



Sesión Cloud



OCRE

Open Clouds for Research
Environments



Universidad
Politécnica
de Cartagena

Cloud

- Novedades y proyecto OCRE
Antonio Saravia, RedIRIS
- Despliegue de un CPD virtual en Azure. Universidad de Santiago de Compostela
Antonio Pérez Casas y Xosé Antonio Rubal López (USC)
- INDIE: un caso de uso de Azure en la Universidad Politécnica de Cartagena
Daniel Pérez, UPCT





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Novedades y Proyecto OCRE



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GÉANT IaaS Framework. Recordando ...

Múltiples beneficios

- Ahorro de costes (descuentos y reducción significativa de los costes de tráfico)
- Agilidad (licitación conjunta ya realizada por GÉANT)
- Multiproveedor y sin valor mínimo de consumo
- Cumplimiento de la normativa europea sobre seguridad y del nuevo reglamento de protección de datos (RGPD)
- Inicio de sesión único (SSO), con las credenciales propias de cada institución, a través del servicio de Federación de identidades de RedIRIS (SIR - eduGAIN)
- Conexiones optimizadas con los proveedores cloud

Proveedores en España

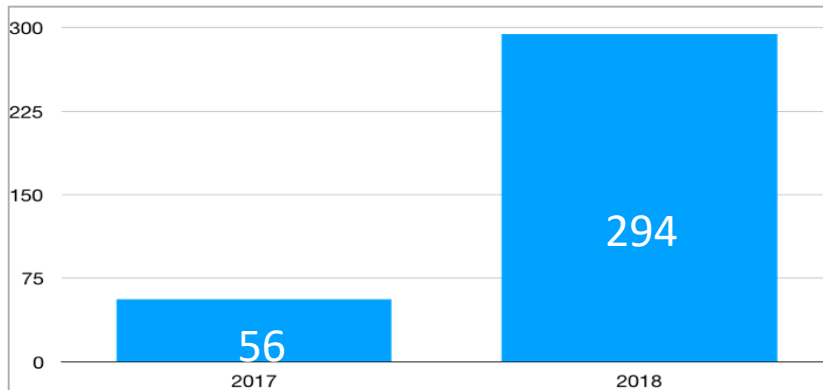
Comparex y **SoftwareOne**
se han fusionado



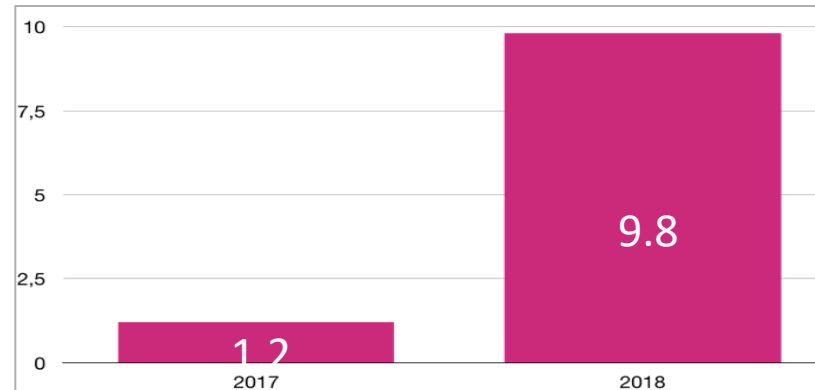


GÉANT IaaS Framework: adoption and consumption

Dic-2018: **18 countries, 294 institutions**, consumo total aprox. **11 M€**.



NUMBER OF INSTITUTIONS CONSUMING



COLLECTIVE SPENDING IN MILLION EURO



COUNTRIES WITH CONSUMPTION

Oct-2019:

- **18 countries, 350 institutions**
- Consumo total aprox. **22 M€**, Spain aprox. **1,11 M€**



Instituciones usuarias del IaaS Framework (32)



	INSTITUTION	E/R	Pub/Priv	TECH
1	Universidad de Santiago de Compostela	E	Public	Azure
2	Fundación Privada Ramón Llul	E	Private	Azure
3	Institución Educativa SEK	E	Private	Azure
4	Universidad de Salamanca	E	Public	Azure
5	Universidad Pontificia de Comillas	E	Private	Azure
6	Universidad de Burgos	E	Public	Azure
7	Instituto de Empresa	E	Private	Azure
8	ESADE	E	Private	Azure
9	Universidad de Almería	E	Public	Azure
10	Universidad de Oviedo	E	Public	Azure
11	Universidad San Pablo Ceu	E	Private	Azure
12	IQS Ramón Llul	E	Private	Azure
13	Universidad Católica de Ávila	E	Private	Azure
14	Universidad de la Coruña	E	Public	Azure
15	Universidad Politécnica de Cartagena	E	Public	Azure
16	Universidad Autónoma de Madrid	E	Public	Azure
17	Universidad Oberta de Catalunya	E	Private	Azure
18	Universidad de Mondragón	E	Private	Azure
19	IESE	E	Private	Azure
20	Universidad Internacional de la Rioja	E	Private	Azure
21	Universidad Rovira i Virgili	E	Private	Azure
22	Universidad de Castilla-La Mancha	E	Public	Azure
23	Universidad Politécnica de Madrid	E	Public	Azure/AWS
24	Universidad Alfonso X el Sabio	E	Private	Azure
25	Universidad de Alcalá de Henares	E	Public	Azure
26	Universidad de Deusto	E	Private	Azure
27	Universidad Internacional de Cataluña	E	Private	AWS
28	Patrimonio Nacional	O	Public	Azure
29	IRAM	R	Public	AWS
30	Sincrotrón ALBA	R	Public	AWS
31	PIC (Port d'Informació Científica)	R	Public	AWS
32	CIBERONC	R	Public	Azure



Noticias y Novedades

Microsoft ExpressRoute implantado en USC

Tras UCLM, reciente Conexión USC- CESGA - RedIRIS – GÉANT – Microsoft

<https://wiki.rediris.es/display/SC/Servicio+ExpressRoute>

Workshop Azure

El taller, celebrado en las instalaciones de RedIRIS ha contado con una veintena de participantes de toda España.



AWS Direct Connect implantado en UJI

Conexión UJI- RedIRIS – AWS en Madrid

Oferta formativa AWS

Architecting on AWS con 70% de descuento

GÉANT Cloud Services
CONNECTING RESEARCH AND EDUCATION TO THE CLOUD

Otros Acuerdos existentes



GÉANT cerró un [acuerdo preferencial con Google](#) para su conjunto de soluciones y servicios incluidos en **Google Cloud Platform (GCP)**, disponible a través de su partner global Cloud Technology Solutions (CTS).





OCRE

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OCRE receives funding from the European Union's Horizon 2020 research and innovation programme under grant agreement no. 824079.

<https://www.ocre-project.eu>

Aggregate requirements and demand
of the research community

into a public procurement / tender,
to establish ready-to-use agreements with capable cloud
and earth observation suppliers

Stimulate adoption of those selected services:

(1) Support individual institutions and buyer groups to
buy cloud resources

(2) Make available €9.5 million in EC adoption funding to
the research community
to use cloud resources at these selected suppliers



OCRE

RESEARCHERS

Easy adoption

Incorporate commercial digital services into their activities

Service discovery and acquisition

SERVICE PROVIDERS

Easy delivery

Reach and meet the needs of the research community

Meet legal, financial and technical requirements

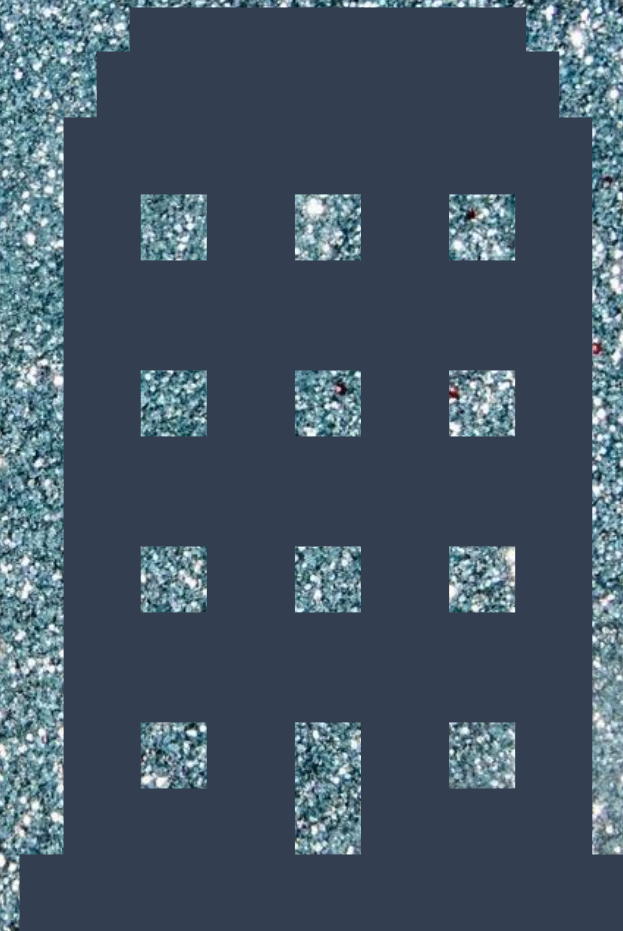
OCRE will drive adoption of digital services and close the gap between the supply and demand sides

Benefits for Researchers

Validated cloud (IaaS, PaaS,
SaaS) and Earth Observation
services

which meet the community's
needs. Integrated with the
EOSC (European Open
Science Cloud)

Ready-to-use (no need to run
your own tender). Benefit
from adoption funds

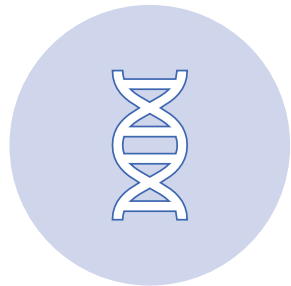


European Open Science Cloud

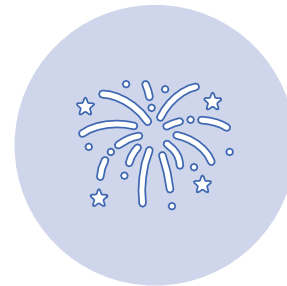
- Europe is the largest producer of research data in the world.
- The EC wants to increase the use of this data and interconnect research IT infrastructures through the European Open Science Cloud.
- OCRE is part of the European Open Science Cloud and receives funding from the EC under grant agreement no. 824079.



Dates and duration



End of October:
Buyer groups established and
draft tender document ready



January:
publish tender



Q2 2020:
Evaluation completed and
framework agreements signed by
GÉANT with suppliers (valid for 4
years). Not 1 winner takes all.
Portfolio of services.



Service consumption until the
end of Q2 2024

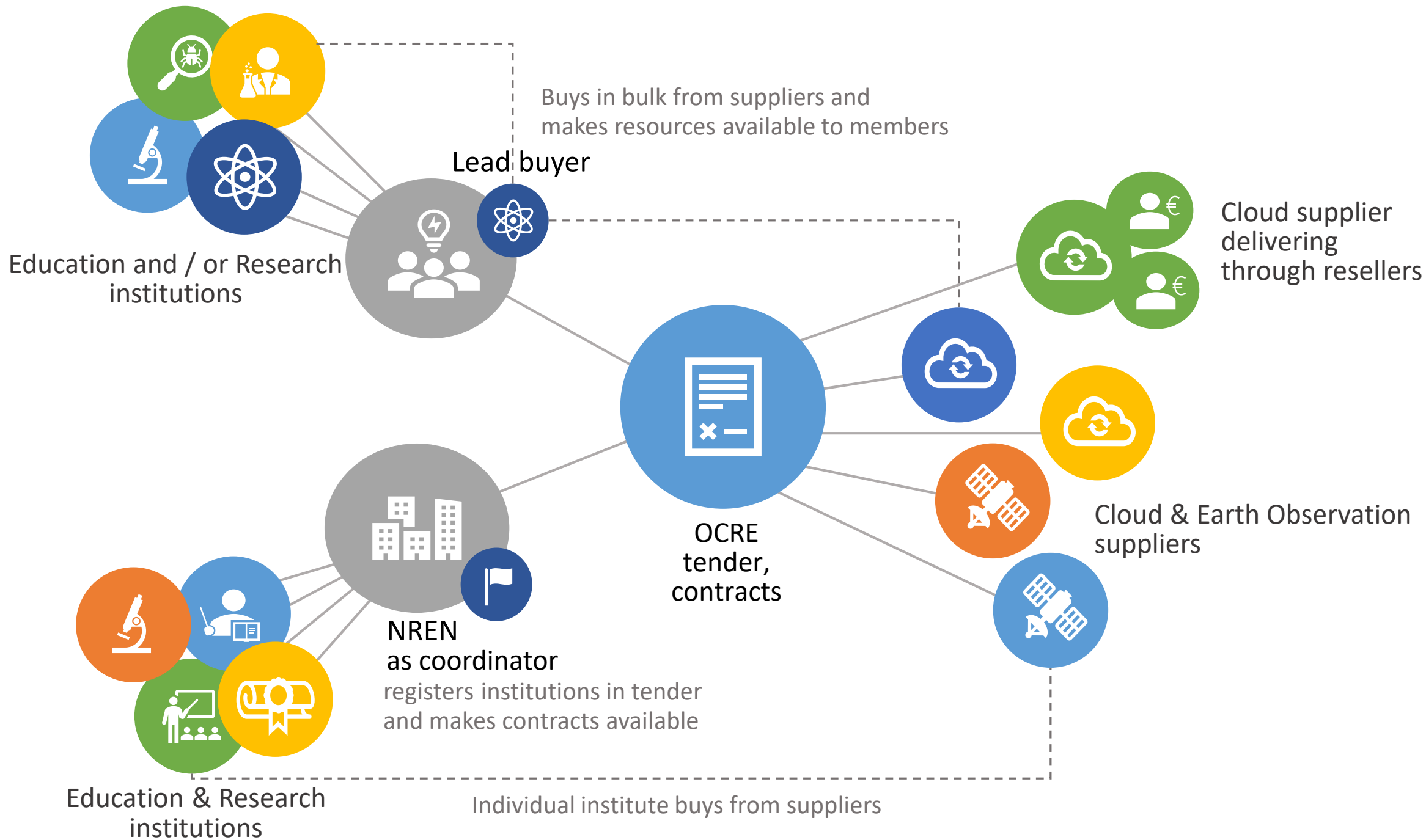
Expected tender requirements

- Compliance with EU data protection law, including GDPR.
- Ready-to-use agreements, which include purchasing and payment models that match the financial structures and funding in research institutions, such as: acquiring services with a purchase order, postpaid billing and accommodating capital expenditure through upfront commitments.
- Reduction of network traffic charges, through suppliers' connections to the GÉANT network.
- Identity management, single sign-on capabilities
- (ISO) certifications: cloud specific features, security, interoperability, exit support, environmental, financial and service level agreements, IT service management.
- Customer adoption support.
- License management and migration. Transfer of existing licenses to the cloud.
- Data portability, interoperability and open standards.
- Report resource usage to OCRE.



Building on two delivery vehicles

OCRE is the successor to the HNSciCloud and GÉANT IaaS tenders



Consumption route 2

Research community benefits from EC cloud adoption fund available through OCRE

EC adoption funds 9.5 MEUR. Available through OCRE
Services are free-at-the-point-of-the-user,

Stage 1: From July 2019

500 KEURO. For individual researchers.

Usage of services in GÉANT IaaS framework. Voucher system.

Distributed via organisations who represent or have access to researchers. First participating organisations are

Eurodoc (*The European Council for Doctoral Candidates and Junior Researchers*)

and the **Marie Curie Association** (a global network of researchers).

Start usage, raise awareness, use-cases. Experience with vouchers.

Stage 2: 2020, until end of 2021

individual researchers, institutions, and buyer groups

4.25 MEUR million for IaaS, PaaS and SaaS

4.75 MEUR for Earth Observation

Services selected in OCRE tender

Connections & outreach

- Selected providers will become an integral part of the EOSC portal, service catalogue, marketplace
- and are connected to
 - the GÉANT data network
 - and the community's single sign-on systems,
- OCRE will stimulate awareness and adoption
- Thus, bringing the selected providers into the heart of the European research community

Transit to Cloud is no longer an option. It has become a MUST and we have to work all together to make this happen.



“Avanzando juntos hacia la nube y más allá...”

Gracias 😊



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