

Empowering Infrastructures to Enable Open Science: The Multi-Mission Algorithm and Analysis Platform (MAAP) Data System



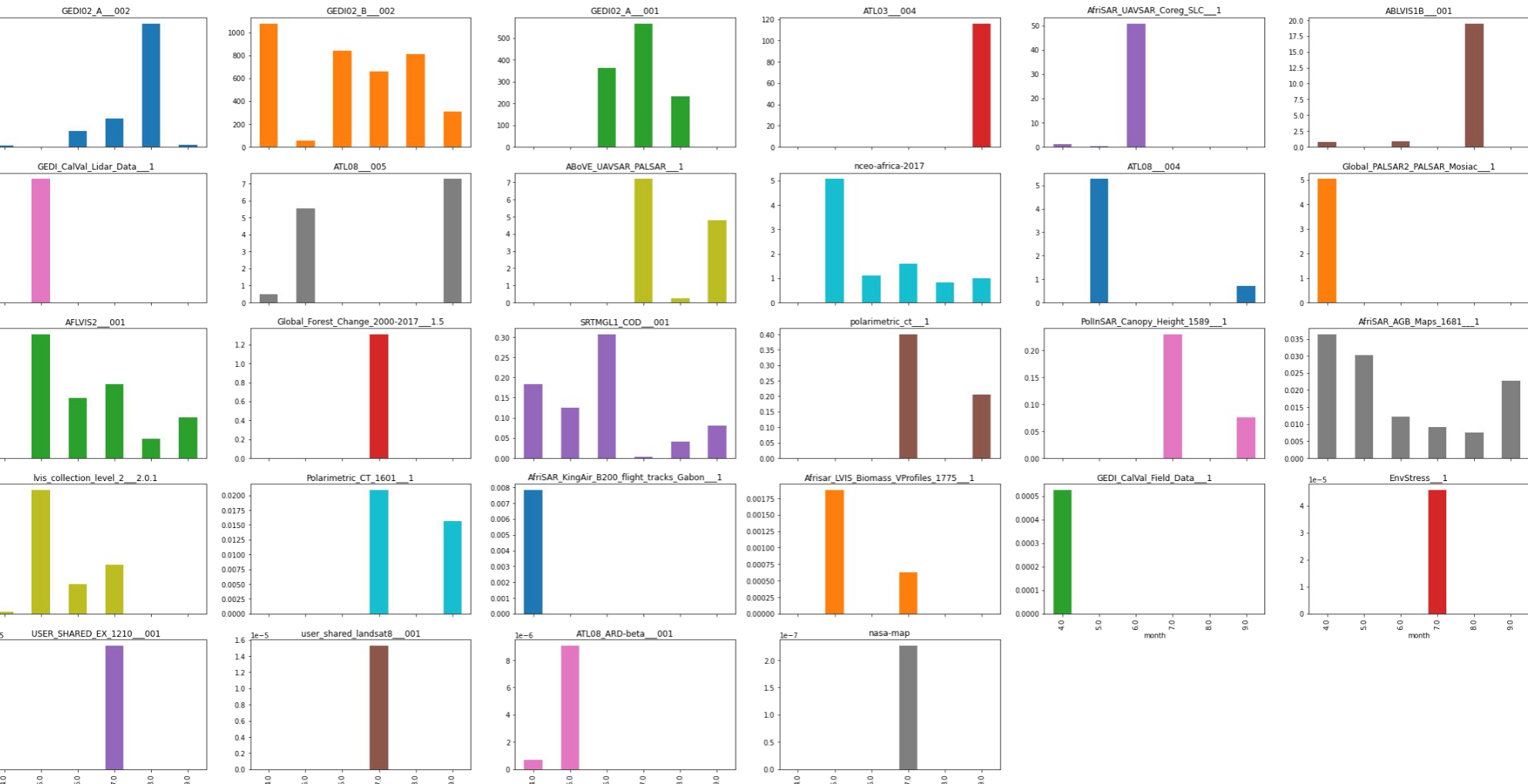
MAAP Focuses on Accessibility and Collaboration

- Enables efficient collaboration amongst scientists
- Increases interoperability of data and metadata through novel data stewardship approaches
- Adopts NASA's open data policy:
 - All data, services, and software are freely and openly available to research and applications communities, private industry, academia, and the general public.

MAAP Addresses High Volume, Heterogeneous Data Challenges

This platform is geared toward enabling researchers to discover, process, visualize, and analyze large volumes of data. This is improved by:

- Harmonizing satellite, airborne, and field data
- Developing tools for repeatable and shareable science in an algorithm development environment
- Reinforcement of NASA's open data policy
- Having open-source software from inception

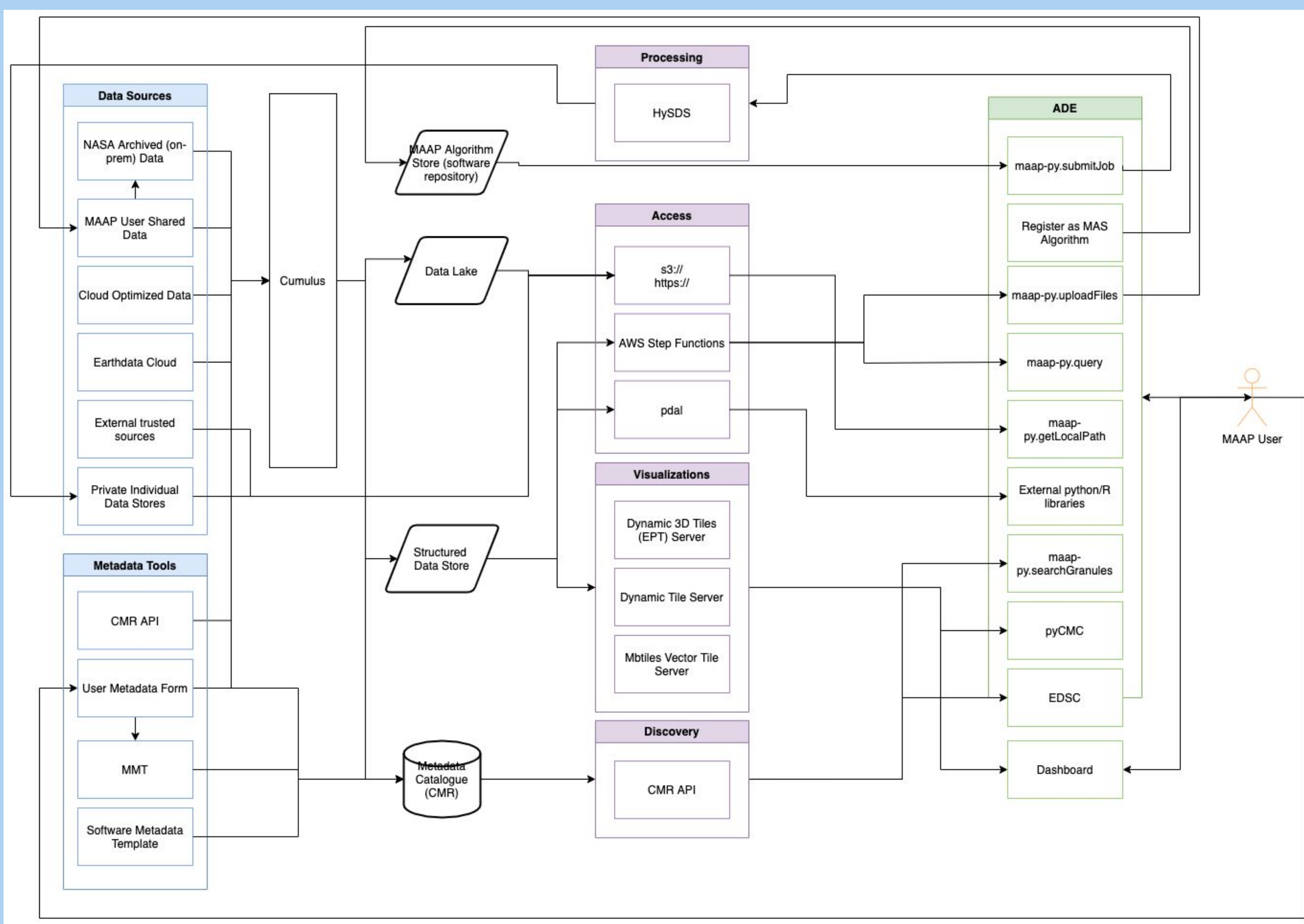


Data usage metrics

Acknowledgements
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An approach to developing an open science data system which empowers scientists to conduct analyses at scale using cloud data

Cyberinfrastructures that leverage recent technological advances and the increasing accessibility and availability of data promote the processes of open science and have the capability to be more efficient by enabling science at scale and by fostering collaboration between scientists and organizations.



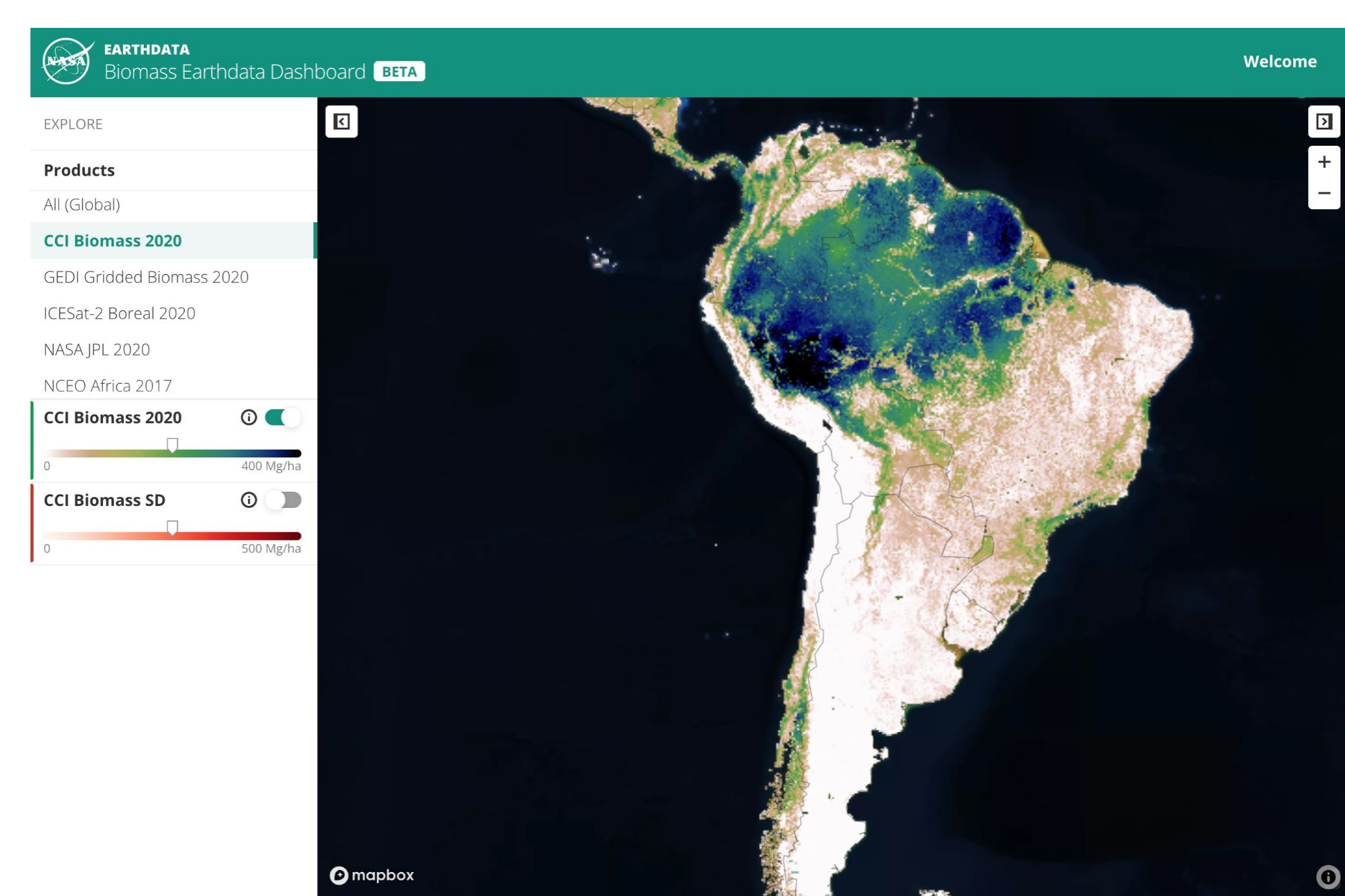
Data System Workflow



Learn More!

What is the MAAP Platform?

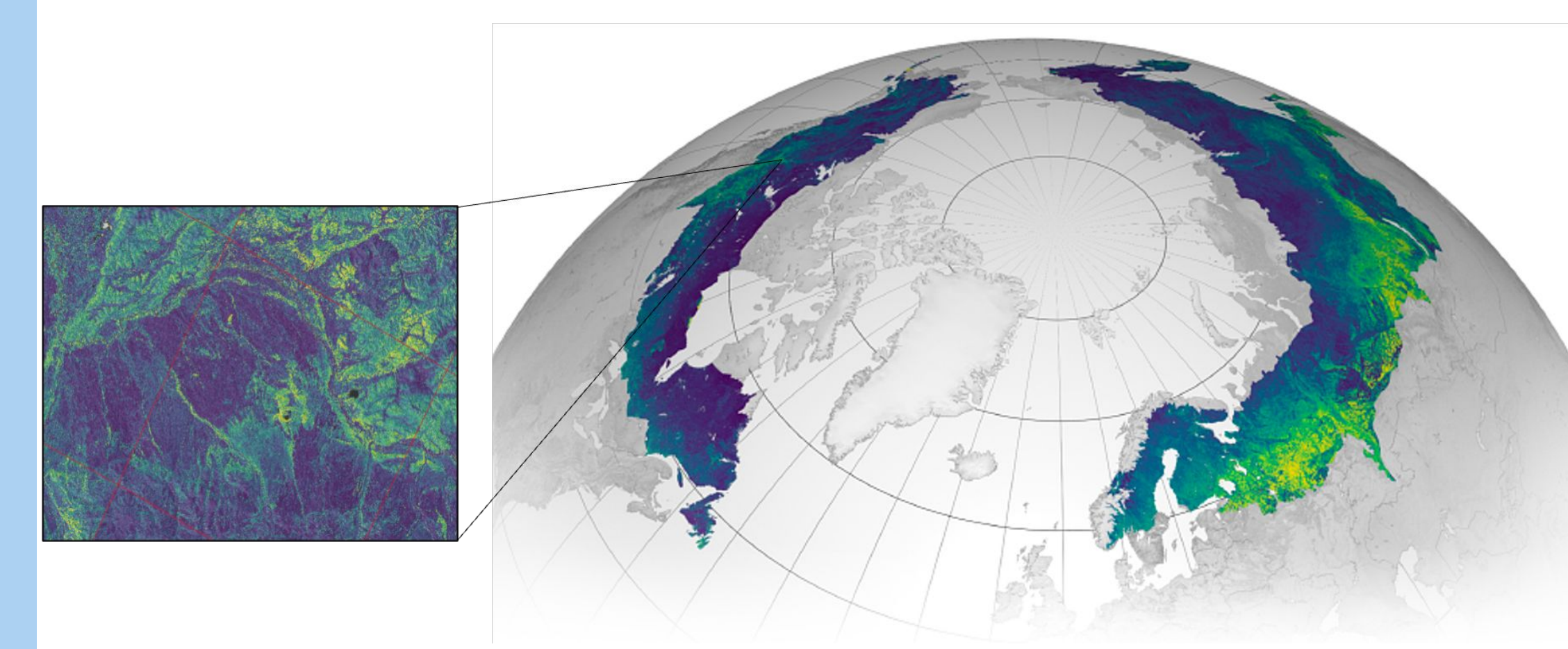
MAAP is a common cloud environment consisting of the aggregate of data, algorithms, and computational abilities relevant to NASA and ESA biomass missions.



MAAP biomass dashboard

How Does the MAAP Enable Science?

This MAAP platform has been used to develop the ICESat-2 boreal map. The MAAP is also allowing scientists to easily compare various biomass data products and to collaborate more closely on biomass harmonization efforts.



ICESat-2 boreal map created on the MAAP

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