

Cross border procurement of e-infrastructure services

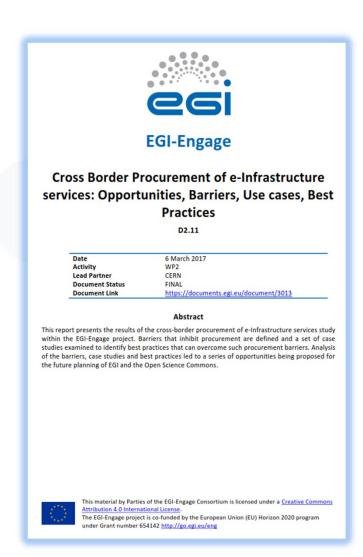
Bob Jones (CERN)







EGI-Engage deliverable 2.11
Cross Border Procurement of
e-Infrastructure services:
Opportunities, Barriers, Use
cases, Best Practices



https://documents.egi.eu/document/3013



Use-Cases

 Helix Nebula Science Cloud Pre-Commercial Procurement

GÉANT tender for Infrastructure as a Service solutions

The Commons Credit Model

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Cloud Credits Pilot: A Business Model to Support the Use of Cloud Computing for the Commons

Digital Object

Compliance

Software: Services & Tools

App store/User Interface

scientific analysis tools/workflows

Services: APIs, Containers, Indexing,

Data

"Reference" Data Sets
User defined data

Compute Platform: Cloud or HPC

Commons Credits Pilot The Commons FFRDC: Federally Funded Research and Development Center Cloud Investigator **FFRDC** Uses Requests credits credits Review & Selection Cloud Provider B **Delivers Funding** Distributes Recommendation Review & **Approval** Cloud Directs Provider C FFRDC FFRDC to distribute credits

NIH plans to allocate \$55.5 Million to the cloud commons pilot during 2017-2020

Source: https://datascience.nih.gov/





Defines platform service lifecycle that will govern how services enter into production and are eventually retired

Different phases will require different procurement approaches



Source: Net-

http://www.internet2.edu/vision-initiatives/initiatives/internet2-netplus/

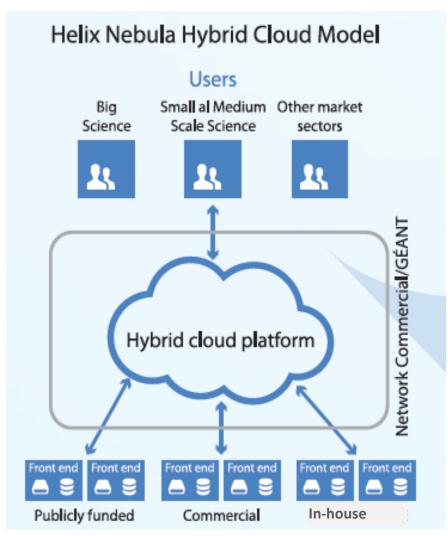
Universities continue using the service and work with Internet2 and the service

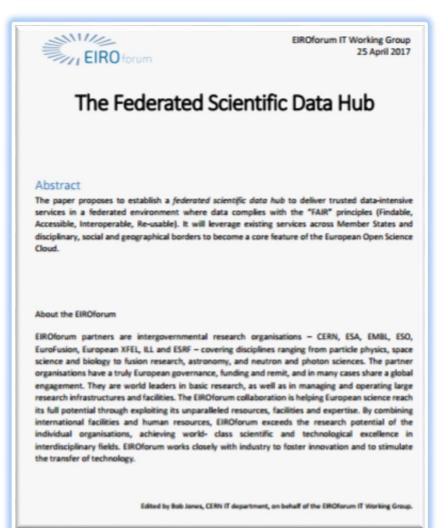
This phase marks the end of the lifecycle, when a service is in the process of moving out of the Internet2 service catalog, and ongoing subscriptions sunset at the end of existing terms or twelve months, whichever

provider to develop it further.

The Hybrid Cloud Model









Opportunities

Analysis led to an identification of a set of potential opportunities for cross-border procurement:

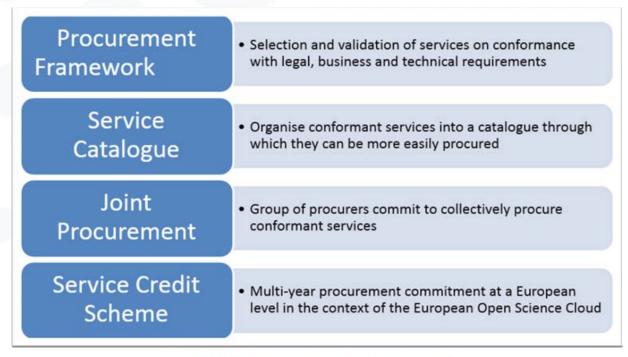


Figure 1 Potential Procurement Opportunities for EGI

Each successive opportunity represents increasing added value for the stakeholders with the key questions being:

- who pays?
- what risks are the participating parties ready to accept?

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How e-IRG can help

- The 2016 edition of the e-IRG roadmap recommends a service marketplace approach for implementing an e-Infrastructure commons
- As part of the e-needs gathering process for the ESFRI 2018 Roadmap, e-IRG can help drive the market analysis by quantifying the scale and variety of services that RIs will need over the medium term



Summary



- There are a number of on-going procurement activities which are breaking new ground, gathering valuable experience and lessons learned that can serve the community for the future
- Collective procurement has advantages of reducing the time, effort and risk while increasing cost effectiveness for individual organisations in the community which often lack procurement experience
- Bringing together this valuable experience in the context of the EOSC will help organise our community and increase the added value of the EOSC itself.