EGI contribution to the Open Science Cloud

Consultation meeting, 30 Nov 2015
EGI for the Open Science Cloud

- 620,000 CPU cores from 350 providers worldwide, 500 PB of storage, > 500 virtual appliances and open source software
  - Open infrastructure, shared access
  - International federation of service, distributed computing and data
  - Open participation to providers – both publicly funded and private – who meet a set of community-defined policies
  - Service provisioning with user communities
  - 7 competence centres with ESFRI RIs

- Abstraction of service capabilities through the development, implementation, adoption and promotion of open standards and adoption of different interoperable technologies

- EGI Federated Cloud: the first open standard-based research cloud federation allowing the sharing of software appliances through a library of tools, their portability across the federation
Bridge data preservation infrastructures and computing

Via a federation of service hubs, offering storage, computing, software, thematic tools, geo-replication of research data, with sustained national and European public co-funding
Open Science platforms: sharing of open tools, applications, scientific software, research data

A marketplace where community platforms can be discovered, offered, supported, shared and accessed through grants
From “services” to “solutions” involving multiple providers (e-Infras, RIs, research communities, data providers...)

Co-design, harmonized access policies, federated service management processes, support, training, service discoverability
The Open Science Cloud

- Data replication and agreements
- Storage and data
- High speed network connectivity
- Data Management, Cloud compute, Cloud container compute, HTC and HPC

RIs and Research communities service providers

Open Science services

Thematic services

Research Data providers

e-Infrastructures