Towards a Carbon Neutral Future with NetCarbon

CARTO platform and its seamless integration with BigQuery help NetCarbon save valuable time. Clients are empowered with impressive map visualization dashboards to make better data-driven decisions to address CO2 emission goals & fight climate change.

The challenge

(1) Integrating a wide range of datasets from different sources: combining large amounts of satellite data in less time using a more scalable approach. Their previous system wasn't able to handle this data. (2) Turning complex geospatial data into actionable insights: find a way to provide cities & agricultural industries with an intuitive platform for monitoring and understanding their own data.

The solution

NetCarbon uses satellite sensors and AI to measure CO2 levels and compute indexes based on the health of the vegetation, soil moisture & temperature, etc. With CARTO they build dashboards that allow clients to measure and monitor the amount of carbon stored. Through a simulation module, clients are able to simulate projects to define how they can improve and enhance the impact of their actions.

The result

CARTO seamless connection to Google BigQuery allowed NetCarbon to connect ~10 terabytes of data to their database in seconds. In addition, NetCarbon wanted to enable their clients to carry out analysis at scale. With the combination of Google BigQuery's data warehouse, external and internal datasets & CARTO, NetCarbon built a user-friendly scalable solution for impressive map visualizations.

> **"** CARTO's cloud-native approach and the ability to use H3 at scale was a big game changer for us. We can now compute data in real time without the need for heavy coding. Working with the CARTO platform has been extremely impactful as we can now easily visualize & analyse massive amounts of satellite data. **"**
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> Basile Goussard, Co-Founder, NetCarbon

About NETCARBON

NetCarbon works to fight against climate change by monitoring CO2 emissions. They have two goals: to reduce CO2 emissions and increase CO2 sequestration. NetCarbon's solution helps their clients interact with real-time data and create a strategy based on key parameters, building a vision towards an ecosystem that stores more CO2 than is emitted.
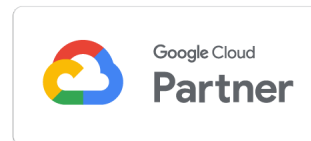
Vertical/horizontal solution: Software & Internet

Primary project location: France

About CARTODB INC.

CARTO is the leading Google Cloud-native Location Intelligence platform that unlocks the power of spatial analysis for prediction and optimizations.

Products

Google Cloud Platform