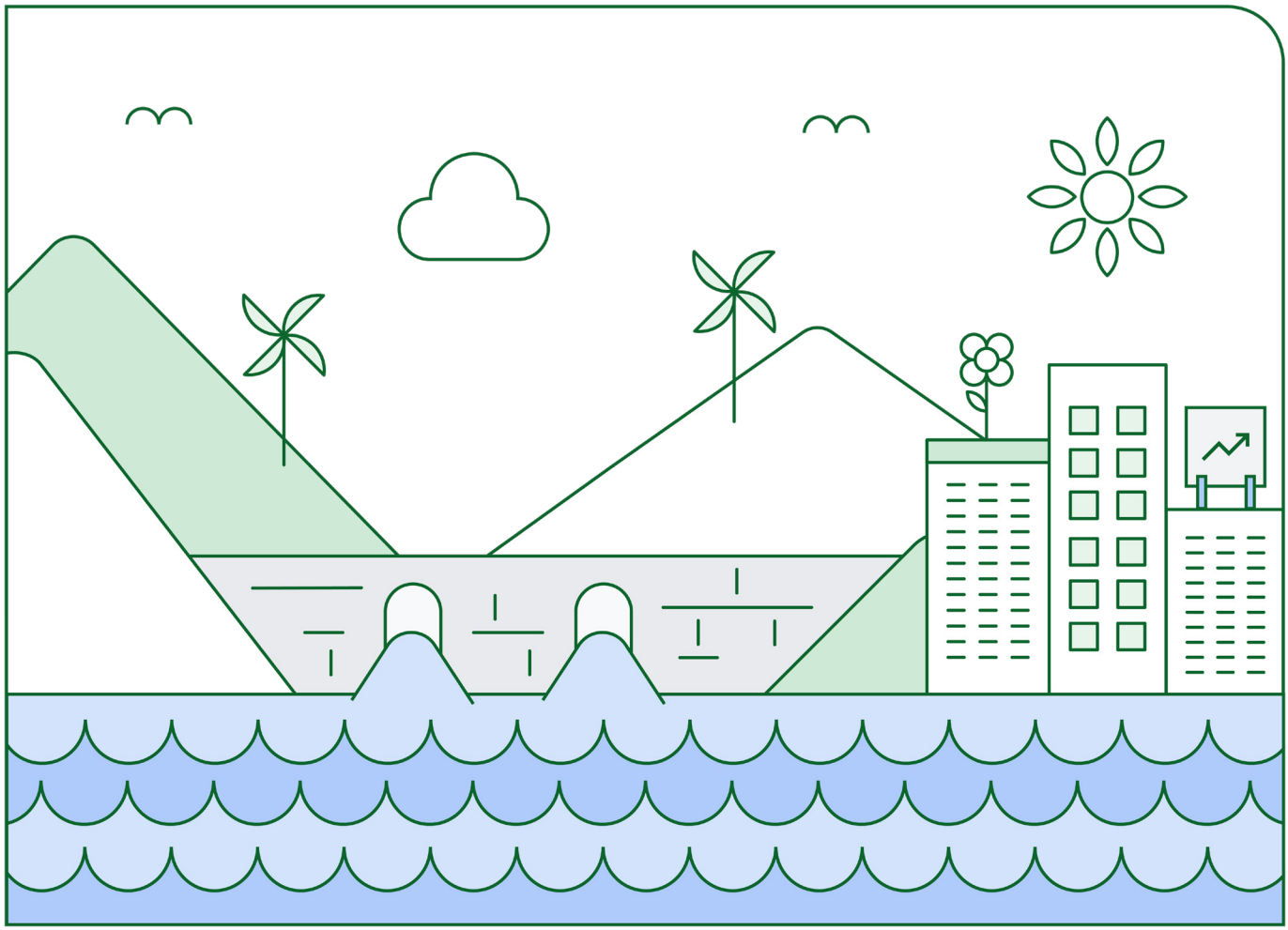
Google Cloud Sustainability Survey 2023



Google Cloud

Executive summary

In today's rapidly changing business landscape, executives are increasingly realizing the importance of sustainability for their organizations. However, navigating economic headwinds while maintaining sustainable practices is proving difficult. That is a key finding in a recent survey of 1,476 executives by The Harris Poll on behalf of Google Cloud. While almost every organization still has at least one sustainability program in place, executives admitted cutting corners in sustainability efforts and recognized year over year declines in programs moving into implementation phases.

In addition to economic headwinds, executives pointed to challenges in accurately measuring Environmental, Social and Governance (ESG) impact and turning ambition into actions. Without measurement, corporate greenwashing and green hypocrisy remained pervasive concerns among this year's respondents, with many executives admitting to overstating — or inaccurately representing — their sustainability activities.

Despite headwinds, there's reason to be optimistic that organizations will continue to operationalize and prioritize sustainability. Ambition to do more when it comes to sustainability remains high among executives, and they point to accountability and technology investment as key levers to unblock progress.

Methodology

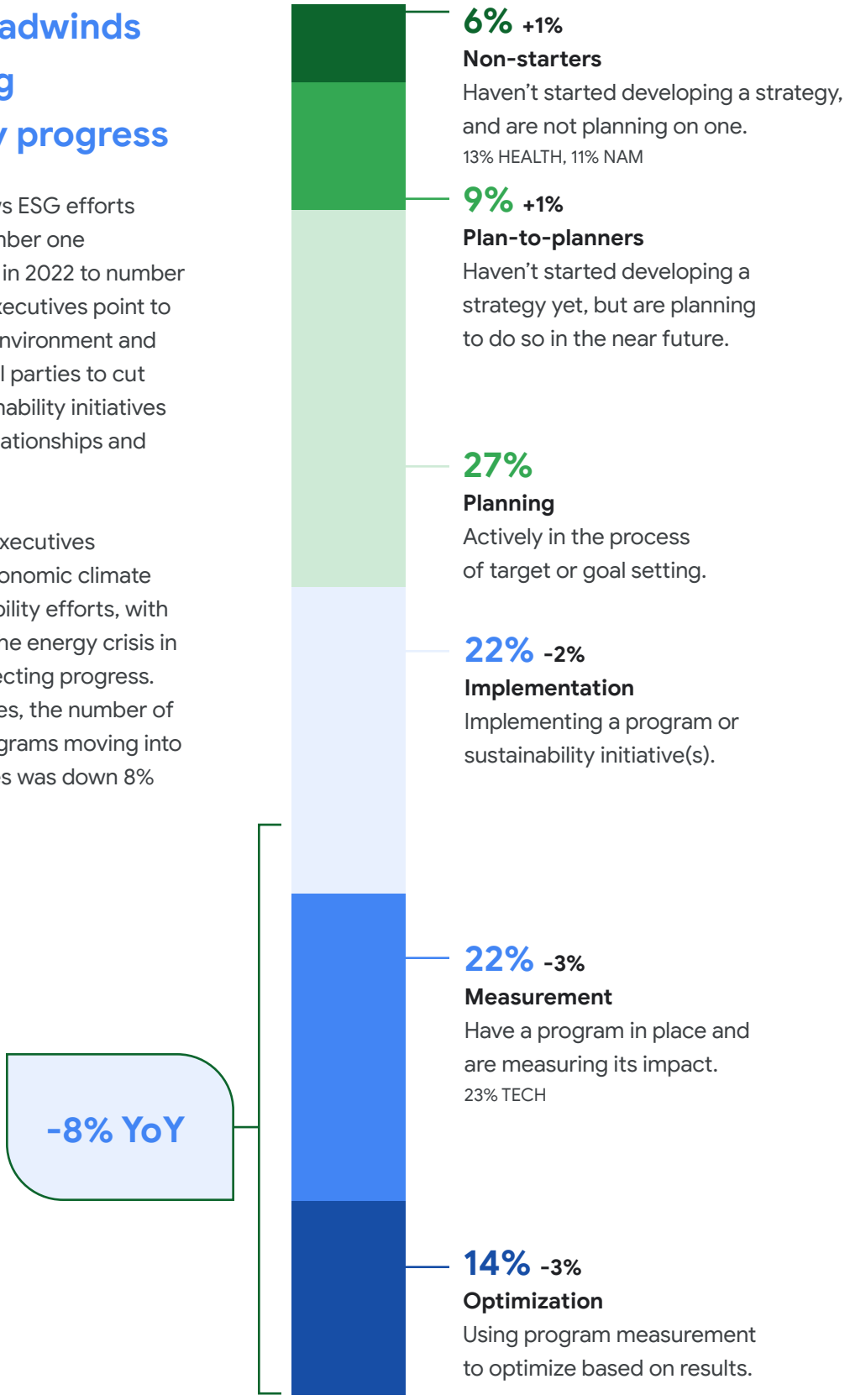
The Harris Poll conducted this research on behalf of Google Cloud from January 12, 2023, to January 23, 2023, surveying 1,476 VP and C-Suite executives across across the Americas, EMEA and Apac: US, UK, Canada, United Arab States, Singapore, Taiwan, Japan, Brazil, Mexico, Sweden, Spain, Germany, Italy, France, Thailand, Netherlands.

Executives worked across the following sectors: Financial services; Retail/ CPHealthcare or Life Sciences; Manufacturing or Heavy Industry; Technology, Telecommunication, Media, Entertainment, or Gaming; Supply Chain and Logistics. A global post weight was applied to ensure equal weight of each country in the global total.

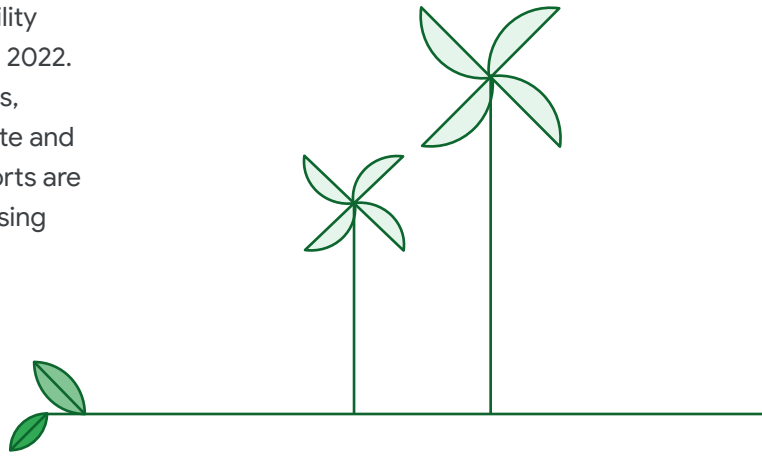
Economic headwinds are impacting sustainability progress

This year's study shows ESG efforts dropped from the number one organizational priority in 2022 to number three in 2023. Many executives point to the macroeconomic environment and pressure from external parties to cut corners in their sustainability initiatives and prioritize client relationships and driving revenue.

Almost half (45%) of executives believe the current economic climate is regressing sustainability efforts, with regional impacts like the energy crisis in Europe negatively affecting progress. Facing these challenges, the number of new sustainability programs moving into implementation phases was down 8% from 2022.



Still, nearly all (96%) organizations have at least one sustainability program in place, a percentage that remains unchanged from 2022. Although companies may have started sustainability programs, without reliable data to track progress it's difficult to accelerate and mature these initiatives. Executives remain unsure if their efforts are accurately represented, which leads to hesitations and increasing communication risks.



Programs to advance sustainability initiatives

47%
Implement sustainable office policies.

45%
Plan to reduce energy / migrate to renewable energy.

44%
Support green vendors.

43%
Sustainable mindset in product / service design.

42%
Make an effort to offset carbon footprint.

42%
Run a recycling program.

37%
Encourage sustainable transportation.

33% **-4% YoY**
Donate services to green intiatives.
47% MEDIA

27% **-4% YoY**
Donate funds to green initiatives.

26%
Volunteer program including green initatives.
36% LATAM

4%
N/A — Do not have any sustainability programs.

96%
Have at least one program in place to advance sustainability.

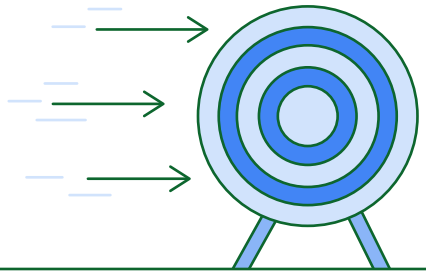
Lack of measurement continues to stall efforts and leads to greenwashing

Companies are struggling to move sustainability initiatives forward, with 72% of the respondents to the survey agreeing that while everyone says they want to advance sustainability efforts, no one knows how to actually do it. This confused sentiment is up 7% since 2022. Executives are challenged to focus sustainability programs for the greatest benefit and measure their impact effectively.

Understanding where and how to impact your operations sustainably requires data, but executives lack the systems that could deliver those insights in a way to make them actionable. Almost two-thirds (65%) agree with the statement, *"Since my organization doesn't have a system in place to measure sustainability initiatives, I don't feel empowered to make decisions or advance commitments on sustainability."*

Four out of five executives believe that when companies are unable to effectively measure sustainability efforts, they are challenged to communicate authentically about sustainability progress, and they overstate their efforts. Almost three out of four executives (72%) believe that most organizations in their industry would actually be caught greenwashing if investigated thoroughly. When asked about their own companies' claims, 59% of executives admitted to overstating — or inaccurately representing — their own sustainability activities.

Executives don't admit this lightly. Respondents overwhelmingly agree that greenwashing should have harsher consequences (83%) and that sustainability should be more than a PR stunt (88%). Why are so many organizations willing to risk greenwashing while understanding the consequences?

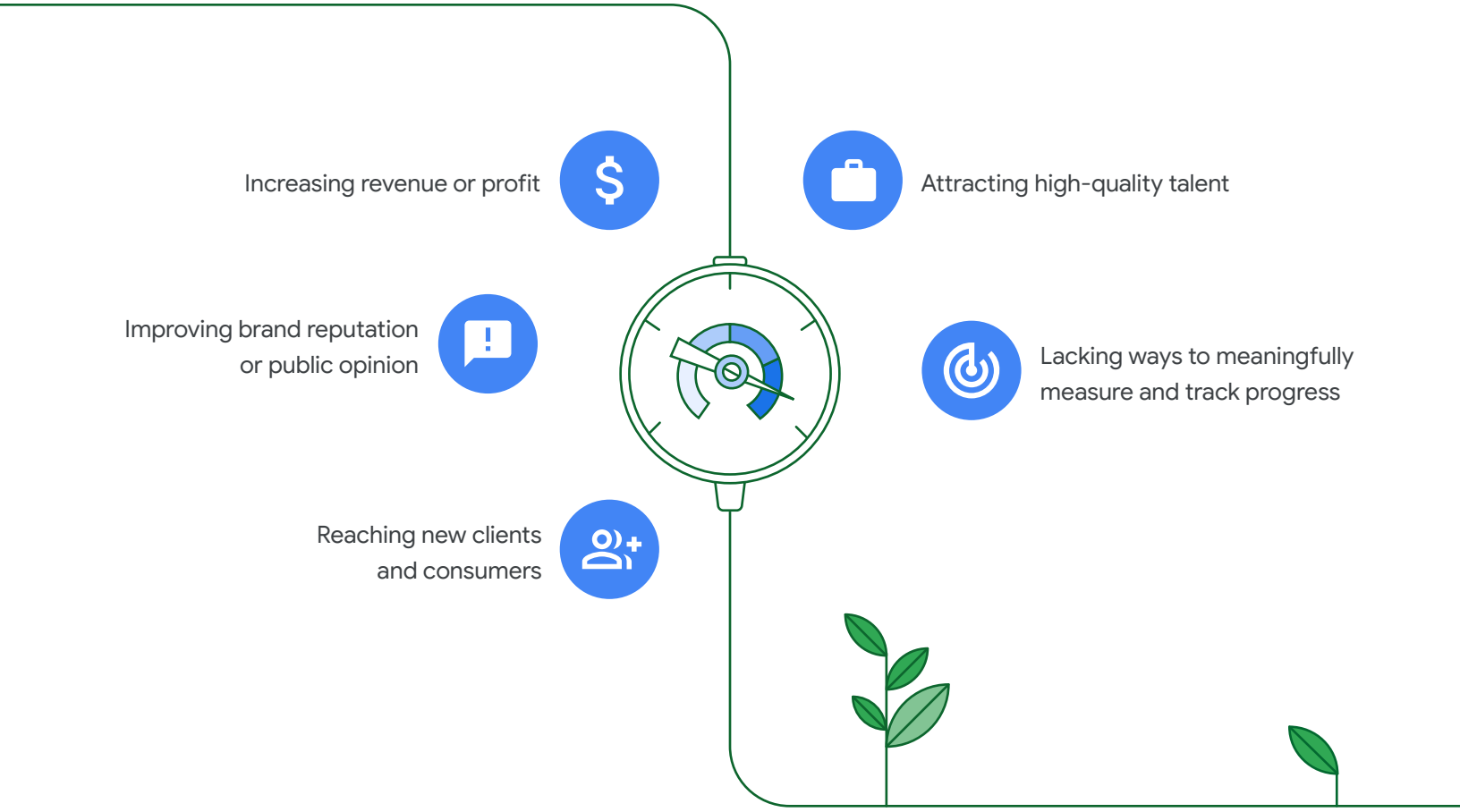


Nine in ten organizations are talking publicly about sustainability commitments, but only 58% are moving programs into the implementation phase and even fewer (22%) are measuring against targets.

Pressure to overstate efforts

Almost nine out of ten (85%) executives are noticing that consumers or clients are becoming more vocal about their preference of engaging with sustainable brands. Leaders are feeling the urgency to take advantage of change in client, buyer or investor preferences toward more sustainable products.

The top five reasons executives feel pressure to overstate efforts are:

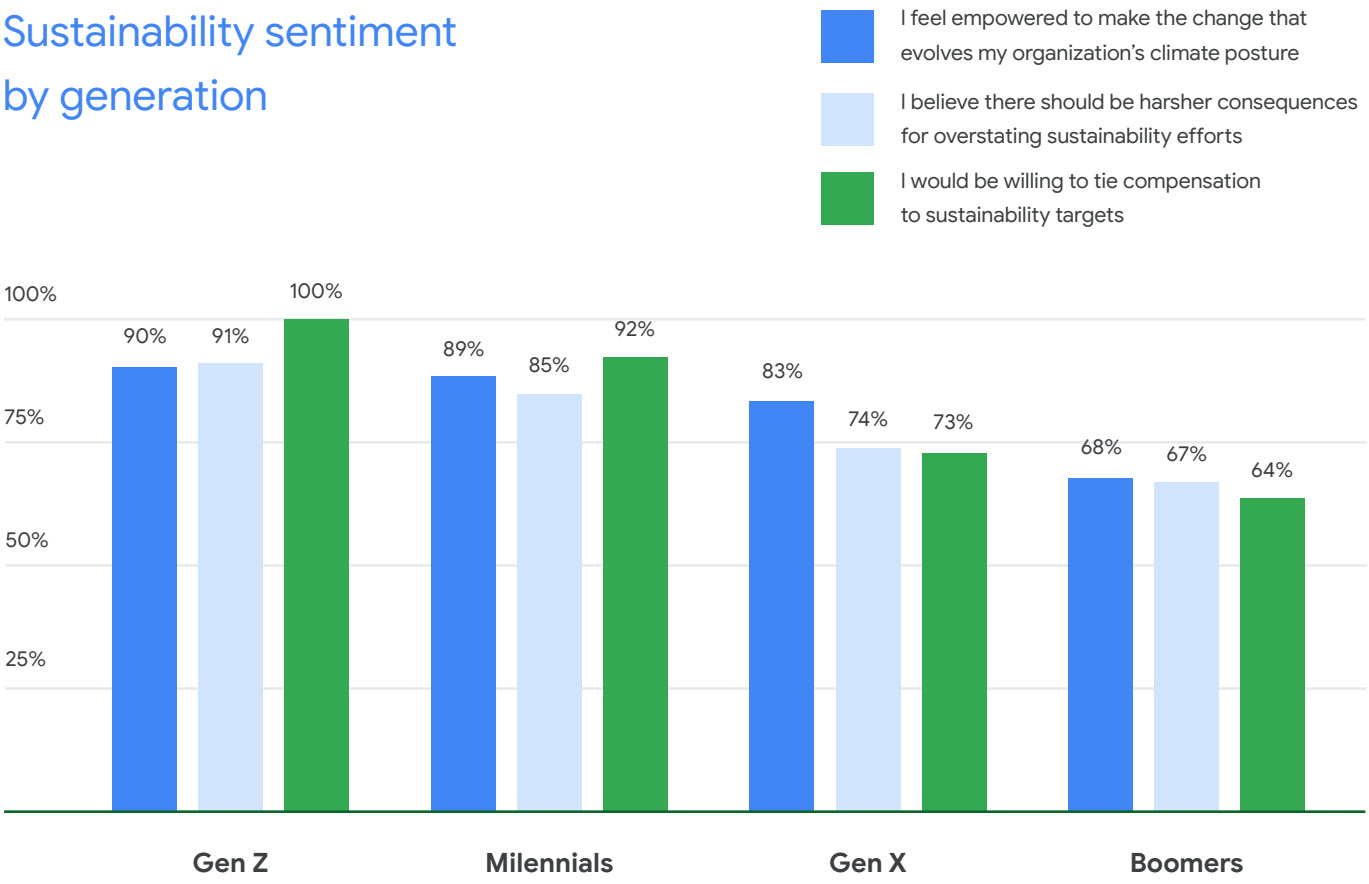


Until more organizations implement tools which empower executives to accurately measure, report and track performance, authentic communication will suffer. The large gap between the number of organizations communicating publicly versus measuring against sustainability targets is ripe for greenwashing.

A generational divide in sustainability enthusiasm

Younger generations have experienced the consequences of climate change, such as natural disasters or loss of biodiversity, and have grown up in a world where climate change is a prominent issue. When asked questions about personal motivation for sustainability efforts and the negative consequences of greenwashing, a generational divide among executives emerged:

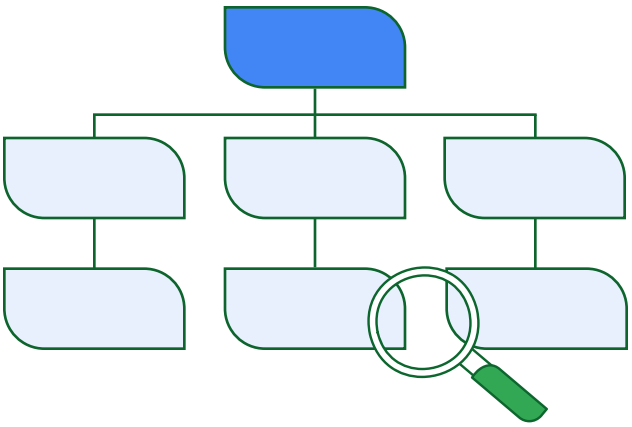
Sustainability sentiment by generation



Team building and technology are key levers to unblock progress

Leaders strive to overcome stagnant programs and increase accountability for sustainability targets. They cite technology and operational investment as top pathways to sustainable future growth, but cost and lack of investment are critical barriers. They wish for better systems to track their progress, with 87% of respondents looking to incorporate better measurement into their organizations to help make more accurate targets.

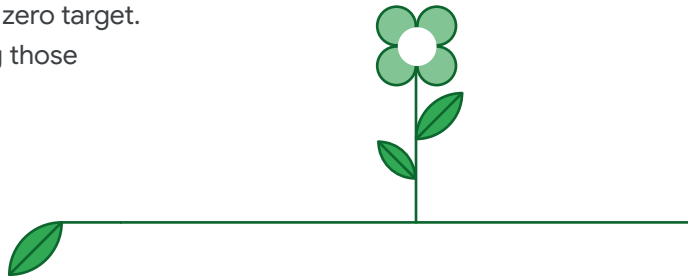
In addition to accurate data, achieving an organization's sustainability goals requires strong internal teams and structure. The research shows that many executives are also grappling with complex behind-the-scenes logistics of who makes sustainability-related decisions within their company. But what does "better" look like?



Eighty four percent of executives believe their sustainability initiatives would be more effective if they had a better structure with clear accountability.

Seven in ten executives told us, "The parties responsible for sustainability-related decisions in my organization aren't fully connected or aligned." Clearly, a central governance model would help. Unsurprisingly a dedicated leader who would govern sustainability initiatives is the number one action to help advance sustainability efforts. Those leaders will need strong team building skills, as executives believe a multitude of skills are needed to advance organizational sustainability — from data analysis to sustainability knowledge. At the moment these needs aren't being met as a majority (58%) say, "I don't have access to the talent that could meaningfully advance sustainability in my organization," presenting an opportunity for sustainability skilled job seekers.

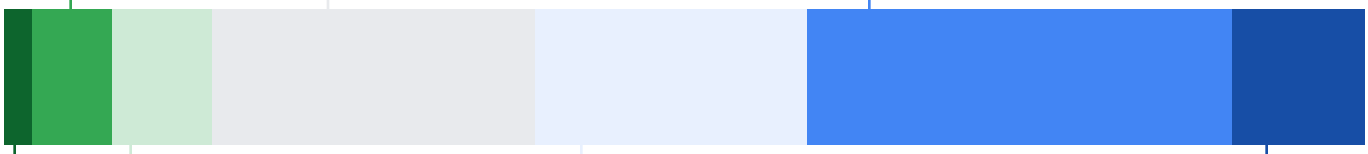
Ultimately, nearly nine in ten (86%) executives believe they are empowered to make the change that evolves their organization's climate posture. This is good news as they've clearly been pushing their organizations to set ambitious goals, with nearly 91% of organizations pursuing or have already met a net zero target. But with only 41% of respondents either on track or already meeting those targets, there's more work to be done.



24%
We have discussed this goal internally and plan to pursue it, but aren't ready to make any firm commitments publicly.
33% HEALTH

31%
We have made a public pledge to become a net zero emissions organization by a targeted deadline and are on track to become one.
45% MEDIA, 37% TECH

6%
We have decided not to pursue this for now.



7%
We are unsure what this would entail, but are interested in pursuing it.

20%
We have made a public pledge to become a net zero emissions organization by a targeted deadline **but are falling behind our targets.**

10%
We have already met our goal or target of becoming a net zero emissions organization.
17% FIN. SERV., 15% TECH

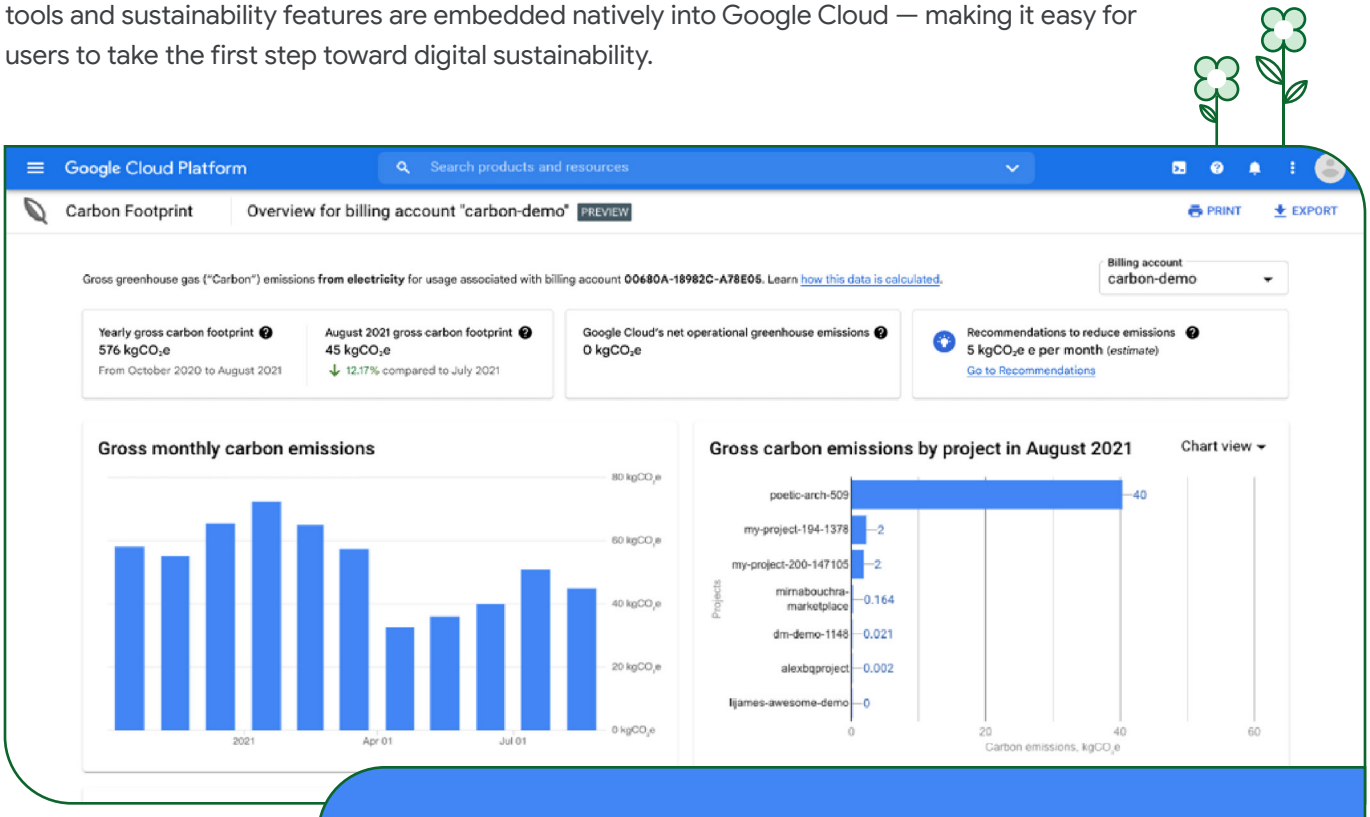
2%
We dont know what this means.

41%
of organizations are either on track, or have achieved Net Zero.

Google Cloud can help accelerate a sustainable business transformation

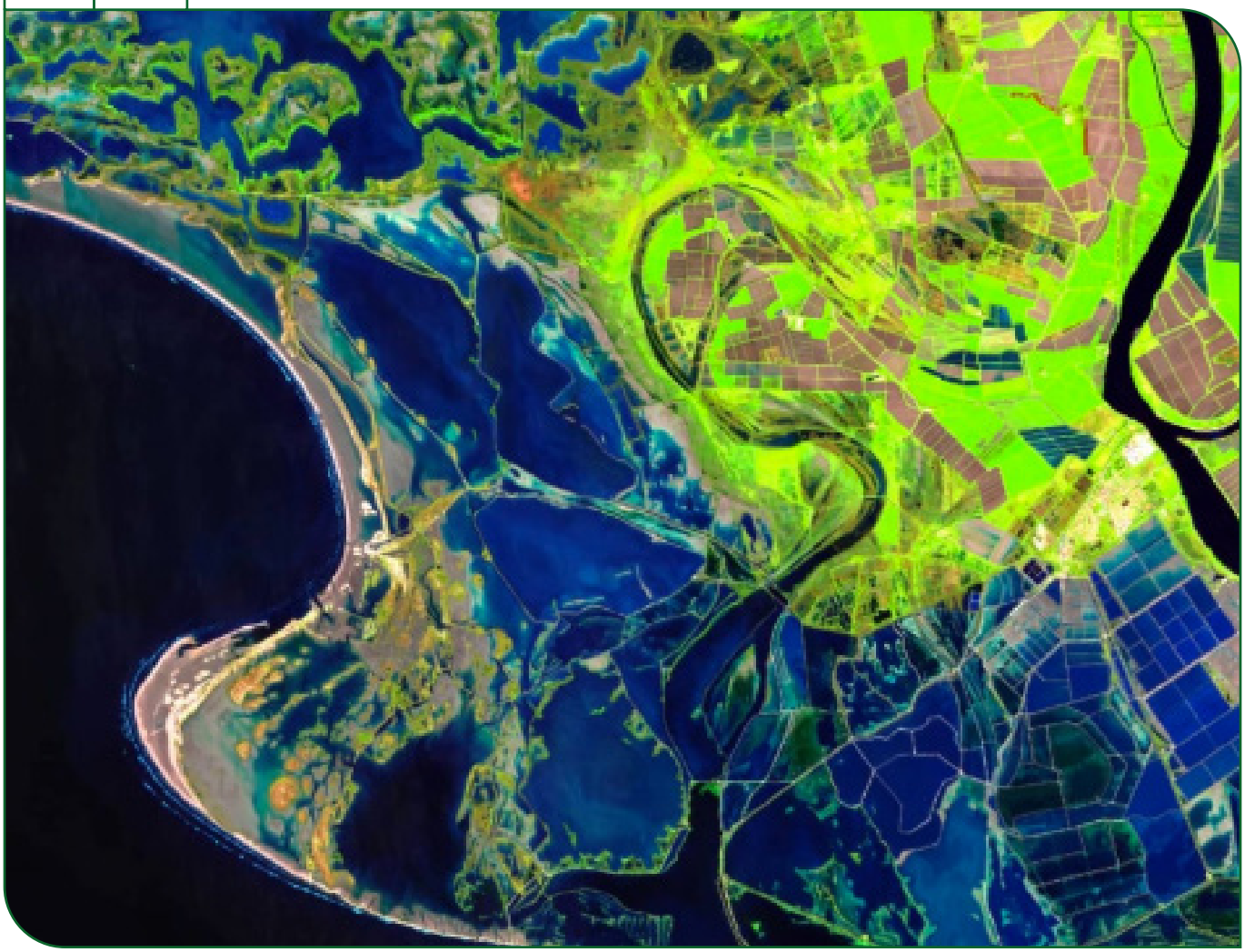
At Google Cloud we're helping our customers decarbonize their digital applications and increase their resilience to the effects of climate change. This year's survey again highlighted the need for better measurement and data to inform decision making. Cloud technology can help developers and the C-suite identify steps you can take today to reduce environmental impact.

At Google Cloud we're making it easier for our customers to identify opportunities to lower carbon emissions at scale. Our Carbon Footprint tool delivers a complete picture of Scope 1, 2, and 3 cloud emissions associated with your Google Cloud usage. You can break down data by project, service, or region and take concrete actions to help lower carbon emissions and make more sustainable decisions. Today, we're also using AI to make recommendations to clean up your cloud environment and reduce emissions from Active Assist. Intelligent cloud optimization tools and sustainability features are embedded natively into Google Cloud — making it easy for users to take the first step toward digital sustainability.

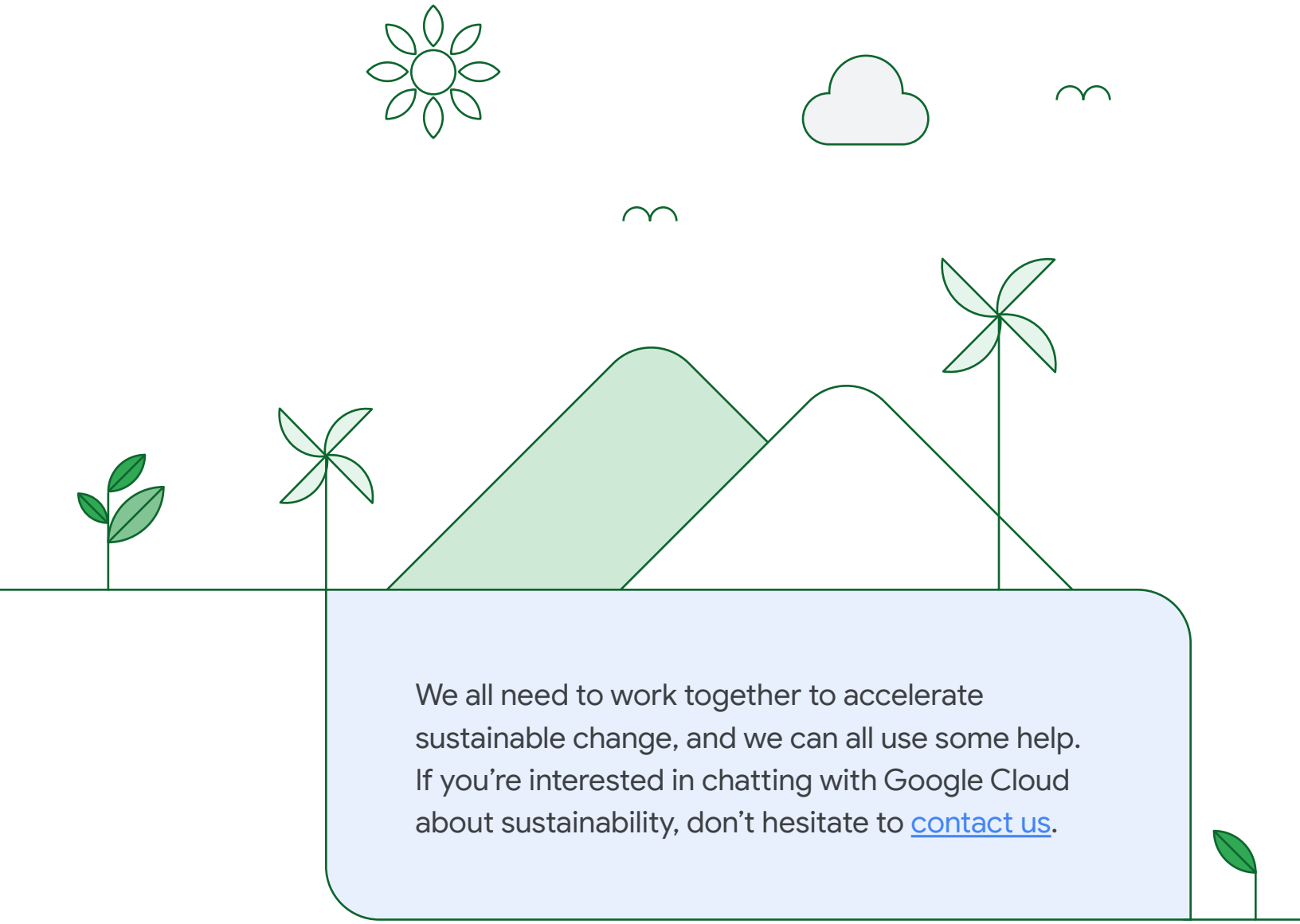


Carbon Footprint provides every Google Cloud user with the carbon emissions associated with their usage.

Organizations often lack the insights they need to help inform what they choose to focus on. The ability to observe changes in the natural environment is key to measuring the true impact of your operations. Google Earth Engine is a leading technology for planetary-scale environmental monitoring that combines data from hundreds of satellites and other sources with geospatial cloud computing resources to show timely, accurate, high-resolution and decision-relevant insights about the state of the world's habitats and ecosystems — and how they're changing over time. Earth Engine is generally available to all Google Cloud customers, and is already helping numerous organizations gain visibility into their supply chain and better understand their climate risk exposure.



Caption: Earth Engine provides 70+ petabytes of analysis-ready geospatial data



We all need to work together to accelerate sustainable change, and we can all use some help. If you're interested in chatting with Google Cloud about sustainability, don't hesitate to contact us.

Google Cloud

Table name: carbon_footprint **Last updated**: Nov 21, 2024 3:26 AM

usage_month	billing_account_	project.number	project.id	service.id	service.descripi	location.locatio	location.region	carbon_footprir	carbon_footprir	carbon_footprir	carbon_footprir	carbon_footprir	carbon_footprir	carbon_footprir	carbon_offsets_	carbon_model_version
2024/5/1	01D7DF-B02E0C-F	1031311579769	cs-uat-demo	5490-F7B7-8DF6	Cloud Logging	us		0.000109634	0.0274574	0.0105166	0.021431549		0.032057784	0.048998583		10
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2024/6/1	01D7DF-B02E0C-F	1031311579769	cs-uat-demo	6F81-5844-456A	Compute Engine	asia-east1	asia-east1	0.063549552	19.8011339	24.98395872	12.4228166		37.47032487	32.28750004		10
2024/6/1	01D7DF-B02E0C-F	307822392326	cs-production-360	6F81-5844-456A	Compute Engine	asia-east1	asia-east1	0.800816767	249.8623123	315.2007744	156.5455535		472.5471447	407.2086826		10
2024/6/1	01D7DF-B02E0C-F	712856151856	cs-gpt-390407	6F81-5844-456A	Compute Engine	asia-east1	asia-east1	0.030312967	9.530794686	11.95342799	5.925650332		17.90939128	15.48675798		10
2024/6/1	01D7DF-B02E0C-F	969655011423	chainsea-manage	6F81-5844-456A	Compute Engine	asia-east1	asia-east1	0.062617216	19.55027682	24.65421115	12.24056138		36.95738976	31.85345542		10
2024/6/1	01D7DF-B02E0C-F	164182882539	cs-whisper	6F81-5844-456A	Compute Engine	asia-east1	asia-east1	0.003015291	0.948205278	1.176199306	0.589436153		1.76865075	1.540656722		10
2024/6/1	01D7DF-B02E0C-F	307822392326	cs-production-360	95FF-2EF5-5EA1	Cloud Storage	asia-east1	asia-east1	0.003153535	1.006171497	1.621569077	0.61646057		2.241183182	1.625785602		10
2024/6/1	01D7DF-B02E0C-F	164182882539	cs-whisper	6F81-5844-456A	Compute Engine	us-central1	us-central1	1.11964E-05	0.003667446	0.00088323	0.002188708		0.003083135	0.005867351		10
2024/6/1	01D7DF-B02E0C-F	712856151856	cs-gpt-390407	A1E8-BE35-7EBC	Cloud Pub/Sub	us-central1	us-central1	1.05134E-10	3.41127E-08	9.37235E-09	2.05518E-08		3.00293E-08	5.47696E-08		10
2024/6/1	01D7DF-B02E0C-F	307822392326	cs-production-360	A1E8-BE35-7EBC	Cloud Pub/Sub	us-central1	us-central1	2.98337E-10	9.10039E-08	2.77264E-08	5.83196E-08		8.63444E-08	1.49622E-07		10
2024/6/1	01D7DF-B02E0C-F	307822392326	cs-production-360	A1E8-BE35-7EBC	Cloud Pub/Sub	us-central2	us-central2	2.18764E-10	7.01634E-08	2.12269E-08	4.27644E-08		6.42101E-08	1.13147E-07		10
2024/6/1	01D7DF-B02E0C-F	712856151856	cs-gpt-390407	A1E8-BE35-7EBC	Cloud Pub/Sub	us-central2	us-central2	4.04997E-10	1.20542E-07	4.02452E-08	7.91697E-08		1.1982E-07	2.00116E-07		10
2024/6/1	01D7DF-B02E0C-F	1031311579769	cs-uat-demo	58CD-E7C3-72CA	Cloud Monitoring	asia-northeast1	asia-northeast1	4.8294E-09	2.47311E-06	2.67328E-06	9.44062E-07		3.62217E-06	3.422E-06		10
2024/6/1	01D7DF-B02E0C-F	307822392326	cs-production-360	58CD-E7C3-72CA	Cloud Monitoring	asia-northeast1	asia-northeast1	2.44706E-08	1.17343E-05	1.29963E-05	4.78357E-06		1.78043E-05	1.65424E-05		10
2024/6/1	01D7DF-B02E0C-F	712856151856	cs-gpt-390407	6F81-5844-456A	Compute Engine	asia-southeast1	asia-southeast1	0.014744688	3.820471413	4.028497982	2.882326349		6.925569019	6.717542449		10
2024/6/1	01D7DF-B02E0C-F	1031311579769	cs-uat-demo	6F81-5844-456A	Compute Engine	asia-southeast1	asia-southeast1	0.092169084	23.75846798	25.1370664	18.01743038		43.24666586	41.86806744		10
2024/6/1	01D7DF-B02E0C-F	307822392326	cs-production-360	95FF-2EF5-5EA1	Cloud Storage	asia-southeast1	asia-southeast1	3.62034E-05	0.00957181	0.012917591	0.007077118		0.020030913	0.016685131		10
2024/7/1	01D7DF-B02E0C-F	164182882539	cs-whisper	5490-F7B7-8DF6	Cloud Logging	us		1.1424E-08	4.0342E-06	1.66405E-06	2.83944E-06		4.51492E-06	6.88507E-06		11
2024/7/1	01D7DF-B02E0C-F	1031311579769	cs-uat-demo	5490-F7B7-8DF6	Cloud Logging	us		0.000166873	0.060886514	0.024394003	0.041476452		0.066037328	0.102529838		11
2024/7/1	01D7DF-B02E0C-F	712856151856	cs-gpt-390407	5490-F7B7-8DF6	Cloud Logging	us		5.43793E-09	2.00398E-06	7.87639E-07	1.3516E-06		2.14468E-06	3.36102E-06		11
2024/7/1	01D7DF-B02E0C-F	969655011423	chainsea-manage	5490-F7B7-8DF6	Cloud Logging	us		2.03826E-09	7.65715E-07	2.96803E-07	5.06612E-07		8.05453E-07	1.27437E-06		11
2024/7/1	01D7DF-B02E0C-F	307822392326	cs-production-360	5490-F7B7-8DF6	Cloud Logging	us		3.29199E-06	0.001213407	0.000478609	0.000818227		0.001300127	0.002034926		11
2024/7/1	01D7DF-B02E0C-F	301968501968	cs-qsearch	5490-F7B7-8DF6	Cloud Logging	us		1.66648E-09	6.19711E-07	2.41377E-07	4.14206E-07		6.57249E-07	1.03558E-06		11
2024/7/1	01D7DF-B02E0C-F	969655011423	chainsea-manage	6F81-5844-456A	Compute Engine	asia		0.000111945	0.05483959	0.060729858	0.02782414		0.088665943	0.082775675		11
2024/7/1	01D7DF-B02E0C-F	1031311579769	cs-uat-demo	6F81-5844-456A	Compute Engine	asia		7.39737E-06	0.003563435	0.003986551	0.001838624		0.005832573	0.005409457		11
2024/7/1	01D7DF-B02E0C-F	307822392326	cs-production-360	6F81-5844-456A	Compute Engine	asia		0.001517192	0.702692843	0.785266532	0.377099697		1.163883421	1.081309732		11
2024/7/1	01D7DF-B02E0C-F	307822392326	cs-production-360	95FF-2EF5-5EA1	Cloud Storage	asia		5.5099E-10	2.62013E-07	3.67715E-07	1.36949E-07		5.05215E-07	3.99513E-07		11
2024/7/1	01D7DF-B02E0C-F	307822392326	cs-production-360	58CD-E7C3-72CA	Cloud Monitoring	us-west1	us-west1	1.77045E-09	9.98762E-08	1.75554E-07	4.40048E-07		6.17372E-07	5.41695E-07		11
2024/7/1	01D7DF-B02E0C-F	1031311579769	cs-uat-demo	58CD-E7C3-72CA	Cloud Monitoring	us-west1	us-west1	1.51993E-08	9.64462E-07	1.5165E-06	3.77781E-06		5.30951E-06	4.75747E-06		11
2024/7/1	01D7DF-B02E0C-F	307822392326	cs-production-360	24E6-581D-38E5	BigQuery	asia-east1	asia-east1	1.47395E-11	6.2151E-09	8.27469E-09	3.66353E-09		1.1953E-08	9.89337E-09		11
2024/7/1	01D7DF-B02E0C-F	1031311579769	cs-uat-demo	58CD-E7C3-72CA	Cloud Monitoring	asia-east1	asia-east1	0.001127808	0.526171292	0.685256192	0.280317995		0.966701995	0.807617095		11
2024/7/1	01D7DF-B02E0C-F	307822392326	cs-production-360	58CD-E7C3-72CA	Cloud Monitoring	asia-east1	asia-east1	0.000934185	0.436355831	0.567445988	0.232192815		0.800572989	0.669482831		11
2024/7/1	01D7DF-B02E0C-F	301968501968	cs-qsearch	6F81-5844-456A	Compute Engine	asia-east1	asia-east1	0.02265595	9.306749507	12.0258051	5.631162068		17.67962312	14.96056752		11
2024/7/1	01D7DF-B02E0C-F	1031311579769	cs-uat-demo	6F81-5844-456A	Compute Engine	asia-east1	asia-east1	0.061602943	25.60575488	32.854504	15.31148152		48.22758846	40.97883934		11
2024/7/1	01D7DF-B02E0C-F	712856151856	cs-gpt-390407	6F81-5844-456A	Compute Engine	asia-east1	asia-east1	0.019375309	8.02272014	10.32602538	4.815755162		15.16115585	12.85785061		11
2024/7/1	01D7DF-B02E0C-F	969655011423	chainsea-manage	6F81-5844-456A	Compute Engine	asia-east1	asia-east1	0.053973932	22.3907886	28.76580354	13.41528223		42.23505969	35.86004476		11
2024/7/1	01D7DF-B02E0C-F	307822392326	cs-production-360	6F81-5844-456A	Compute Engine	asia-east1	asia-east1	0.692996325	287.0203867	369.0428325	172.2450252		541.9808541	459.9584082		11
2024/7/1	01D7DF-B02E0C-F	164182882539	cs-whisper	6F81-5844-456A	Compute Engine	asia-east1	asia-east1	0.027417356	11.36632116	14.60536649	6.814614921		21.44739877	18.20835344		11
2024/7/1	01D7DF-B02E0C-F	307822392326	cs-production-360	95FF-2EF5-5EA1	Cloud Storage	asia-east1	asia-east1	0.002508579	1.061695754	1.692124492	0.623510259		2.318143331	1.687714593		11

2024/7/1	01D7DF-B02E0C-F	307822392326	cs-production-360	A1E8-BE35-7EBC	Cloud Pub/Sub	us-central2	us-central2	2.44026E-10	1.15061E-07	3.79523E-08	6.0653E-08	9.88493E-08	1.75958E-07	11
2024/7/1	01D7DF-B02E0C-F	712856151856	cs-gpt-390407	A1E8-BE35-7EBC	Cloud Pub/Sub	us-central2	us-central2	2.4064E-10	1.13252E-07	3.74298E-08	5.98113E-08	9.74818E-08	1.73304E-07	11
2024/7/1	01D7DF-B02E0C-F	307822392326	cs-production-360	58CD-E7C3-72CA	Cloud Monitoring	asia-northeast1	asia-northeast1	1.92787E-09	1.23703E-06	1.32486E-06	4.79173E-07	1.80596E-06	1.71813E-06	11
2024/7/1	01D7DF-B02E0C-F	1031311579769	cs-uat-demo	58CD-E7C3-72CA	Cloud Monitoring	asia-southeast1	asia-southeast1	1.75511E-09	6.44939E-07	7.12081E-07	4.36234E-07	1.15007E-06	1.08293E-06	11
2024/7/1	01D7DF-B02E0C-F	712856151856	cs-gpt-390407	6F81-5844-456A	Compute Engine	asia-southeast1	asia-southeast1	0.010769615	3.616617207	3.861529112	2.676799947	6.549098674	6.304186769	11
2024/7/1	01D7DF-B02E0C-F	1031311579769	cs-uat-demo	6F81-5844-456A	Compute Engine	asia-southeast1	asia-southeast1	0.131684047	43.56993609	46.88846481	32.73021978	79.75036864	76.43183992	11
2024/7/1	01D7DF-B02E0C-F	307822392326	cs-production-360	95FF-2EF5-5EA1	Cloud Storage	asia-southeast1	asia-southeast1	2.84592E-05	0.009652023	0.012881777	0.007073572	0.019983809	0.016754054	11
2024/8/1	01D7DF-B02E0C-F	1031311579769	cs-uat-demo	5490-F7B7-8DF6	Cloud Logging	us		9.77005E-05	0.034179518	0.013911374	0.024283575	0.03829265	0.058560794	11
2024/8/1	01D7DF-B02E0C-F	301968501968	cs-qsearch	5490-F7B7-8DF6	Cloud Logging	us		4.88443E-10	1.71383E-07	6.97293E-08	1.21403E-07	1.91621E-07	2.93274E-07	11
2024/8/1	01D7DF-B02E0C-F	712856151856	cs-gpt-390407	5490-F7B7-8DF6	Cloud Logging	us		1.97141E-07	7.20426E-05	2.76865E-05	4.89996E-05	7.68833E-05	0.000121239	11
2024/8/1	01D7DF-B02E0C-F	969655011423	chainsea-manage	5490-F7B7-8DF6	Cloud Logging	us		1.00519E-09	3.53604E-07	1.44151E-07	2.49841E-07	3.94997E-07	6.04451E-07	11
2024/8/1	01D7DF-B02E0C-F	307822392326	cs-production-360	5490-F7B7-8DF6	Cloud Logging	us		3.3653E-06	0.001179351	0.000480305	0.000836449	0.001320119	0.002019165	11
2024/8/1	01D7DF-B02E0C-F	164182882539	cs-whisper	5490-F7B7-8DF6	Cloud Logging	us		9.48661E-09	3.48567E-06	1.3542E-06	2.35791E-06	3.7216E-06	5.85307E-06	11
2024/8/1	01D7DF-B02E0C-F	307822392326	cs-production-360	95FF-2EF5-5EA1	Cloud Storage	asia		1.07208E-09	4.9362E-07	7.05876E-07	2.66467E-07	9.73415E-07	7.61159E-07	11
2024/8/1	01D7DF-B02E0C-F	1031311579769	cs-uat-demo	6F81-5844-456A	Compute Engine	asia		1.23942E-05	0.005576477	0.006283085	0.003080587	0.009376067	0.008669458	11
2024/8/1	01D7DF-B02E0C-F	969655011423	chainsea-manage	6F81-5844-456A	Compute Engine	asia		5.03135E-05	0.024067192	0.026879429	0.012505468	0.039435211	0.036622973	11
2024/8/1	01D7DF-B02E0C-F	307822392326	cs-production-360	6F81-5844-456A	Compute Engine	asia		0.0014515	0.661646436	0.741394743	0.360771887	1.10361813	1.023869824	11
2024/8/1	01D7DF-B02E0C-F	307822392326	cs-production-360	24E6-581D-38E5	BigQuery	asia-east1	asia-east1	2.649E-11	1.14489E-08	1.55449E-08	6.58411E-09	2.21555E-08	1.80595E-08	11
2024/8/1	01D7DF-B02E0C-F	1031311579769	cs-uat-demo	8B5D-EF7D-EB12	Cloud Build	asia-east1	asia-east1	9.8627E-07	0.000451734	0.000500182	0.000245139	0.000746307	0.000697858	11
2024/8/1	01D7DF-B02E0C-F	307822392326	cs-production-360	95FF-2EF5-5EA1	Cloud Storage	asia-east1	asia-east1	0.002502315	1.08859421	1.694593966	0.621953345	2.319049626	1.713049871	11
2024/8/1	01D7DF-B02E0C-F	1031311579769	cs-uat-demo	95FF-2EF5-5EA1	Cloud Storage	asia-east1	asia-east1	5.85526E-06	0.002562647	0.003981766	0.001455332	0.005442953	0.004023835	11
2024/8/1	01D7DF-B02E0C-F	969655011423	chainsea-manage	6F81-5844-456A	Compute Engine	asia-east1	asia-east1	0.056946708	23.75163414	30.22209112	14.15416908	44.43320691	37.96274993	11
2024/8/1	01D7DF-B02E0C-F	307822392326	cs-production-360	6F81-5844-456A	Compute Engine	asia-east1	asia-east1	0.727916745	302.8461854	386.1757603	180.9245353	567.8282123	484.4986375	11
2024/8/1	01D7DF-B02E0C-F	1031311579769	cs-uat-demo	6F81-5844-456A	Compute Engine	asia-east1	asia-east1	0.973663064	404.9338019	516.003228	242.0050626	758.9819536	647.9125275	11
2024/8/1	01D7DF-B02E0C-F	164182882539	cs-whisper	6F81-5844-456A	Compute Engine	asia-east1	asia-east1	0.019795575	8.21414438	10.49340877	4.920212602	15.43341694	13.15415256	11
2024/8/1	01D7DF-B02E0C-F	712856151856	cs-gpt-390407	6F81-5844-456A	Compute Engine	asia-east1	asia-east1	0.028766663	11.96380763	15.25420434	7.149986773	22.43295778	19.14256107	11
2024/8/1	01D7DF-B02E0C-F	301968501968	cs-qsearch	6F81-5844-456A	Compute Engine	asia-east1	asia-east1	0.063160319	26.22602558	33.50984564	15.69856913	49.27157509	41.98775503	11
2024/8/1	01D7DF-B02E0C-F	712856151856	cs-gpt-390407	58CD-E7C3-72CA	Cloud Monitoring	asia-east1	asia-east1	0.000222088	0.107225632	0.13305205	0.055200196	0.188474334	0.162647916	11
2024/8/1	01D7DF-B02E0C-F	307822392326	cs-production-360	58CD-E7C3-72CA	Cloud Monitoring	asia-east1	asia-east1	0.000984094	0.463731733	0.598863257	0.244597589	0.844444941	0.709313416	11
2024/8/1	01D7DF-B02E0C-F	1031311579769	cs-uat-demo	58CD-E7C3-72CA	Cloud Monitoring	asia-east1	asia-east1	0.001150985	0.542370591	0.700418695	0.286078669	0.987648349	0.829600245	11
2024/8/1	01D7DF-B02E0C-F	1031311579769	cs-uat-demo	58CD-E7C3-72CA	Cloud Monitoring	asia-south1	asia-south1	1.45696E-08	1.34735E-05	1.47534E-05	3.62129E-06	1.83893E-05	1.71094E-05	11
2024/8/1	01D7DF-B02E0C-F	712856151856	cs-gpt-390407	A1E8-BE35-7EBC	Cloud Pub/Sub	us-central1	us-central1	1.7006E-11	6.77467E-09	2.49245E-09	4.22686E-09	6.73632E-09	1.10185E-08	11
2024/8/1	01D7DF-B02E0C-F	307822392326	cs-production-360	A1E8-BE35-7EBC	Cloud Pub/Sub	us-central1	us-central1	3.44408E-13	1.40632E-10	5.06947E-11	8.56029E-11	1.36642E-10	2.2658E-10	11
2024/8/1	01D7DF-B02E0C-F	1031311579769	cs-uat-demo	6F81-5844-456A	Compute Engine	us-central1	us-central1	8.15956E-08	3.33215E-05	1.04957E-05	2.02807E-05	3.08579E-05	5.36838E-05	11
2024/8/1	01D7DF-B02E0C-F	712856151856	cs-gpt-390407	A1E8-BE35-7EBC	Cloud Pub/Sub	us-central2	us-central2	2.01079E-10	9.68548E-08	3.16893E-08	4.99783E-08	8.18687E-08	1.47034E-07	11
2024/8/1	01D7DF-B02E0C-F	307822392326	cs-production-360	A1E8-BE35-7EBC	Cloud Pub/Sub	us-central2	us-central2	2.17742E-10	1.02622E-07	3.42802E-08	5.41199E-08	8.86179E-08	1.5696E-07	11
2024/8/1	01D7DF-B02E0C-F	307822392326	cs-production-360	58CD-E7C3-72CA	Cloud Monitoring	asia-northeast1	asia-northeast1	2.08059E-08	1.36071E-05	1.44495E-05	5.17133E-06	1.96416E-05	1.87993E-05	11
2024/8/1	01D7DF-B02E0C-F	1031311579769	cs-uat-demo	58CD-E7C3-72CA	Cloud Monitoring	asia-northeast1	asia-northeast1	2.06076E-08	1.37352E-05	1.4391E-05	5.12204E-06	1.95337E-05	1.88778E-05	11
2024/8/1	01D7DF-B02E0C-F	307822392326	cs-production-360	95FF-2EF5-5EA1	Cloud Storage	asia-southeast1	asia-southeast1	2.8409E-05	0.009820343	0.012896415	0.007061082	0.019985906	0.016909835	11
2024/8/1	01D7DF-B02E0C-F	712856151856	cs-gpt-390407	6F81-5844-456A	Compute Engine	asia-southeast1	asia-southeast1	0.012108259	4.075979971	4.301071354	3.009521662	7.322701276	7.097609892	11
2024/8/1	01D7DF-B02E0C-F	1031311579769	cs-uat-demo	6F81-5844-456A	Compute Engine	asia-southeast1	asia-southeast1	0.166168051	54.70956332	58.90598346	41.30125809	100.3734096	96.17698946	11
2024/8/1	01D7DF-B02E0C-F	1031311579769	cs-uat-demo	58CD-E7C3-72CA	Cloud Monitoring	asia-southeast1	asia-southeast1	0.001004059	0.378835146	0.412096294	0.249559946	0.662660298	0.629399151	11
2024/9/1	01D7DF-B02E0C-F	307822392326	cs-production-360	24E6-581D-38E5	BigQuery	asia-east1	asia-east1	3.33697E-11	1.47518E-08	1.98388E-08	8.29406E-09	2.81663E-08	2.30792E-08	11
2024/9/1	01D7DF-B02E0C-F	164182882539	cs-whisper	5490-F7B7-8DF6	Cloud Logging	us		4.00612E-09	1.44012E-06	5.57951E-07	9.95724E-07	1.55768E-06	2.43985E-06	11
2024/9/1	01D7DF-B02E0C-F	307822392326	cs-production-360	5490-F7B7-8DF6	Cloud Logging	us		3.33437E-06	0.001145865	0.000464902	0.000828762	0.001296999	0.001977961	11
2024/9/1	01D7DF-B02E0C-F	301968501968	cs-qsearch	5490-F7B7-8DF6	Cloud Logging	us		3.86401E-10	1.32597E-07	5.3907E-08	9.60404E-08	1.50334E-07	2.29024E-07	11
2024/9/1	01D7DF-B02E0C-F	969655011423	chainsea-manage	5490-F7B7-8DF6	Cloud Logging	us		8.06792E-10	2.71259E-07	1.12273E-07	2.00529E-07	3.13609E-07	4.72594E-07	11
2024/9/1	01D7DF-B02E0C-F	1031311579769	cs-uat-demo	5490-F7B7-8DF6	Cloud Logging	us		5.20584E-05	0.017837225	0.007255026	0.012939176	0.020246261	0.03082846	11
2024/9/1	01D7DF-B02E0C-F	712856151856	cs-gpt-390407	5490-F7B7-8DF6	Cloud Logging	us		6.19079E-07	0.000212402	8.59385E-05	0.000153873	0.00024043	0.000366894	11
2024/9/1	01D7DF-B02E0C-F	969655011423	chainsea-manage	58CD-E7C3-72CA	Cloud Monitoring	us		2.075E-10	9.64608E-08	2.68902E-08	5.15744E-08	7.86721E-08	1.48243E-07	11
2024/9/1	01D7DF-B02E0C-F	1031311579769	cs-uat-demo	58CD-E7C3-72CA	Cloud Monitoring	us		9.61476E-07	0.000424546	0.000125979	0.000238976	0.000365916	0.000664483	11
2024/9/1	01D7DF-B02E0C-F	307822392326	cs-production-360	58CD-E7C3-72CA	Cloud Monitoring	asia-east1	asia-east1	0.000993566	0.472604565	0.599969465	0.246951858	0.847914888	0.720549988	11
2024/9/1	01D7DF-B02E0C-F	712856151856	cs-gpt-390407	58CD-E7C3-72CA	Cloud Monitoring	asia-east1	asia-east1	0.000536631	0.255329645	0.324761862	0.133380339	0.458678832	0.389246616	11
2024/9/1	01D7DF-B02E0C-F	1031311579769	cs-uat-demo	58CD-E7C3-72CA	Cloud Monitoring	asia-east1	asia-east1	0.001178025	0.560370458	0.711333947	0.292799496	1.005311468	0.854347979	11
2024/9/1	01D7DF-B02E0C-F	1031311579769	cs-uat-demo	58CD-E7C3-72CA	Cloud Monitoring	asia-southeast1	asia-southeast1	0.001034516	0.390448115	0.423236666	0.257130015	0.681401196	0.648612645	11
2024/9/1	01D7DF-B02E0C-F	1031311579769	cs-uat-demo	6F81-5844-456A	Compute Engine	asia		6.20296E-05	0.026467029	0.029913515	0.015417517	0.045393061	0.041946575	11
2024/9/1	01D7DF-B02E0C-F	969655011423	chainsea-manage	6F81-5844-456A	Compute Engine	asia		5.34341E-05	0.025285566	0.028660655	0.013281099	0.041995189	0.038620099	11
2024/9/1	01D7DF-B02E0C-F	307822392326	cs-production-360	6F81-5844-456A	Compute Engine	asia		0.002091885	0.960853231	1.088596041	0.519940363	1.610628289	1.482885478	11
2024/9/1	01D7DF-B02E0C-F	712856151856	cs-gpt-390407	6F81-5844-456A	Compute Engine	asia		0.00063489	0.30001807	0.341309626	0.157802554	0.49974707	0.458455514	11
2024/9/1	01D7DF-B02E0C-F	307822392326	cs-production-360	6F81-5844-456A	Compute Engine	asia-east1	asia-east1	0.753370316	317.8835074	398.3499161	187.2510494	586.3543358	505.8879272	11
2024/9/1	01D7DF-B02E0C-F	164182882539	cs-whisper	6F81-5844-456A	Compute Engine	asia-east1	asia-east1	0.021276111	8.859914546	11.21035846	5.2882017	16.51983628	14.16939236	11
2024/9/1	01D7DF-B02E0C-F	712856151856	cs-gpt-390407	6F81-5844-456A	Compute Engine	asia-east1	asia-east1	0.045849675	19.41817414	24.28718362	11.3959888	35.72902209	30.86001262	11
2024/9/1	01D7DF-B02E0C-F	1031311579769	cs-uat-demo	6F81-5844-456A	Compute Engine	asia-east1	asia-east1	0.349046239	148.6258714	186.4579597	86.75583998	273.5628459	235.7307576	11
2024/9/1	01D7DF-B02E0C-F	301968501968	cs-qsearch	6F81-5844-456A	Compute Engine	asia-east1	asia-east1	0.062782844	26.45024792	33.20167703	15.60474721	48.86920709	42.11777798	11
2024/9/1	01D7DF-B02E0C-F	969655011423	chainsea-manage	6F81-5844-456A	Compute Engine	asia-east1	asia-east1	0.057353495	24.25342442	30.36290968	14.25527633	44.67553951	38.56605425	11
2024/9/1	01D7DF-B02E0C-F	1031311579769	cs-uat-demo	6F81-5844-456A	Compute Engine	asia-southeast1	asia-southeast1	0.16583597	54.8401586	58.81611578	41.21871912	100.2006709	96.22471369	11
2024/9/1	01D7DF-B02E0C-F	712856151856	cs-gpt-390407	6F81-5844-456A	Compute Engine	asia-southeast1	asia-southeast1	0.058732939	19.59492893	20.92690702	14.59813881	35.58377877	34.25180068	11
2024/9/1	01D7DF-B02E0C-F	307822392326	cs-production-360	95FF-2EF5-5EA1	Cloud Storage	asia-east1	asia-east1	0.004623454	2.067546292	3.154611657	1.149164664	4.308399774	3.221334409	11
2024/9/1	01D7DF-B02E0C-F	1031311579769	cs-uat-demo	95FF-2EF5-5EA1	Cloud Storage	asia-east1	asia-east1	1.49205E-06	0.000667299	0.001018031	0.000370851	0.001390374	0.001039642	11
2024/9/1	01D7DF-B02E0C-F	307822392326	cs-production-360	95FF-2EF5-5EA1	Cloud Storage	asia-southeast1	asia-southeast1	2.58078E-05	0.009086403	0.011853478	0.006414566	0.018293851	0.015526777	11
2024/9/1	01D7DF-B02E0C-F	307822392326	cs-production-360	A1E8-BE35-7EBC	Cloud Pub/Sub	us-central1	us-central1	2.77035E-12	1.09731E-09	3.66156E-10	6.88574E-10	1.0575E-09	1.78865E-09	11
2024/9/1	01D7DF-B02E0C-F	712856151856	cs-gpt-390407	A1E8-BE35-7EBC	Cloud Pub/Sub	us-central1	us-central1	8.88946E-13	3.85866E-10	1.19299E-10	2.20949E-10	3.41137E-10	6.07704E-10	11
2024/9/1	01D7DF-B02E0C-F	712856151856	cs-gpt-390407	A1E8-BE35-7EBC	Cloud Pub/Sub	us-central2	us-central2	2.15228E-10	8.81463E-08	3.06145E-08	5.34952E-08	8.43249E-08	1.41857E-07	11
2024/9/1	01D7DF-B02E0C-F	307822392326	cs-production-360	A1E8-BE35-7EBC	Cloud Pub/Sub	us-central2	us-central2	2.13777E-10	8.7561E-08	3.04008E-08	5.31345E-08	8.3749E-08	1.40909E-07	11
2024/10/1	01D7DF-B02E0C-F	301968501968	cs-qsearch	5490-F7B7-8DF6	Cloud Logging	us		5.09785E-10	1.65241E-07	7.17965E-08	1.26708E-07	1.99014E-07	2.92458E-07	11
2024/10/1	01D7DF-B02E0C-F	969655011423	chainsea-manage	5490-F7B7-8DF6	Cloud Logging	us		1.9455E-09	6.25079E-07	2.74793E-07	4.83557E-07	7.60295E-07	1.11058E-06	11
2024/10/1	01D7DF-B02E0C-F	307822392326	cs-production-360	5490-F7B7-8DF6	Cloud Logging	us		5.14442E-06	0.001671441	0.000725185	0.001278652	0.002008981	0.002955237	11

2024/10/1	01D7DF-B02E0C-F	1031311579769	cs-uat-demo	5490-F7B7-8DF6	Cloud Logging	us		9.7259E-05	0.031384836	0.013720015	0.024173845	0.037991119	0.05565594	11
2024/10/1	01D7DF-B02E0C-F	164182882539	cs-whisper	5490-F7B7-8DF6	Cloud Logging	us		1.16453E-08	3.57047E-06	1.63654E-06	2.89446E-06	4.54264E-06	6.47657E-06	11
2024/10/1	01D7DF-B02E0C-F	712856151856	cs-gpt-390407	5490-F7B7-8DF6	Cloud Logging	us		6.78289E-08	2.17792E-05	9.58476E-06	1.6859E-05	2.65116E-05	3.8706E-05	11
2024/10/1	01D7DF-B02E0C-F	1031311579769	cs-uat-demo	58CD-E7C3-72CA	Cloud Monitoring	us		2.482E-06	0.000978614	0.000324564	0.000616904	0.00094395	0.001598	11
2024/10/1	01D7DF-B02E0C-F	969655011423	chainsea-manage	58CD-E7C3-72CA	Cloud Monitoring	us		5.4399E-09	2.0245E-06	7.0768E-07	1.35209E-06	2.06521E-06	3.38203E-06	11
2024/10/1	01D7DF-B02E0C-F	1031311579769	cs-uat-demo	95FF-2EF5-5EA1	Cloud Storage	us		0.000167073	0.052970329	0.023539786	0.041526084	0.065232943	0.094663486	11
2024/10/1	01D7DF-B02E0C-F	1031311579769	cs-uat-demo	6F81-5844-456A	Compute Engine	asia		6.23016E-05	0.027018616	0.030547161	0.015485134	0.046094596	0.042566051	11
2024/10/1	01D7DF-B02E0C-F	969655011423	chainsea-manage	6F81-5844-456A	Compute Engine	asia		5.70498E-05	0.026863658	0.030468936	0.014179784	0.04470577	0.041100492	11
2024/10/1	01D7DF-B02E0C-F	712856151856	cs-gpt-390407	6F81-5844-456A	Compute Engine	asia		0.000407101	0.191696047	0.217422905	0.101185349	0.319015354	0.293288496	11
2024/10/1	01D7DF-B02E0C-F	307822392326	cs-production-360	6F81-5844-456A	Compute Engine	asia		0.001805768	0.825813961	0.935616621	0.448825576	1.386247964	1.276445304	11
2024/10/1	01D7DF-B02E0C-F	969655011423	chainsea-manage	95FF-2EF5-5EA1	Cloud Storage	asia		0.000556279	0.266896838	0.371405621	0.138263687	0.510225587	0.405716804	11
2024/10/1	01D7DF-B02E0C-F	1031311579769	cs-uat-demo	8B5D-EF7D-EB12	Cloud Build	us-east4	us-east4	1.78241E-06	0.000549504	0.000167115	0.00044302	0.000611917	0.000994306	11
2024/10/1	01D7DF-B02E0C-F	307822392326	cs-production-360	24E6-581D-38E5	BigQuery	asia-east1	asia-east1	4.38553E-11	1.81831E-08	2.56049E-08	1.09003E-08	3.6549E-08	2.91273E-08	11
2024/10/1	01D7DF-B02E0C-F	307822392326	cs-production-360	58CD-E7C3-72CA	Cloud Monitoring	asia-east1	asia-east1	0.00136667	0.617490502	0.810503918	0.33968732	1.151557908	0.958544492	11
2024/10/1	01D7DF-B02E0C-F	712856151856	cs-gpt-390407	58CD-E7C3-72CA	Cloud Monitoring	asia-east1	asia-east1	2.81691E-05	0.011962864	0.016929499	0.007001461	0.023959128	0.018992493	11
2024/10/1	01D7DF-B02E0C-F	1031311579769	cs-uat-demo	58CD-E7C3-72CA	Cloud Monitoring	asia-east1	asia-east1	0.001205628	0.539234961	0.717920634	0.299660205	1.018786466	0.840100794	11
2024/10/1	01D7DF-B02E0C-F	307822392326	cs-production-360	6F81-5844-456A	Compute Engine	asia-east1	asia-east1	0.791638266	313.6662508	420.0748262	196.7625919	617.6290564	511.220481	11
2024/10/1	01D7DF-B02E0C-F	164182882539	cs-whisper	6F81-5844-456A	Compute Engine	asia-east1	asia-east1	0.034396319	13.45788253	18.25272803	8.549244275	26.83636862	22.04152313	11
2024/10/1	01D7DF-B02E0C-F	301968501968	cs-qsearch	6F81-5844-456A	Compute Engine	asia-east1	asia-east1	0.064641053	25.59223351	34.31415806	16.06660728	50.44540639	41.72348185	11
2024/10/1	01D7DF-B02E0C-F	712856151856	cs-gpt-390407	6F81-5844-456A	Compute Engine	asia-east1	asia-east1	0.04144516	16.62426188	21.98050905	10.30124168	32.3231959	26.96694872	11
2024/10/1	01D7DF-B02E0C-F	1031311579769	cs-uat-demo	6F81-5844-456A	Compute Engine	asia-east1	asia-east1	0.038279552	15.21638753	20.27279681	9.514426285	29.82550265	24.76909337	11
2024/10/1	01D7DF-B02E0C-F	969655011423	chainsea-manage	6F81-5844-456A	Compute Engine	asia-east1	asia-east1	0.060682593	24.06692019	32.17630338	15.08272753	47.3197135	39.21033031	11
2024/10/1	01D7DF-B02E0C-F	1031311579769	cs-uat-demo	95FF-2EF5-5EA1	Cloud Storage	asia-east1	asia-east1	1.51613E-06	0.00063294	0.001022836	0.000376835	0.001401187	0.001011291	11
2024/10/1	01D7DF-B02E0C-F	307822392326	cs-production-360	95FF-2EF5-5EA1	Cloud Storage	asia-east1	asia-east1	0.004942865	2.063931831	3.334260848	1.228554703	4.567758416	3.297429399	11
2024/10/1	01D7DF-B02E0C-F	1031311579769	cs-uat-demo	6F81-5844-456A	Compute Engine	us-central1	us-central1	1.34146E-05	0.003635332	0.001734736	0.00333422	0.005082371	0.006982966	11
2024/10/1	01D7DF-B02E0C-F	307822392326	cs-production-360	A1E8-BE35-7EBC	Cloud Pub/Sub	us-central1	us-central1	4.37886E-12	1.51158E-09	6.28294E-10	1.08837E-09	1.72104E-09	2.60433E-09	11
2024/10/1	01D7DF-B02E0C-F	712856151856	cs-gpt-390407	A1E8-BE35-7EBC	Cloud Pub/Sub	us-central1	us-central1	4.92475E-12	1.73765E-09	7.0791E-10	1.22405E-09	1.93689E-09	2.96663E-09	11
2024/10/1	01D7DF-B02E0C-F	712856151856	cs-gpt-390407	A1E8-BE35-7EBC	Cloud Pub/Sub	us-central2	us-central2	2.20991E-10	7.2439E-08	3.33794E-08	5.49275E-08	8.85279E-08	1.27587E-07	11
2024/10/1	01D7DF-B02E0C-F	307822392326	cs-production-360	A1E8-BE35-7EBC	Cloud Pub/Sub	us-central2	us-central2	2.2382E-10	7.33093E-08	3.38123E-08	5.56308E-08	8.96669E-08	1.29164E-07	11
2024/10/1	01D7DF-B02E0C-F	1031311579769	cs-uat-demo	58CD-E7C3-72CA	Cloud Monitoring	asia-southeast1	asia-southeast1	0.001087067	0.412521711	0.445376905	0.270191658	0.71665563	0.683800436	11
2024/10/1	01D7DF-B02E0C-F	1031311579769	cs-uat-demo	6F81-5844-456A	Compute Engine	asia-southeast1	asia-southeast1	0.169712552	56.78503973	61.48187614	42.18224792	103.8338366	99.1370002	11
2024/10/1	01D7DF-B02E0C-F	712856151856	cs-gpt-390407	6F81-5844-456A	Compute Engine	asia-southeast1	asia-southeast1	0.011205888	3.77772044	4.037510912	2.78523616	6.833952959	6.574162488	11
2024/10/1	01D7DF-B02E0C-F	307822392326	cs-production-360	95FF-2EF5-5EA1	Cloud Storage	asia-southeast1	asia-southeast1	2.61348E-05	0.009233799	0.012058497	0.006495839	0.018580472	0.015755773	11