Cross border procurement of e–infrastructure services

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

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

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

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/
The Hybrid Cloud Model

Helix Nebula Hybrid Cloud Model

Users
- Big Science
- Small and Medium Scale Science
- Other market sectors

Network Commercial/GEANT

The Federated Scientific Data Hub

Abstract
The paper proposes to establish a federated scientific data hub to deliver trusted data-intensive services in a federated environment where data complies with the "FAIR" principles (Findable, Accessible, Interoperable, Re-usable). It will leverage existing services across Member States and disciplinary, social and geographical borders to become a core feature of the European Open Science Cloud.

About the EIROforum
EIROforum partners are intergovernmental research organisations — CERN, ESA, EMBL, ESO, EuroFusion, European XFEL, ILL and ESRF — covering disciplines ranging from particle physics, space science and biology to fusion research, astronomy, and neutron and photon sciences. The partner organisations have a truly European governance, funding and remit, and in many cases share a global engagement. They are world leaders in basic research, as well as in managing and operating large research infrastructures and facilities. The EIROforum collaboration is helping European science reach its full potential through exploiting its unparalleled resources, facilities and expertise. By combining international facilities and human resources, EIROforum exceeds the research potential of the individual organisations, achieving world-class scientific and technological excellence in interdisciplinary fields. EIROforum works closely with industry to foster innovation and to stimulate the transfer of technology.

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

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?
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.