

## **EDEN service in the platform**Interacting with DestinE Data Portfolio

Simone Mantovani on behalf of the EDEN team MEEO, Italy



- Funded in 2004 as a garage company
- Moved in "The most beautiful road in the world.»
- SISTEMA branch company in Vienna
- ESA added value partner
- Climate-KIC Affiliated partner
- Big Data / Data Cube
- e-Collaboration Environment
- ADAM platform





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### Data access (r)evolution

- Big Data & Challenges
- User communities
- Core technologies
- Services



#### **MEEO role in Destination Earth**





Code of conduct



Data Lake

**Data Sources** 







Dissemination

Traceability

Workflow











Services Registry



For ARCO data, the service offers the EOPF data model, ensuring enhanced compatibility and efficiency in data analysis



ACRI EARTHLAB MEED®

**External Services** 

HIGHWAY EO DATA SPACE **Enabling Seamless Data** and Processing Access within the Digital Twin Earth a pivotal conduit for integrating ESA Earth Observation Data into the Digital Twin Earth program through the **DestinE** (Destination Framework



for the exploration and utilization of data from key Earth observation

both their native formats and as Analysis-Ready Cloud-Optimized

















Destination Earth the European Union















Visualization

AI/ML

Service Desk









Sandbox











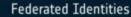


Identity and Authorisation Managment

Advanced Applications & Services









Interacting with DestinE Data Portfolio

**Does it** work? this is honest but ruthless presentation

I'm (not)

sure it

works

# DestinE Data Portfolio How it is **presented**

DestinE Data Lake provides users with a seamless access to the datasets, regardless of data type and location

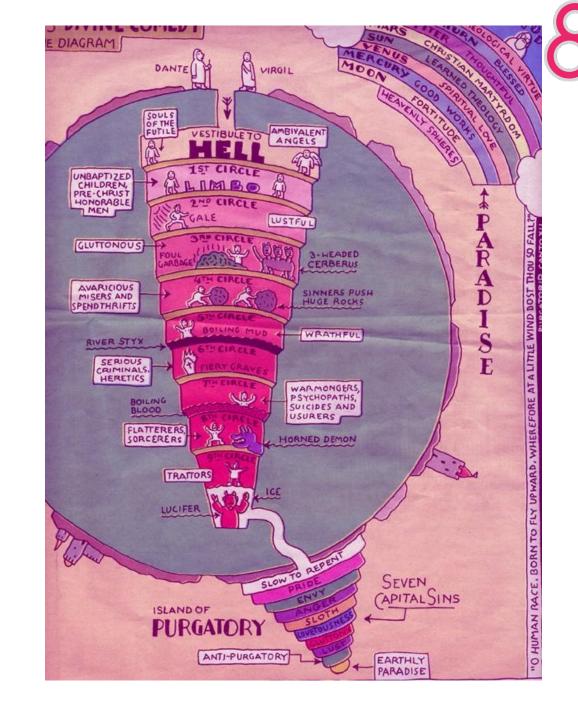
- DestinE Digital Twin Data
- Federated Datasets
  - EUMETSAT Big Data Services
  - ESA Copernicus Data Space Ecosystem
  - Copernicus Services (Atmosphere Monitoring, Climate Change, Marine, Land, Emergency)
  - ISIMIP
  - IAGOS
  - USGS NASA
  - ....
- ..



## DestinE Data Portfolio How it is **perceived**

DestinE Data Lake provides users with a seamless access to the datasets, regardless of data type and location

- DestinE Digital Twin Data
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  - ....
- ...







Integration with DESP monitoring

Integration with DESP Service Registry

User quotas

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Performance

Extension of the data portfolio (EUMETSAT, Copernicus services, ...)

Cloud-native data transformation

...

- Backend services setup
- Integration with ESA Copernicus
  - **Data Space Ecosystem**
- Integration with IAM
- Frontend services setup

In short: we are entering our comfort zone...

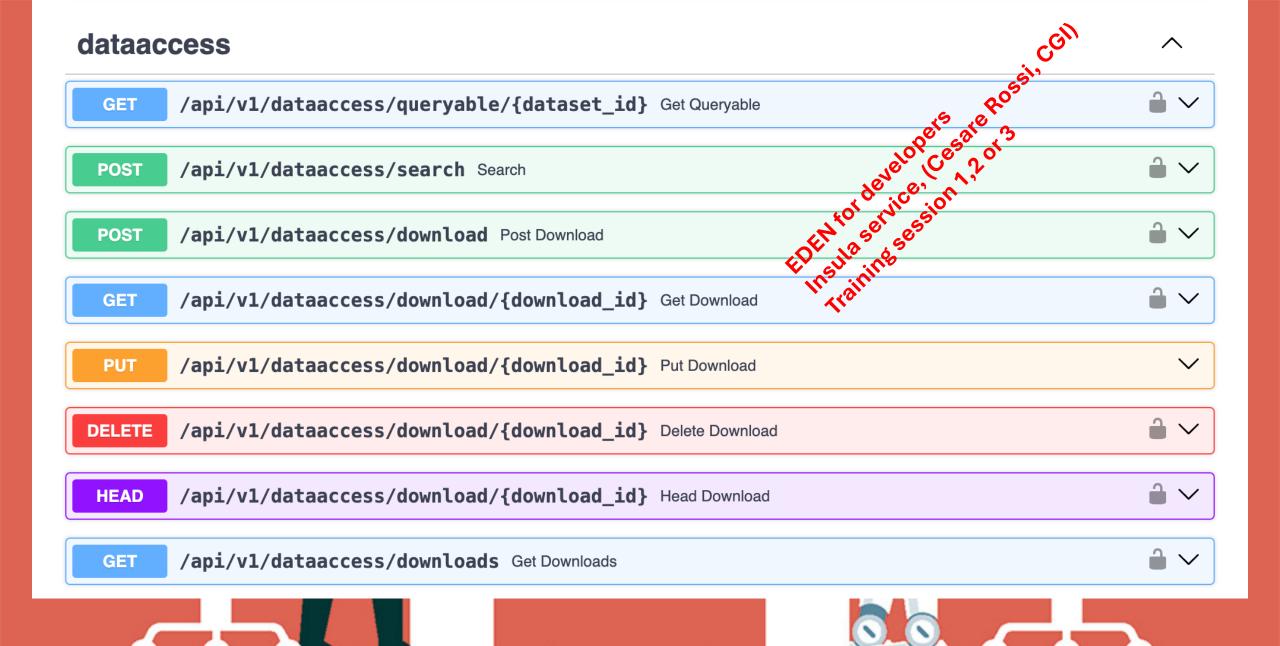
...we need to gett ready for the next circle

How do we feel after few circles of DestinE Data Portfolio?

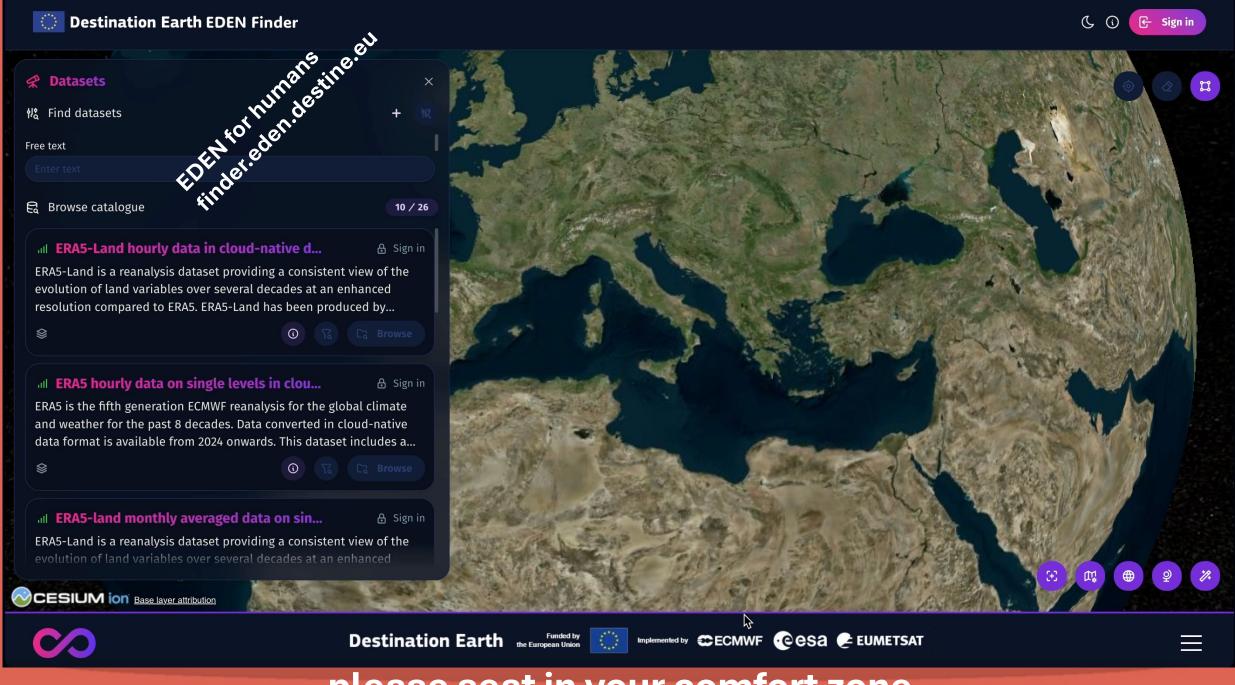
 Data of interest always comes from the next circles...

...as well as metadata, constraints, exit codes and error messagges

- To improve user life
  - we added yet another circle...the cache circle
  - we extended the data
    portfolio with yet additional
    datasets...the cloud-native
    datasets









cit. Liina Munari Deputy Head of Unit, DG CNECT.C1





https://platform.destine.eu/services/service/eden/ https://finder.eden.destine.eu

#### **MEEO**

**Meteorological and Environmental Earth Observation** 

Corso Ercole I d'Este 6/A 44121 Ferrara (FE), Italy www.meeo.it - info@meeo.it

