

Open Science and Sharing Research Data: Towards European Guidelines on RDM procedures



Netherlands Organisation for Scientific Research



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Presentation of a Proposal: Rationale for Aligning Core RDM Requirements

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We already saw this morning



- Data is increasingly regarded as a valuable output of scientific research
- Sharing data makes the scientific process more transparent and efficient
- Many RFO's and RPO's have formulated policies, requirements, templates, etc. for Research Data Management (RDM) and Data Management Plans (DMP)
- Data practices and cultures of data sharing vary among and within domains and communities

Research Data Management: Lots of variation

Who requires RDM?

- funders: national and international, public and private
- research infrastructures: national and international (e.g. ESFRI)
- universities, RPOs
- journals (DAP)

What do they require?

- which/how many criteria?
- FAIR principles?
- retention period?
- during/after research?
- data sharing?
- eligible for funding?
- including software?
- recommended repository/datacentre/archive?

How do they require it?

- via project proposal
- during evaluations
- via code of conduct
- via DMP tool

How detailed?

- data management plan
- data paragraph
- once or periodic updates
- template:
narrative/checkboxes

How strict?

- obligatory
- (strong) recommendation
- advice

A Selection of earlier declarations and principles related to Open Science:



- Budapest Open Access Initiative (2002)
- (European) Cultural Heritage Online Charter (2002)
- Bethesda Statement on Open Access Publishing (2003)
- Berlin Declaration on Open Access to Knowledge in the Sciences and Humanities (2003)
- OECD Principles and Guidelines for Access to Research Data from Public Funding (2007)
- Panton Principles (2009)
- FAIR Guiding Principles for Scientific Data Management and Stewardship (2015-16)
- (UK) Concordat on Open Research Data (2016)
- Amsterdam Call for Action on Open Science (2016)
- European Open Science Cloud Declaration (2017)

Summary of the RDM situation:

- Agreement on the overall aims of data management



However....after 15+ years:

- Many details differ at the level of implementation

Does this make sense?

It is confusing the researchers!

Towards alignment of core requirements



- NWO pledged to push this forward on occasion of EOSC Summit, 12 June 2017
- SE Working Group is the ideal forum to prepare the ground
- Start with aligning requirements of
 - Science Europe member organisations
 - DG Research
 - European Research Council
- Other research organisations (universities, institutes, etc.), including Journals with Data Availability Policies, invited to join

Common principles as a rationale: Adapt & Adopt RCUK concordat principles?



- Open access to research data is an enabler of high quality research, a facilitator of innovation and safeguards good research practice.
- There are sound reasons why the openness of research data may need to be restricted but any restrictions must be justified and justifiable.
- Open access to research data carries a significant cost, which should be respected by all parties.
- The right of the creators of research data to reasonable first use is recognised.
- Use of others' data should always conform to legal, ethical and regulatory frameworks including appropriate acknowledgement.
- Good data management is fundamental to all stages of the research process and should be established at the outset.
- Data curation is vital to make data useful for others and for long-term preservation of data
- Data supporting publications should be accessible by the publication date and should be in a citeable form.
- Support for the development of appropriate data skills is recognised as a responsibility for all stakeholders.
- Regular reviews of progress towards open access to research data should be undertaken.

Based on “Concordat on Open Research Data”, RCUK, 28th July 2016 <http://bit.ly/2DIhKsp>
<http://www.rcuk.ac.uk/documents/documents/concordatonopenresearchdata-pdf/>

Work by S.E. Working Group



- **Results of survey on DMP requirements - Algis Krupavičius**
 - **DMP templates comparison - Rune Rambæk Schjøberg**
 - **Best practices for evaluating of DMPs - Patricia Clarke**
- **Towards a list of recommended repositories (certified, trusted) -Katharina Rieck**
- **Forum / Discussion**



DANS is about keeping data FAIR

www.dans.knaw.nl

Mission: promote
and provide
permanent access
to digital research
resources

Thank
you for
listening

First predecessor
dates back to
1964 (Steinmetz
Foundation),
Historical Data
Archive 1989

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