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DestinE Data Lake – Harmonized Data Access (HDA)

Introduction

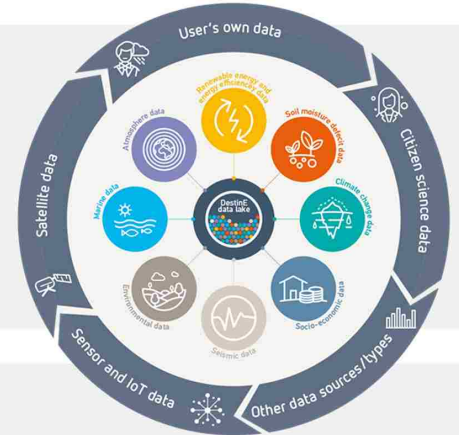
The DestinE Data Lake's HDA API provides a unified entry point to explore and access all datasets within the DestinE Data Portfolio. Built on the principle of data federation, the HDA integrates both remotely hosted datasets from Federated Data Providers and co-located data available directly within the DestinE Data Lake and DEDL services.

Explore the DestinE Data Portfolio

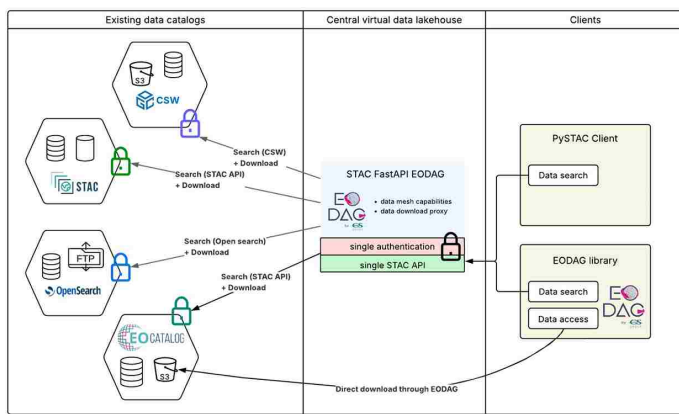
HDA API currently connects data from a broad range of providers, including **ESA**, **EUMETSAT**, **ECMWF**, **Copernicus DIAS**, and **Eurostat**.

The portfolio offers a wide and diverse selection of datasets. Nearly 200 datasets are already available through the HDA API, with new additions being made continuously.

The Data Lake also supports User-Generated datasets, enabling you to share your preferred data with the wider community.



A fully governed mesh for discovery and data access



The Data Lake HDA federates existing data providers. It exposes a STAC 1.0.0 compliant interface and relies on EODAG to access the federated data sources. The benefits are:

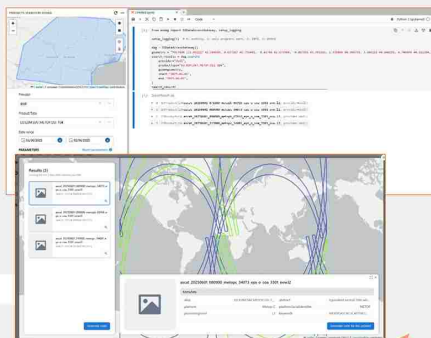
- No duplication of data or metadata
- Multiple sources per collection enhances solution robustness
- A centralized authentication and governance
- A single and harmonized discovery and data access API

A native integration with community tools

The HDA provides a STAC interface and any tools supporting STAC can be configured to discover, visualize and manipulate the data available in the DestinE Data Lake. For example, STAC Browser, QGIS with STAC extension...

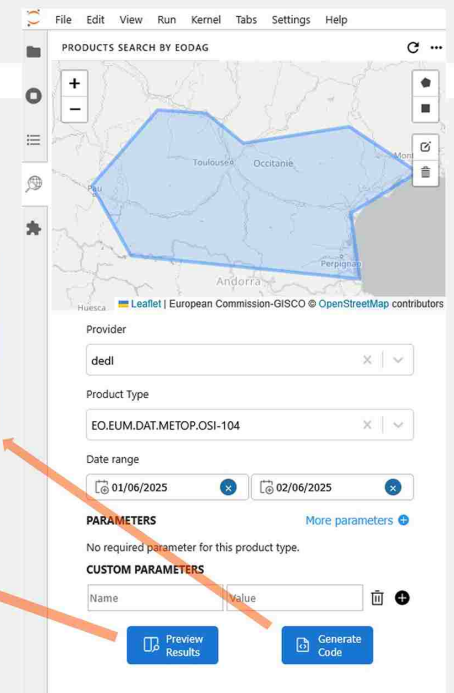
A Jupyter Lab extension

- Seamless Data Discovery within JupyterLab
- Integrated Access to DestinE data and Federated Data
- Accelerated Workflow and Analysis



Open Source

EODAG and EO Catalog are Apache 2.0 Open-source Software.



DEDL HDA documentation

References

- [1] CloudFerro S.A. Nowogrodzka 31, Warsaw Poland
- [2] CS Group, avenue Galilée, LE Plessis Robinson, France
- [3] EODC, Franz-Grill-Straße 9, Vienna, Austria
- [4] EUMETSAT, Eumetsat-Allee 1, Darmstadt, Germany
- [5] EODAG - <https://github.com/CS-SI/eodag>
- [6] EO CATALOG - <https://github.com/cs-group-oss/eo-catalog>
- [7] STAC - <https://stacspec.org/>