

# LOVE DATA WEEK

10-14 fevereiro 2025

## OPEN SCIENCE & RESEARCH DATA MANAGEMENT GLOSSARY

### DATA CURATION

Ongoing processing and maintenance of data throughout its lifecycle to ensure long term accessibility, sharing, and preservation. It includes research data management and digital preservation, and involves processes such as adding metadata to make data more findable and understandable, ingesting data into a repository, validating file checksums and file fixity checks, and other tasks for organizing, cleaning, describing, enhancing, storing, and preserving data.



*NLM Data Glossary*

### DATA MANAGEMENT PLAN

Details how data will be collected, processed, analyzed, described, preserved, and shared. Data management plans ensure that data will be properly documented and available for use by other researchers in the future.



*NLM Data Glossary*

### DATA SECURITY

Process of protecting data from unauthorized access, theft, and corruption throughout its lifecycle. Includes safeguarding data against hacking attempts, data breaches, natural decay, and exploitation.



*NLM Data Glossary*

### DATA SET

Any organized collection of data. Database is a type of a data set.



*Science Europe Data Glossary*

### DATA REPOSITORY

Data storage system that holds data sets, makes them available to use, and organized in a logical manner. It may have specific requirements concerning subject or research domain; data re-use and access; file format and data structure; and the types of metadata that can be used.

*Science Europe Data Glossary*



### DATA SHARING

The practice of making data available to other research stakeholders in order to promote transparency and research reproducibility, and to increase the impact of research data.

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### DATA STEWARDSHIP

Ensuring effective control and use of data assets: creating and managing metadata, applying standards, managing data quality and integrity, and other data governance activities related to data curation. It can also include creating educational materials, policies, and guidelines around data at an institution. Data catalogers, data managers, data curators, and librarians working with an institutional repository are data stewards.



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### FAIR PRINCIPLES

4 guiding principles for scientific data management and stewardship that emphasise machine-actionability as a result of the increase in volume, complexity, and creation speed of data.



*Go FAIR*

### METADATA

Information that describes, explains, locates, classifies, contextualizes, or documents an information resource. It can help manage data, by tracking attributes like data provenance and versioning.



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### OPEN DATA

Data freely available for reuse/secondary data analysis following the FAIR principles. The "openness" of data ranges from being highly restricted to freely available.



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### PERSISTENT UNIQUE IDENTIFIER

A string of letters and numbers used to distinguish between and locate different objects, people, or concepts.

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### OPEN SCIENCE



An approach to research based on open cooperative work that emphasizes the sharing of knowledge, results and tools as early and widely as possible.

*European Commission*

### RESEARCH DATA



Evidence that underpins the answer to research questions, and can be used to validate findings regardless of its form. It might be quantitative or qualitative information collected by researchers in the course of their work, or derived from existing evidence.

*OpenAIRE*

### RESEARCH DATA LIFECYCLE

All the stages of data throughout its life from creation to distribution and reuse. The data lifecycle begins with study concept development, data collection, data processing for distribution, archive and later (re)use, in a continual loop back to the data processing stage.



*Science Europe Data Glossary*

### RESEARCH DATA MANAGEMENT

Organization, documentation, storage, and preservation of the data resulting from the research process.

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