

INNOVATION FOR FREEDOM

## DestinE

Science and Technology Needs

## Agenda

COMPANY

DestinE: OVHcloud Contribution

02 APPROACH

Science and Technology Needs

PORTFOLIO AND ROADMAP







OVHcloud contributior

### We are the European technology leader to bring your ambitions to life



**≈ 800** M€

Turnover



Servers in 2022 + 38 datacenters

Positioned in the Major Players category for Worldwide Public Cloud Infrastructure as a Service



2022 MarketScape Positioned as a Hosted Private Cloud Leader in Europe

Forrester

Hosted Private Cloud Europe Wave 2020

OVHcloud contributic



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Science and Technology Needs

## 02 Approach

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#### A pioneer in Sustainable Cloud

A vertically integrated model leading the way in Sustainable Cloud

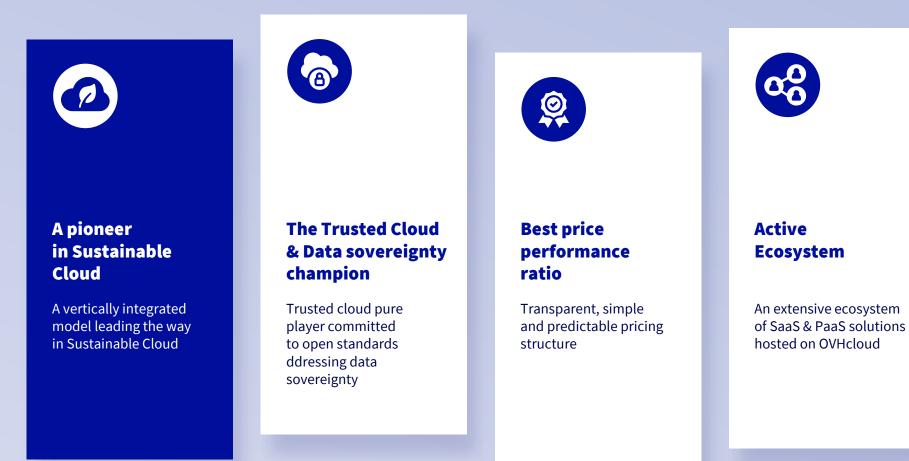
### The Trusted Cloud & Data sovereignty champion

Trusted cloud pure player committed to open standards ddressing data sovereignty

#### **Best price** performance ratio

Transparent, simple and predictable pricing structure

#### Active Ecosystem



#### VI OVHcloud



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Trusted cloud pure player committed to open standards addressing data sovereignty





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Active Ecosystem



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Company

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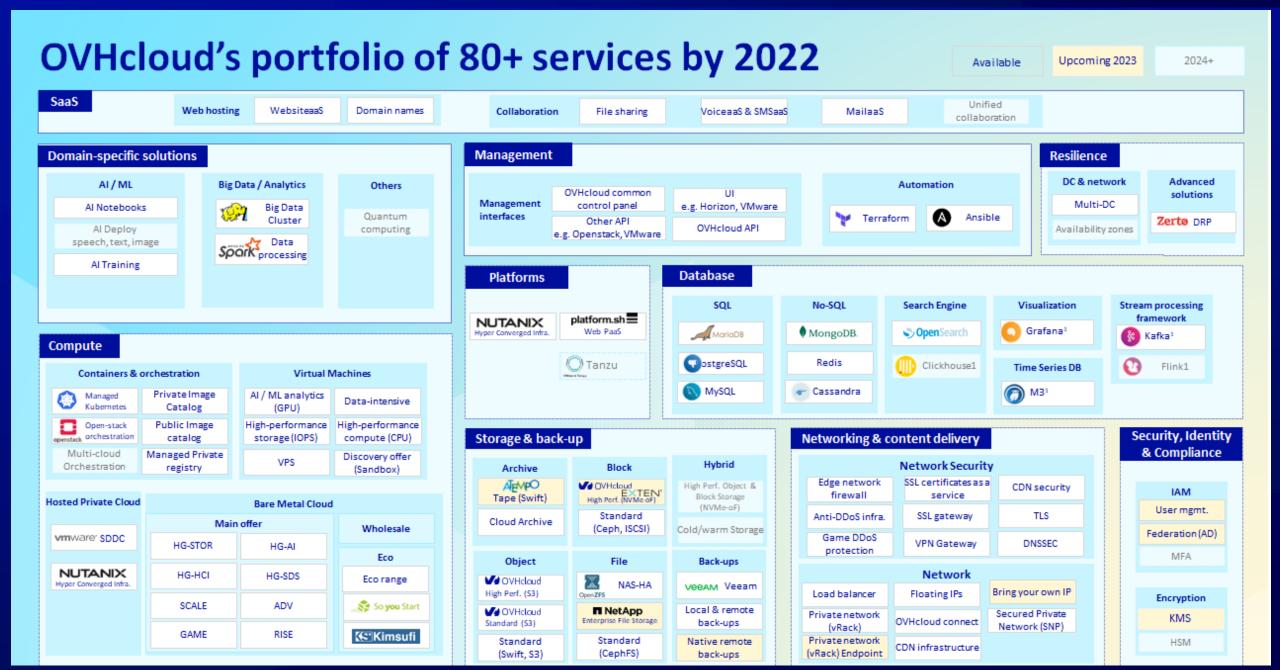
## 03 Portfolio and Roadmap

## What we do

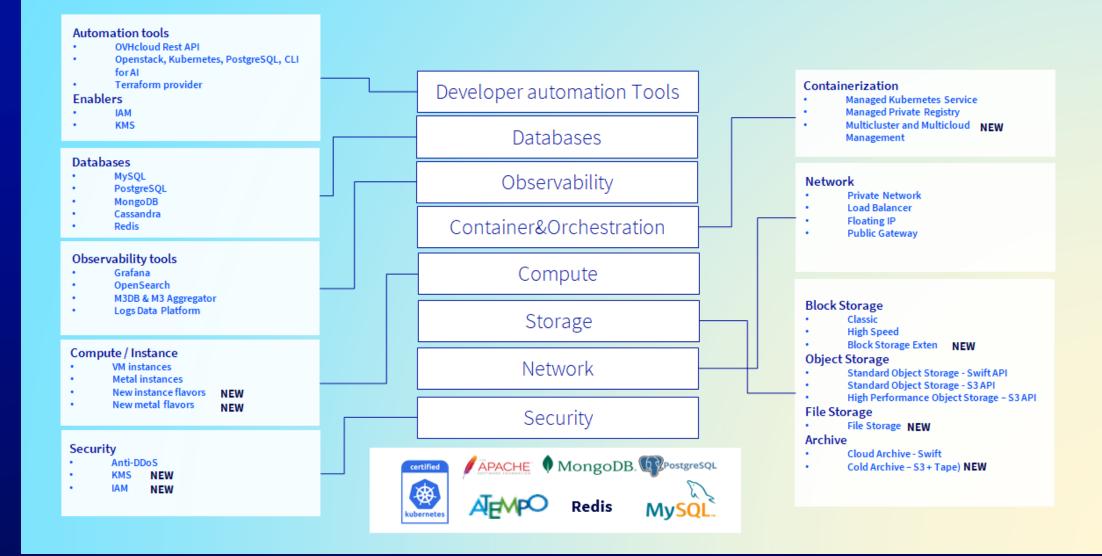
OVHcloud is a global cloud provider that specializes in delivering industry leading performance and cost-effective solutions to better manage, secure and scale data



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## **Public Cloud Portfolio Roadmap**



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Portfolio and Roadm

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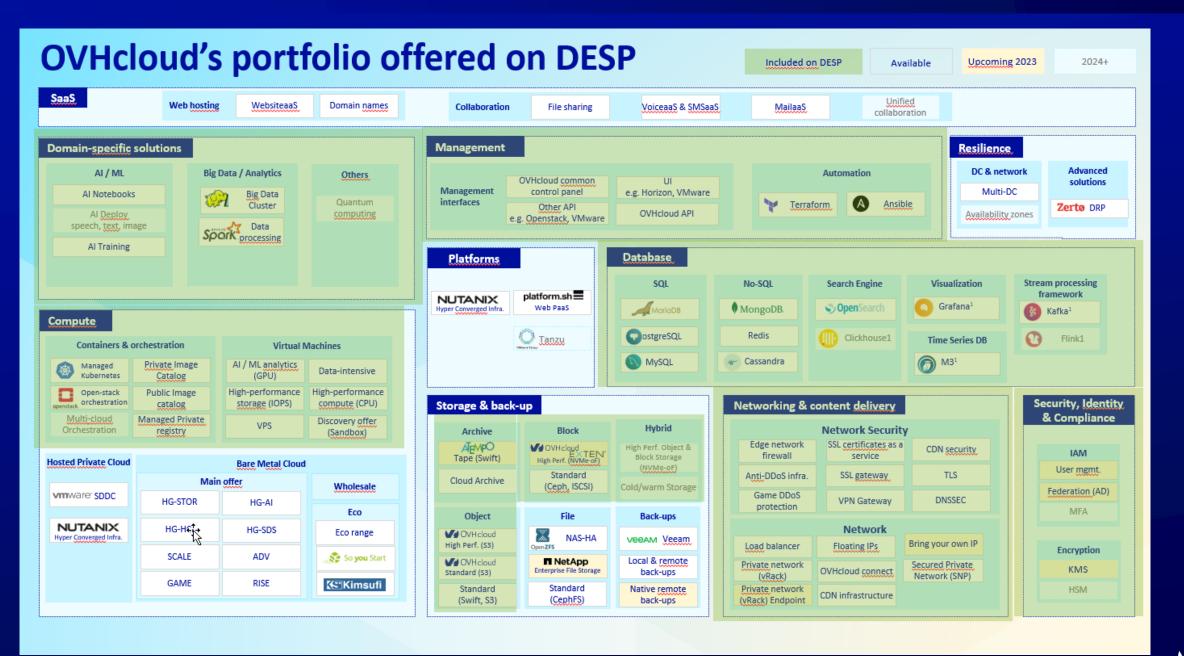
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## 04 DestinE OVHcloud Contribution

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# 05 DestinE Science and Technology Needs



## IAM: Identity and Access Management

To enable the cloud-to-edge federations in DestinE platforms.

A cardinal requirements of DestinE: "Unified access to Space data".



## Technical Needs for future DestinE development

DestinE federates data, cloud and HPC infrastructures and integrates access to Digital Twins as they become gradually available. Future DestinE developments shall fulfil the need to provide a common system approach to a unified orchestration of Earth-system simulations and the fusion of observations with models. From HPC to multi-cloud environments.

Unified user management service shall grant services access through a common identity management to the DestinE Users. As an example, the provision of a DestinE account shall grant access to all authorised DestinE Registered Services based on the same digital identity. Or users of Copernicus Data Access (ESA or EUMETSAT) shall be authorised to access to the DestinE Registered Services, and vice versa.

IAM development to fulfil the "federation" requirements, has implications related to the personal data management, security aspects, fraud management, quotas and so on ....

Another key element, which depends on the IAM development, is the need to implement interoperability with external ecosystems, like for example the OVHcloud one, to provide a suitable user experience and benefit of common shared services.

## **Synergies and Priorities**

**Simpl** initiative is one of the main European initiative to have synergies with. EC launched a very strategic European initiative called Simpl: streamlining cloud-to-edge federations for major EU data spaces. Simpl is the smart middleware that will enable cloud-to-edge federations and support all major data initiatives funded by the European Commission. DestinE is a use case of Simpl: to ensure that data sets and their infrastructures can be seamlessly interconnected and made interoperable.

**Data sovereignty** is a priority. Simpl indeed will be secure and interoperable, where trust, confidence and compliance with regulations are built into the system. This implies an effortless sharing of resources between participants, regardless of their data processing environment. It creates an abstraction layer that enables data to flow across multiple providers and Member States.

## **Emerging Technical Developments**

Following our development roadmaps, there are several areas of inspiration for DestinE:

- ✓ AI & ML improvements
- ✓ optimised platforms for big data analytics
- Development for automation tools where enablers are AIM and KMS, including security aspects.
- ✓ Multi-cluster and multi-cloud solutions for Container & Orchestration.
- ✓ Dedicated Storage solutions for Space data spaces.