



e-Infrastructure Commons Marketplace

A proposal from CERN, EMBL & ESA

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Vision

The e-infrastructure commons marketplace

- Will provide access to worldwide and world class resources through a **dynamic and sustainable marketplace**.
- Be built on public and commercial assets, will cover the **entire scientific workflow**
- Will offer the broadest range of services
- Will ensure use of **open standard** and **interoperability** of service providers while adhering to **European policies, norm and requirements**.

A European cloud computing partnership: big science teams up with big business



Strategic Plan

- ▶ Establish multi-tenant, multi-provider cloud infrastructure
- ▶ Identify and adopt policies for trust, security and privacy
- ▶ Create governance structure
- ▶ Define funding schemes



To support the computing capacity needs for the ATLAS experiment



Setting up a new service to simplify analysis of large genomes, for a deeper insight into evolution and biodiversity



To create an Earth Observation platform, focusing on earthquake and volcano research



To improve the speed and quality of research for finding surrogate biomarkers based on brain images

Suppliers



Adopters



Who we need to do this?

- Users (consumers of research services / bringing Intelligence on the Marketplace)
- Data providers
- Funding Agencies (funders of research services)
- Suppliers (providers of research services)
 - Industry and Public Sector in a ‘level playing field’

How we want to do this?

- Establish an E-Infrastructure Commons Marketplace
 - E-Infrastructure: Encompass Generic, Domain and Community specific services
 - Commons: Open but governed to protect demand and supply side actors
 - Marketplace: Pay for use mechanism for public and private sector suppliers
- Impact
 - Researchers drive the evolution of services for their research needs
 - Funding agencies benefit from market forces to establish volume and price
 - Service providers are able to establish revenues to sustainable services
 - Establish an ecosystem that benefits downstream industries

