

THE COPERNICUS GROUND SEGMENT

the experience of adwäisEO



adwäisEO SA is a Luxembourg company specialized in Earth Observation (EO) IT services.

adwäisEO provides **Ground Segment services for Copernicus Missions**. The company is involved in all Ground Segment chain from data reception to data distribution.

The company offers:

- **Multi Petabytes of archiving**
- Efficient **processing solutions** in **cloud** and/or **HPC** environment
- Intuitive **geoportals**

2000 TB

Fast Storage
SSD and NVME

5000

Physical Cores
Intel Xeon/AMD EPYC

2 PB

Objet Storage

53 PB

Scalar Storage
SAS 7.2k

50 PB

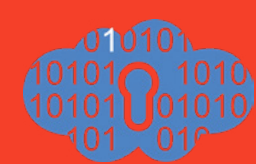
Tape Storage
LTO8

OUR MISSION

To provide you the best information technology services for space data

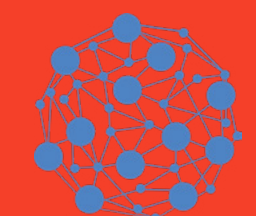
SECURE

We **Care** your data



DISTRIBUTE

We **Provide** easy access to your data



PROCESS

We **Process** and transform your data



ARCHIVE

We **Extract** informative content to create value



In satellite data chain the Ground Segment represents the bridge between the satellite and the users. Indeed the data downloaded from the satellite are just block of bites that need to be processed to be turned into user products, reprocessed when needed, archived, preserved and disseminated to be available and accessible for the users. In this segment adwäisEO contributes to many of these services.

ARCHIVING, PRESERVATION & DISSEMINATION

LSA Data Center



adwäisEO has designed and operates the largest Collaborative Ground Segment of Europe for Luxembourg Space Agency. Tens of Petabytes of Sentinel-1 and 2 data, all online and ready to be downloaded at the click of mouse by the users.

DAMPS Project



Secure and efficient archival solution, fast processing environment for ESA and third-party satellite data. adwäisEO is the main service provider of the PDGS Data Archival, Management & Processing Services.

Advanced Long-Term Archive



adwäisEO manages the operations for the long-Term Archive of Sentinel-1, 2 and 3 raw and auxiliary files for ESA. On premise full disk archive combined with cloud services for data distribution.

PROCESSING

Sentinel-3A Production

adwäisEO manages the operations for the Systematic production of Sentinel-3A Land product for ESA in a full cloud environment.

Sentinel-2 Reprocessing

High performance Kubernetes cluster and fast storage for the reprocessing of Sentinel-2 data. adwäisEO is one of the infrastructure providers and responsible for the operations.

CCI + SSS Project



Process more than 10 years of data of multiple satellites is not a problem for the production of sea surface salinity data.

QUALITY AND ADDED VALUE SERVICES

Optical Mission Performance Cluster

adwäisEO is infrastructure provider for the ESA Optical Performance Cluster: secure cloud solution and powerful HPC system for the quality control of Optical Sentinel data.

Sentinel 2 Global Mosaic

adwäisEO is service provider for the generation of Sentinel-2 based mosaic for the data for the EU Joint Research Center. Fast data access and powerful processing system for the production of global mosaic.



IS AN ACRI-ST
OPERATIONAL
COMPANY

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