The Cloud for research

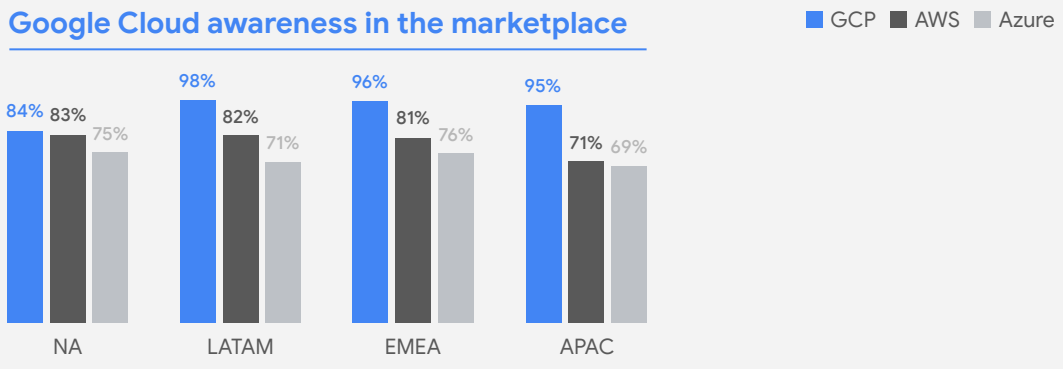
Google Cloud

Make tomorrow's breakthroughs today with Google Cloud, now the most favored platform powering research globally. Scale your projects with the impressive speed, data storage, ML/AI capabilities and processing power of Google Cloud.

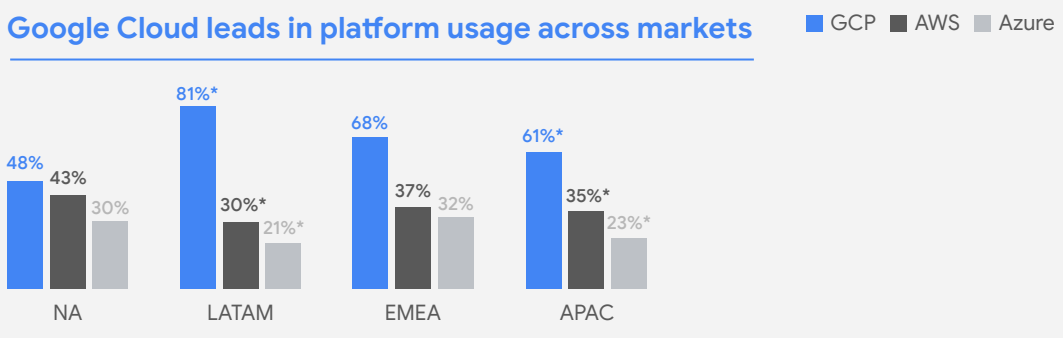
The data speaks for itself when it comes to researchers' awareness of and satisfaction with Google Cloud. Learn why researchers are choosing Google Cloud to accelerate their research with our flexible, innovative, and easy-to-use technology.

Among researchers, Google Cloud has the highest awareness, use, and favorability globally vs. other major cloud vendors.*

Google Cloud awareness in the marketplace



Google Cloud leads in platform usage across markets



Discovering new possibilities with global research

Here is some groundbreaking research made possible on Google Cloud.

- Rubin Observatory is unlocking solar system insights with Google Cloud and ushering in a new era in large-scale scientific computing astronomy workloads
- The Broad Institute replaced its in-house genome sequence analysis with Google Cloud and is processing data more than 400% faster
- Columbia University is building an open-source climate platform to store and analyze the hugely complex datasets of climate sciences
- The University of Colorado migrated their clinical data warehouse to Google Cloud to process more than six million records daily – 93% faster, at a fraction of the cost

"Our team models and forecasts the spatial spread of infectious diseases by quickly analyzing hundreds of terabytes of simulation data. With the help of Google Cloud, we are able to accelerate insights from our epidemic models and better study the evolution of an ongoing outbreak."

– Dr. Matteo Chinazzi,
Senior Research Scientist, Northeastern University

See why researchers around the world say Google Cloud is:

Simple Intuitive Trustworthy

* Surveyed researchers across 33 disciplines covering physical sciences, social sciences, and life sciences.

Google Cloud solutions for research

Google Cloud

Innovative solutions from Google Cloud can bring out the best in researchers, students, and staff. Designed to meet the unique needs of leading researchers, solutions can integrate readily with existing infrastructure. All solutions are available through a predictable pricing model.

RAD Lab enables a secure sandbox for innovation

- Give developers a **flexible environment** to **collect and access data for analysis** with freedom to innovate at their own pace with no cost overruns.
- Work in an **open-source environment** that runs on the cloud for faster deployment with no hardware investment or vendor lock-in.
- **Integrate Google Cloud and analytic tools** like BigQuery, Looker, Vertex AI, and pre-built notebook templates.

High performance computing (HPC) offers speed and scalability

- **Cut the queues** by gaining dynamic access to storage, computing, and machine learning services and leveraging preemptible virtual machines.
- **Integrate with the most common schedulers** for fully managed containerization.
- Provision an **"HPC-in-a-box"** environment for a simple, user-friendly implementation that provides the power of Google Cloud.

Life science solutions drive breakthroughs

- Use Cloud Healthcare APIs to **accelerate your healthcare solution development** with fully managed, enterprise-scale HL7® FHIR®, HL7® v2, and DICOM® APIs.
- Leverage the Healthcare Natural Language API to **derive insights from medical text** and the Life Sciences API to **process bioinformatics data** at lower cost.
- **Ingest, store, and aggregate all types of healthcare data in its original format.** Leverage Cloud Healthcare API's NLP to **de-identify your data** for analytics and artificial intelligence applications.

Security and professional services support compliance and security requirements

- **Automate security and data governance** to ensure guardrails and monitoring that's mapped to compliance requirements including HIPAA, FedRAMP, NIST, and more.
- **Automate research sandbox provisioning** to provide maximum control and governance granularity for data ingestion, processing, and sharing with internal and external collaborators.
- Enrich logs with VirusTotal, which **investigates petabytes of data for real-time threats and compliance risks** in an easy and **cost-effective** manner.