Turning FAIR into practice

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Presentation reflects the views of the author and group only
Report and Action Plan: Take a holistic approach to lay out what needs to be done to make FAIR a reality, in general and for EOSC

Addresses the following key areas:
1. Concepts for FAIR
2. Creating a FAIR culture
3. Creating a technical ecosystem for FAIR
4. Skills and capacity building
5. Incentives and metrics
6. Investment and sustainability

Recommendations and Actions: 27 clear recommendations, structured by these topics, are supported by precise actions for stakeholders.

Turning FAIR into Reality: Report and Action Plan
https://doi.org/10.2777/1524

Consultations: https://github.com/FAIR-Data-EG
While there is much existing infrastructure to build on, the further development and extension of FAIR components is required.

These tools and services should fulfil the needs of data producers and users, and be easy to adopt.
Research communities share data. Often peer-to-peer or easiest within disciplines or those closely related.

Data sharing agreements often disciplinary focused so it’s harder to make data meaningful to completely different communities.
Member state investments / disciplinary services / e-Infrastructure projects
Make EOSC FAIR

Networking

Repositories

E-infrastructure and Research infrastructure

Commercial services

Standards

Research and Innovation
Core principles

• Add value
• Be research-focused and led
• Make things easier – be the choice!
• Promote openness in all respects
FAIR and Open

• Concepts of FAIR and Open should not be conflated. Data can be FAIR or Open, both or neither
• The greatest potential reuse comes when data are both FAIR and Open
• Align and harmonise FAIR and Open data policy
Digital objects can include data, software, and other research resources

Universal use of PIDs

Use of common formats

Data accompanied by code

Rich metadata

Clear licensing

FAIR Digital Objects
FAIR ecosystem

- Essential components of the FAIR ecosystem
- Record all components in registries
- Ideally automated workflows between them
- Ecosystem should work for humans and machines
Key drivers

Cultural and social aspects that drive the ecosystem and enact change
Skills

- Two cohorts of professionals to support FAIR data:
  - data scientists embedded in research projects
  - data stewards who will ensure the curation of FAIR data
- Coordinate, systematise and accelerate the pedagogy
- Support formal and informal learning
- Ensure researchers have foundational data skills
Recognition

- Recognise the diversity of research contributions and encourage a culture change to include these in CVs, applications and activity reports

- Give credit to all roles related to data management and sharing

- Evidence of past FAIR practice should be included in assessments of research contribution

- Contribution to development and operation of certified and trusted infrastructures that support FAIR data should be recognized, rewarded and incentivised

Rewards
Investment

• Provide strategic and coordinated funding to maintain the components of the FAIR ecosystem

• Ensure funding is sustainable – no unfunded mandates

• Open EOSC to all providers, but ensure services are FAIR
FAIR Action Plan

A short tweetable recommendation

- Underpinned by several practical and specific action points
- Action points to be linked to stakeholders and timeframes

FAIR Action Plan is directed at the EC, Member States and international level, but will also apply in context of EOSC to inform this roadmap.
• The Expert Group has developed an overarching FAIR Action Plan

• Hope is that this will inspire the definition of more detailed FAIR Action Plans at research community and Member State level

• What are the priority actions in your area and for which stakeholders?
Where next Italy…

• Develop a national plan
  – IOSSG (Italian Open Science Support Group)
  – Research Data Alliance Italy - national node
  – OpenAIRE NOADS & EGI contact points
  – ICDI (Italian Computational and Data Infrastructure)
  – CNR (National Research Council of Italy)

• Build incentives into career progression structures

• Make strategic investments to feed into EOSC & national needs

• Leverage your position on the EOSC Governance Board