

# OCRE

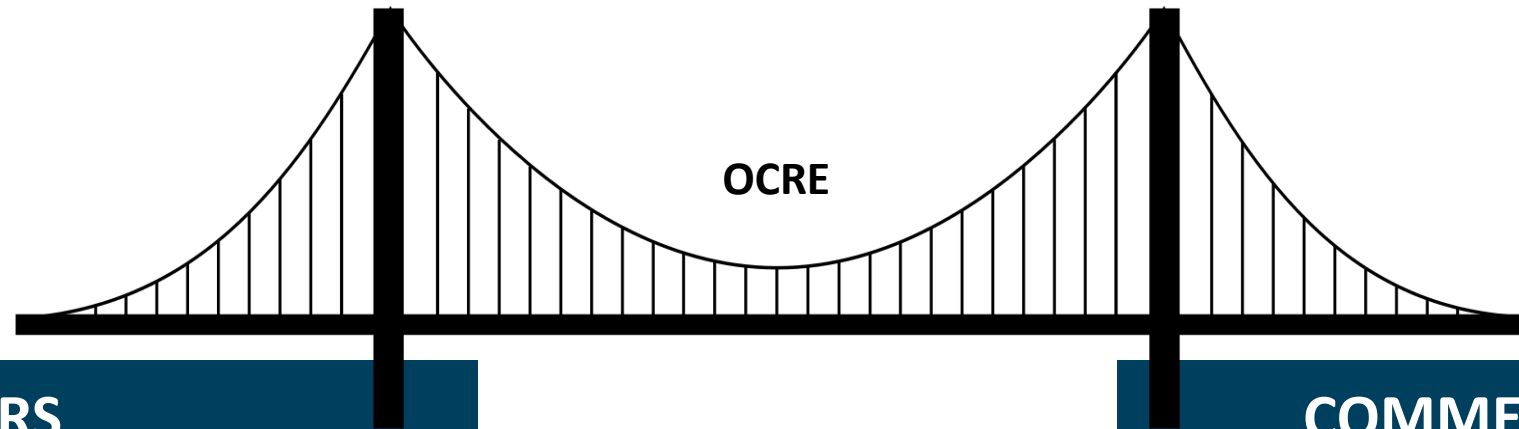
## Open Clouds for Research Environments

@ EC info session on eINFRASTRUCTURE INFRAEOSC-01-2018

A consortium proposal from:



OCRE aims to close the gap between the supply and demand sides



## RESEARCHERS

Struggle to incorporate commercial services into their activities in a structured manner. Service discovery and acquisition are difficult and take up an inordinate amount of time

## COMMERCIAL SERVICE PROVIDERS

Find it difficult to reach and meet the needs of the research community, in areas such as legal, financial and technical compliance

Provide a **service delivery and adoption vehicle** for

Commercial service providers  
to deliver / sell

Customers (research institutes)  
to consume / buy

This requires

**Business processes:** services discovery,  
selection and procurement

**Technical integration:** service provisioning,  
management, technical validation

which make service usage seamless

## **SAFE & ACCESSIBLE**

Ensure providers comply with EU legislation and regulations, including data privacy law

Service selection through the EOSC service catalogue

Integration with identity management

Buying and billing, matching the community's financial structures

Supporting standards, data interoperability and portability

Stimulate usage

EOSC  
FAIR principles for data

OCRE

Helix Nebula &  
HNSciCloud

GÉANT IaaS tender  
and cloud portfolio

**OCRE contributes to the European Open Science Cloud and incorporates FAIR principles for data**

**Build OCRE on results from previous EC projects**

- Tender and procurement expertise and capabilities
- Technical integration solutions



# Two distinct service types in one delivery ecosystem

PART A

Commodity type  
commercial digital services

PART B

A wide variety of secure  
Earth Observation commercial services



OCRE delivery

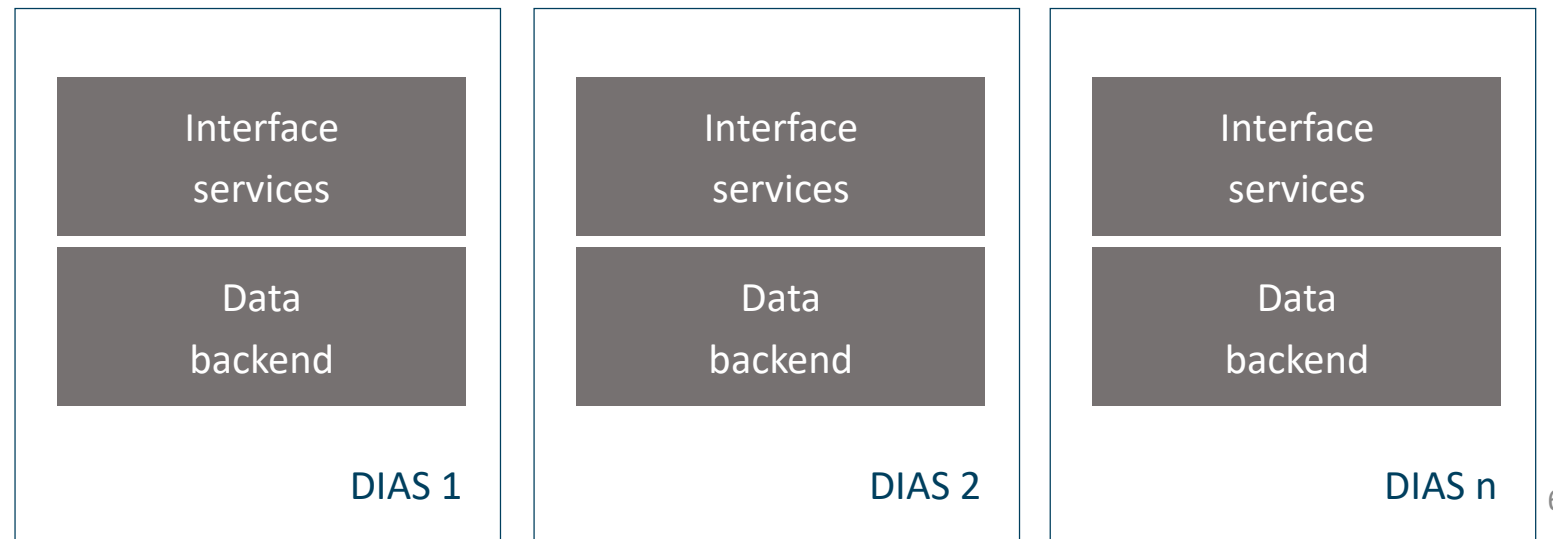
## PART B structure

### Copernicus **Data and Information Access Services (DIAS)**

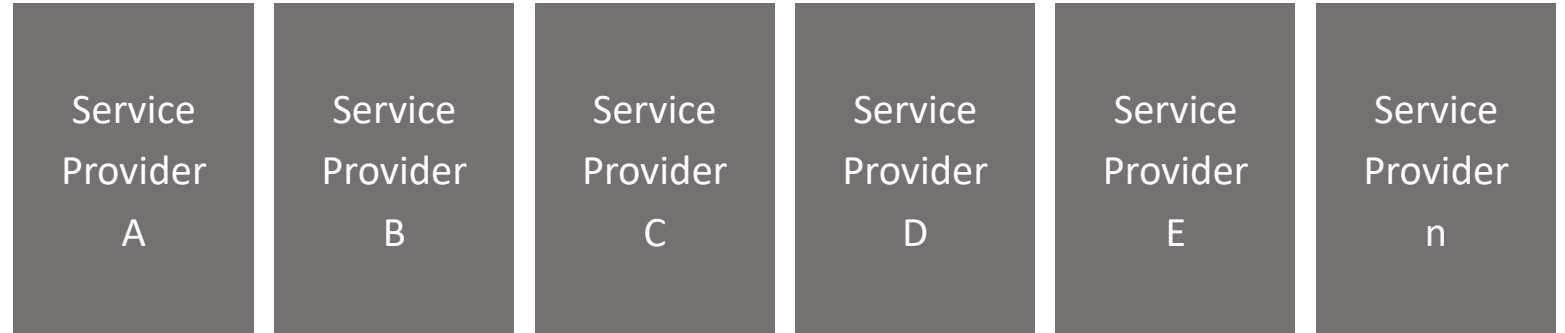
These DIAS platforms facilitate access to data and information from the Copernicus Earth Observation programme.

Multiple DIAS-es:

Four ESA procured in place in 2018 and the EUMETSAT-led DIAS in 2020/2021



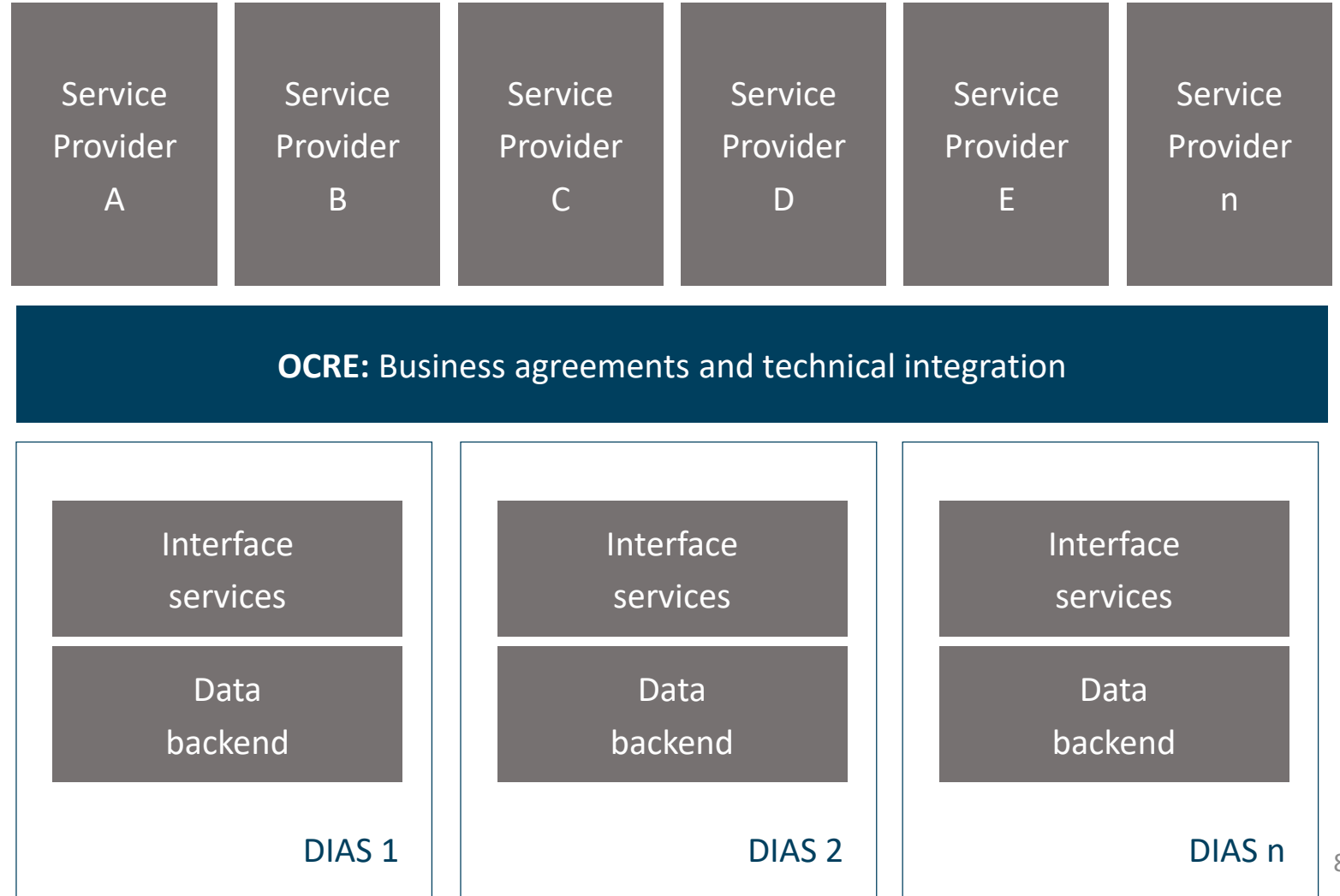
OCRE wants to enable commercial service providers to create their own service offerings (front offices), which build flexible value chains on top of the DIAS computing and storage resources back-ends



This requires

Business agreements  
&  
Technical integration

Between  
DIAS providers  
&  
Service Providers





CUSTOMERS, through EOSC service catalogue

Business agreements  
&  
Technical integration

**OCRE: Business agreements and technical integration**

Between  
Service providers  
&  
Customers (research institutions)

Service  
Provider  
A

Service  
Provider  
B

Service  
Provider  
C

Service  
Provider  
D

Service  
Provider  
E

Service  
Provider  
n

Customers and end-users (researchers)  
access the services through the EOSC  
Service catalogue

CUSTOMERS, through EOSC service catalogue

**OCRE: Business agreements and technical integration**

Service  
Provider  
A

Service  
Provider  
B

Service  
Provider  
C

Service  
Provider  
D

Service  
Provider  
E

Service  
Provider  
n

**OCRE: Business agreements and technical integration**

Interface  
services

Data  
backend

DIAS 1

Interface  
services

Data  
backend

DIAS 2

Interface  
services

Data  
backend

DIAS n

# Staged delivery



A significant part of the INFRAEOSC-01-2018 call budget, is expected to be made available for stimulating use of the selected services by customers.

# WHO CAN USE OCRE?

	<b>CUSTOMERS</b> (research institutes)	<b>USERS</b> (individual researchers)	<b>SERVICE PROVIDERS</b>	<b>SYSTEM INTEGRATORS</b>	<b>DIAS PROVIDERS</b>
benefits of OCRE	Select and buy wide range of services. Tender compliant	Access to a wide range of services, which your institute can easily buy (make available to you)	Respond to OCRE tender and if selected, offer your services to the European Research and Education community.	Build on OCRE and offer your integration capabilities, to help service providers meet OCRE integration requirements or offer additional features ( <i>outside of OCRE consortium</i> )	Establish agreements with a wide range of service providers, who want to use your DIAS.
preparation stage	Requirements input Commit to buying services	Requirements input	Requirements input	Requirements input	Requirements input, including the conditions and terms of use for your DIAS.
execution stage	Buy through the OCRE delivery channel. Opportunity to benefit from adoption co-funding	Browse the EOSC service catalogue. Your institute can buy the service	Connect your service to EOSC. Deliver your service to Customers.		Connect your service to the service providers. Deliver your DIAS to the service providers.

# WHO IS IN OCRE?



			Coordinate consortium	
<b>role 1</b>	Requirements input and support the tender	Requirements input	Requirements input and organise the tender	Requirements input and support the tender
<b>role 2</b>		Integrate the commercial commodity services with the EOSC core services in EOSC hub		Integrate the HNSciCloud multi-cloud management capabilities (Nuvla) with the EOSC core and DIAS platforms
<b>role 3</b>	Customer: flagship to drive adoption, procure services (with a focus on IaaS). Fulfill the role of procurement lead organisation in a buyers-group, with participants from Research Infrastructures ( <i>EIROforum and others</i> ).	Support the consumption by the EGI members	Contract management and enable consumption: make agreements available through the European NRENs and other organisations where applicable	Support the consumption of DIAS services

# EXPECTED IMPACT

Validated **procurement framework** for EOSC to deliver cost effective commercial services

Practical **deployment of business models** enabling Research & Education communities to access commercial services

**Production-ready platform** bringing together public e-infrastructures and commercial service providers

Create **added value chains** for the DIAS resource back-ends

Working **interoperability** with the EOSC-hub

A wide range of **available services**, used by the community

# QUESTIONS

- How will the DIAS providers offer their service?
  - What is already in place?
  - What can be arranged through OCRE?
- How to arrange community and provider input and commitment (in 2018)?