CloudFerro – CREODIAS presentation for ICS

CloudFerro is a provider of innovative cloud services. We provide cloud computing and data storage in the service mode (IaaS - Infrastructure as a Service). We build and operate cloud computing platforms for specialized market segments, such as the European space and meteorological sector. Our broad experience in storing and processing big data sets includes multipetabyte repositories of Earth Observation satellite data.

We are fully **European** private ICT company with Polish roots. We offer **elastic cloud solutions** in a public, private or hybrid cloud deployment model, based on **open source technologies**, **customized** to meet user needs and **cost-effective**. Our extensive range of ancillary services and dedicated technical support is delivered by an experienced, local team with unique competences.
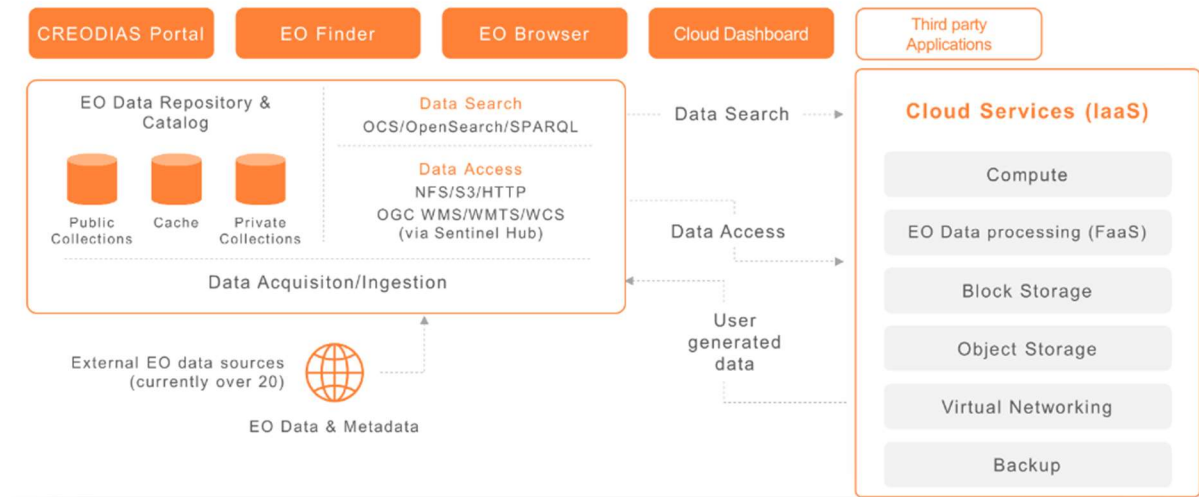
Our solutions are used by leading European firms and scientific institutions from various market sectors, which process big data, including the European Space Agency (ESA), the European Centre for Medium-Range Weather Forecasts (ECMWF), Mercator Ocean International, German Aerospace Centre (DLR), the EGI and many others.

On a CREODIAS platform we offer:
- ✓ **Cloud computing** environment based on OpenStack system with all key elements: virtual machines, dedicated baremetal servers, containers, operating system and software images. Our public cloud is available at CREOIDAS.eu

- ✓ **Storage services:** volume storage : magnetic HDD storage, fast SSD storage, backup solution (in remote locations), image service (OpenStack Glance), snapshots, object storage and free access to Earth Observation (EO) big data storage with satellite data and additional data services like data disk upload and download

- ✓ **Data related services**: 20 PB of EO data - near real time satellite imagery and time series from Copernicus program with EO Browser and EO Finder for data search, ordering and API access, plus VHR EO data (up to 50 cm spatial resolution) .

- ✓ **Virtual networking services**: virtual networks, virtual routers, Internet connectivity, public IP numbers, Load Balancer as a Service virtual (LBaaS) appliance, fixed bandwidth Internet connectivity.

- ✓ **Security services**: authentication and authorization service (OpenStack Keystone), access groups, Firewall as a Service (FWaaS) virtual appliance, VPN as a Service, software upgrades.

- ✓ **Jupyter Notebooks** - an online, web-based programming environment, seamlessly connected with Earth Observation data repository. Perfect platform for prototyping and developing new ideas for algorithms and services. Available free of charge for registered Creodias users, it supports multiple programming languages.
- ✓ **Additional services**: cloud orchestration solution, general reporting and monitoring services, direct data connections to the platform, data marketplace application, elements of application marketplace, engineering support and engineering consulting and project implementation

- ✓ **Professional Support:** The support is based on the internal support team, covered by in-house teams as CloudFerro controls its full technology stack (from hardware to open source software) .

- ✓ **See full offer at: https://creodias.eu/price-list**

CREODIAS platform in one picture:

Collaboration with science and organizations:
We work with over 20 scientific institutions and research centers across Europe, such as the European Space Research Institute, Joanneum Research Forschungsgesellschaft mbH, Plymouth Marine Laboratory, Institut des Geosciences de l'Environnement - Université Grenoble Alpes, Polish Institute of Geodesy and Cartography, UiT the Arctic University of Norway and others. We provide resources to the scientific projects as well as we participate in many H2020 projects and procurements.

We are a member of the European Open Science Cloud and Copernicus Relays network, also cloud provider of the OCRE.

We belong to such organizations as EARSC (European Association of Remote Sensing Companies), ZPSK (Association of Space Sector Employers), AHK (Polish-German Chamber of Industry and Commerce).

Apart from vouchers granted by OCRE, we offer **special pricing** (-18.5%) **for scientific institutions**.

You can reach us by email sales@cloudferro.com or using the form at: https://creodias.eu/contact-us