Presentation for ACOnet/Austria
OCRE | Open Cloud for Research Environments

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orange™ **Business Services**

Orange Business Services
A network-native digital services company

€7.8 billion
2019 revenues
+7% YoY growth in IT&IS

27,000
Employees

top EMPLOYER GLOBAL 2020
CERTIFIED EXCELLENCE IN EMPLOYEE CONDITIONS

3,900
AI, Data & Digital experts

2,400
Cloud experts

3,000+
Multinational customers

Financial services   **Healthcare**

Transport & logistics   **Smart cities**

Industry

Natural resources

2 million
Soho and SME's clients

including 43,000 companies with over 50 employees in France

2,100
Cyber defense experts

Business & Decision

basefarm

*um The unbelievable Machine Company

SECURE DATA

Secure Link

Trusted cloud

A European Cloud
A European platform with 6 data centers in Europe, guaranteed by a European law contract, compliant with the GDPR and protected from extra-territorial laws.
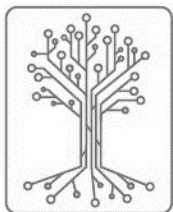
openstack

Open source base
Designed on an open and transparent basis to ensure replicability and supported by a dynamic community of experts.

Gaia-X
Orange is a founding member of Gaia-X, a European initiative to create a common foundation on Cloud security and platform interoperability

Highly certified
Flexible Engine has some of the most demanding certifications, including :
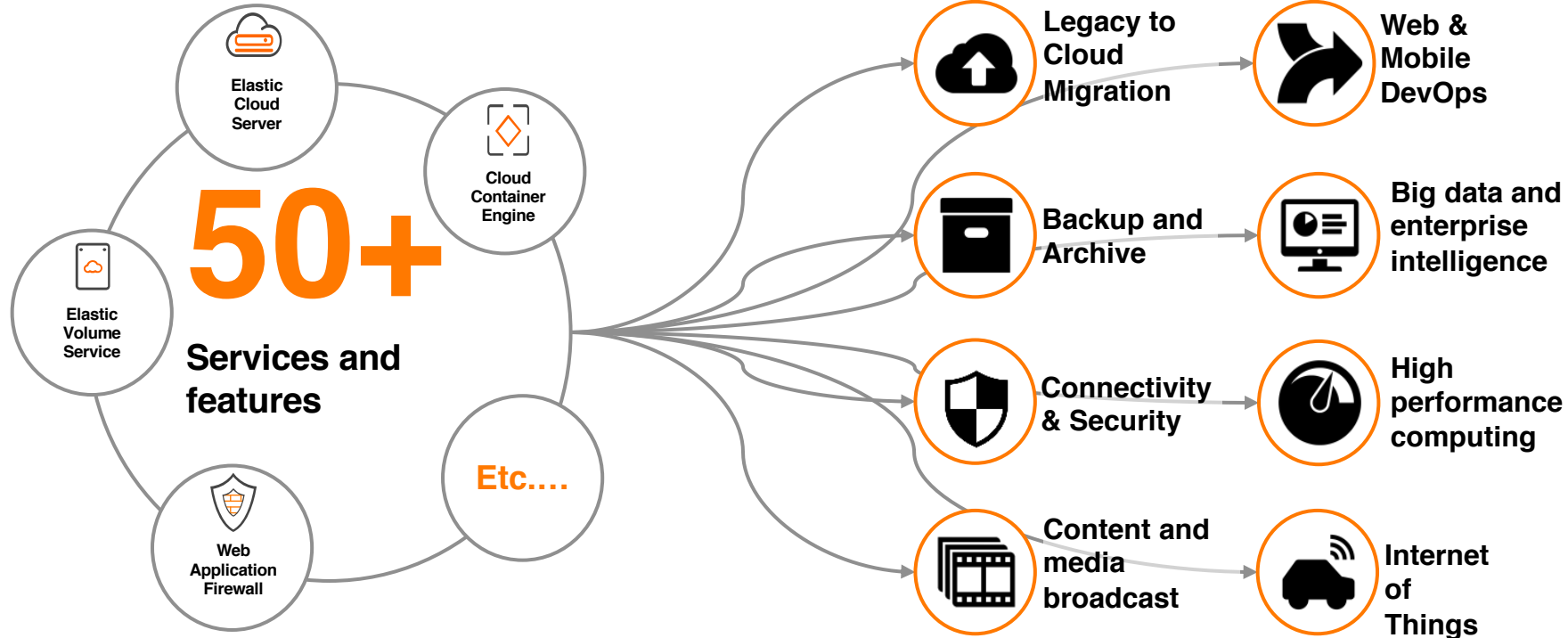ISO 27017
ISO 27018
ISO 20000-1
…

Orange Cyber Defense
A secure perimeter designed by Orange Cyber Défense. 24/7 CyberSOC surveillance, the SOC of OCD.

What is Orange Cloud - Flexible Engine

Integrated in **8** Solutions

50+
Services and features

- Elastic Cloud Server
- Cloud Container Engine
- Elastic Volume Service
- Web Application Firewall
- Etc....

- Legacy to Cloud Migration
- Web & Mobile DevOps
- Backup and Archive
- Big data and enterprise intelligence
- Connectivity & Security
- High performance computing
- Content and media broadcast
- Internet of Things

Flexible Engine

The Orange Business Services public cloud with over

2100
Enterprise customers

17 000
Virtual Machines

- **A constantly evolving platform.**
- **European and GDPR compliant**
- **99.998%** Guaranteed availability
- **OpenSource: built on OpenStack**
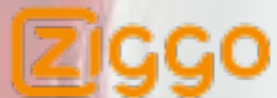- **Innovation facilitator: CaaS, Big Data, AI**
- **Secured by Orange Cyber Defense**
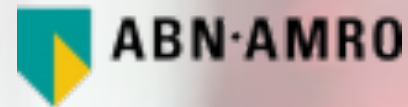
What differentiates Orange

Cloud agnostic

End-to-end service

Trusted services

Industrial capacity

Global scale

Worldwide Open Secure Public Cloud
Flexible Engine

orange™ Business Services

Orange Business Services' Public Cloud Flexible Engine

50+ services

99.99% Uptime guarantee

99,998% VM Uptime in 2020

A secured Public Cloud to easily manage, optimize and transform your applications worldwide

Integrated in a strong partner ecosystem

Service oriented

openstack

No vendor Lock-in

Continuously evolving solution with a large range of features from Bare Metal, to Machine Learning and DevOps solutions

GDPR

European built, managed & secured

API

Open by design
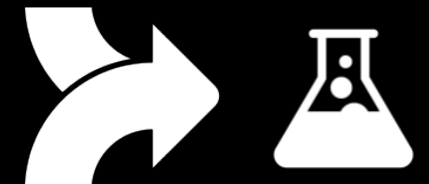
Innovation driven

Flexible Engine Services

Compute

Elastic Cloud Server	Bare Metal Server	Image Management Service	Auto Scaling	Cloud Container Engine	Dedicated Cloud	Dedicated Host	Cloud Server Backup Service	Server Migration Service

Data Analysis

Map Reduce Service	Data Pipeline Service	Data Warehouse Service	Data Ingestion Service	Machine Learning Services	Cloud Stream Service	ModelArts Services

Storage

Elastic Volume Service	Volume Backup Service	Object Storage Service	Storage Disaster Recovery Service	Scalable File Service	COMMVAULT File and Application Backup	Dedicated Storage Service

Management & Deployment

Log Tank Service	Tag Management Service	Cloud Trace Service	Cloud Eye	Identity and Access Management	Resource Template Service

Database

Relational Database Service	Document Database Service	Distributed Cache Service

Network

Virtual Private Cloud	Elastic Load Balance	Virtual Private Network	Domain Name Service	Elastic IP	Direct Connect	NAT Gateway	Virtual Firewall

Security

Key Management Service	Anti-DDoS	Web Application Firewall

Application Services

Simple Message Notification	Distributed Message Service	Terraform	Service Stage	API Gateway	Work-space

Leveraging cloud capabilities to reshape customer IT

Containers & CNA

CaasCAD

DevOps & Automation

Data & AI

Orange Value in Cloud

Cloud adoption journey

Migrate & Transform

DevOps & IT modernization

Cloud Center of Excellence & MVP

Data AI/ML

Continuous Improvement & FinOps

Cloud Strategy & Assessment

Landing Zone & Cloud Migration

Cloud Native Development

Cloud Managed Services

Cloud Security (SOC)

Plan

Manage & Secure
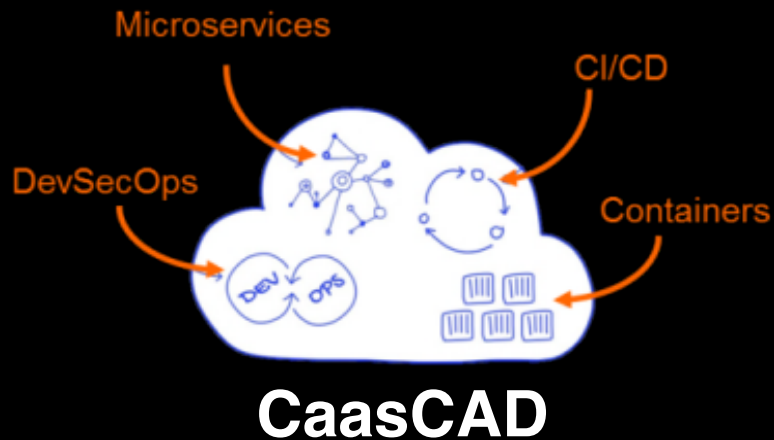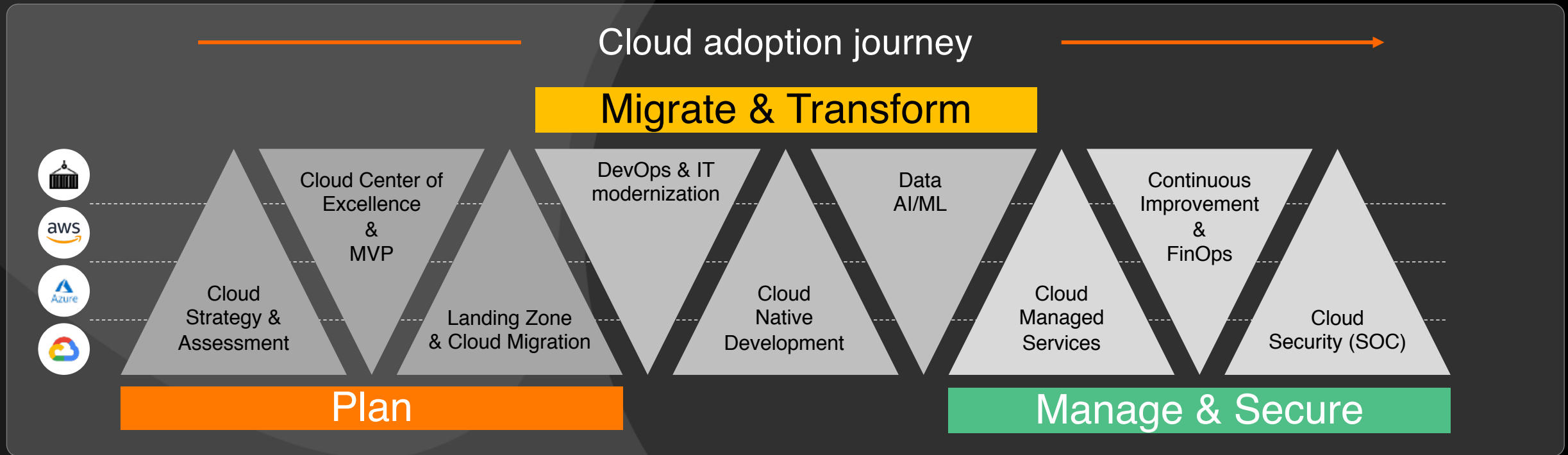
Trusted Cloud

Hyperscalers
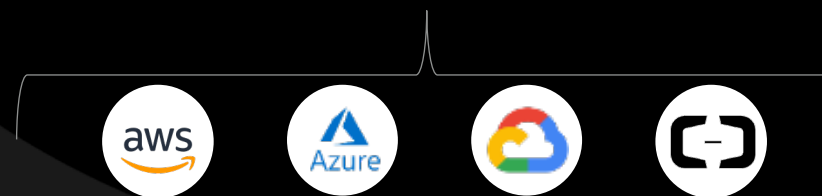
Clouds Orange GAIA-X

Private Cloud

OVHcloud

Cloud Expert Services : an "A la Carte" cloud Journey

✓ **Cloud strategy**, Technical audit and maturity, transformation, governance (CCoE)

✓ **Architecture**, security, PRA, hybrid, multi cloud

✓ Cloud **migration**, Cloud **transformation**,

✓ **Expertise** : PaaS, Big Data, CaaS, DevOps, Security expertise, AWS, Openstack, Azure training ..

✓ **Optimization** : Infra as Code, FinOps
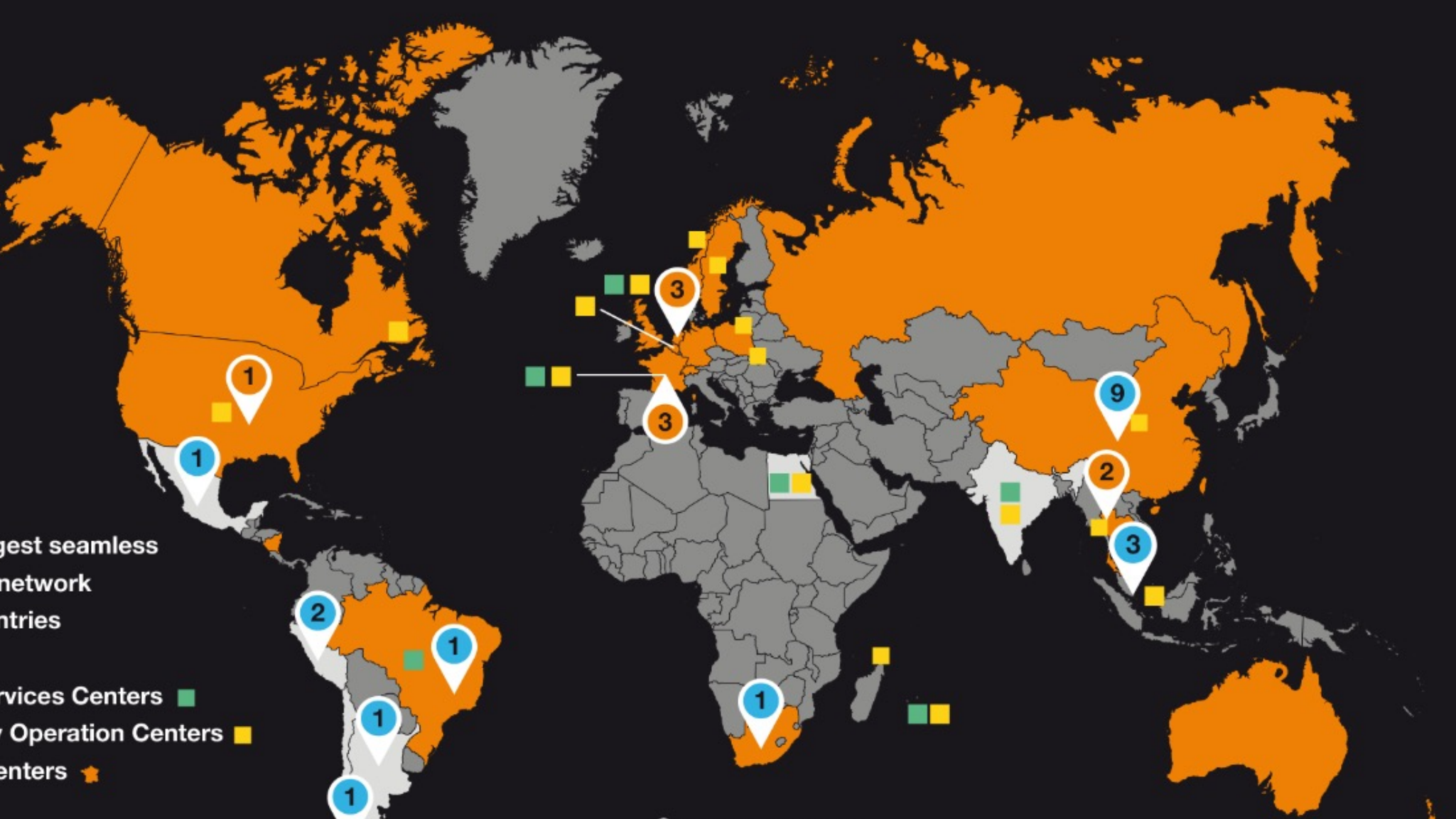
A highly certified platform

Flexible Engine est by data centers worldwide chosen for their highest level certifications.

ISO27001

ISO27001 is the main standard used when implement and IT/IS security management system.

An ISO27001 certified public cloud guarantees that the IS management system is in place to manage risks, vulnerabilities, sustained activity, security incidents, suppliers, legal compliance, secure recruitment, logistical and physical access, security by design, networks, hardening etc.

ISO27017

ISO27017 guarantees cloud security. It recommends security measures specifically dedicated to cloud security, which are complimentary to the measures recommended in the A annex of ISO27001.

Choosing an ISO27017 certified cloud provider guarantees that cloud security has been taken into account by the cloud provider, checks and internal/external audits are conducted regularly.

ISO27018

ISO27018 guarantees the security of personal data. It recommends security measures specifically dedicated to the protection of personal data, which are complimentary to the measures recommended in the A annex of ISO27001.

By choosing an ISO27018 certified cloud provider, you are choosing a cloud solution in which the security of personal data has been tested by regular internal and external audits.

ISO9001

ISO9001 is a customer satisfaction based certification. It guarantees a high level of quality with consistent and reproducible processes.

By choosing an ISO9001 certified cloud provider, you are choosing a cloud solution in which the customer is at the centre of Orange Business Service's preoccupations. The entirety of the rendered services are regularly tested and checked internally and by external certification organisations.

ISAE3402

The Sarbanes-Oxley Act (SOX) was passed following numerous frauds in order to better protect investors. Following this law, the AICPA (American Institute of Certified Public Accountants) has issued the "International Standards for Assurance Engagements" 3402 (ISAE 3402), which defines the criteria for demonstrating SOX compliance when choosing an external service provider (cloud, outsourcing, etc.).

Easy access to Earth observation data and information through a cloud computing solution

- **Copernicus is the most ambitious Earth Observation (EO) European program to date (around €4.3 billions spend in the period 2014 to 2020)**
- **The program is headed by the European Commission (EC) in partnership with the European Space Agency (ESA)**

The issues

- Copernicus provide a huge volume of data (10 Peta bytes per year).
- Foster data dissemination and to answer a strong need for simplification, the EC and ESA have decided to offer users the capability
- Exploit Copernicus data and information through the DIAS project (Data Information Access Service) providing a cloud computing architecture
- Easy access to Copernicus data for EU citizens

The solution

- A highly experience consortium led by Airbus and Orange to create and operate the massive scalability and Big data environment required
- Easy access to data through a cloud computing architecture based on Orange Flexible
- Front office services embedded in the DIAS cloud architecture for value-adding services

The benefits

- Easy access to data
- Big Data analytics services unlocking the value of the data
- Business API speeding up access
- End to end SLA
- Global billing from Orange
- IT cost reduction

Why Orange: **One-stop shop on the cloud for all the data and value-added services**

Sobloo will provide a broad access to Copernicus data

- Provide a broad access to Earth Observation commercial imagery, Mobile data, IoT and geolocated databases

- Offers a suite of features including APIs, tools and services to process data

I want to try!

You can subscribe to Flexible Engine free-trial offer.

Trial Conditions

- Free of charge.
- Up to 3 months.
- At the end or during the trial period, you can subscribe to Flexible Engine, keeping all your settings and data.

Weekly Introductory webinars

English sessions: Thursday at 11:30 am CET.

French sessions: Wednesday at 10:00 am CET.

Cloud coach support

Includes the support throughout the testing experience.

Service Descriptions

General terms and conditions

Thanks

Orange OCRE Team

orange™

Orange Business Services in Germany and Austria

PoPs with Ethernet VPN gateways
Local Internet available with high-quality and high-speed Internet access

Services
Cloud computing, conferencing, voice and telephony, UCC, WAN and LAN networks

500+
Orange employees

Log·in consultants

The unbelievable Machine Company

Orange Cyberdefense

- 🟠 Orange Business Services
- 🟢 Login Consultants
- 🔵 The unbelievable Machine Company
- 🩷 Orange Cyberdefense /SecureLink

Hamburg

Berlin

Duesseldorf

Frankfurt

Karlsruhe

Augsburg

Stuttgart

Munich

Vienna