

TORONTO

JUNE 14 '23

SUS200

EARTHDAILY SUSTAINABILITY INITIATIVES ACCELERATED WITH AWS CLOUD

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EarthDaily



Agenda

Business of Space

Use Case – Sustainable Oils

AWS Enablement

Sample data set for you to go play with



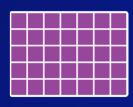
AWS for Aerospace and Satellite



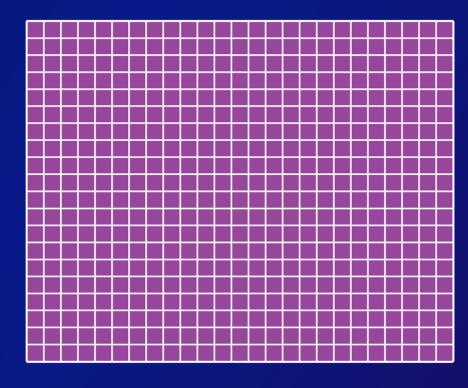


Data From Space

Projected 14x Growth From 2020 to 2030



2020



2030



2022 Rocket Launches

- 186 rockets launched in 2022
- New historical record





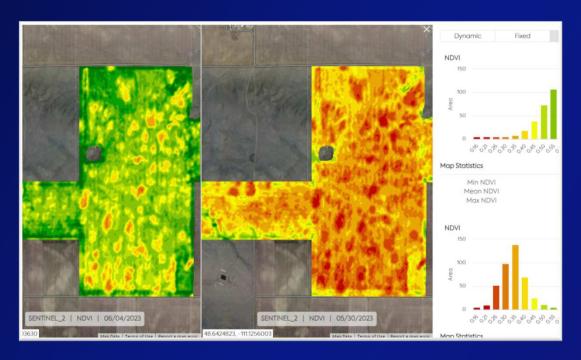
Sustainable Oils Case Study





Camelina Insights

Satellite data allows growers to react to changes







Objectives



AGRONOMY

Enable Production Capacity



CARBON AND REGENERATIVE AG

Ensure Sustainable Production



SUPPLY CHAIN

Produce Renewable Energy



Data Sources

Weather Observations
Soil Sampling
Phenology Stages
Change Detection







Scale Production

Monitor Field Performance

De-risk feedstock supply

Predictive Analytics



Adding Functionality to AWS



Satellite Data
Public Data



Field Data

Operation Records

Crop Pictures

Sample Analytics



Historical Weather Data Production Stats



aws



Ag Model
Predictive Analytics

NATIVE AWS FUNCTIONALITY



Security & Identity



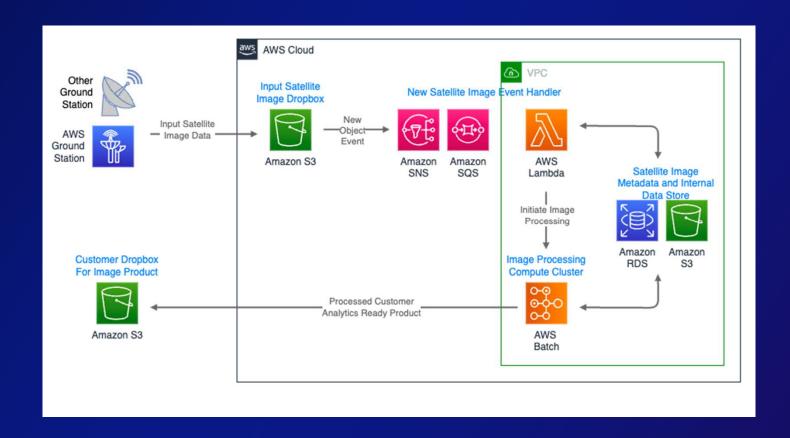
Storage



Computation



High level architecture

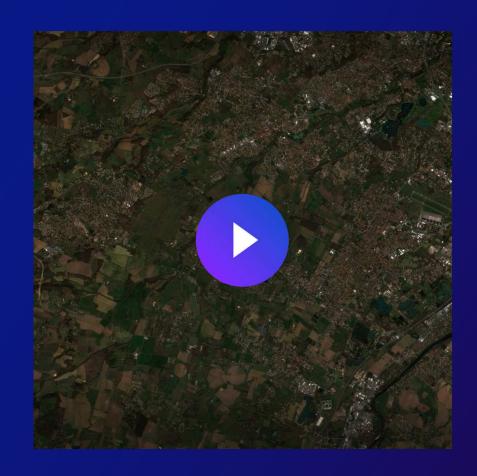




VENµS L2A Dataset

VENµS L2A Cloud-Optimized GeoTIFFs is now openly accessible on AWS

- Scientific Grade Quality
- Optimizes the data accessibility by converting it into a cloud-optimized image format (COG) and adds STAC metadata
- The processed data is then stored in an easily accessible Amazon Simple Storage Service (Amazon S3) bucket and made available through the AWS Open Data Sponsorship Program





Thank you!



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