Data Management Plan – Why write one and how to do it?

Seminar organized by:
Stockholm University Library
Research Support Office
January 28, 2020, 09:00 – 12:00
Program

9:00 – 9:15 Welcome and introduction – Anders Moberg¹

● 9:15-10:15 Funding agency requirements on Data Management Plans
  Riksbankens Jubileumsfond – Eva Stensköld
  Vetenskapsrådet – Sanja Halling

● 10:15-10:30 Coffee

● 10:30-12:00 Data Management Plans in context and practice
  Open Data Pilot – ERC/Horizon 2020 – Mikko Roos²)
  Data Management – Good research practice – Sara Belfrage²)
  How to write a Data Management plan – Joakim Philipson³)
  Archiving research data – Margareta Ödmark³)
  Data Management services and support – RDM team³)

1) Department of Physical Geography    2) Research Support Office    3) Research Data Management Team

What is a Data Management Plan?

A data management plan (DMP) contains information concerning how research materials are collected, organized, saved, made accessible and preserved during the entire research process and following the completion of a project.
Why should you write one?

1. To help your future colleagues and other interested persons to find, access and understand how to use your research data.

2. Because it has been decided that you have to!
On the path to a new paradigm...

- **Open science** is the movement to make scientific research and its dissemination accessible to all levels of an inquiring society, amateur or professional.

- In 2016, Sweden and the EU member states adopted the EU Council’s conclusions on the transition towards an open science system.

https://en.wikipedia.org/wiki/Open_science
https://www.vr.se/english/analysis-and-assignments/open-science/open-access-to-research-data.html
https://content.iospress.com/articles/information-services-and-use/isu846
On the path to a new paradigm...

- **Member States should set and implement clear policies** for the management of **research data** resulting from publicly funded research, including **open access**.

- **Data management planning** becomes a standard scientific practice early in the research process,

- **Research data** that results from publicly funded research becomes and stays **findable, accessible, interoperable and re-usable (‘FAIR principles’)** within a secure and trusted environment, through **digital infrastructures**.

https://ec.europa.eu/research/openscience
Requirements from funders

- “By 2019, all who receive grants from us must have a data management plan”

  **Vetenskapsrådet**

- “RJ har ... beslutat att begära in en DHP för projekt som söker inom stödformen Infrastruktur för forskning under år 2020”

  **Riksbankens Jubileumsfond**
• What is your data about?

• Will future scientists find and understand your data?
A scientist

- Pehr Wilhelm Wargentin (1717–1783)
- Astronomer
- Secretary of the Royal Swedish Academy of Sciences
- Initiated “Tabellverket”, now known as Statistics Sweden

Image from Wikimedia. Public Domain.
His office

- Old astronomical observatory in Stockholm
- Daily weather observations 1754 – 1783
- Argued for using standardized observation routines

The original document is available at the Centre for History of Science. Image from Instagram. Photo courtesy of J. Häggblom.
some of His data

Wargentin’s weather observation diary, January 1756.
Centrum för vetenskapshistoria, Manuskriptkatalogen, Meteorologiska Centralanstaltens arkiv, Meteorologiska observationer från Stockholms observatorium.
His paper about those data
Which is most important today?

His data or his paper?
A Data Management Plan and good metadata would have helped scientists today to better understand Wargentin’s and later observers’ data.

You can help future scientists to find, access and understand how to use your data!
A data management plan helps to do better science – now and in the future.

Image source: uOttawa, apparently earlier used in OPERA Data Management Plan, and there said to be adapted from UK Data Service.
SND – a national collaboration

Swedish National Data Service (SND) has a primary function to support the accessibility, preservation, and re-use of research data and related materials. Together with a network of more than 30 universities and public research institutes, we strive to create a national infrastructure for open access to research data.

https://snd.gu.se/
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