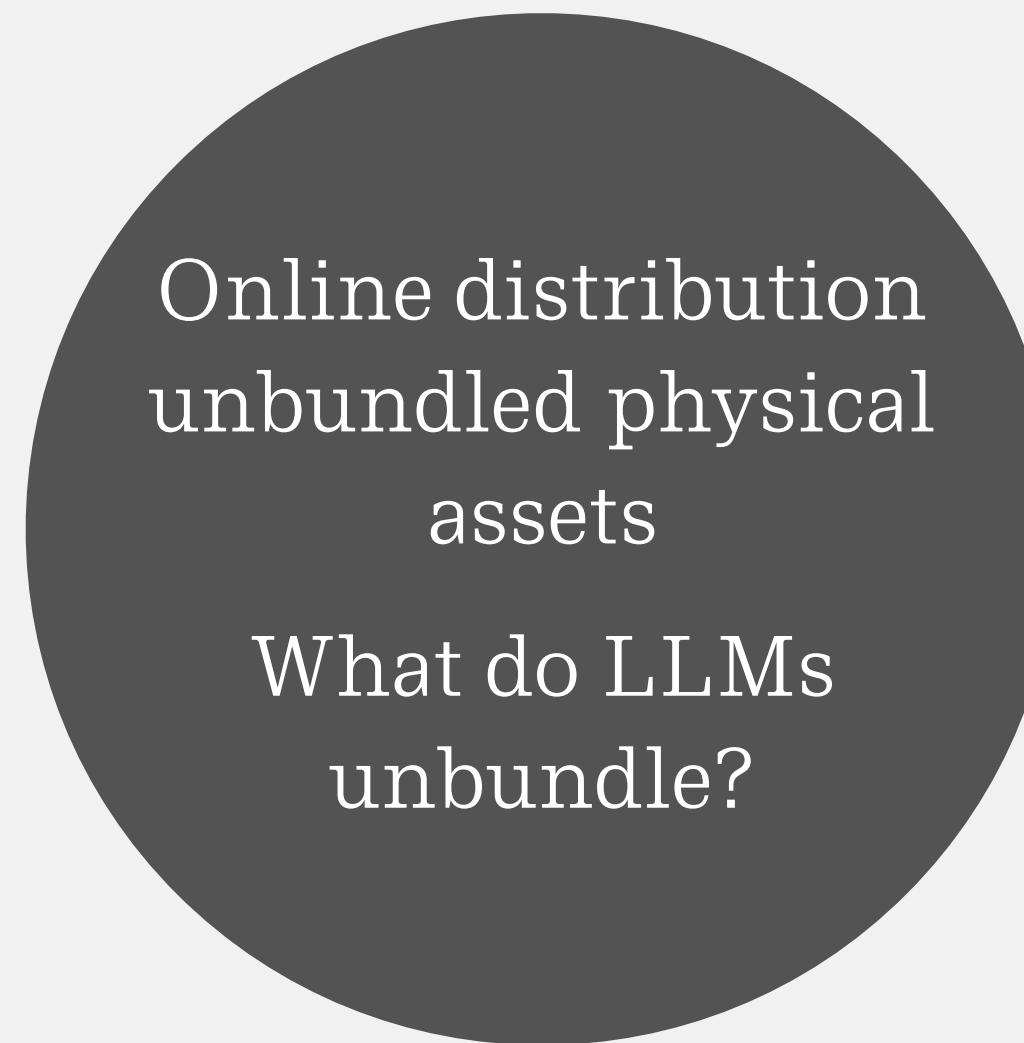
What next?

What comes after automating the obvious, easy things?



Where might we look for change?

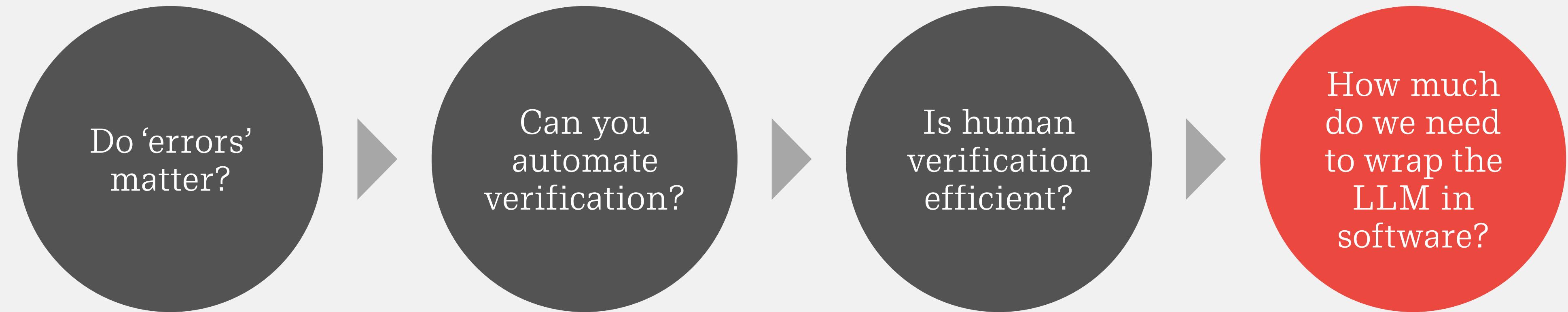
What can LLM automation unbundle? What things did we not realise were bundles?



“AI gives you infinite interns”

How do we use automation that makes ‘mistakes’?

We have no indication that error rates will go away, so where's the human in the loop?



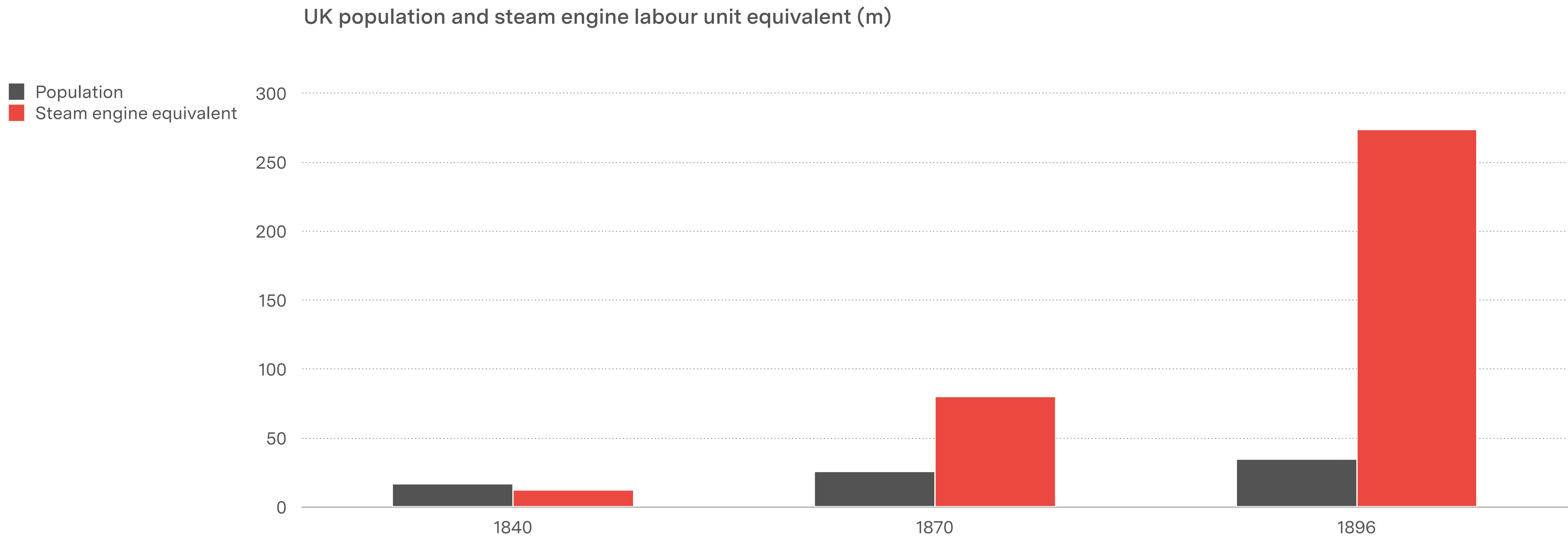
What do 'automated interns' change?

The Jevons paradox - applied price elasticity



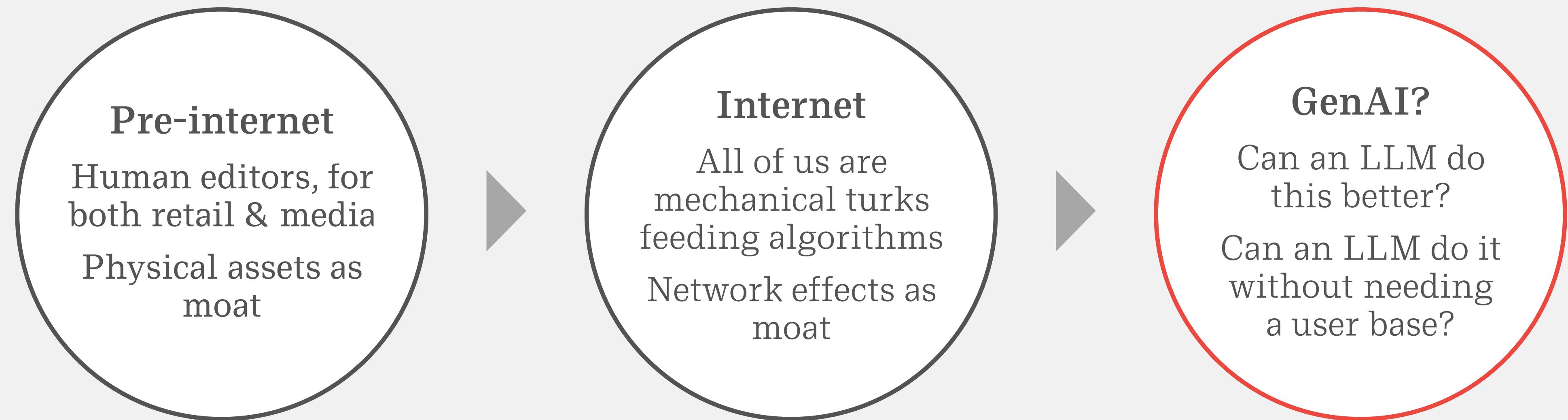
300m interns? Jevons paradox at work

Steam engines gave Britain the equivalent labour of (very roughly) 5x its total population by 1900



Where's the human in the loop?

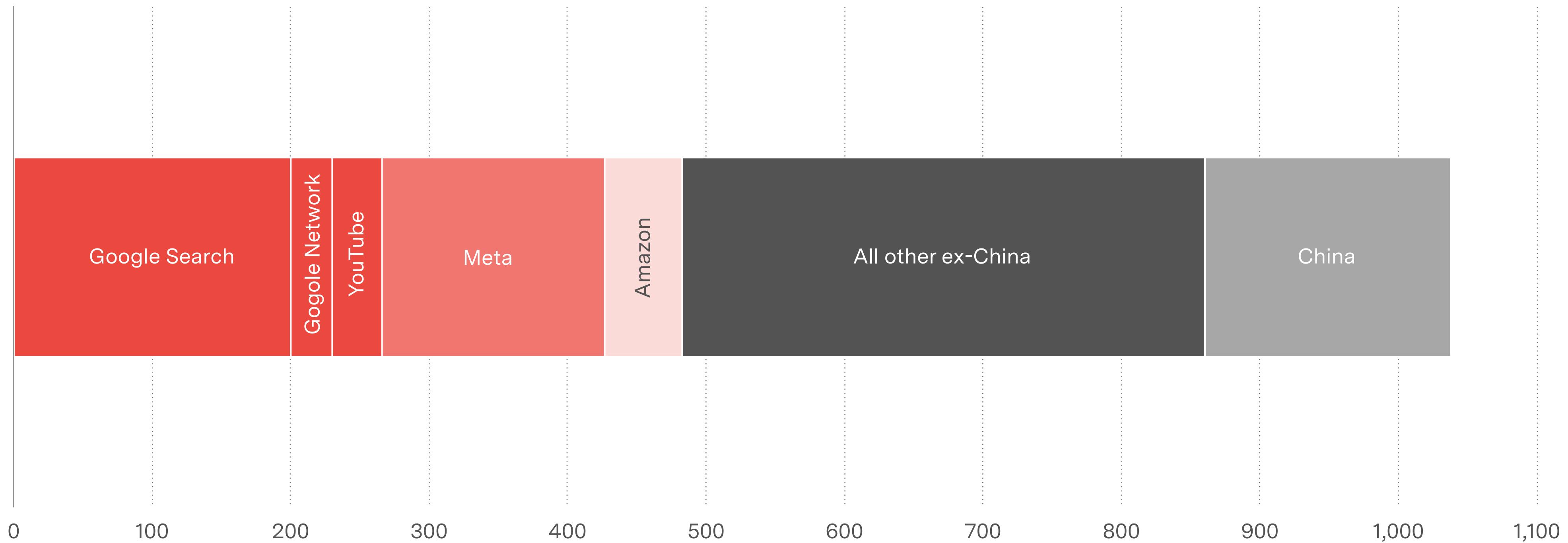
All recommendation systems today work by driving, capturing and analysing user activity



Value to capture!

Brands spend a trillion dollars a year to talk to consumers - plus rent, shipping, marketing, returns...

Global ad revenue, 2024 (\$bn)



Source: Companies, WPP Media

NB: 'China' represents spending in China, not global spending by Chinese companies

Benedict Evans -- November 2025

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“Our new AI recommendation model drove 5% more ad conversions on Instagram and 3% on Facebook”

Meta, Q2 2025

“Advertisers that activate AI Max in Search campaigns typically see 14% more conversions”

Google, Q2 2025

Absorb the new thing, automate what you know

Ad asset creation costs ~\$100bn globally: now add 10-20x more assets and unlock cheap video for everyone

L'Oréal Groupe

Augmenting creativity with Generative AI

CreAltech is revolutionizing beauty content creation at L'Oréal, augmenting the creativity of our marketing and content teams with the power of Generative AI. Combining a modular ecosystem of models, expertise, technologies, and partners - including Google, Adobe and OMI- CreAltech empowers marketers to generate thousands of unique, on-brand images, texts, and videos for diverse platforms and global audiences.

As L'Oréal Groupe, we have decided that we will not use AI Generated 'lifted' face, body, hair or skin, to support/ enhance product benefits, in our external communication. CreAltech prioritizes responsible AI asset production via a robust ethical framework, focusing on commercially safe AI-generated materials for core activities:

- **Early Ideation & Prototyping:** Generating initial concepts, creating briefs and quickly developing storyboards.
- **Visual Innovation:** Inspiring new visual codes of beauty and pushing creative boundaries.
- **Scaled Production:** Efficiently creating a high volume of content for ingredients, textures, formulae, backgrounds, and product shots leveraging commercially safe models. We learned that Gen AI's true strength lies in enhancing, not replacing, human creativity.
- **Combining Expertise:** Our platform empowers teams to combine their creative expertise with the power of AI, leveraging effective prompt engineering and a

unilever.com

How AI is helping drive Desire at Scale across Unilever

Published: 30 September 2025

AI-powered content creation is fuelling a marketing transformation that is delivering growth and reach across our brands. Here are four Unilever AI case study success stories.

- AI is making it possible to create assets up to 30% faster than before
- It generates content that connects with consumers, doubling key metrics including Video Completion Rate and Click-Through Rate
- It is supporting a social-first approach, improving TikTok visibility for brands like Sunlight by 22.5%

cnbc.com

Food & Beverage

Oreo-maker Mondelez to use new generative AI tool to slash marketing costs

PUBLISHED FRI, OCT 24 2025 6:37 AM EDT

REUTERS

WATCH LIVE

Snack maker [Mondelez](#) is using a new generative AI tool to cut costs for the production of marketing content by 30% to 50%, a senior executive told Reuters.

The packaged food manufacturer began developing the tool last year with IT firm [Accenture](#) and expects that it will be capable of making short TV ads that would be ready to air as soon as next year's holiday season, and potentially for the 2027 Super Bowl, said Jon Halvorson, Mondelez's global senior vice president of consumer experience.

The Cadbury chocolate producer has invested more than \$40 million in the tool, Halvorson said, adding that savings would

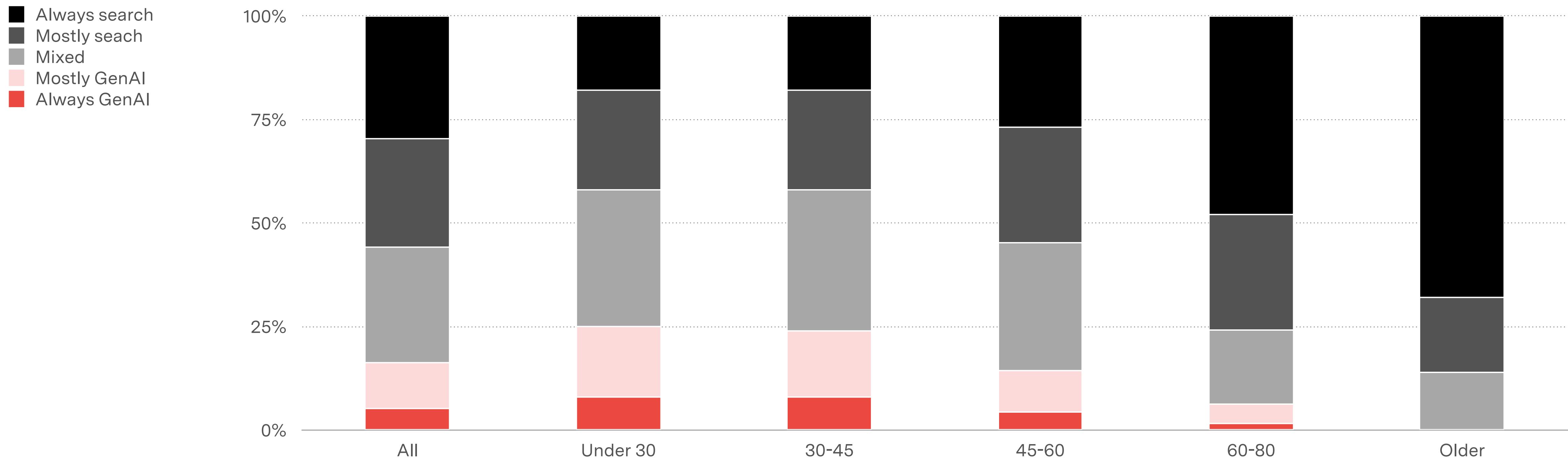
Old: “half of AI will be turning three bullet points into emails, and the other half will be turning emails into three bullet points”

New: half of AI will be turning three bullet points into 300 ads, and the other half...

Again, this is early

Use so far may be more additive and experimental than substitution (and this includes Gemini)

US consumer search preference (September 2025)



The web has been dying since 1997

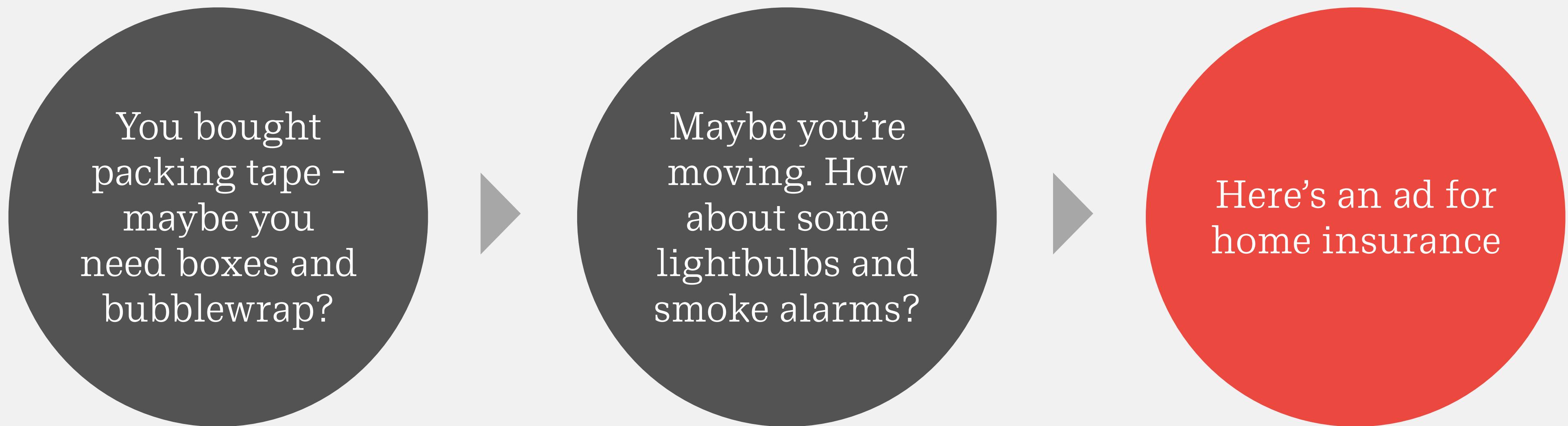
Remember how early this is, and how hard it is to know how the new thing will work



A screenshot of a web browser showing an article from npr.org. The URL 'npr.org' is in the address bar. The page has a light blue header with the 'npr' logo. Below the header, the word 'TECHNOLOGY' is in bold capital letters. The main headline is 'Online news publishers face 'extinction-level event' from Google's AI-powered search'. Below the headline is the date 'JULY 31, 2025 · 4:20 AM ET' and the text 'HEARD ON MORNING EDITION'. The author is 'By Bobby Allyn, John Ruwitch'. The article discusses how Google's AI Overviews are causing declines in traffic for online publishers. It includes a quote from Bobby Allyn: 'Now, there is growing evidence validating those fears. New research shows the web traffic that publishers have long relied on is significantly slowing, thanks to AI-generated summaries and the rise of AI chatbots.' Another quote from Bobby Allyn: 'Traffic to CNN's website has dropped about 30% from a year ago. Business Insider's and HuffPost's sites saw traffic plunges around 40% in the same period, according to figures from digital market data firm Similarweb.' The page has a light blue footer.

But where are we going?

What if recommendations go from correlation to an understanding of what those SKUs really represent?



How do we know what we might want?

For 30 years we've had infinite product, infinite media and infinite retail

Now we have a machine that sees all of it, and sees us

What does it recommend?

Source: Morioka Shoten



And what gets unbundled?

What do you actually want? What are you trying to do? Why? What do you care about?



“What’s our AI strategy?”

Is this a question for the CIO? CMO? CEO?

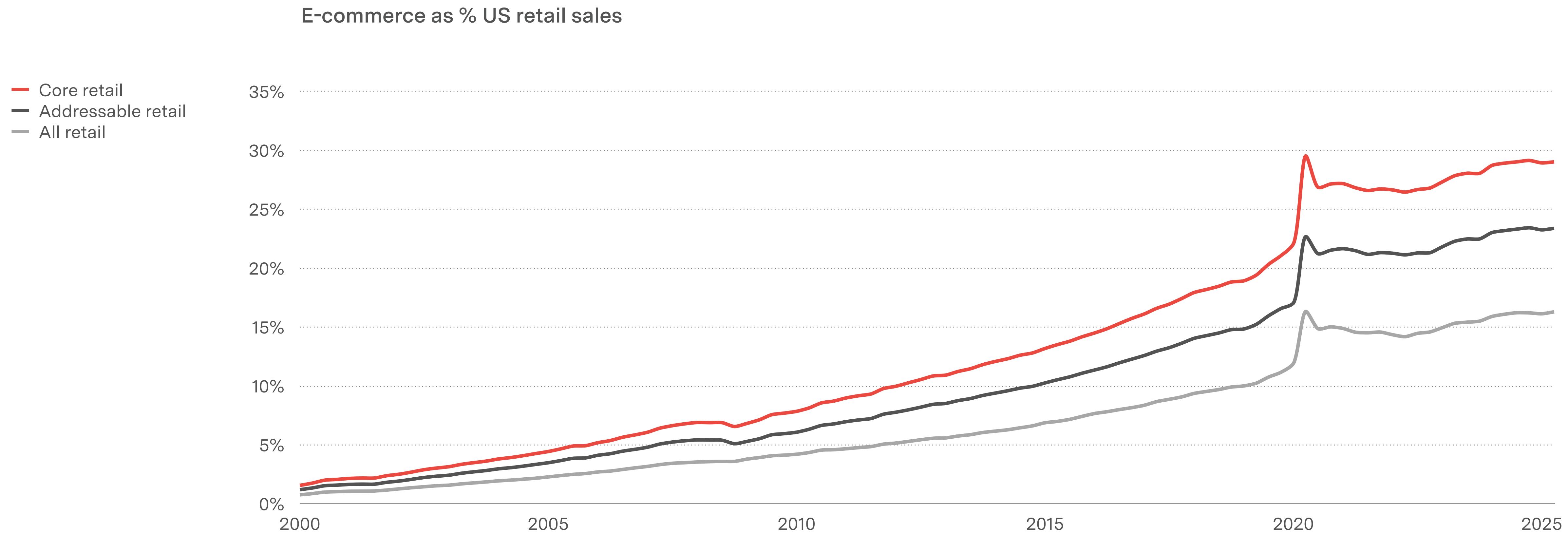
Accenture? Publicis? Bain/BCG/McKinsey?

Is this a new tool or a new industry?

AI eats the world

The old stuff from before ChatGPT is still here

Excluding gas and grocery, 30% of US retail sales are now online



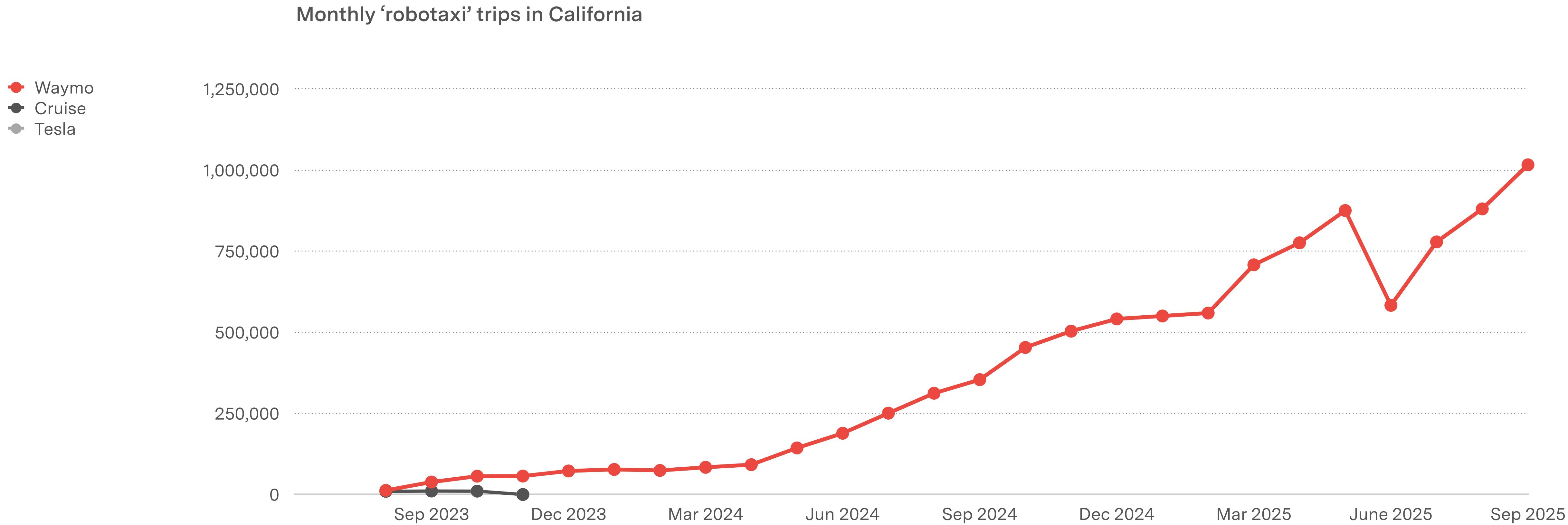
Source: US Census. Seasonally adjusted

‘Retail’ excludes restaurants & bars. ‘Addressable retail’ also excludes cars, car parts & service, and gasoline stations. ‘Core retail’ excludes grocery from addressable retail.

Benedict Evans -- November 2025 79

And all the *other* new stuff

After a decade of promises and tens of billions of dollars, ‘automatic cars’ might be starting to work





How many times have we been here before?

We've had radical change (and bubbles) before
And we've also done automation before



‘Automation and technological change’, 1955

AUTOMATION AND TECHNOLOGICAL CHANGE

REPORT

OF THE

JOINT COMMITTEE
ON THE ECONOMIC REPORT

TO THE

CONGRESS OF THE UNITED STATES



JANUARY 5, 1956.—Ordered to be printed

UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON : 1956

71006

“Automation”

In the course of the hearings, the subcommittee considered specifically six different industrial situations in the metalworking, chemical, electronics, transportation, and communications industries, together with data processing and officework. These industries were selected merely as illustrative of the kind of problem which may be faced in the trend toward automation. There are, of course, many other industries which might have been studied with interest and profit had time permitted. The fact that these particular industries were chosen should not for a moment obscure the fact of rapidly advancing technology in other areas. To mention only a few such areas, one might cite the canning and bottling industries. One might cite also petroleum refining, the processing of commercial-bank paperwork, the basic steel industry, the use of ready-mixed concrete, coal mining, the use of electronically controlled elevators in our modern skyscrapers, and numerous others.

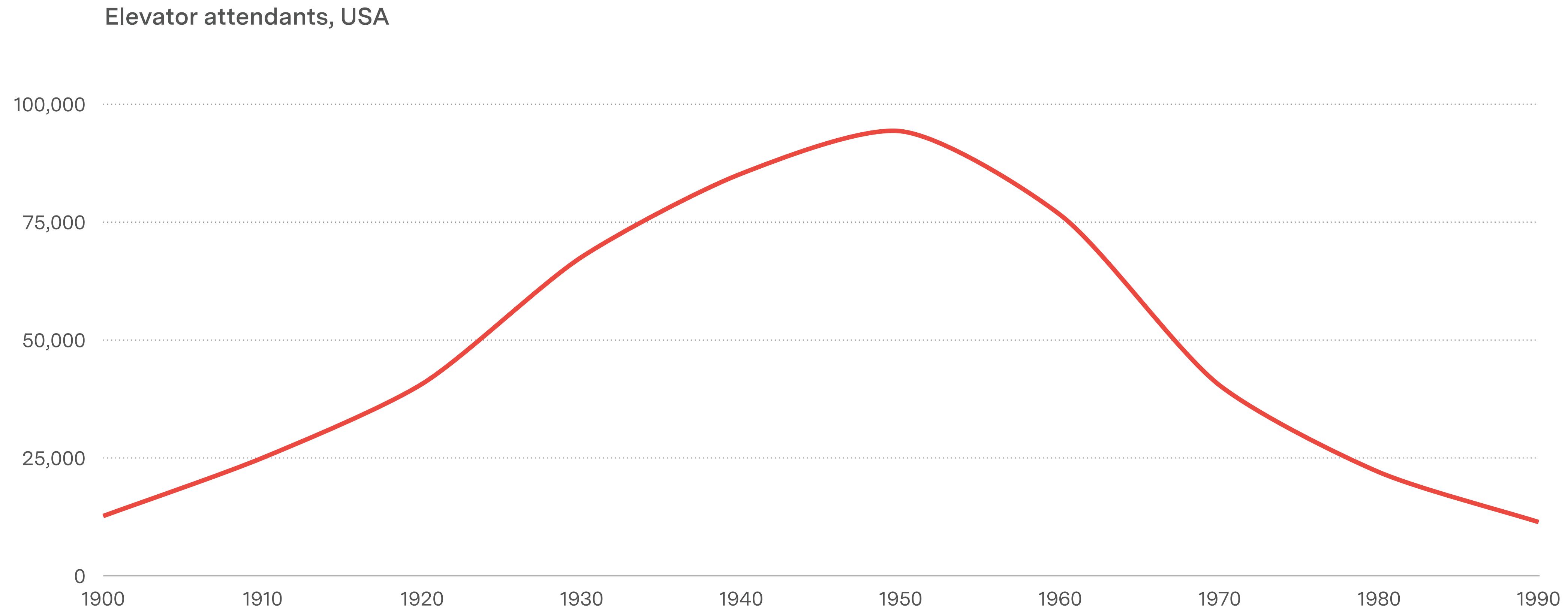
“Automation”



Source: Benedict Evans

When automation works, it disappears

Otis launched the 'Autotronic' automatic elevator in 1950



“AI is whatever machines can’t do yet”

Larry Tesler, 1970

Thank you

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

November 2025

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