



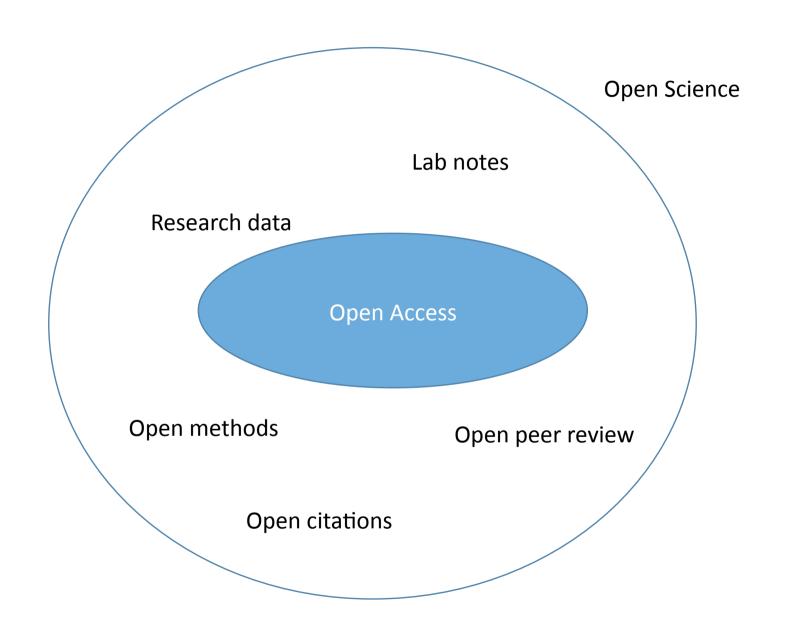


Fair data and open access

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Open science: a definition

Open Science is the practice of science in such a
way that others can collaborate and contribute,
where research data, lab notes and other research
processes are freely available, under terms that
enable reuse, redistribution and reproduction of
the research and its underlying data and methods
[FOSTER]

Science should be reproducible 1/2

- Open science is more than publishing in open access journals
- Plan S and the policies of some big funders have changed the scene foreseeing in their guidelines different possibilities

Pre-print, post-print, publisher's version are accepted

Science should be reproducible 2/2

- Underlying data should be accessible to allow reproduction
- A growing number of journals require data sharing as a condition for publication

Data should be accessible does not mean that data should be open

- Data can be private or accessible by a defined group of people (PI and the research group), or accessible for everyone (open data).
- Regardless of how open they are, to facilitate reproducibility data should be FAIR

FAIR data

- Findable
- Accessible
- Interoperable
- Reproducible
- To be FAIR data should be managed

Data should be managed: why?

Data underpin research findings

To be citable

Compliance with funder's mandates

Research integrity

More visibility

Reproducibility

Reusability

Research data at a European level

- Pilot on open research data
- Projects that support data management
- Infrastructure (EOSC)
- Guidelines and rules (copyright, GDPR, ethics)

Research data at a national level

Italy needs:

- A cultural change
- A national policy on research data
- Data on research data (for monitoring who, where, what)
- Guidelines and rules
- Infrastructures (interoperable with EOSC)

Research data at an institutional level

Institutions need:

A policy on research data management

Rules and guidelines

Legal and technical support

(staff)

Infrastructures



A cultural change

- The first step for a latecomer country is a cultural change
- Activities of groups such as IOSSG, RDA Italy,
 OpenAIRE should be followed by institutions and researchers
- Policies should be more effective
- Bottom up and top down actions are necessary if we want a cultural change to happen

A lot of work

 But we can «stand upon the shoulders of giants» and benefit from the experiences of other European countries