



Procurement Innovation for Cloud Services in Europe

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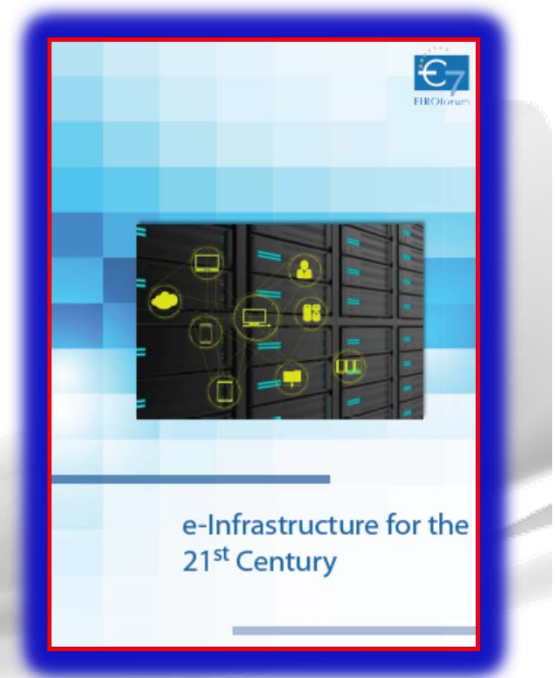


EIROforum

Serving European Science

A Vision for a European e-Infrastructure for the 21st Century

- The goal is to transform existing Distributed Computing Infrastructures (DCIs) based on a range of technologies into a *service-oriented platform* for the *global research community* that can be *sustained* through *innovative business models*
- Prepared by CERN on behalf of the EIROforum IT Working Group



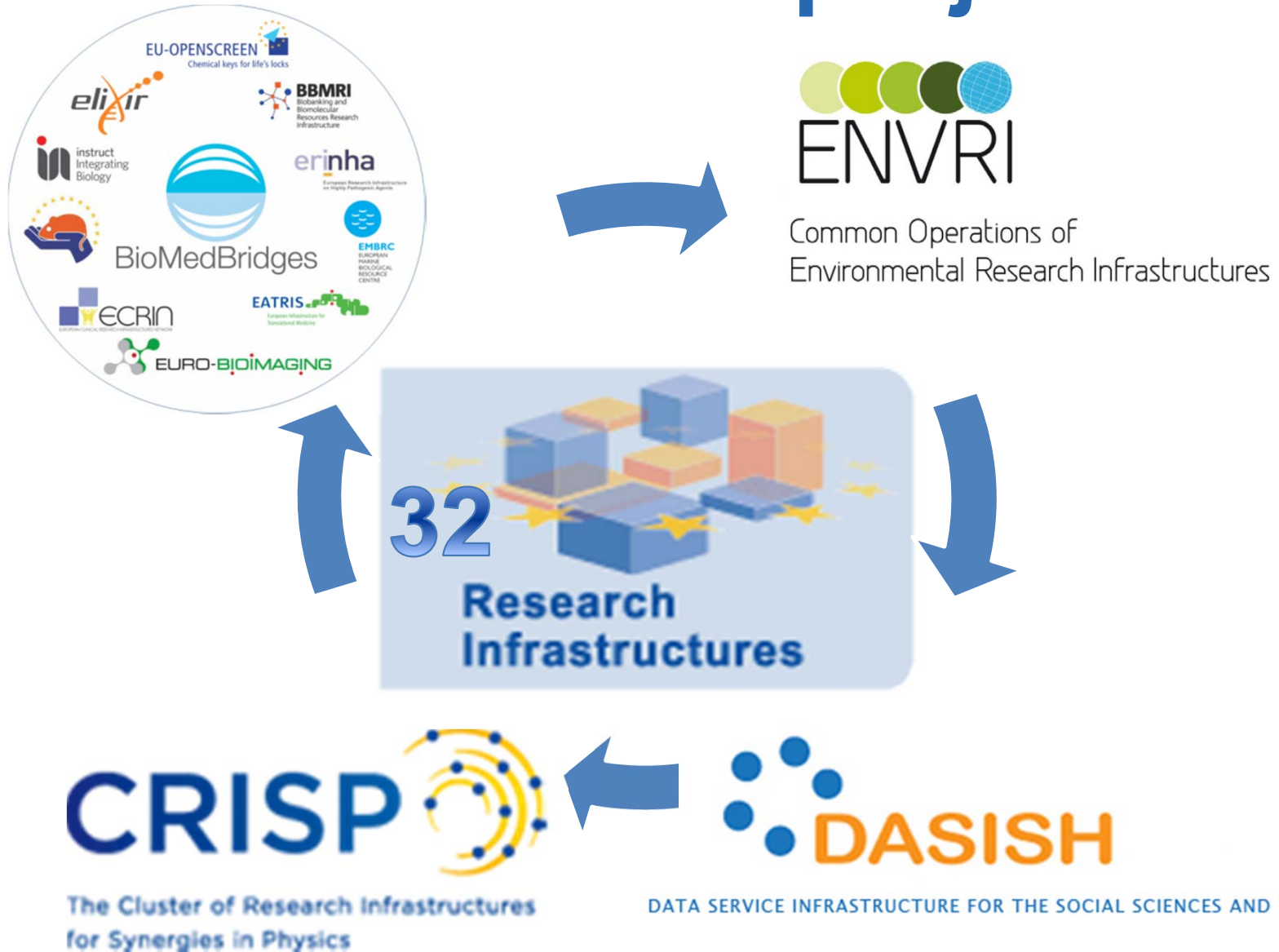
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The Business of Research

- Publicly funded research communities make significant investments in E-infrastructure that must be justified
 - To justify these investments the e-infrastructures must show a clear impact for the research communities
 - To gauge the impact, this market of end-users must be well understood by funding agencies and e-infrastructure services providers
- So the user communities must have a strong voice in the governance of the e-infrastructures to ensure they remain relevant and up to-date

ESFRI Cluster projects



Cross-Disciplinary Challenges

A matrix showing the interest in common topics for the four cluster initiatives

	CRISP	ENVRI	DASISH	BioMed
Data identity				
Data identity continuum				
Software identity				
Concept identity				
User identity management				
Common data standards and formats				
Service discovery				
Service market places				
Integrated data access and discovery				
Data storage facilities				
Data curation				
Privacy and security				
Volatile data management				
User Community Body				
Semantic annotations and bridging				
Reference models				
Education & training				5

Cross-Disciplinary Challenges

A matrix showing the interest in common topics for the four cluster initiatives

CRISP

ENVRI

DASISH

BioMed

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20 December 2013

Working paper Open access

Realising the full potential of research data:
common challenges in data management,
sharing and integration across scientific
disciplines

Field, Laurence ; Suhr, Stephanie ; Ison, Jon ; Los, Wouter ; Wittenburg, Peter ; Broeder, Daan ; Hardisty, Alex ; Repo, Susanna ; Jenkinson, Andy

(show affiliations)

volatile data management

User Community Body

Semantic annotations and bridging

Reference models

Education & training

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The scientific community has a clear need for powerful, high capacity and dependable infrastructure that can be used to advance their research without exposing it to data loss, corruption or intrusion.

Secure scientific clouds can meet these requirements, and several projects within the EU have been set up to satisfy this demand, including the Helix Nebula project and through GÉANT.

However, further work is needed to integrate existing science clouds, to promote their adoption, and to enhance their usability.

Secure clouds for science applications offer clear benefits in terms of scale, integrity and confidentiality. Further EU work is urgently needed to achieve this goal.

What have we learnt?

- Public organisations see value and opportunities in making use of commercial cloud services
- The production usage of commercial cloud services by public organisations has already started
- The public sector is a potentially profitable market for commercial cloud service providers
- The procurement and use of commercial cloud services poses a number of legal questions
- A coordinated approach by public organisations will help structure the market and reduce the burden on individual organisations

European Procurers' Platform



- Build on the work of Helix Nebula and projects such as *CloudForEurope* to raise the level of understanding of cloud services procurement
 - Case Studies, Barriers and Best Practices
 - Preparation of cross-border procurements
 - Research procurement roadmap
- Prepare for an e-Infrastructure Commons Marketplace