The following presentation includes statements that could be considered forward-looking. These statements involve a number of risks and uncertainties that could cause actual results to differ materially. Any forward-looking statements in the presentation are based on assumptions as of September 10, 2024, and Alphabet undertakes no obligation to update them. Please refer to Alphabet's most recent Form 10-Qs and Form 10-K for a discussion of the risk factors that may affect its results.

Google Cloud



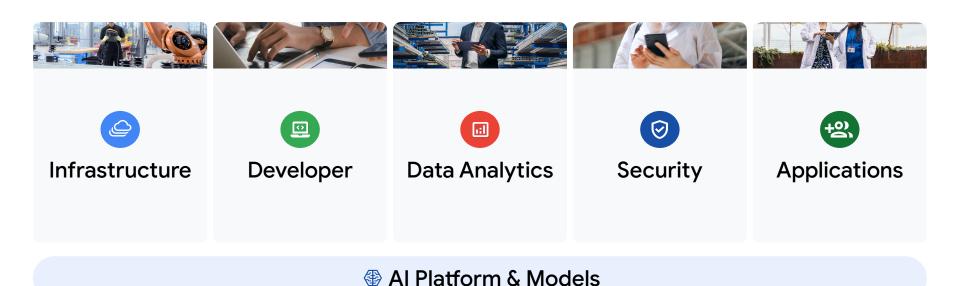
Thomas Kurian CEO, Google Cloud

Our Strategy

Accelerate every organization's ability to

digitally transform with leading Digital and Al Platforms

Google Cloud



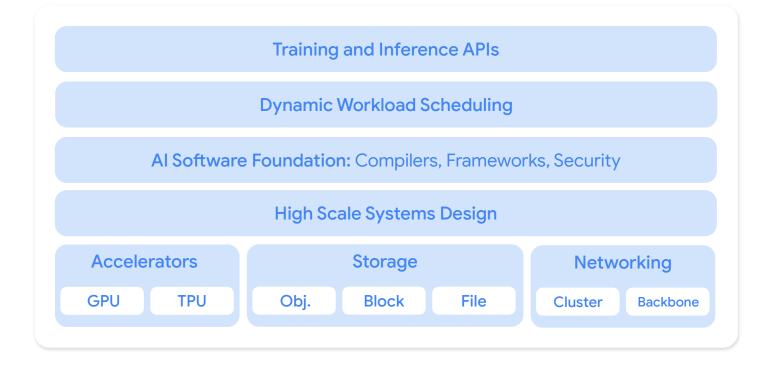
Global Infrastructure



Al Infrastructure

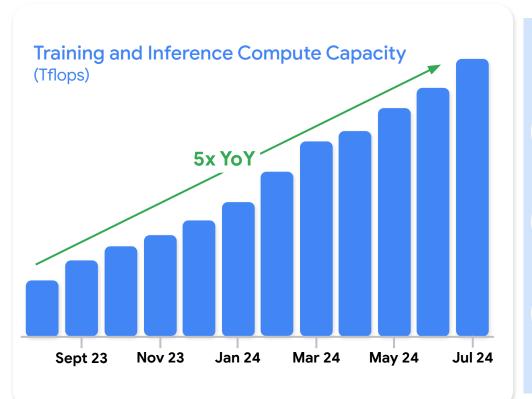
Google Cloud Differentiators

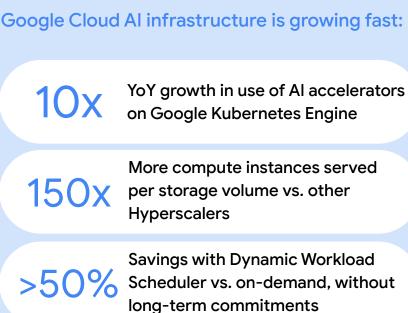
✓ Accelerator Choice ✓ Best Performance ✓ Best Cost Performance ✓ Uptime & Security





Al Infrastructure: Rapid Growth







Al Infrastructure: Examples

Al21 labs

ANTHROP\C

APPLOVIN

✓ AssemblyAl

B A BAYER E R

BENDING SP®NS

character.ai

cohere

contextual·ai

deep

essential Al











nuro























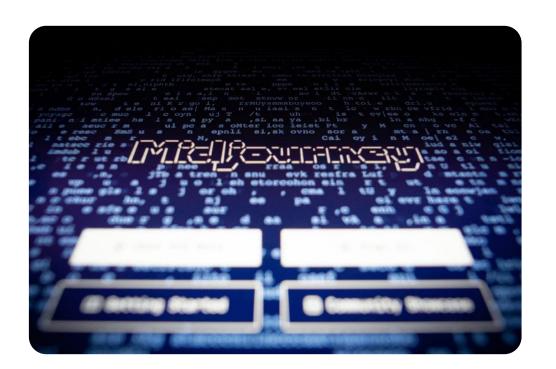
WRITER





Ford use deep learning to replace traditional computational fluid dynamics models in virtual wind tunnel tests





Midjourney uses
Google Cloud TPUs to
train and GPUs to serve
its cutting-edge Al
models and empower
its community of free
expression



Al Developer Platform

Google Cloud Differentiators

✓ 150+ Models

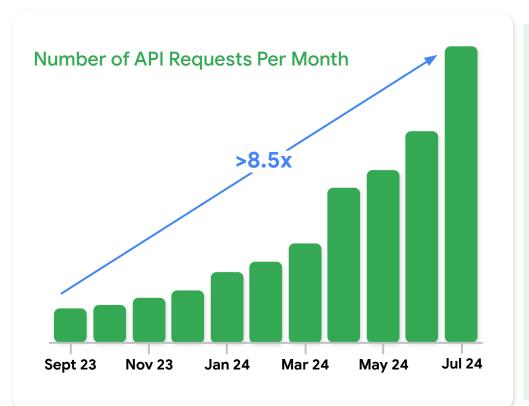
✓ Any Cloud and Any SaaS

✓ End-to-End Platform

Agent Development Studio		
Evaluation	Monitoring	Feedback
Tool Use	Orchestration	Memory
Model Catalog	Tuning	Extensions
Structured Data	Unstructured Data	RAG & Search
Al Models (Gemini, Imagen, Anthropic Claude, Mistral, Meta Llama)		



Al Developer Platform: Rapid Growth



Google's Al platform & models, especially Gemini, are seeing strong growth:

Srowth in Cloud customers using Gemini in 2024

>2M Developers building with our Al models

>2x QoQ activity with accelerating growth as customers go live



Al Developer Platform: Examples









Deloitte.











































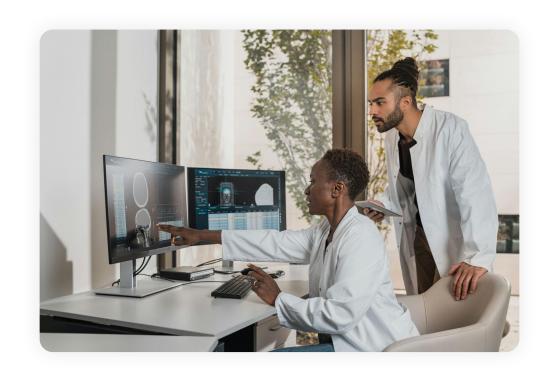












Bayer is building healthcare applications for radiologists with Al powered Search, Document Creation, and Analysis





Samsung has deployed Google's Gemini and Imagen to its Galaxy S24 smartphones, offering safe & intuitive photo editing and summarizing in the blink of Al

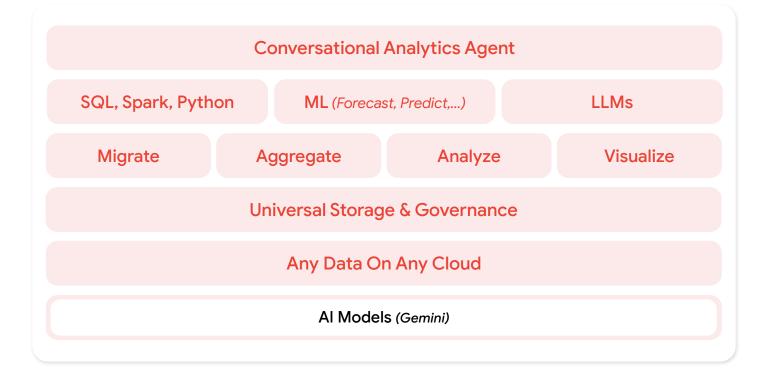


Data Analytics Platform

Google Cloud Differentiators

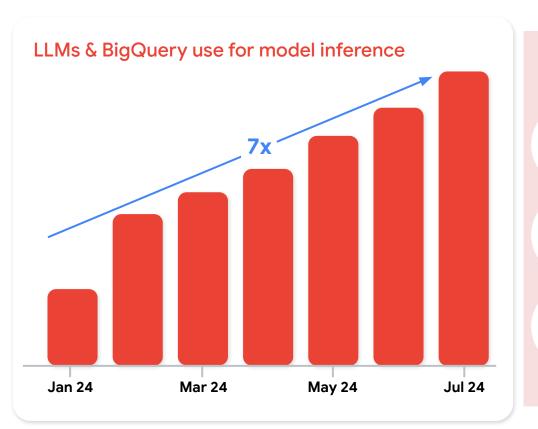
✓ Connect Any Data to Any Al Model

✓ Use Generative AI to Analyze Data





Data Analytics Platform: Rapid Growth



BigQuery is seeing rapid growth:

60% Growth in BigQuery ML model operations in the last 6 months

>4x Growth in use of Gemini-powered data analysis in the last 6 months

YoY growth in multimodal data use in BigQuery



Data Analytics Platform: Examples































































UPS Capital uses BigQuery to analyze package movements, insurance claims, and address data in real time to identify high-risk locations and anomalies faster





Hiscox, one of the oldest syndicates in Lloyd's of London, used BigQuery and Vertex AI to create the first Al-enhanced lead underwriting model, automating quoting for complex risks, from three days down to a few minutes

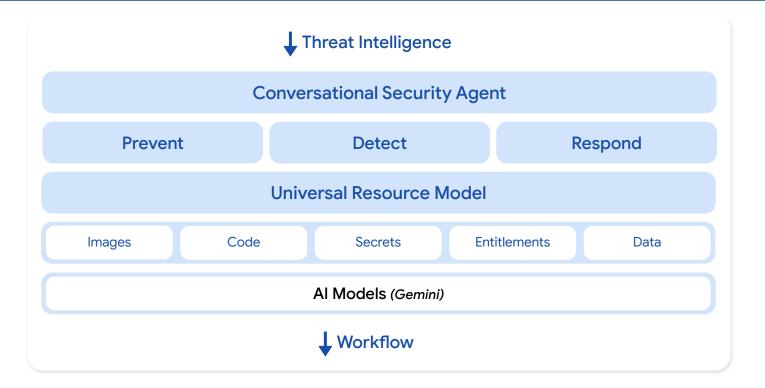


Cybersecurity Platform

Google Cloud Differentiators

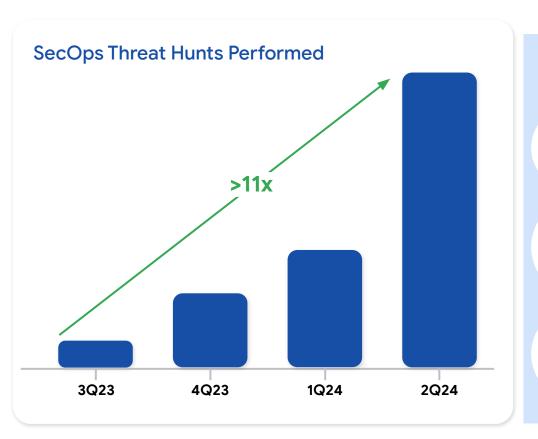
✓ Use AI to Prevent, Detect, & Respond to Threats

✓ On Any Resource, Anywhere





Cybersecurity Platform: Rapid Growth



Google Cloud's Cyber Platform is seeing strong growth over the last 6 quarters:

>8x Number of detection rules run

Amount of data ingested
(run-rate of 600T events & 700PB of data per year)

>4x Customers choosing to protect their enterprise with Google detections



Cybersecurity Platform: Examples































































Gemini in Security
Operations is helping
Fiserv summarize
threats, find answers,
and detect, validate,
and respond to security
events faster





Gemini in Security
Operations is helping
Apex Fintech accelerate
writing complex threat
detections from hours to
a matter of seconds

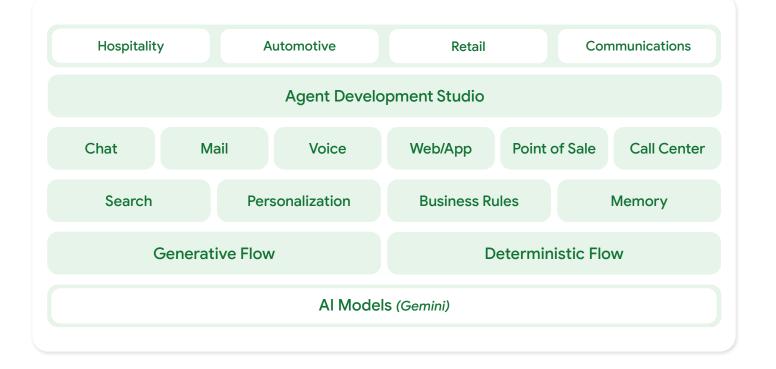


Customer Experience Agents

Google Cloud Differentiators

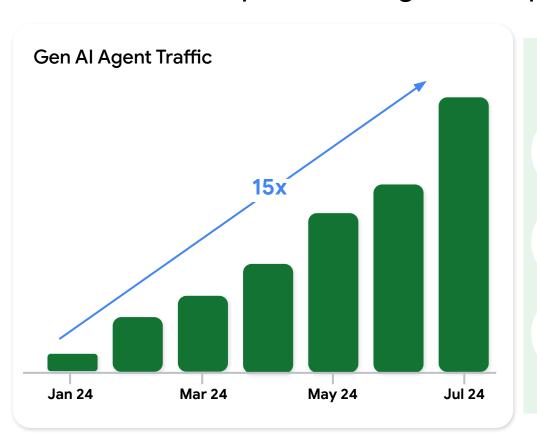
✓ Multi-Modal Agents
✓ Accuracy & Factuality

✓ Complete Brand and Flow Control





Customer Experience Agents: Rapid Growth



Google Cloud's Generative AI Agents are seeing strong growth in 2024:

15 X Higher Gen AI Agent usage

Higher Gen Al Agent adoption

Gen Al requests are from hybrid agents using both generative and predictive Al



Customer Experience Agents: Examples

































































Verizon's customer success team achieves a 60% containment rate and a high rate of call deflection within their chat experience

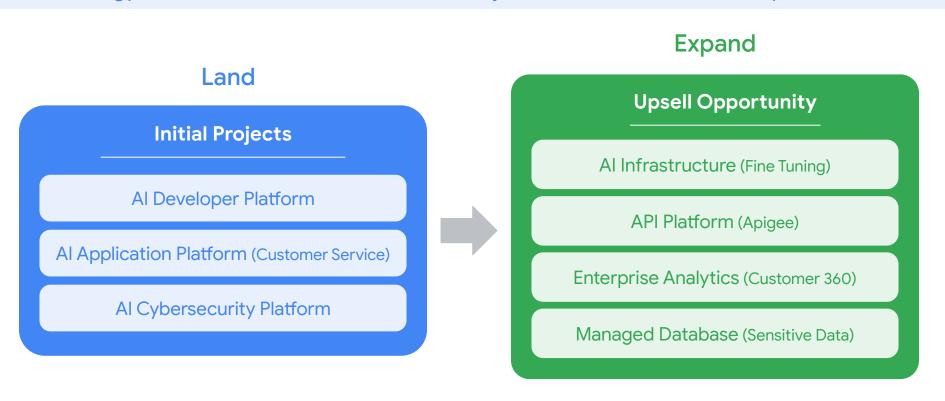




GM's OnStar Virtual
Assistant is powered by intent-recognition algorithms using Google Cloud's conversational Altechnologies

Generative Al Revenue Opportunity

Strategy: Win New Customers, Win New Projects, Drive More Product Upsell



Continued Focused Go to Market Transformation

Geographical Expansion

Thoughtful additions to grow capacity efficiently

Specialization

Focused on Key Buyers, Industries, and Solutions

Solution Selling

Focused on Business Value, Different from Infrastructure

Partner Ecosystem

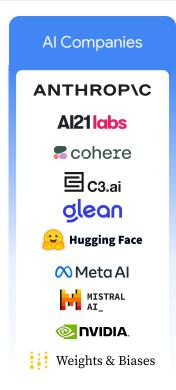
Top System Integrators and ISVs developing Solutions

Business Value Methodology

Assessment, Measurement, Change Management

Broad & Growing Partner Ecosystem

Technology, Incentives, Programs, Certifications, Solutions, Go-to-Market





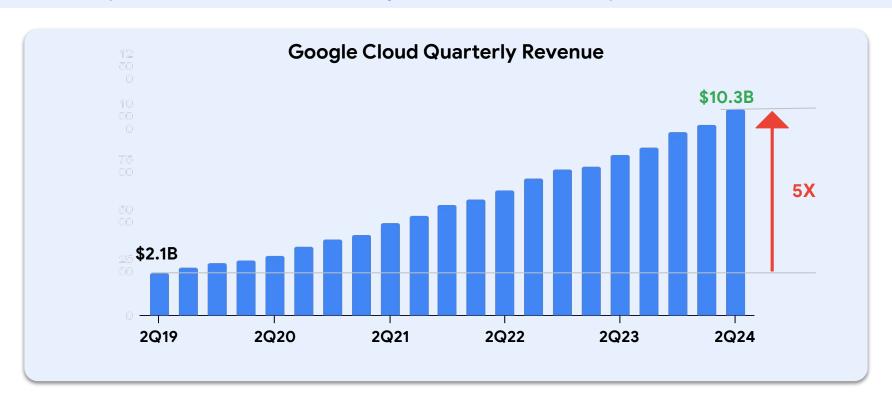






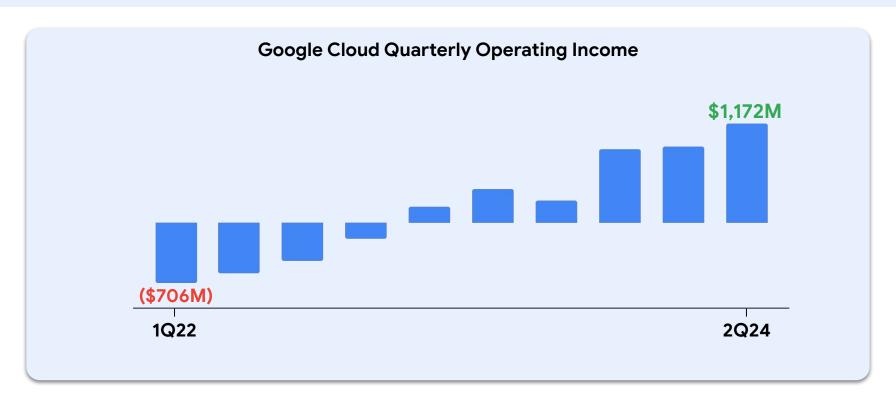
Scale & Discipline Drives Revenue Growth

Driven by: New Customers, New Projects, More Product Upsell



Scale and Discipline Drives Operating Income Growth

Driven by: Engineering Efficiency and Go to Market Efficiency



Strong Business Momentum

Capturing Customers Faster

increase in first time commit volume from H1 >130% 2023 to H1 2024

Winning Larger Deals

>190% increase in deal value from H1 2023 to H1 2024

Deeper Product Adoption

>30% YoY growth in products used per customer

Strong Ecosystem Support

>75% Top ISVs developing Gen Al solutions

Facilitated by Generative Al

Billions in revenue generated YTD 2024 by our Al Infrastructure and Generative Al Solutions

Thank you