

EXPLOITING EARTH OBSERVATION DATA AT EUROPEAN SCALE

EGI Data Hub for Sentinel Data

Problem

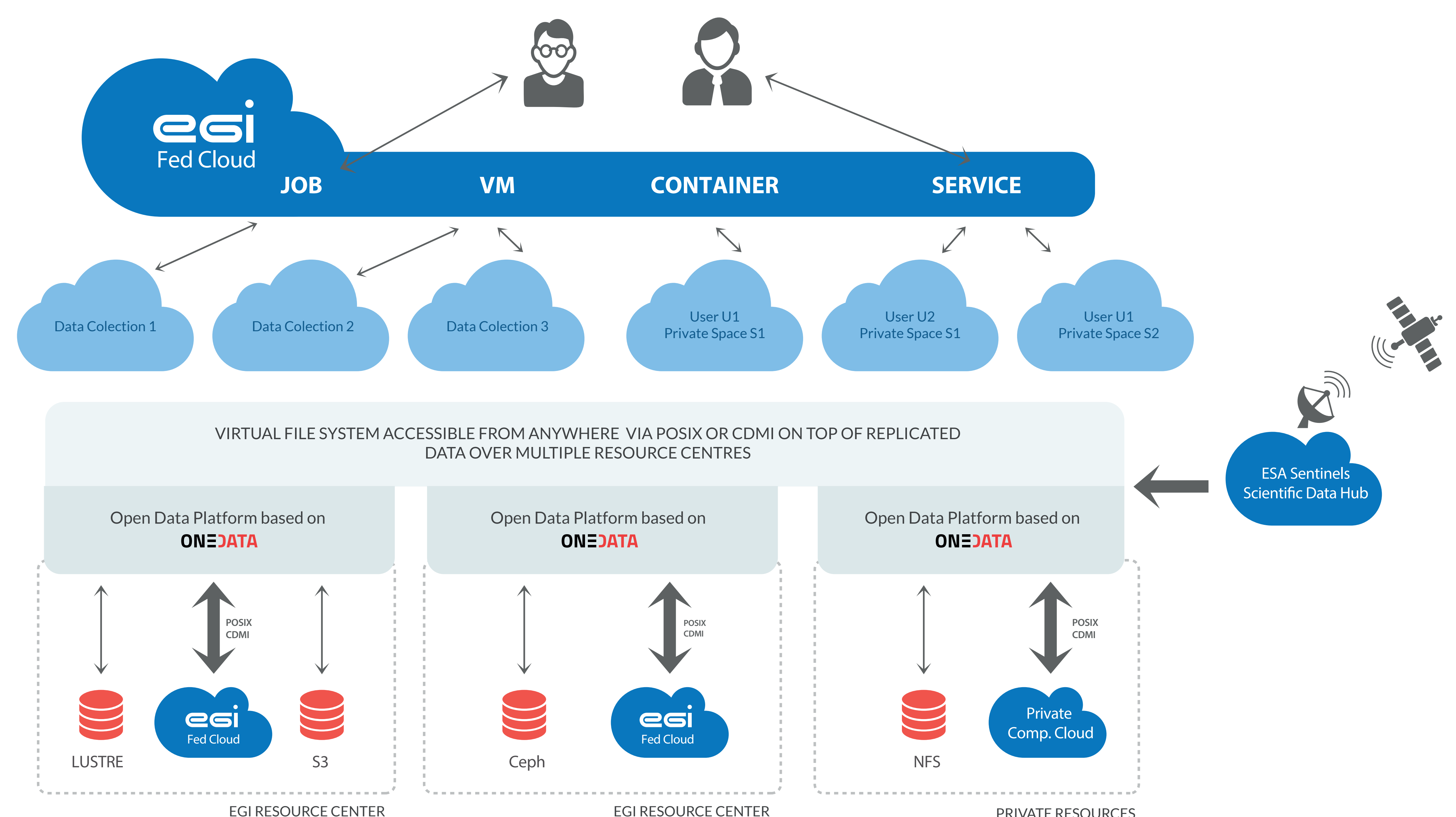
EU Member States have already invested €7b in the Copernicus programme and three Sentinel satellites are already operational. Sentinel data is free and open access and is opening the way to a new era in Earth Observation (EO). All sectors of the society have the opportunity to benefit from this data. But we are missing an open and interoperable solution to make the most of the Sentinel program at a European scale.

Solution

The EGI Data Hub offers easy access to Sentinel data, through a unified interface. The service allows for discovery and access to mirrored data from the central ESA data hub without restrictive bandwidth limitations. Through the EGI Data Hub, Sentinel data is ready to be used to create new products and services on the EGI computing infrastructure.

Benefits

- High-performance access to Sentinel data
- Co-located computing infrastructure (virtual machines, containers, high-throughput computing, accelerated computing)
- Easy access (no need to pre-stage data on computing nodes)
- Transparent replica and caching of the necessary amount of Sentinel data
- Multiple interfaces available (REST API, POSIX access)
- Support for discovery through metadata



EGI: federated compute/data infrastructure

EGI is a federation of 350 publicly-funded resource providers offering a compute, storage and data infrastructure. The main goal of EGI is to empower data- and compute-intensive research and innovation. EGI has delivered unprecedented data analysis capabilities to more than 50,000 researchers from many disciplines and is now committed to bring innovation to the private sector.

ONEDATA a world of data without barriers

Onedata is an open source storage solution for integrating access to your data from various providers. With this solution, your team can easily share and process data on large scale infrastructures with the desired security level. The access to your distributed data is as simple as the access to your local disk. More information: onedata.org

Copernicus program and the Sentinels

Copernicus is a European system for monitoring the Earth and collects data from both earth observation satellites and in situ sensors. The Sentinels are earth observation satellites which provide data useful for a wide range of domains including agriculture, forestry and fisheries, biodiversity, climate and energy, civil protection and public health. Sentinel satellites forecast to deliver 8-10TB of data per day

Develop your service on EGI

EGI is actively looking to support partners from both the public and private sectors who want to develop innovative services that need efficient access to Sentinel data. If you are interested in collaborating, contact us: business@egi.eu

CONTACT US

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