

A satellite is shown in space, with its solar panels and various instruments visible. The background is a dark blue space with stars. The satellite has a central body with gold-colored insulation and several white panels. A large solar panel is visible on the left, and another is on the right. The satellite is mounted on a structure, possibly part of a larger spacecraft or launch vehicle. The overall scene is set against a deep blue background with a subtle star field.

Reference projects

Contributions to the Copernicus EO programme

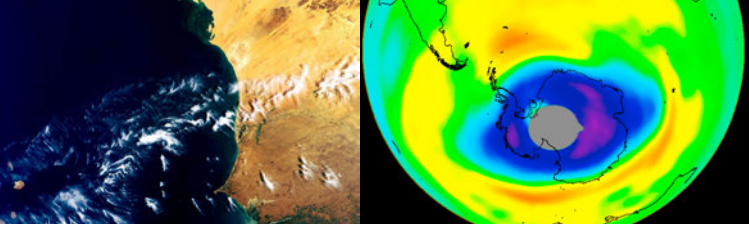
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Copernicus Long-Term Archive Service

One of the four Copernicus Long-Term Archives (LTA) is operated by Werum as a service in a public cloud environment using its **flexible, in-house developed orchestration framework**. Data products from the Sentinel missions are stored and catalogued for backup and data retrieval.

The service is designed with **strong safety considerations**, including security aware operations, solid backup strategies and resilience against disaster. The service software elements as well as the data storage are fully deployed in the European public cloud.

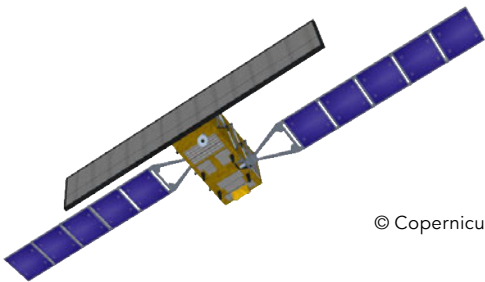




Sentinel-1 Production Service

With the launch of the Sentinel-1C satellite unit, Werum operates the Sentinel-1C Production Service as part of the Copernicus common ground segment. Werum has been an active partner for the Sentinel-1 **Payload Data Ground Segment (PDGS)** solutions development in cooperation with Airbus Defense & Space SAS for more than 10 years.

For the Sentinel-1C Production Service, Werum uses and operates its own **Processing Service software**, which has been adapted to the Sentinel-1 specific workflows and the Copernicus Data Interfaces. The service software and platform elements are fully deployed in the **European cloud**.

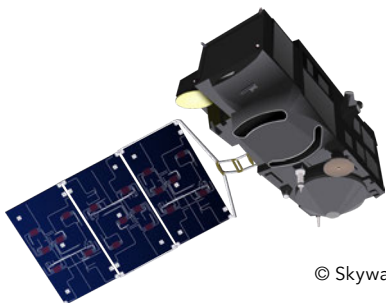


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Sentinel-3 Payload Data Processing

The **processing management solution for land and marine data** in the Sentinel-3 PDGS was also developed by Werum as a subcontractor of Telespazio S.p.A. and Telespazio Germany GmbH. The operational stability and high configurability of **Werum's PDGS solutions** have been a cornerstone for the successful operation and continuous evolution of the systems since their launch.



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EUMETSAT operates the latest setup of the Payload Data Processing (PDP) system for the Sentinel-3 marine data and is supported by Werum engineers in cooperation with Exprivia S.p.A..

**Contributions to
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Partner in ESA's Bureau d'Etudes

The ESA Bureau d'Etudes is a consortium of specialists, led by Capgemini SAS, for studies and development of prototypes for the Ecosystem of the Copernicus common ground segment.

Werum supports the topics of **Data Portals and the evaluation of the new data format** for the Copernicus missions.

Copernicus Reference System v1

The CSC Reference System in its first version has been developed in cooperation with Airbus Defense & Space SAS and CS Group. It provides a **reference and testing environment** for the Sentinel data processing workflows in a scalable cloud environment.

Werum is responsible for the development of the core services as well as the Sentinel-1 and Sentinel-3 production chains and the User Web Client. The reference system is equipped with the **full functionality of the operational production systems** and can serve as backup for the CSC Production Services.

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Programme of the
European Union



Copernicus
Europe's eyes on Earth

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