# Werum's contribution to the Copernicus EO programme
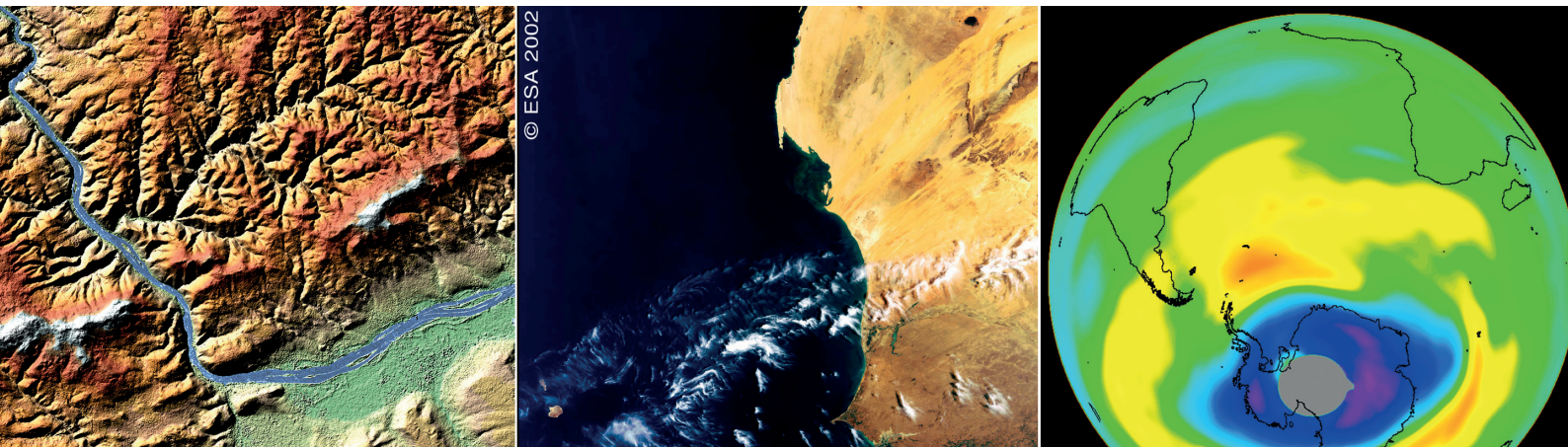
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## Sentinel-1, Sentinel-3 Marine and Land production management

The Payload Data Ground Segment (PDGS) components for the management of Sentinel-1 SAR processing workflows, including migration to a cloud-native software solution are handled by Werum as subcontractor of Airbus Defence & Space SAS. The processing management solution for land and marine data in the Sentinel-3 PDGS has also been developed by Werum as subcontractor of Telespazio S.p.A. and Telespazio Germany GmbH. The operational stability and high configurability of the Werum's PDGS solutions have been a corner stone for the successful operations and continuous evolutions of the systems since launch.

## Copernicus Space Component Data Access PRISM

Various backend functions of the Copernicus Space Component Data Access adapter system (PRISM), covering product ingestion, archiving in long-term and online archives as well as distribution, are developed and maintained by Werum. The distribution function serves authorized users to download the available products with different protocols. The whole design of the archiving and distribution functions is driven by archiving performance and high availability requirements.

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SOFTWARE & SYSTEMS

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## Sentinel-1, Sentinel-2, Sentinel-3
## 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.

## Copernicus Space Component
## Reference System

The latest ongoing project is the CSC Reference System, which is developed in cooperation with Airbus Defence & 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 -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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