



OCRE & Orange Webinar

Jean-Pierre Aerts – Product Management



Agenda



Start	End	Topic	Who
10:00	10:10	Introduction by Belnet	Jean Pierre Aerts
10:10	10:15	About Orange	OCRE Orange Team
10:15	10:35	Orange Public Cloud Platform and Services	
10:35	10:50	Orange Support for Projects	
10:50	11:00	Q&A	

OCRE (Open Clouds for Research Environments) – General introduction



- Framework agreement (EU/NL procurement) for cloud services
 - The OCRE tender is conducted under the procurement law of the Netherlands (NL), called AW12. This procurement law conforms to EU procurement directive 2014/24/EU with some national implementation specifics.
- The framework agreements will be valid for four years until 2024.
 - Jan 2021 – Dec 31, 2021, will have a 5-year term
 - Jan 2022 – Dec 31, 2022, will have a 4-year term
 - Jan 2023 – Dec 31, 2023, will have a 3-year term
 - Jan 2024 – Dec 31, 2024, will have a 2-year term
- Can be immediately consumed without any commitment.

More information:

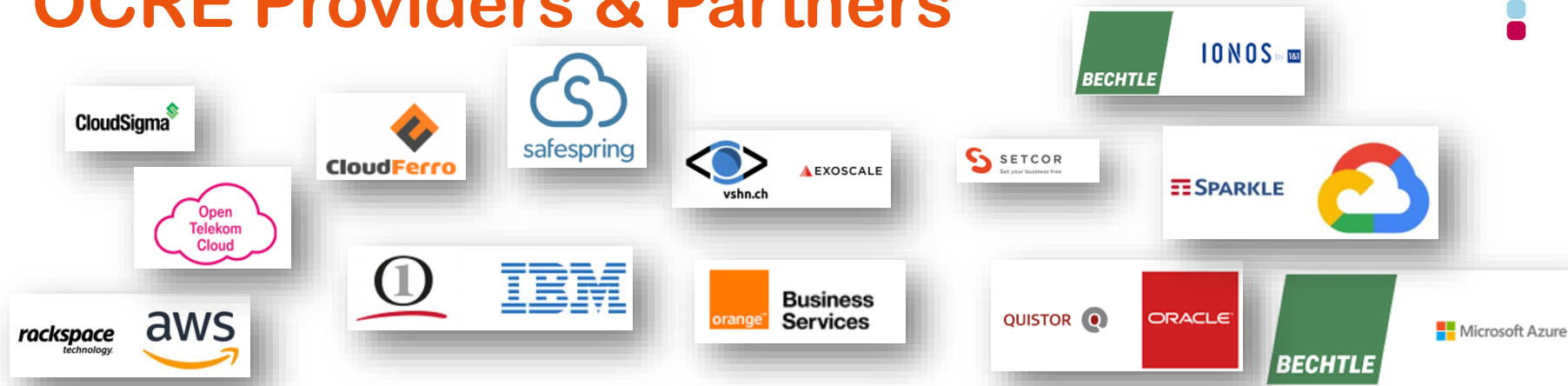
<https://www.ocre-project.eu/national-research-and-education-networks-nrens-and-member-institutions>

OCRE @ Belnet



- Belnet acts as a referrer and can guide you in making the right decisions and getting in contact with the right people.
- Contracts are signed between the customer (institute) and the partner/provider itself.
- Huge offer for IaaS, SaaS, PaaS. It also includes an “Earth Observation” tender for Copernicus satellite data processing services built on the DIAS platform.
- Want to find out more, please send an e-mail to:
cloud.geant@belnet.be.

OCRE Providers & Partners



- OCRE: Open Cloud for Research Environments
 - Substantial discounts with 13 cloud providers
 - No Call for Tender needed, just sign a contract with the reseller
 - Regular work shops: subscribe to our [OCRE FI@sh](#)
 - Advice by Belnet: no strings attached, no costs attached
 - Cloud Connect: Express route for MS Azure

A photograph of two women standing in a large, ornate museum or gallery. The woman on the left is older, with short white hair, wearing a light-colored cardigan and white trousers. The woman on the right is younger, with long brown hair, wearing a brown sweater and jeans. They are both smiling and looking at each other. The background shows a grand interior with high ceilings, large windows, and classical architectural details.

Thank you for your attention

Belnet
dedicated connectivity

Flexible Engine, a highly secure European cloud



**Business
Services**

OCRE

Open Clouds
for Research
Environments

Belnet
dedicated connectivity

Who we are

1

**What we are
proposing**

2

**How to
engage us**

3

**How we think
we can help**

4

Who we are



**Business
Services**

143000

**Employees
worldwide**

256 million

Customers globally

3000+

MNCs

500+

start-ups supported

3 900

**AI, Data & Digital
experts**

2 400

Cloud experts

7000+

Registered patents

230 In Europe

in 2019

700 million€

on R&I

100+

Research partners



2 100

Cyber defense experts

8 000

**employees in
Research & Innovation**



Belgium



More than **1,1 million** IoT Cards



1,279 Billion€
Turnover (2018)



1 459
employees



6 Million
active SIM
cards in
Belgium

Neutral in CO₂



Mobile solutions, fixed and IoT combined

100%

National coverage in 4G



CARRIER
GRADE
Fiber network



Mobile IoT

100 % coverage
99,7% deep indoor



Cloud is at the heart
of our Engage 2025
strategic plan

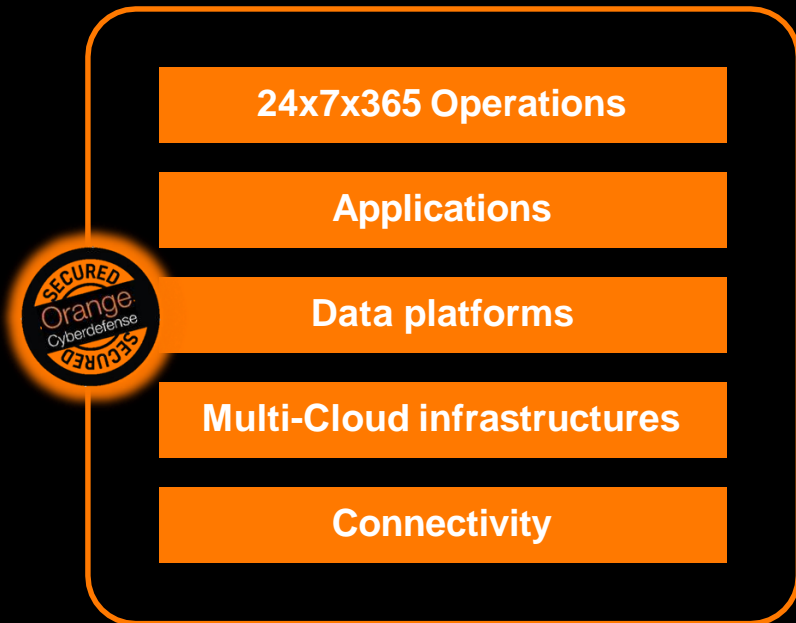


Engage
2025

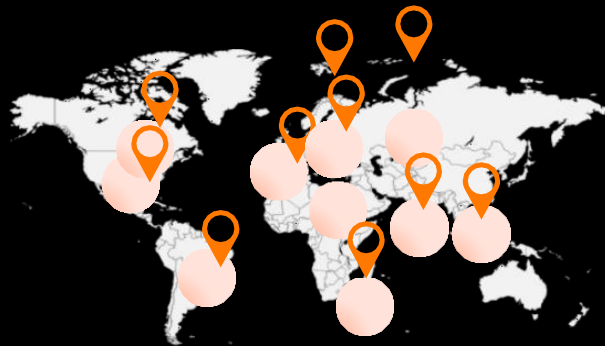
**“Accelerate the development
of IT services”**

Offering unique capacity to deliver trusted multi-cloud foundations, globally

End-to-end Service offer



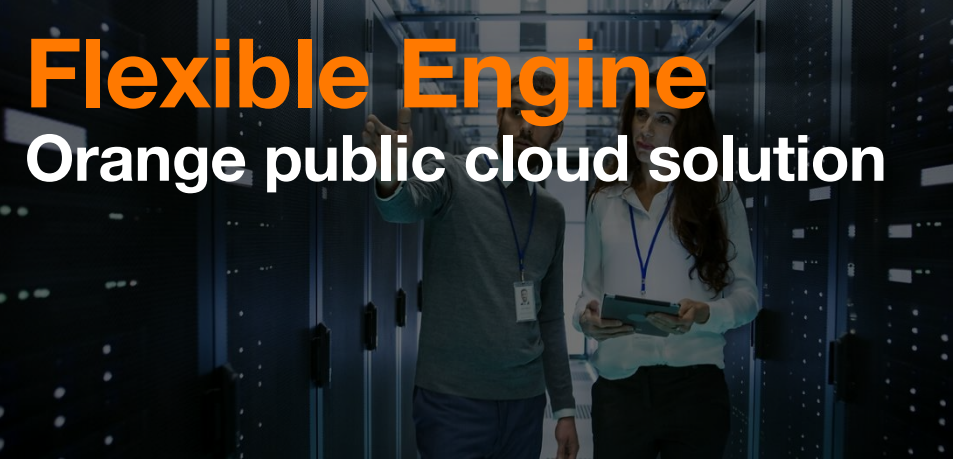
Global reach



5 MSC, 16 SOC, 10 CSO, 12 CCoE, 70+ DC



What we are proposing



Flexible Engine

Orange public cloud solution

3+ workshops
per year and
per Country



Solution compliant

with all minimum
requirements



21/21
Countries awarded



Belgium

a **Collaboration
Model** aligned to
promote the
adoption of cloud
services

Exclusive conditions


for infrastructure
and support
services

- network “peering”
with Géant
- waiver of
outbound charges





European Cloud platform
with 6 data centers in Europe,
Local Contracts,
full GDPR compliant,
Designed, built and operated by Orange.

Based on  **openstack™**,
the most widely deployed and
supported cloud
infrastructure.



**Flexible Engine to be
part of Gaia-X
ecosystem, with
Orange as a
founding member.**



GAIA-X

Highly certified



**A complete IaaS solution
with a wide range of
PaaS features**



**With a secured perimeter designed by
Orange Cyber Defense.
24/7 SOC (16) and CyberSOCs (10)**

Supporting

17 200

Virtual machines

32 500

Terabytes stored

2 100

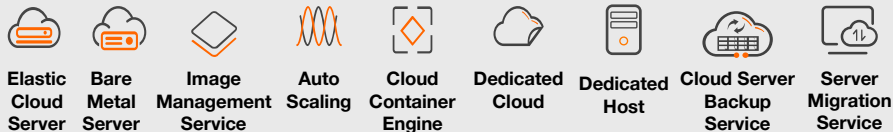
Customer domains

99,99%*

Service guarantee
(99,998% in 2020)

Flexible Engine Services

Compute



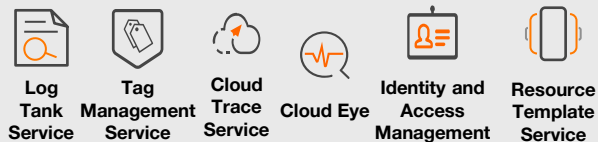
Data Analysis



Storage



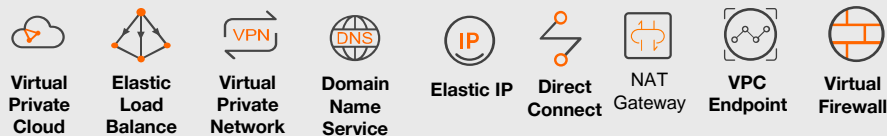
Management



Database



Network



Security



Application Services



Including advanced services



ModelArts

Artificial Intelligence PaaS, single platform to integrate and label data, train models, manage inference and deployment of models, all thru an intuitive interface.



Label data



Train model



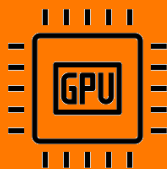
Deploy model

Cloud Container Engine (CCE)
a fully integrated GaaS
following Kubernetes
community releases.



GPU flavors

with NVIDIA cards enabling high-performance computing, graphics applications or artificial intelligence processing.



Cloud Search Service (CSS)
distributed search service, fully compatible with Elasticsearch, providing the ability to search structured and unstructured data.

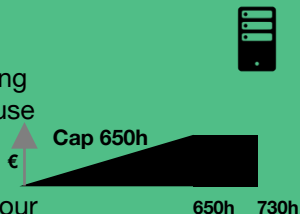


elasticsearch

A flexible pricing structure

Computing

- Minute granularity billing
- Discount for monthly use
- OS billed on top per hour
- Discount with reserved
 - 1-, 2- or 3-year plan
 - with or without upfront



Storage

- **Block Storage**
 - Hourly billing
 - GB granularity
- **Object Storage**
 - Hourly billing
 - GB granularity
 - degressive price >50TB
 - put and get requests



Network

Data from Flexible Engine to Public IP

- by GB by Month
- degressive price >10 000GB
- Inbound traffic from internet : free

Direct connect

- one time charge
- by Month

VPNaaS: hourly

Floating IP: monthly

Load BalanceraaS : hourly



Database

Database services: hourly



Security

Security services: **included**



Data analysis

- MRS : billed on top of VM price
- MLS : per service
- DIS : per partition
- DPS : per activities



Orchestrator

included



Dashboards

included





All Services

My Favorites

Enter a service or function name.



Computing



Elastic Cloud Server (2)

Elastic, scalable computing servers



Bare Metal Server (0)

Provides dedicated physical servers for tenants



Cloud Server Backup Service (4)

Secure, reliable cloud server backup



Cloud Container Engine (0)

container service that features high availability and elastic scalability



Image Management Service (7)

Self-service image management

Storage



Cloud Backup
Unified backup service for ECS, EBS, and other services.



Data Lake



Elastic Block Storage

Elastic block storage



Dedicated Storage
Dedicated storage service for ECS, EBS, and other services.



Storage Disaster Recovery Service (0)

Storage disaster recovery service



Volume Backup Service (8)

Secure, reliable block storage backup

Network



Virtual Private Cloud (3)

Provides securely isolated virtual networks



Elastic Load Balance (2)

Distributes traffic across multiple ECSs



Direct Connect

High-speed, stable network access service



Domain Name Service (0)

Stable, secure, fast domain name resolution



NAT Gateway (0)

High-performance Internet gateway



VPC Endpoint (0)

How to engage us

Because it has to be easy to start discussing together, we are implementing multiple options

✉ Contact

option in the **OCRE CLOUD CATALOGUE**



OCRE landing page



ocre.orange@orange.com



registering for our regular webinars



attending our regular webinars thru Cisco WebEx™
(slot to be proposed)



Stéphane Theys
stephane.theys@orange.com



Chris Dubois
chris.dubois@orange.com



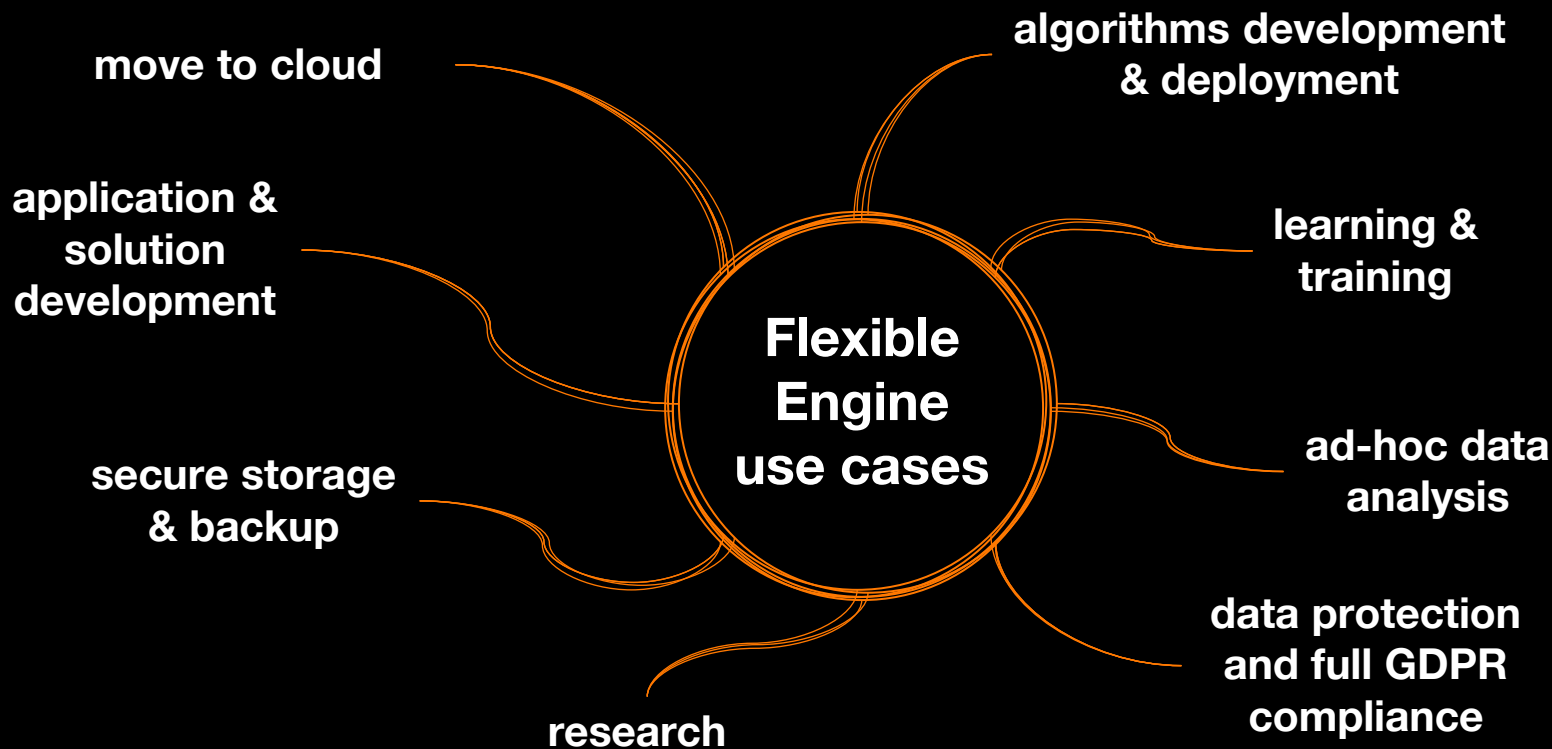
Mustapha Naceri
mustapha@naceri@orange.com



Efraín García
efrain.garcia@orange.com

How we think we can help

Supporting multiple use cases



With clear benefits

**Full-
service
platform**

full suite of
IaaS & PaaS
in constant
evolution

**Cost
effective
solution**

plus OCRE
specific
conditions

**Open
source
based**

agile and
flexible,
avoiding
vendor lock-in

**Service
oriented**

professional
services, support,
clinics and
webinars

**Up to 3-
months
free trial**

with no financial
risks or
guarantees



Feedback & Q&A



in Belgium
since 1996



Cloud at the
heart of our
strategy



**Business
Services**

Flexible Engine,
Orange
public cloud



performance
and
open-source



secured by
Orange
CyberDefense


A man and a woman are walking through a server room. The man, on the left, is wearing a grey sweater over a white collared shirt and blue trousers. He has a beard and is pointing his right hand towards the server racks. The woman, on the right, is wearing a white button-down shirt and black trousers. She has long dark hair and is holding a tablet computer. Both are wearing blue lanyards with ID badges. The server racks are dark blue with many small lights and are arranged in a long aisle. The lighting is cool and blue-toned.

Thank you!

More information in our website
cloud.orange-business.com/en/ocre-flexible-engine/

Contact us at
ocre.orange@orange.com

Annexes

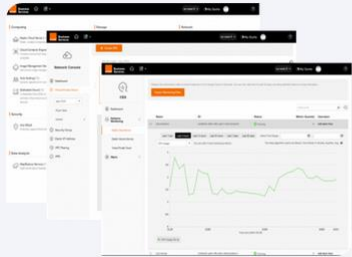

DATA INFRASTRUCTURE MARKETPLACE HELP

Cloud Services

HOME | INFRASTRUCTURE | CLOUD SERVICES

sobloo infrastructure relies on Flexible Engine public cloud solution operated by Orange Business Services and based on OpenStack™ technology.

Description



sobloo IaaS (Infrastructure as a Service) solution allows you to manage your virtual infrastructure from an online console.

- A smart elastic service with auto-scaling functionalities.
- The ability to manage one or multiple regions and easily implement your high availability strategy.
- Open and documented APIs will allow you to easily administrate your platforms and gain agility.
- 100% digital access to your infrastructure: rights management, monitoring, management of your resources and network parameters, ...
- A pay-per-use model without commitment





Business
Services



AIRBUS

OCS



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