



**Diego Pozo Morillas**

**« EO Data access: extenSO, a DIAS Lesson Learnt »**

**LIST EO DAY, 12/10/22**

The screenshot shows a Google search interface. At the top left is the Google logo. To its right is a search bar containing the text "sentinel download problem". Below the search bar are navigation tabs: "All" (with a magnifying glass icon), "Videos" (with a play button icon), "News" (with a newspaper icon), "Images" (with a picture icon), and "Shopping" (with a tag icon). Below these tabs, a horizontal line is visible. Underneath the line, the text "About 13.200.000 results (0,53 seconds)" is displayed.

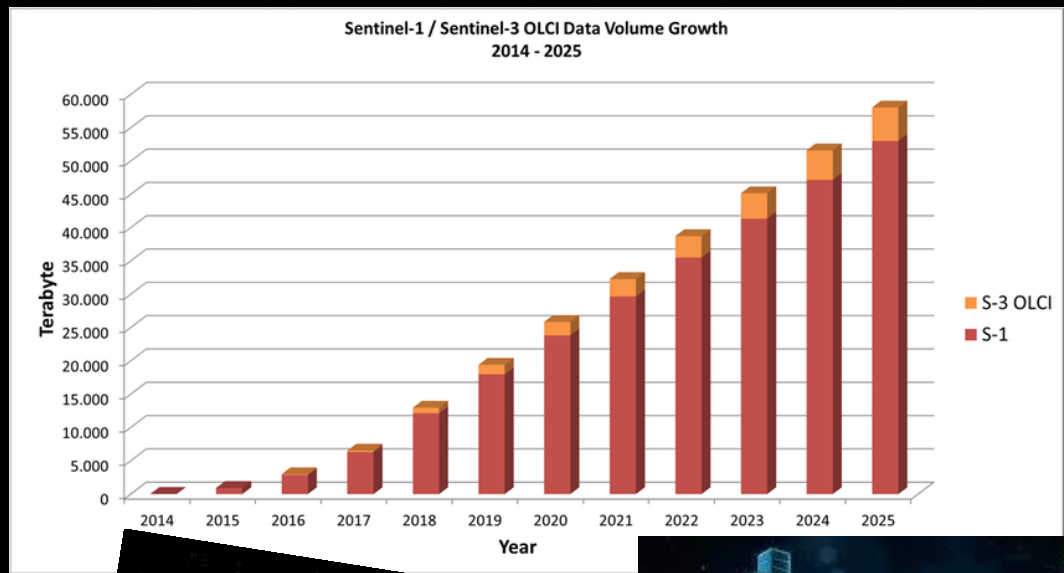


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LIST EO DAY, 12/10/22

Vast amount of Data, growing exponentially



opernicus  
sobloo  
DATA INFRASTRUCTURE MARKETPLACE HELP  
Beyond the data, Creative grounds  
PLAY  
45 961

# SERVICING COPERNICUS DATA

## DATA ACCESS



Cloudless servers  
consuming resources



Bottleneck,  
delays,  
performance

## DATA EXPLOITATION TO CREATE ADDED VALUE SERVICES

2000 users  
3000 in Hackathons  
Same questions



4-6 November



1. Enabling green and sustainable in
  2. Innovative financial tools and tech
  3. Advancing global financial intelligence-  
Antwerp and Northern Italy
- Tasking Pneo for dedicated 30cm images

## HOWEVER...

1 PB ~ 20k€ / month  
100 PB ... / year



OR

Dependency  
from one source



Some archive data  
GUI + on demand only



Environmental cost for  
Environmental apps?



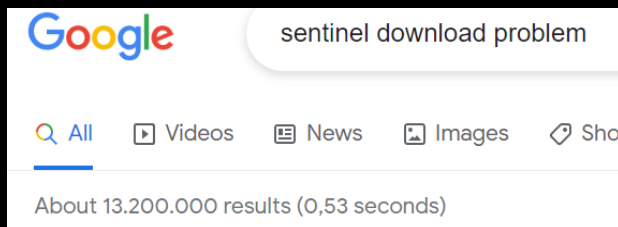
*Solution?*

- ✓ *DevOps*
- ✓ *Agility*
- ✓ *Data Policy*
- ✓ *Listen to users*

*Way forward?*



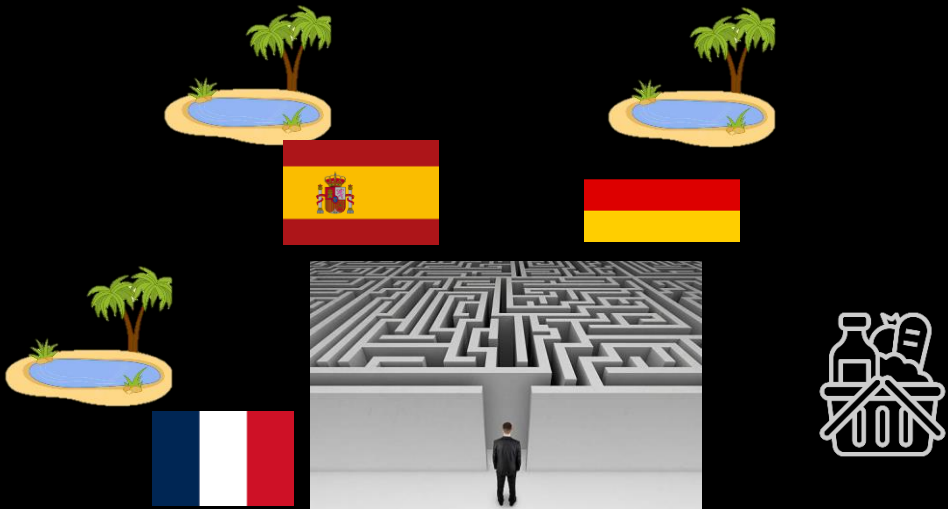
LSA Data Centre  
DIAS 2.0??



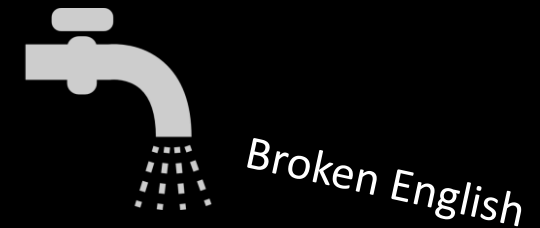
## A DIFFERENT ANGLE



As opposed to a different path to go find scattered, possibly different data



Let it flow to you in a unified, user transparent and robust interface



# **EXTENDED SEARCH AND ORDER**

## **ONE search engine to ALL your data**

*Multiple sources to avoid downtime blockage*



*Weighting the best available source for each order*



*Taking care or warming up, retries, switching sources if needed*



*Data and cost P2P sharing for sustainability*



*Homogeneous interface for all APIs, simplifying coding, also generated from GUI*



*7 months of Sentinel-3 data dropped in another Cloud Provider bucket in 2h -> scalable, could have been 30 mins*



*Bringing scattered data into your bucket*



*Dropping the order directly at your bucket. Data comes to you, not the opposite*



*(\*) An API Search Engine, considering other domains such as medical, financial, insurance, etc.*





## ***EXTENDED SEARCH AND ORDER***

*Exists because we listened to thousands of DIAS users asked for it*



**CONTACT US / CONTRIBUTE**

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**HOW TO**

**[HTTPS://API.ONEATLAS.AIRBUS.COM/GUIDES/EXTENSO/G-](https://api.oneatlas.airbus.com/guides/extenso/g-)**

**[EXTENSO-ABOUT/](https://api.oneatlas.airbus.com/guides/extenso/g-extenso-about/)**



**AIRBUS**