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Google's Gemini 3 Shows Visual-Reasoning Edge



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Google Gemini 3 to Aid Image, Video Sharing; Cloud Unit Growth

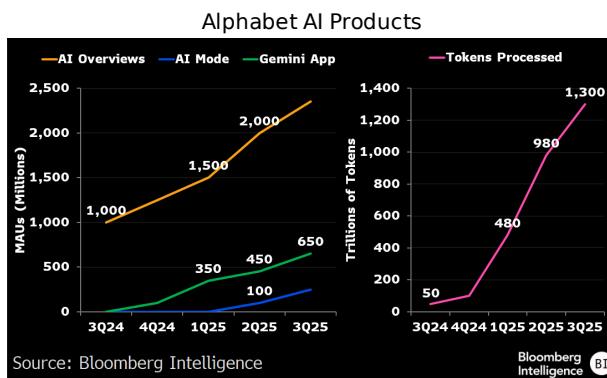
(Bloomberg Intelligence) -- Google's Gemini 3 visual-reasoning lead -- akin to Anthropic's coding-agent edge and OpenAI's in text chatbots -- could aid image- and video-workload adoption, while its widespread rollout suggests confidence in its ability to curb hallucinations. Google's training and inferencing scale with its own TPU chips may help it rent more of its Nvidia allocation for external workloads on Google Cloud, which could see segment-sales growth closer to 40%.

(11/20/25)

1. Bigger Upfront Rollout for Gemini 3

Google's Gemini 3 rollout across its Search, Vertex AI, APIs and stand-alone Gemini app show the company's confidence in its ability to reduce hallucinations for large-language-model use across different types of tasks. Gemini 3 is likely optimized to serve traffic for more than a billion users across its family of apps, which we believe to be a likely source of differentiation vs. other frontier LLMs that have a significantly higher cost of revenue to run their LLM workloads.

The cost per token for inferencing at Alphabet's Google gives it an advantage, driven by its lower TPU expense vs. Nvidia's GPU, which could allow Google to serve its Gemini LLM in AI mode without a significant degradation in its search-business gross margin. (11/20/25)



2. TPU Training Shows Commercialization Potential

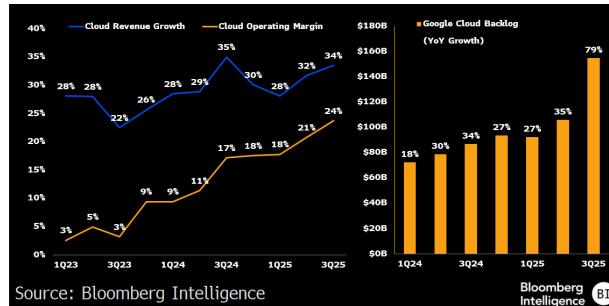
Gemini 3 Pro was trained using Google's own TPUs, which further lowers the company's reliance on Nvidia GPUs, though TPU is used primarily for external workloads in its Google Cloud segment. With Anthropic looking to spend as much as \$50 billion in the buildout of AI infrastructure for its LLM training and inferencing workloads, the commercialization of TPUs could be a source of top-line growth in areas other than the company's Google Cloud segment, where sales growth has improved to the mid-30%, aided by AI-workload contribution.

Google Cloud growth has accelerated to around the mid-30%, which could be further aided by the company's ability to rent its Nvidia GPU allocation for external workloads. Google Cloud margin

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has also been expanded to over 20% year to date, aided by its use of TPUs for internal workloads. (11/20/25)

Google Cloud Growth, Margins, Backlog



3. Visual-Reasoning Differentiation vs. Peers

In addition to chatbot search and coding agents, the Gemini 3 model release shows a big leap in visual reasoning, which could be a big driver of the company's model vs. other frontier LLMs. Video- and image-generation capabilities have likely improved in Gemini 3, given the company's big step-up in visual reasoning compared with its 2.5 version. We believe that Google has added more human-preference data, using reinforcement learning, and fine-tuned its Gemini 3 model on proprietary- search index data and YouTube content. (11/20/25)

Gemini 3 Model Benchmarks

Benchmark	Description	Gemini 3 Pro	Gemini 2.5 Pro	Claude Sonnet 4.5	GPT-3.5
Humanity's Last Exam	Academic reasoning No tools With search and code execution	37.5% 45.8%	21.6% —	13.7% —	26.5% —
ARC-AGI-2	Visual reasoning puzzles AI2C Prize Verified	31.1%	4.9%	13.6%	17.6%
GPQA Diamond	Scientific knowledge No tools	91.9%	86.4%	83.4%	88.1%
AIME 2025	Mathematics No tools With code execution	95.0% 100%	88.0% —	87.0% 100%	94.0% —
MathArena Apex	Challenging Math Contest problems	23.4%	0.5%	1.6%	1.0%
MMMU-Pro	Multimodal understanding and reasoning	81.0%	68.0%	68.0%	76.0%
ScreenSpot-Pro	Screen understanding	72.7%	11.4%	36.2%	3.5%
CharXiv Reasoning	Information synthesis from complex charts	81.4%	69.6%	68.5%	69.5%
OmniDocBench 1.5	OCR	Overall Edit Distance, lower is better 0.115	0.145	0.145	0.147
Video-MMMU	Knowledge acquisition from video	87.6%	83.6%	77.8%	80.4%
LiveCodeBench Pro	Competitive coding problems from Codeforces, ICPC, and IOI	Difficulty Rating, higher is better 2.439	1.775	1.418	2.243
Terminal-Bench 2.0	Agentic terminal coding	Terminus-2 agent 54.2%	32.6%	42.8%	47.6%
SWE-Bench Verified	Agentic coding	Single attempt 76.2%	59.6%	77.2%	76.3%
t2-bench	Agentic tool use	85.4%	54.9%	84.7%	80.2%
Vending-Bench 2	Long-horizon agentic tasks	Net worth (mean), higher is better \$5,478.16	\$573.64	\$3,838.74	\$1,473.43
FACTS Benchmark Suite	Hold out internal grounding; multi-hop reasoning; search-retrieval benchmarks	70.5%	63.4%	50.4%	50.8%
SimpleQA Verified	Parametric knowledge	72.1%	54.5%	29.3%	34.9%
MMMLU	Multilingual Q&A	91.8%	89.5%	89.1%	91.0%
Global Piqa	Comprehension reasoning across 100 Languages and Cultures	93.4%	91.5%	90.1%	90.9%
MRCR v2 (8-needle)	Long context performance 12B (averaged) 1M (entitled)	77.0% 26.3%	58.0% 16.4%	47.1% not supported	61.6% not supported

Source: Google Blog

4. Pricing, Reasoning vs. OpenAI

Google has a more efficient infrastructure based on a PUE metric, which shows the company requires less utility power per IT load. Its more than 1,300 trillion tokens/month, at least 2x higher than hyperscale peers, reflects its token-cost advantage vs. rivals such as OpenAI, which has a much lower product gross margin. We expect Google to use lower pricing than other LLM and cloud hyperscale companies given its advantage on inferencing costs in using its own TPU chips for compute. (11/20/25)

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API Cost Comparison

Company	Model	Input Price (\$/1M Tokens)	Output Price (\$/1M Tokens)
Anthropic	Claude Sonnet 4.5	\$3.00	\$15.00
	Claude Opus 4.1	\$15.00	\$75.00
OpenAI	GPT-5.1	\$1.25	\$10.00
	o3	\$2.00	\$8.00
Alphabet	Gemini 3 Pro	\$2.00	\$12.00
xAI	Grok-4	\$3.00	\$15.00
Meta	Llama 4 Maverick	\$0.20	\$0.80

Source: Bloomberg Intelligence

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