FOR YOU / HIGHLIGHTS • EDITOR’S LETTER

Which parts of research is AI speeding up?

METR examined training metrics inside Anthropic. A separate study traced how scientists use assistants during research. Together they show why model progress, tool usage and laboratory output require different measures.

Evaluate tools on a specified task, recording completion time, output quality and steps that still require human review.

How fast is R&D accelerating?

METR estimates a roughly twofold change, with wide uncertainty.

METR

Rack switches enter volume production

Scorpio is now Astera’s largest product family by revenue.

Astera Labs

01 / AI companies

2026-11-06 • New

Google rolls out 15-second video generation

Google released Gemini Omni 1.2 Flash for developers through the Gemini API and for businesses through Google Cloud. Google Vids supports 15-second clips, while the Gemini app rollout starts with Ultra subscribers.

Production teams can keep longer actions inside a single clip. Google still lists fast sports action, abrupt script changes and complex physics as areas for improvement.

Google

2026-11-05 • Past 72 hours

METR estimates how fast Anthropic improves on defined tasks

After reviewing internal training metrics and interviewing staff, METR estimated that Anthropic was improving model capabilities on well-defined tasks about twice as fast as in its historical comparison period. The researchers considered rates near 1.3 or 3 times plausible.

The comparison concerns the rate of capability gains. Forecasting an entire research cycle also requires evidence about hard-to-score work and constraints on staff and compute.

METR

2026-11-05 • Past 72 hours

Where researchers use Claude in practice

Anthropic analyzed about 207,000 research sessions on Claude and Claude Code. Data analysis accounted for roughly a third of Claude sessions and nearly half on Claude Code. Idea generation and data collection were less common.

Labs can use these patterns to choose workflows for a trial. Session shares measure usage; local timing and reproducibility checks are needed to measure benefit.

Anthropic

02 / AI product tracker

Product	Version / date	Changes and sources
Gemini Omni	1.2 Flash 2026-11-06 New this issue • stable	Generally available with 15-second video. See AI companies for rollout details. Google
Codex CLI	0.168.0-alpha.3 2026-11-05 New this issue • alpha	The prerelease tag lists no feature-level changes. OpenAI • Codex CLI

03 / AI chips

2026-11-03 • Seven-day watch

Astera ramps its 320-lane fabric switch

Astera Labs reported volume production of its 320-lane Scorpio X-Series fabric switch. Scorpio became its largest product family by revenue. Company-wide quarterly revenue reached $584.9 million.

Volume production is a firmer indication of adoption than a design win. Total company revenue includes other products and does not establish Scorpio unit shipments.

Astera Labs

04 / Embodied AI

2026-11-03 • Seven-day watch

Pixel combines a wheeled robot, teleoperation and whole-body control

A preprint describes Pixel, a wheeled humanoid with compliant grippers and a training pipeline that uses both human and robot demonstrations. The authors demonstrate manipulation involving navigation, active perception and whole-body coordination.

Labs can use the design to study how data-collection interfaces affect the whole system. Factory use would require site-specific cycle times, intervention rates and reliability measurements.

arXiv • Pixel

05 / Infrastructure

2026-11-06 • New

AWS makes cited web answers available in Northern Virginia

AWS made Web Answer generally available on Bedrock AgentCore in US East (Northern Virginia). One tool call returns a synthesized answer with citations. Builders can restrict domains and publication dates, and AWS charges per call.

Teams can offload part of their retrieval workflow. Time-sensitive applications still need to check whether citations support each answer and assess regional requirements.

AWS

06 / Policy

2026-11-01 • Seven-day watch

China’s standard for model-data platforms takes effect

Industry standard YD/T 7114—2026, approved by China’ s industry ministry, was issued July 15 and took effect November 1. It addresses ingestion, processing, management, delivery and security for large-model data platforms and applies to providers, operators and users.

Buyers can request evidence for each platform function. The previously covered embodied-AI standard addressed dataset quality; this document addresses the platform that handles the data.

YD/T 7114—2026

07 / Business

2026-11-04 • Past 72 hours

Qualcomm reports an 8% revenue decline and reiterates its data-center target

Qualcomm reported $10.322 billion in GAAP revenue for the quarter ended September 27, down 8% year over year. Management reiterated a $5 billion fiscal 2027 data-center revenue target and projected more than 60% growth in non-handset revenue.

Future segment disclosures can show how far diversification has progressed. The $5 billion figure is a management target whose realization depends on sales and delivery.

Qualcomm • SEC

08 / AI markets

Memory stocks fall in the US and Korea as Hong Kong platforms rise

On November 5, Micron fell 17.46% and Sandisk 22.26%. Samsung Electronics lost 7.57% and SK hynix 9.46%. Hygon rose 2.83% in mainland China while CXMT fell 3.54%. Alibaba gained 8.45% and Tencent 7.17% in Hong Kong.

The four sessions closed at different times. All 30 names have a close and daily change in USD, CNY, HKD or KRW. This watchlist is not a sector index. Each row links to Stock Analysis or the Seoul Economic Daily closing report.

Memory

Company / ticker	Market / FX	Close	Change	Session / source
Micron / MU	US / USD	656.39	-17.46%	2026-11-05 Micron • Stock Analysis
Sandisk / SNDK	US / USD	806.43	-22.26%	2026-11-05 Sandisk • Stock Analysis
SK hynix / 000660	KR / KRW	1,264,000	-9.46%	2026-11-05 Seoul Economic Daily • close
Samsung Electronics / 005930	KR / KRW	201,500	-7.57%	2026-11-05 Seoul Economic Daily • close
CXMT / 688825	CN / CNY	42.53	-3.54%	2026-11-05 CXMT • Stock Analysis

Storage and components

Company / ticker	Market / FX	Close	Change	Session / source
Western Digital / WDC	US / USD	267.63	-17.35%	2026-11-05 Western Digital • Stock Analysis
Seagate / STX	US / USD	466.53	-16.25%	2026-11-05 Seagate • Stock Analysis
Montage Technology / 688008	CN / CNY	163.80	-2.40%	2026-11-05 Montage Technology • Stock Analysis
GigaDevice / 603986	CN / CNY	263.15	-3.03%	2026-11-05 GigaDevice • Stock Analysis
Longsys / 301308	CN / CNY	225.77	+1.24%	2026-11-05 Longsys • Stock Analysis
BIWIN / 688525	CN / CNY	133.90	+0.16%	2026-11-05 BIWIN • Stock Analysis

Compute and manufacturing

Company / ticker	Market / FX	Close	Change	Session / source
Broadcom / AVGO	US / USD	291.53	-10.43%	2026-11-05 Broadcom · Stock Analysis
TSMC ADR / TSM	US / USD	353.10	-10.78%	2026-11-05 TSMC ADR · Stock Analysis
NVIDIA / NVDA	US / USD	181.60	-9.26%	2026-11-05 NVIDIA · Stock Analysis
AMD / AMD	US / USD	404.40	-17.26%	2026-11-05 AMD · Stock Analysis
Intel / INTC	US / USD	52.25	-10.33%	2026-11-05 Intel · Stock Analysis
Cambricon / 688256	CN / CNY	845.00	-0.31%	2026-11-05 Cambricon · Stock Analysis
Hygon / 688041	CN / CNY	192.80	+2.83%	2026-11-05 Hygon · Stock Analysis
SMIC / 00981	HK / HKD	47.50	+2.28%	2026-11-05 SMIC · Stock Analysis

Networking, power and cooling

Company / ticker	Market / FX	Close	Change	Session / source
Arista Networks / ANET	US / USD	159.16	-10.82%	2026-11-05 Arista Networks · Stock Analysis
Vertiv / VRT	US / USD	176.73	-14.02%	2026-11-05 Vertiv · Stock Analysis

Platforms and applications

Company / ticker	Market / FX	Close	Change	Session / source
Microsoft / MSFT	US / USD	535.93	-3.58%	2026-11-05 Microsoft · Stock Analysis
Alphabet / GOOGL	US / USD	282.57	-2.20%	2026-11-05 Alphabet · Stock Analysis
Meta / META	US / USD	605.08	-3.96%	2026-11-05 Meta · Stock Analysis
Amazon / AMZN	US / USD	260.21	-2.19%	2026-11-05 Amazon · Stock Analysis
iFlytek / 002230	CN / CNY	39.15	+2.38%	2026-11-05 iFlytek · Stock Analysis
Baidu / 09888	HK / HKD	80.65	+5.36%	2026-11-05 Baidu · Stock Analysis
Alibaba / 09988	HK / HKD	109.10	+8.45%	2026-11-05 Alibaba · Stock Analysis
Tencent / 00700	HK / HKD	430.40	+7.17%	2026-11-05 Tencent · Stock Analysis
SenseTime / 00020	HK / HKD	1.16	+4.50%	2026-11-05 SenseTime · Stock Analysis

Watch for switch shipments, replication of acceleration estimates and expansion of web-answer availability.