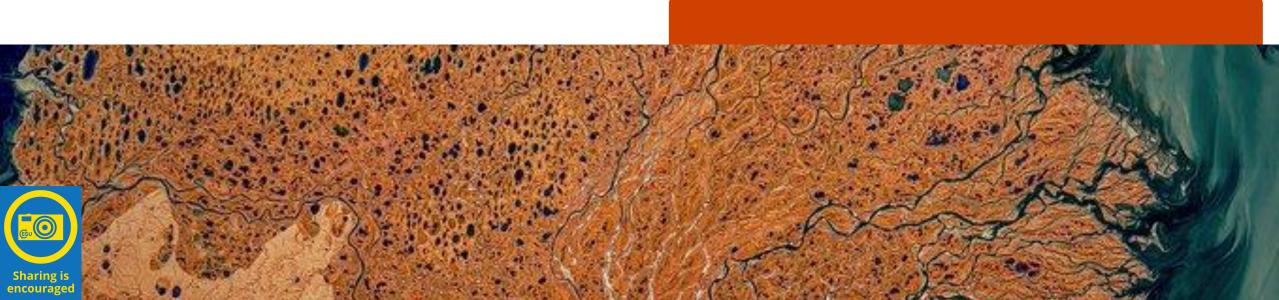


NASA's Open Science Platform VEDA



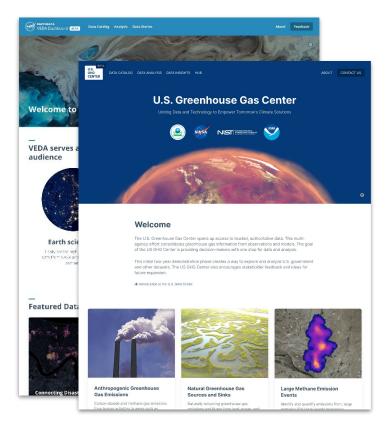
Visualization, Exploration and Data Analytics

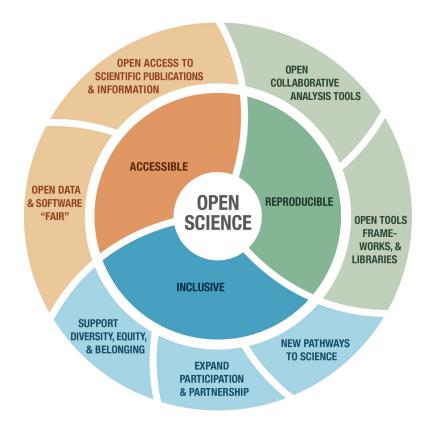


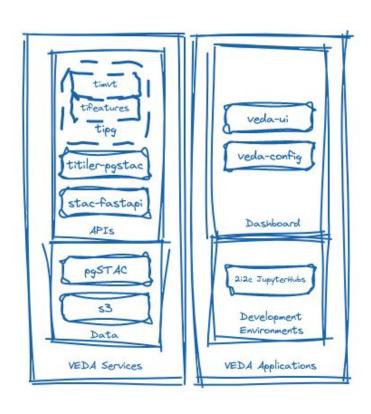




Are you...







Doing science with **Earth data**?

Wanting to widen **participation** in your science?

Looking for examples and **open-source software** to get started?





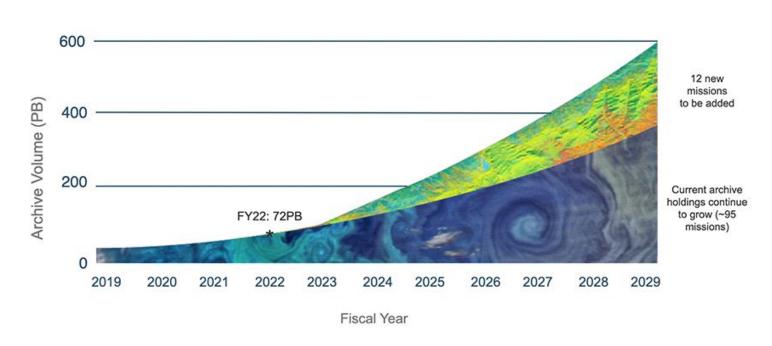
Yet Another Platform (YAP)?

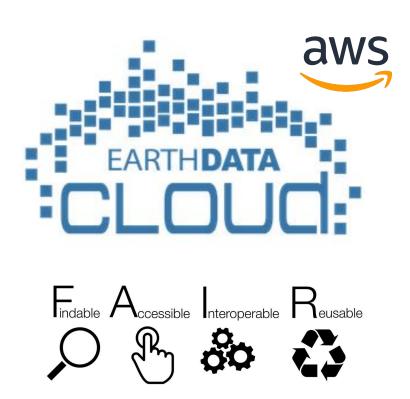




Do we need platforms? - Yes!

Earth Science Data Archive Growth Projection





Cloud-scale data archives require platforms for open science participation





Do we need to invent new platforms? - No!

The community is **converging** on cloud-native data formats and tools



















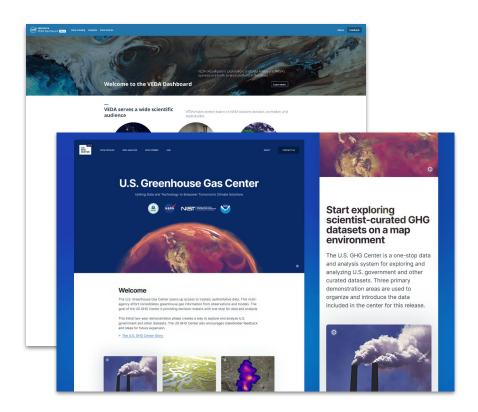


Microsoft Planetary Computer

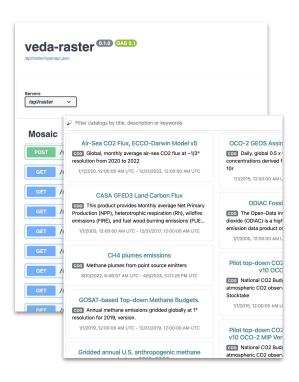




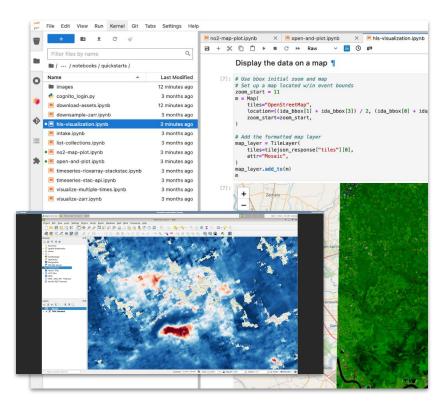
VEDA integrates existing community standards for tool-agnostic human and machine friendly Earth data science







Cloud storage (S3), STAC and OGC APIs



JupyterHub and cloud computing resources





VEDA integrates existing community standards for tool-agnostic human and machine friendly Earth data science

Platform software

- All open-source at <u>github.com/NASA-IMPACT/VEDA</u>
- 2. Batteries included Infrastructure as Code for AWS CloudFormation (AWS) or Kubernetes (anywhere)

Platform instances (beta)

- earthdata.nasa.gov/dashboard
- 2. <u>earth.gov/ghgcenter</u> and <u>earth.gov</u>





Let's Talk! - PICO 4.6

earthdata.nasa.gov/dashboard github.com/NASA-IMPACT/VEDA



jonas@developmentseed.org

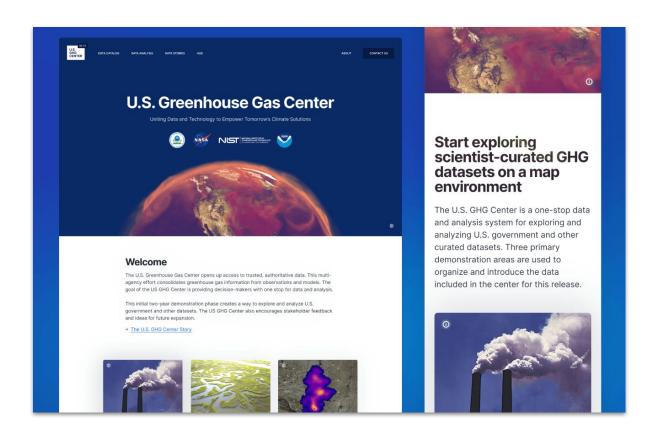
Btw, we're hiring software engineers! (Lisbon, DC, remote)

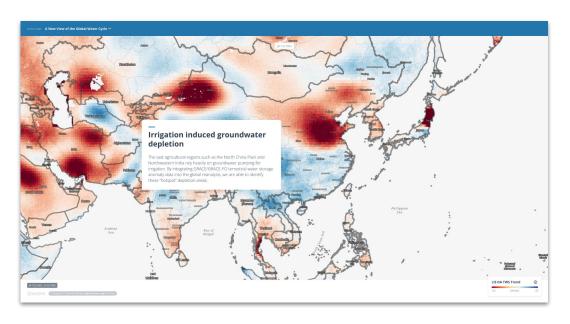


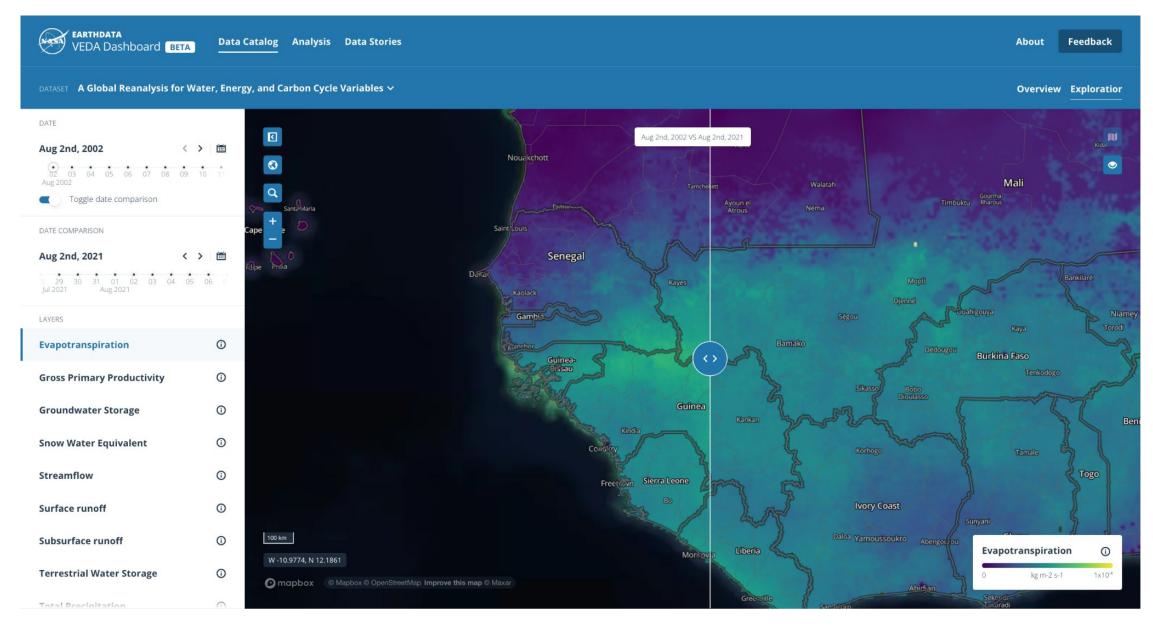


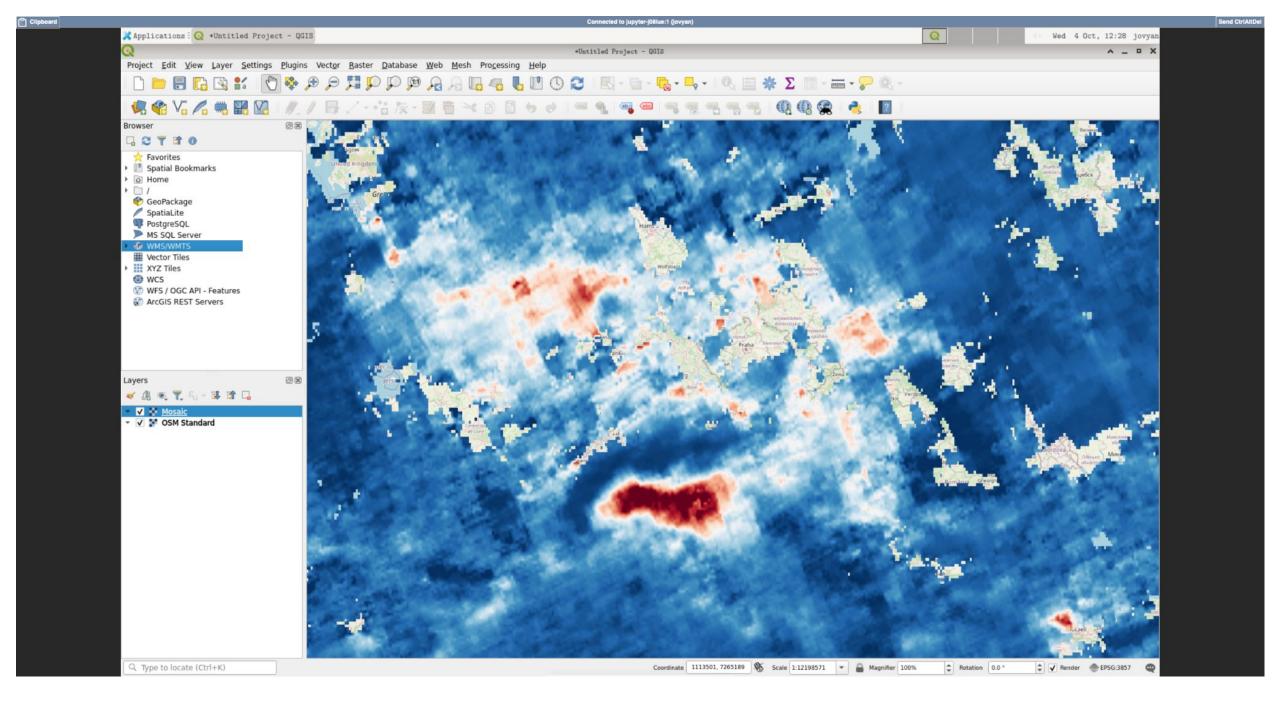


Programmatic science context for data discovery

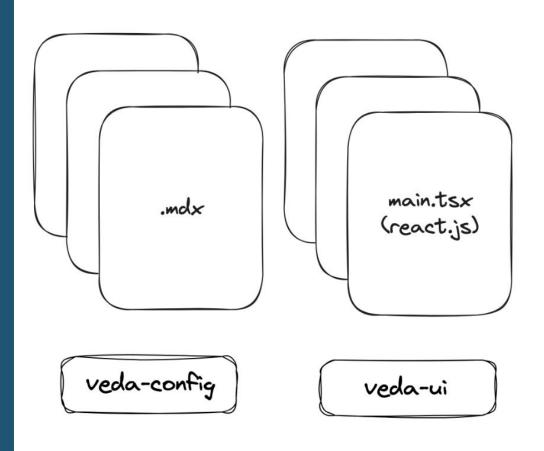


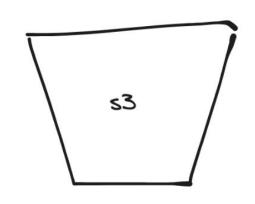


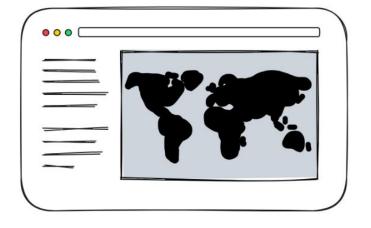




How VEDA UI works





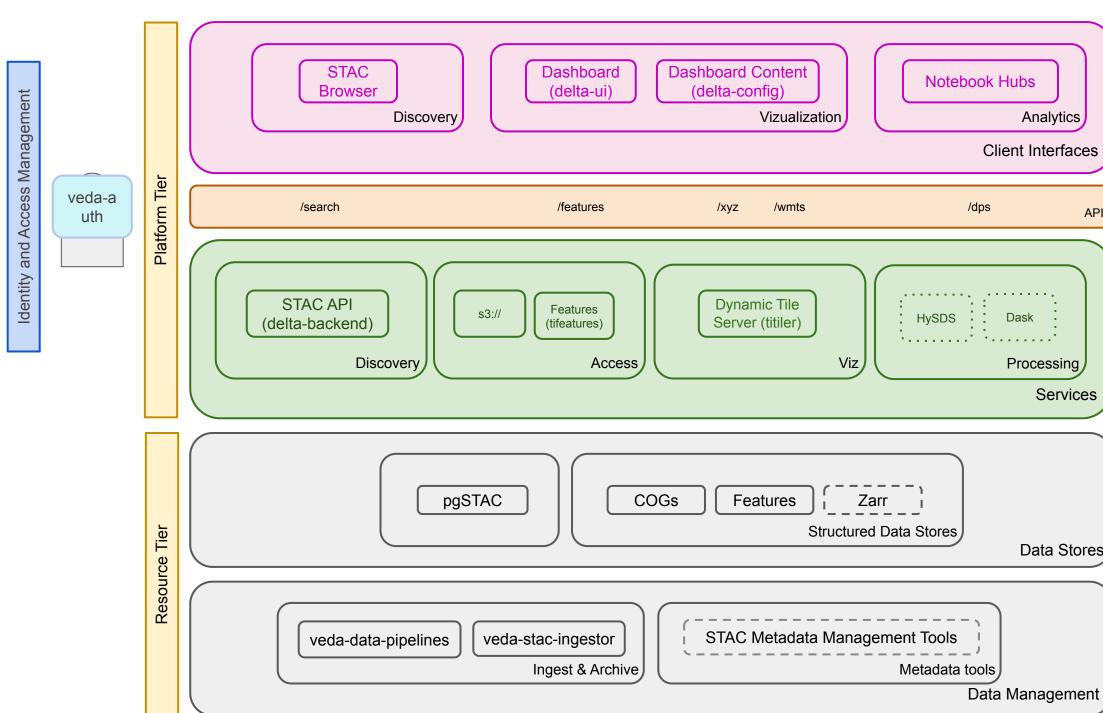


compilation to JS + bundling

earthdata.nasa.gov/dashboard!

In development

External project



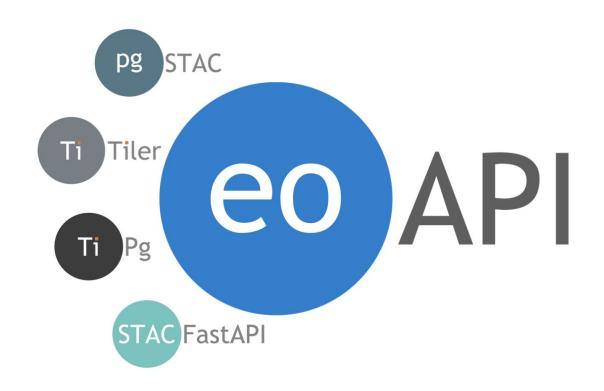
Analytics

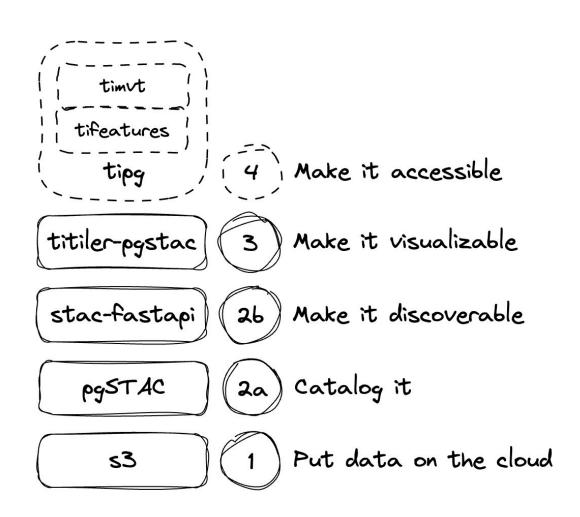
API

Services

Data Stores

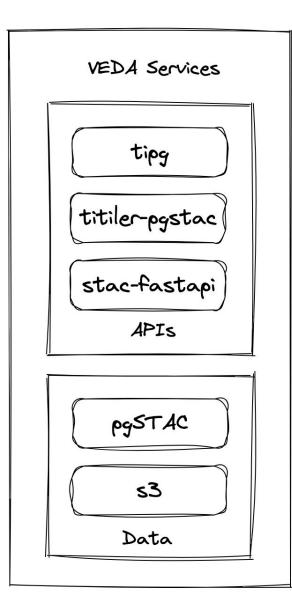


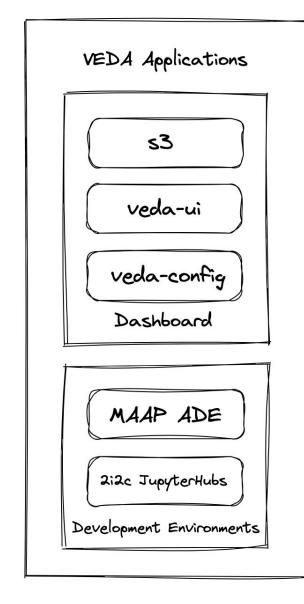




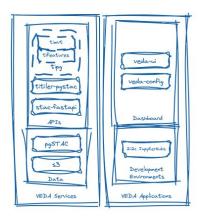
eoapi.dev

Reusable in part or in whole





VEDA Dashboard earthdata.nasa.gov/dashboard



MAAP STAC Catalog



U.S. Greenhouse Gas Center (GHG) - July 2023





