

LUXEMBOURG EARTH OBSERVATION AND INTEGRATED APPLICATIONS DAY

Space Applications in Environmental Management

The Luxembourg Sentinel Collaborative Ground Segment Hub

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The Luxembourg Collaborative Ground Segment (LU CollGS) is the Luxembourg entry point to data products of the EU Copernicus Sentinel 1 and 2 Satellite Systems.

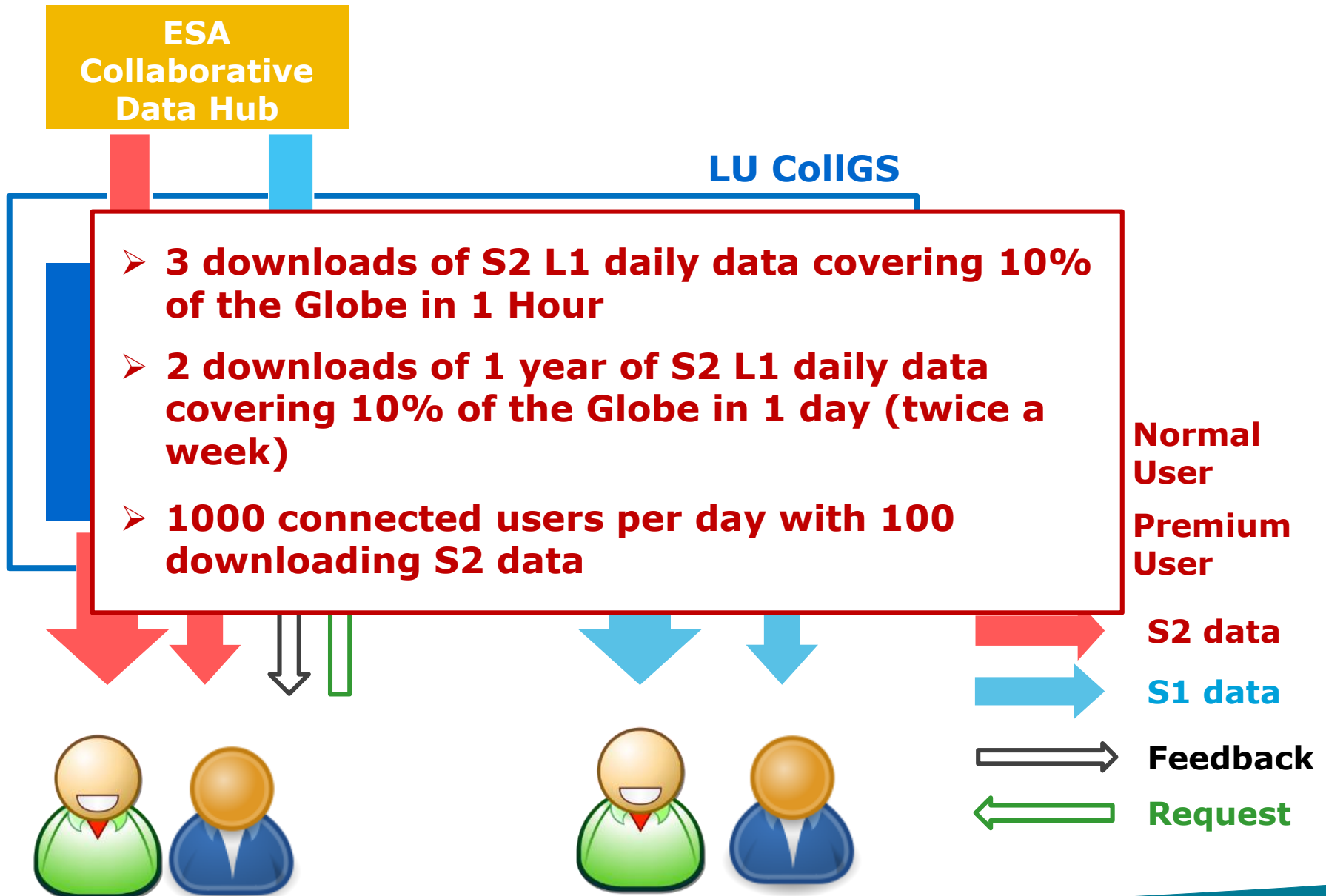
It should consist of two interconnected sites: one in Luxembourg for S2 data (in developing) and the other one in Wallonia for S1 data. All S1 and S2 data will be accessible from the LU CollGS.

The LU CollGS will allow the users to search, discover and download the Sentinel-Data.

The LU CollGS will provide two levels of services for normal and premium users.

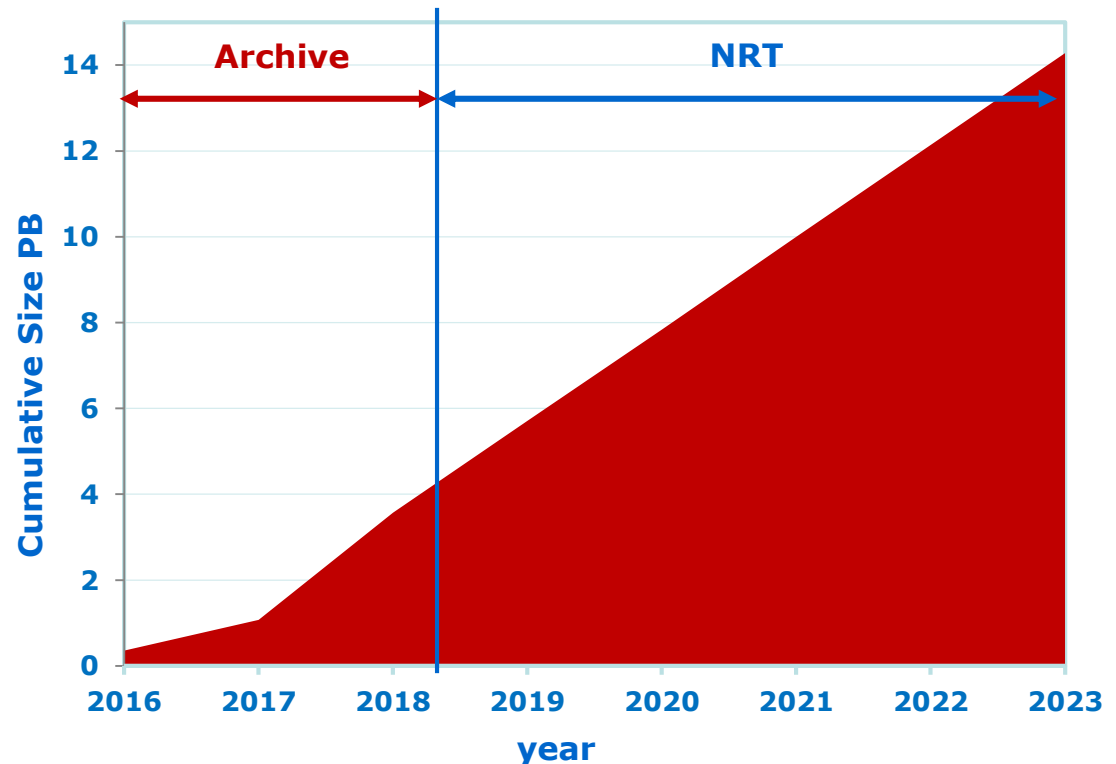
The LU CollGS is particularly intended to provide a privileged access to Luxembourg and Wallonia Users.

LU-WA DataFlow

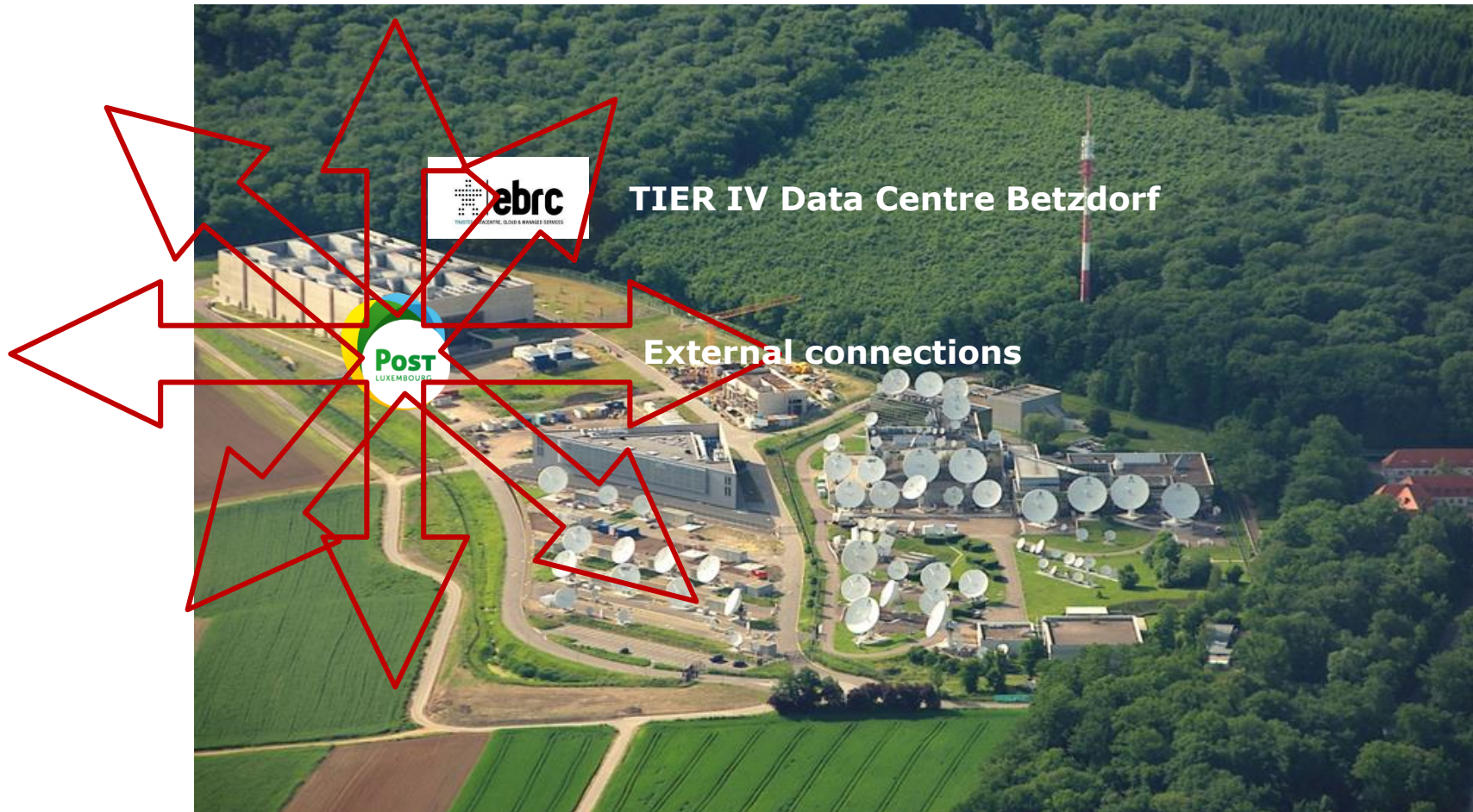


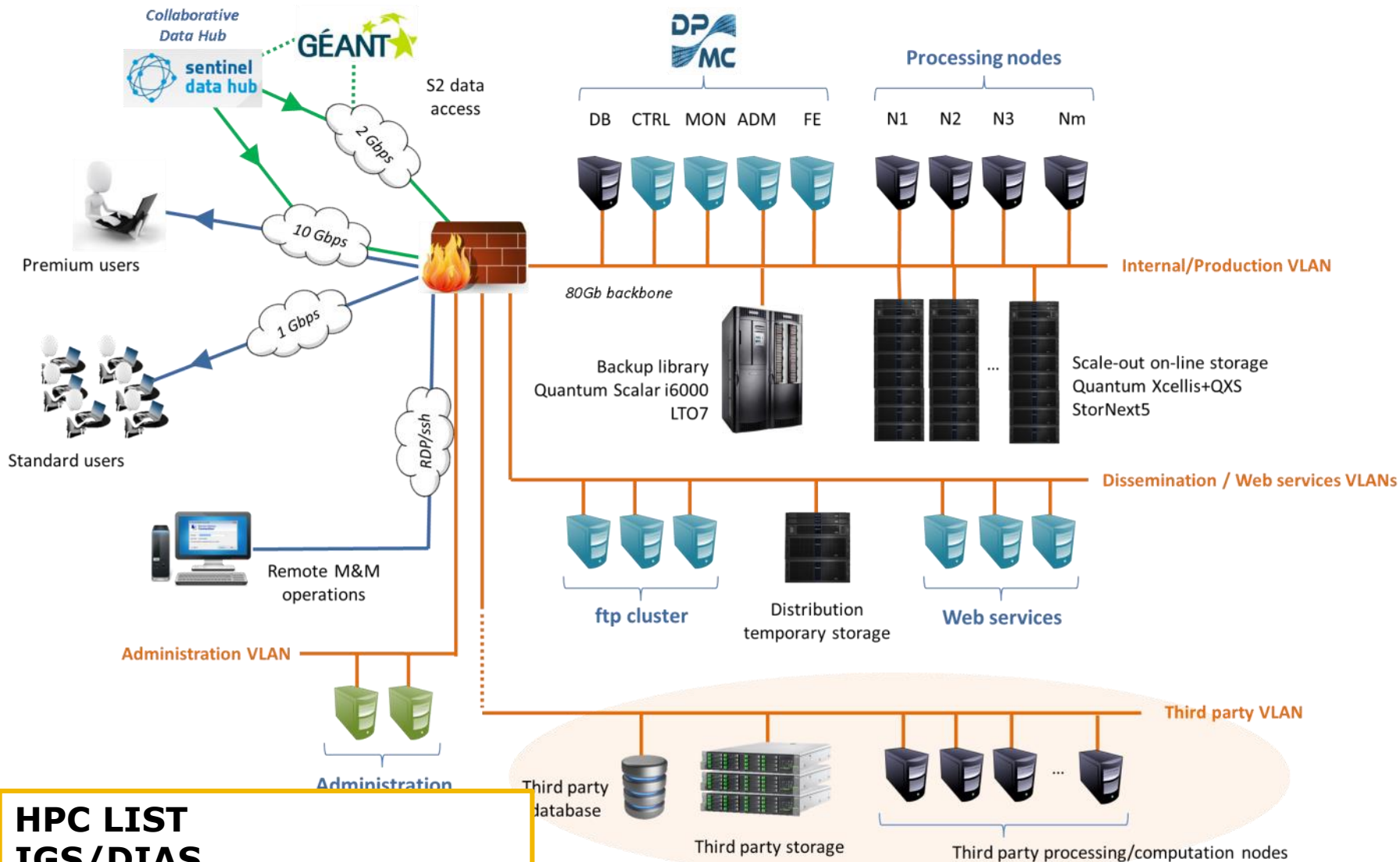
S2 Data Volume

Sentinel 1 A/B
Data End 2017 5.5 PB
Yearly Rate 3.7 PB/y
Data end 2022 24 PB



	2015	2016	2017	2018	2019	2020	2021	2022
S2A – Availability [months/year]	6	12	12	12	12	12	12	12
S2B – Availability [months/year]	0	0	10	12	12	12	12	12
Sentinel2-L1C [PB/year]	0.36	0.71	1.31	1.43	1.43	1.43	1.43	1.43
Cumulative Sentinel2-L1c [PB]	0.36	1.07	2.38	3.80	5.23	6.65	8.08	9.51
Cumulative Sentinel2-L0/L2a/others			1,19	1,90	2,61	3,33	4,04	4.75
Total cumulative size [PB]	0.53	1.60	3.56	5.70	7.84	9.98	12.12	14.26
	Archive [~4PB]			NRT				





**HPC LIST
IGS/DIAS
Authorised premium users**

Quantum Tape Library

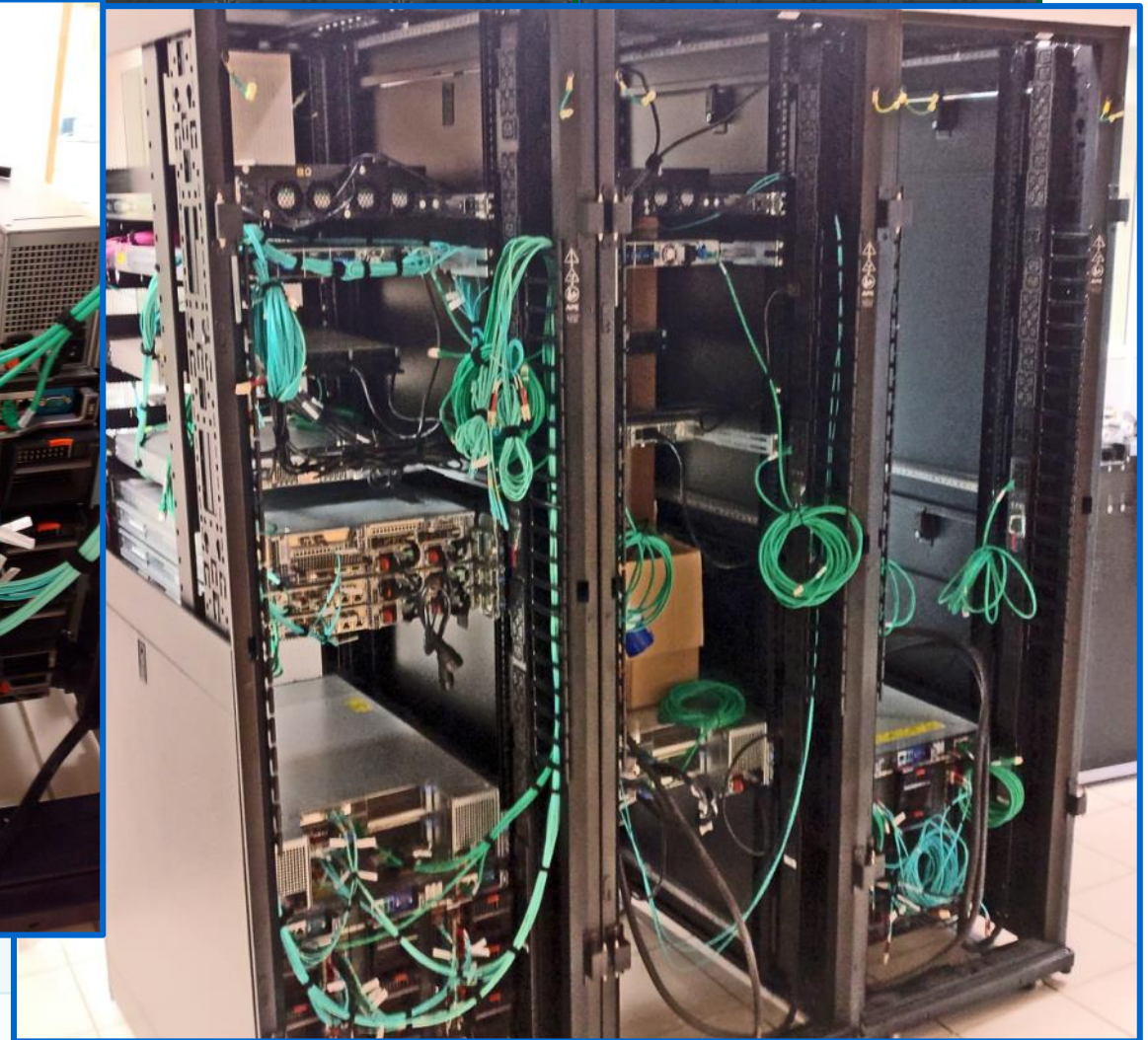
Cluster and Networking

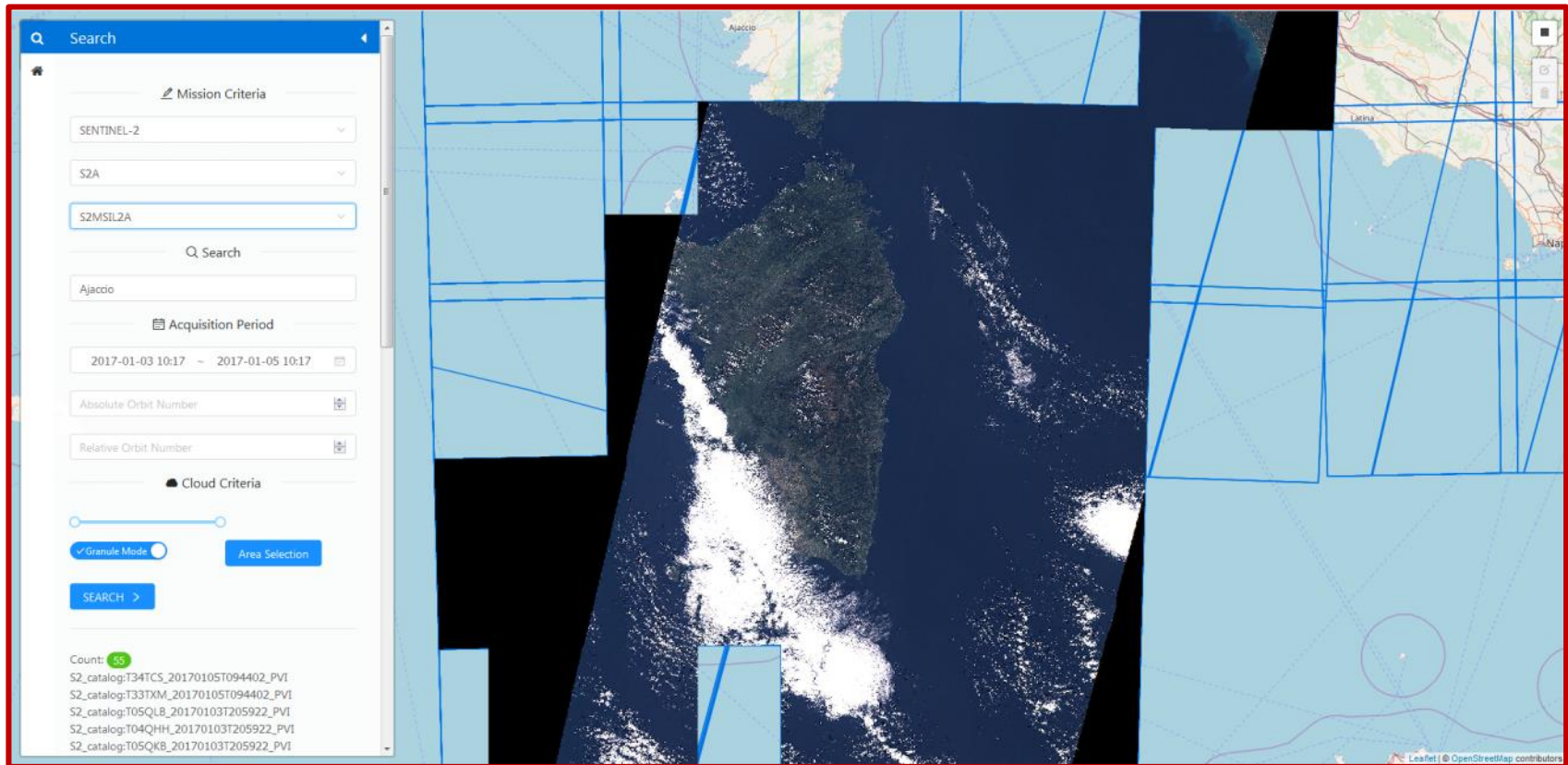
HD Storage



Internal Connections

Internet Connections





of data distribution

