



Create a more sustainable future with Google Cloud

Google Cloud helps the public sector lead the way to a more sustainable future by equipping government organizations with tools that can deliver insights for climate resilience and action.

Use the cleanest cloud in the industry

Organizations expect clean, sustainable infrastructure to power their business. Google Cloud is the only cloud provider to match 100% of our electricity use with renewable energy, and the first with a goal to fully decarbonize our data center electricity supply.

Run carbon-free

By 2030, Google aims to run on 24/7 carbon-free energy by developing and investing in new technologies, purchasing clean energy, and partnering with global leaders to advocate around the world. Google joined SEforALL and UN Energy to launch a new compact calling on companies, governments, and other stakeholders to join the 24/7 carbon-free energy movement to decarbonize electricity globally.

How can Google Cloud accelerate your impact?

- Give your organization insights to increase climate resilience with Google Earth Engine, BigQuery, Google Maps, and Google Cloud compute and AI tools that help anticipate risk
- Match 100% of the electricity that powers cloud workloads with renewable energy, fully mitigating your operational carbon footprint of digital applications and infrastructure
- Build easily and work sustainably with Carbon Sense suite tools to help measure, report, and reduce cloud emissions (Carbon Footprint) and recommend actions (Active Assist)



“Through a strategic partnership with Google Cloud, our scientists are leveraging cutting-edge cloud technologies. These next-generation geo-solutions allow massive volumes of Earth observation data to be converted into actionable insights, improving Canada’s economic and environmental performance.”

— Richard Fernandes, Ph.D.
Research Scientist, Natural Resources Canada

New sustainability offerings for the public sector

Google Cloud introduces a suite of offerings that can help governments increase climate resilience and enable their communities to better manage the impacts of climate change.



Climate Insights for natural resources

Understand and mitigate impacts of climate change.
[Explore the Natural Resources Canada customer story](#)



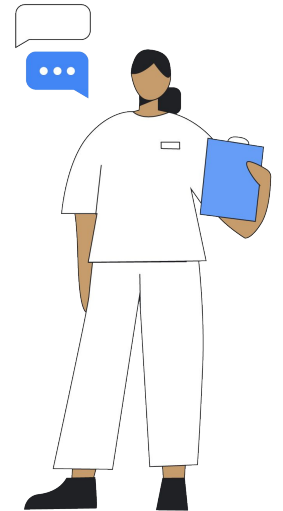
Climate Insights for infrastructure

Build resilience into public infrastructure.
[Explore the Hawaii Department of Transportation customer story](#)



Climate Insights for natural resource and infrastructure

The new Climate Insights offerings from Google Cloud help convert raw geospatial data into actionable and accessible insights, which can help governments improve and preserve communities for future generations.



Accelerate climate action with Google Cloud Climate Insights

Climate Insights use a combination of Google Earth Engine, BigQuery, Vertex AI and Google Cloud, providing massive computing at scale to generate actionable insights from Earth-based observations. These insights help governments better identify climate risks, predict changes, and make data-driven decisions to meet the challenge of climate change.



Assess climate risk

Understand climate risk exposure to build resilience.



Measure and analyze

Combine risks with conditions, economics, and community impact.



Collaborate and act

Collaborate, prioritize, and make informed decisions.

Sample use cases

Top risks: flooding, fires, extreme heat, emission, drought, water cycle, and erosion

Climate Insights for natural resources

Monitor, predict, and analyze climate risks impact on natural resources. Leverage the power of Earth observation and remote sensing data at scale from different sources to gain insights for decision-making.

Climate Insights for infrastructure

Combine climate risks with asset usage, economics, and community impact into insights to improve planning and operational decision-making. Easy-to-use interface, enabling collaboration across departments and agencies.



“Our goal is to have a common data-driven platform to collect and share information across agencies, counties, and cities, This helps us collaborate within our department and engage with our communities so we can better serve the public.”

— Ed Sniffen
Deputy Director of Highways, State of Hawaii
Department of Transportation

Google Cloud

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For more information, visit goo.gle/ps-climate-insights