

AWS Open Data Sponsorship Program

Chris Stoner

Open Environmental Data Lead

cstner@amazon.com



AWS Open Data Program



“...data must be organized, well-documented, consistently formatted, and error free. Cleaning the data is often the most taxing part of data science, and is frequently **80% of the work.**”

— Data Driven by DJ Patil and Hilary Mason

Undifferentiated heavy lifting

Why does AWS care about open data?

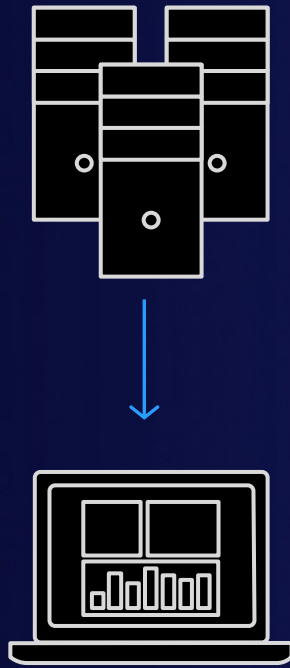
Many AWS customers supply data to the public to accelerate research and product development.

Many AWS customers use data shared on AWS to create new products, services, and insights.



Flipped data flow in the cloud

Traditional approach:
Move data to computing resources.

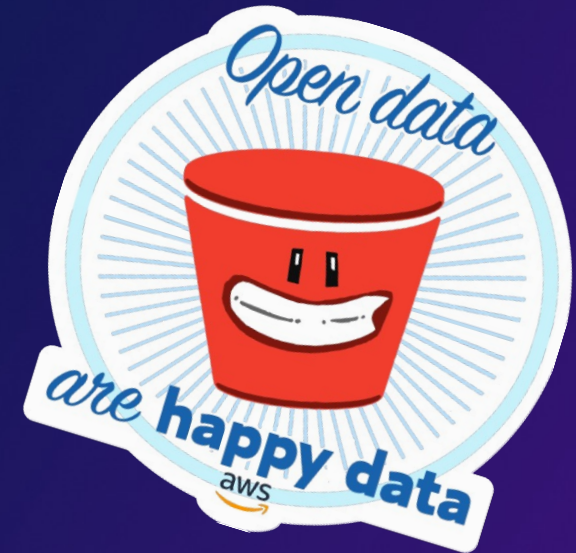


Cloud approach:
Move computing resources to data.



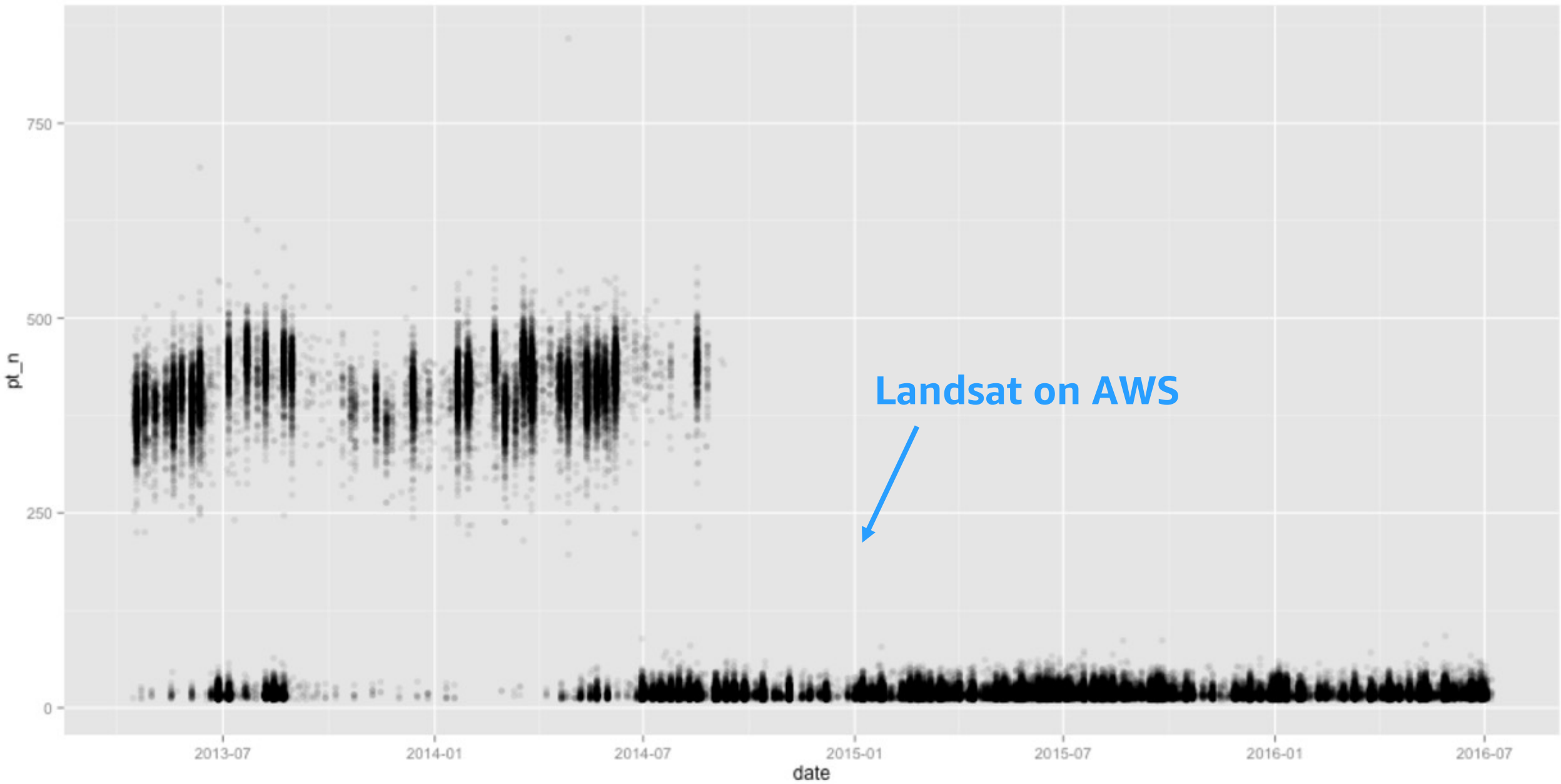
How does the Open Data Sponsorship Program work?

- Focus on High Value datasets
 - Covers storage and egress
 - Data in a new AWS Account
- Allows for frictionless access to the data
 - No paywall or registration
 - Free and Open



Data at work





Landsat on AWS

Graph by Drew Bollinger (@drewbo19) at Development Seed

Monitoring at-risk bodies of water from space

The **Blue Dot Observatory** uses Sentinel-2 satellite data on AWS to monitor water bodies around the world.

“The cost to process one month of data for about 7,000 bodies of water currently in the system is 6 EUR. It is possible to set up world-scale systems with a shoestring budget.”

opendata.aws/bluedot



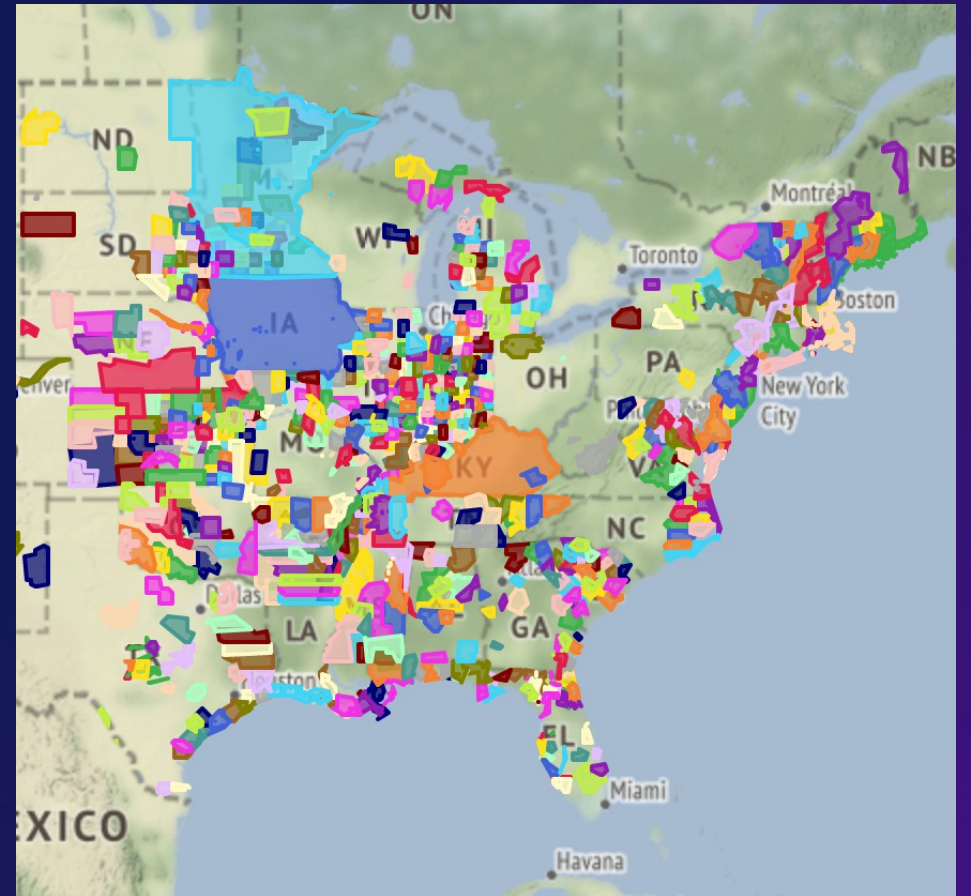
Opening high-resolution elevation data

The **US Geological Survey (USGS)** shares over 10 trillion lidar point cloud records from across the US on AWS.

“The democratization of elevation data [...] promises to revolutionize approaches to applications from flood forecasting and geologic assessments to precision agriculture and infrastructure development.”

— Kevin Gallagher, USGS

opendata.aws/usgs-lidar



DEMO



Registry of Open Data on AWS



Amazon S3 buckets



Amazon SNS topics

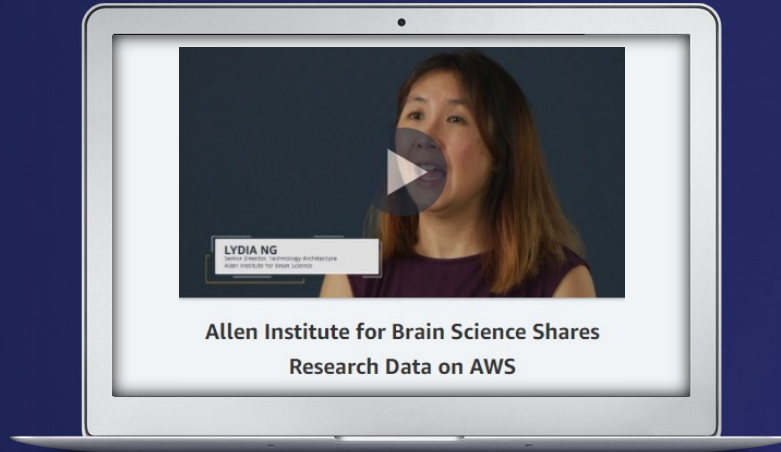


Amazon RDS snapshots



Amazon EBS volumes

Direct data access from AWS native interfaces



More than 800 usage examples, tutorials, and publications



registry.opendata.aws

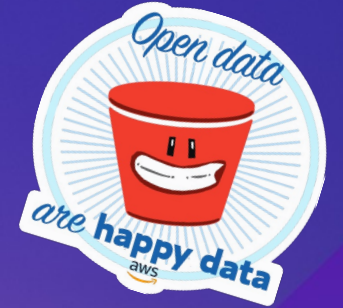
Thank you!

Chris Stoner

cstner@amazon.com



Open Data Program



Registry of Open Data



NEXRAD Notebook

