CloudFerro presentation – cloud provider for OCRE

10 May 2021 – for Restena

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Business Development, CloudFerro

AGENDA

1. About us

2. Short introduction to CREODIAS

3. Inspiration for science - examples

4. Our offering

Technology value for customers

1. **Full IaaS and technology stack under one roof**:
   - own server production, public and private clouds, dedicated servers, hybrid solutions; extended with PaaS addressed to the satellite community

2. **Open Source:**
   - mature cloud management system based on industry standards Openstack and Ceph technologies, **no vendor lock-in**

3. **Connection** to **Geant network**

3. **Security**:
   - infrastructure located in dedicated neutral Tier3 data centers in Europe, ISO 9001, ISO 27001

4. **Reliable technical support** vailable 24/7

5. **Compliance with EU laws and standards:**
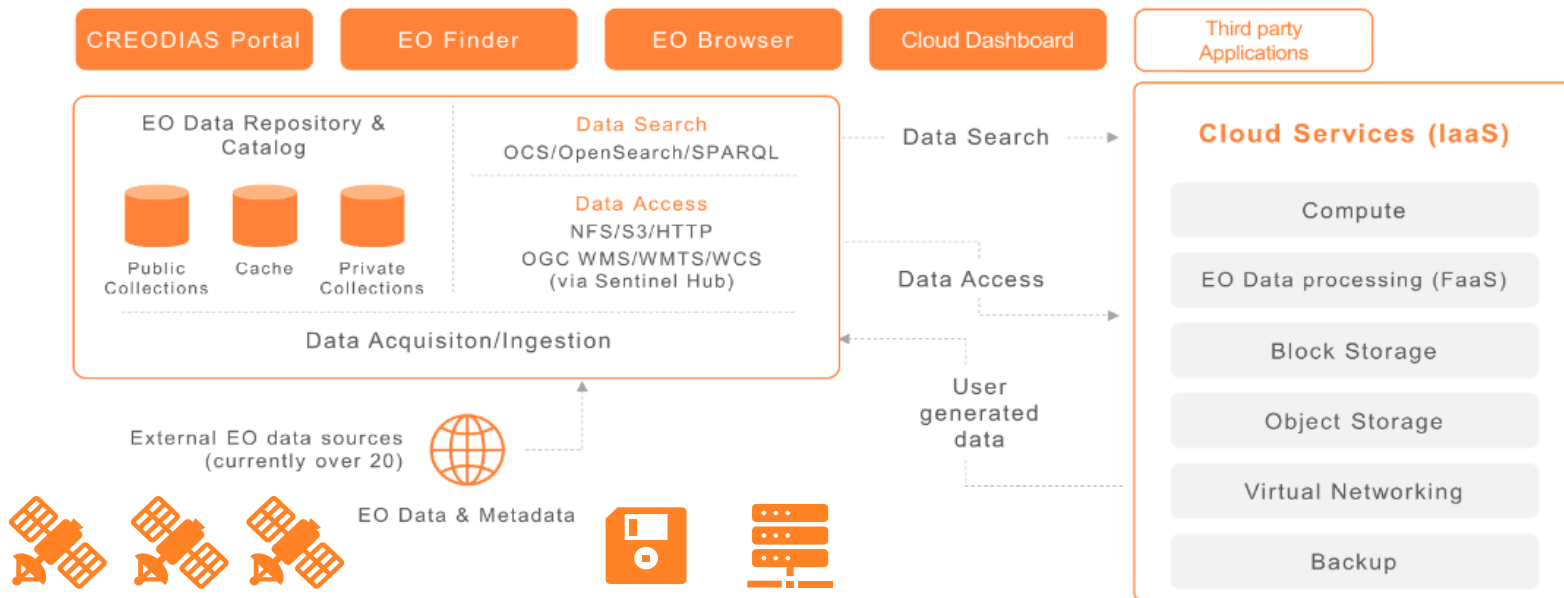   - data and processing in EU based Data Centers

6. **Cost-efficiency:**
   - transparent, flexible, effective cost models, discounts and financing options

CloudFerro

CREODIAS platform

CREODIAS in a nutshell

Open-Source: BASED ON OPENSTACK and CEPH

ACCESSIBLE VIA API AND GUI

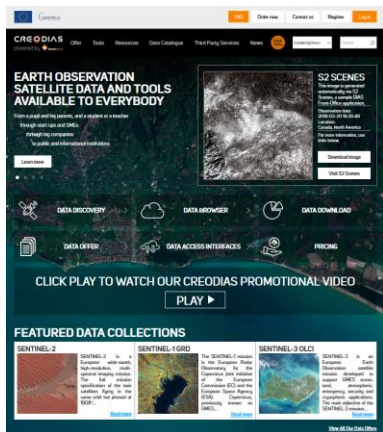**SEPARATE ADMINISTRATIVE DOMAINS FOR DIFFERENT CUSTOMERS**

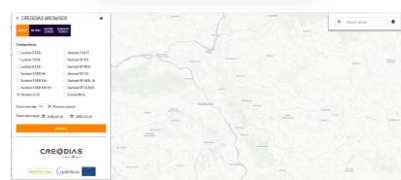**FULLY INTEGRATED WITH EO REPOSITORY AND CATALOGUE**

openstack
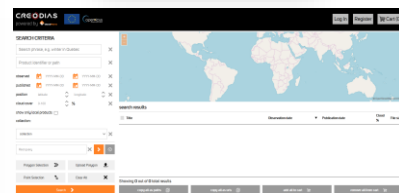
ceph

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Tools for science

CREODIAS Portal

EO Browser

EO Finder

Third party Applications
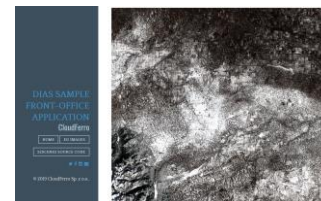
Cloud Dashboard

Jupyter Notebook

CloudFerro
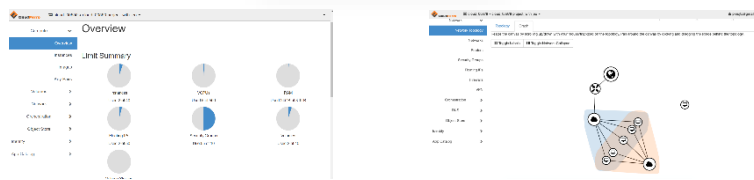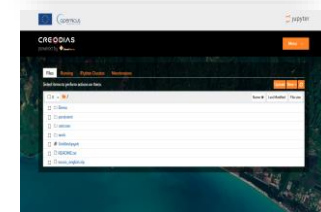
Our customers and partners

Why choosing cloud for R&D projects?

Fast, efficient processors and scalable infrastructure	**Processing BIG data**	**Satellite imagery**

Dissemination of results
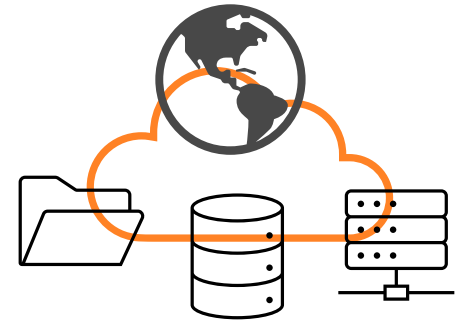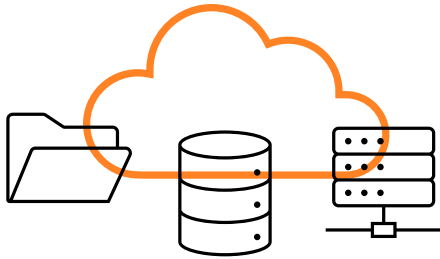
Use Case: S2GLC – Land cover classification

Prices

1. Price list (no hidden or additional costs **no egress fee**)

2. Billing models

   - **Fix term** – more economic for long projects with well defined limit

   - **Pay-Per-Use** – flexible solution for trials and agile projects

3. Discount for science institutions **18,5%**

4. **150€** for free testing of our services - Start your testing now

5. Elastic solutions tailored for our clients

CloudFerro

Provider - CloudFerro

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Public, private and hybrid cloud services

Own infrastracture and stantardized API OpenStack software

6 data centres 3 countires & access to GÉANT

Optimized for scientific users

Direct access to over **21 PB** of Earth Observation data

Rich knowledge base, professional Support

ISO 9001:2015 CERTIFIED COMPANY

ISO 27001:2013 CERTIFIED COMPANY

CloudFerro

For more information, please visit: cloudferro.com/en/ocre

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Company history

CREODIAS
powered by CloudFerro

One of five DIAS, European platform with public cloud and integrated EO satellite data, built under Copernicus program (ESA)

All 5 large-scale platforms working on production, interoperability and synergy

Development of new functionalities, data sets, infrastructure configurations, increasing number of customers and platform users

Sen4CAP and VHR imagery in our offer

EO CLOUD
Earth Observation Data

Climate Data Store

CODE DE

The German platform providing EO data from European satellites regarding Germany; users can benefit from synergies with other DIAS platforms (DLR)

EO IPT - Innovation Testbed for EO data processing (ESA)

Hybrid cloud to access, analyze and distribute one of the largest climate datasets worldwide (ECMWF)

WEkEO

Second DIAS based on our cloud, providing access to satellite data on climate and meteorology (EUMETSAT)

CloudFerro was founded

2015	2016	2017	2018	2019	2020
	14 Employees	24 Employees	32 Employees	56 Employees	80 Employees**
	0,9 PB of data*	**1,5 PB of data**	**4,5 PB of data**	**13 PB of data**	**Over 20 PB of data**

* Amount of EO data publicly available for users, mid of year

** Jan 2021

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CloudFerro offer

1. VM falvours

Virtual Machines				
Available VMs	#vCores	RAM (GB)	SSD Network Storage (GB)	SSD Local Storage (GB)
eo1				
eo1.xsmall	1	1	8	-
eo1.small	2	2	16	-
eo1.xmedium	1	2	8	-
eo1.medium	2	4	16	-
eo1.large	4	8	32	-

hm				
hm.medium	2	16	64	-
hm.large	4	32	128	-
hm.xlarge	8	64	256	-
hm.2xlarge	16	128	384	-
hm.3xlarge	32	256	384	-
hm.4xlarge	48	484	348	-
hmd**				
hmd.medium	2	16	-	50
hmd.large	4	32	-	100
hmd.xlarge	8	64	-	200
hmd.2xlarge	16	128	-	400
hmd.3xlarge	32	256	-	800

2. Object storage, file storage

3. OS: OpenSource (linux) and Windows

4. Other cloud services described on https://creodias.eu/price-list

5. Access to: knowledge base, support