European Science Cloud for Research

Towards a common vision

EUDAT

LIBER

OpenAIRE

egi

GÉANT

Research & Innovation
Information Technologies /ATHENA

HELLENIC REPUBLIC
National and Kapodistrian
University of Athens

Natalia Manola
Athena Research & Innovation Centre
and University of Athens

What is the Science Cloud

What is the scope?
Is it amazon/azure/… technological services?

Who is it for?
Researchers!!! But who, how?

Everyone have their views
Time to converge, time to mature

Our vision

The Open Science Cloud offers researchers from all disciplines seamless, open access to the advanced digital capabilities, resources and expertise they need to collaborate and to carry out data- and computing-intensive science. Secure and trustworthy, the Open Science Cloud engages researchers in governing, managing and preserving resources for everyone's benefit.

What is yours?

European Open Science Cloud for Research

8 PRINCIPLES

... in design, in **participation** and in use

Open Science principles

No artificial barriers to participation
Open **minds** for
Open **Innovation**

1 Open

Persistence and sustainability

Facilities, services, resources, data, knowledge

Driving force is **research excellence**

Based on community **values** & services

Researchers need to feel it as **their own**

2 Publicly funded & governed

Researchers are our champions
Engage them in the design, operation, validation, use

Agile environment
for **excellent** science
with lower **entry barriers**

3 **Researcher centric**

Inclusive

Specific to no single scientific discipline or research field

Inter- and multi-disciplinary science

for integrated, new knowledge

Big Science
Long tail of Science
Citizen Science
Public data

…

4 Universal. Inclusive.

One size does not fit all

Build on **diversity**

Empower network effects

Use prior work

No investment **wasted**

National, thematic, institutional centers

5 Diverse & distributed

Connect

networks, data, computing, software, tools & services for research

as the **Web** connects information

Promote, adopt, use **common** standards

6 Interoperable

Support the full research life-cycle

Services meaningful to all stakeholders

Framework for Innovation:
testing environment for new & innovative
science

New methodologies for Open Science

7 Service oriented

Different disciplines, needs, behaviors

Community-based rules and procedures

with incentives for sharing and **responsible use**

Consultation, outreach, advocacy, training, support

at **all levels**

human, organization, policy, technology

8 Social

What we need?

Key aspects needed for the Open Science Cloud **already in place**

BUT

Most barriers are ones of policy, **consistent & committed funding**, lack of interoperability, access policies and coordinated provisioning

Detailed roadmap how to move ahead

- **integrate, consolidate, deliver**

How about governance?

Central key role of the research community

Model after the governance of the Internet "conducted by a decentralized, international group of stakeholders drawn from across research and civic society, from both public and private sectors"

Thank you!

Download position paper from Zenodo
http://dx.doi.org/10.5281/zenodo.32915

natalia@di.uoa.gr