

Deposit Options to Enhance the FAIR Principles

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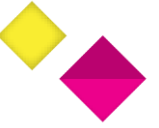
*ICPSR, Institute for Social Research
University of Michigan*

ICPSR

A graphic celebrating 60 years, featuring a large pink diamond with the text "60 years" inside. The diamond is surrounded by several smaller, overlapping diamonds in various colors including orange, green, yellow, and teal.

60
years

Research Data



- Research data may contain information about individuals and organizations
- Research data are not intended for identifying individuals or organizations
- Information for producing aggregate results such as summary statistics and regression coefficients
- Aggregate results must meet disclosure protection thresholds for cell sizes for tables, sample sizes for regressions, and other specified conditions such as the suppression of certain variables or disallowed sub-samples

Multiple Sources



- Research data are sometimes available from multiple sources
- Ongoing studies with multiple waves often provide data access through the project website
- Creates challenges for projects wanting to make data findable by researchers outside of the project website

Repositories for Research Data



- Most repositories for research data have only one method of deposit: *Data and Documentation*
- These repositories make the research data available for download or through a restricted access mechanism
- Repositories must adhere to the FAIR principles

FAIR Principles



- **Findable**
Data and metadata should be easy to find for both humans and computers
- **Accessible**
Public access through web download or controlled access through an application
- **Interoperable**
Data and metadata should interoperate with workflows for analysis, storage, and processing
- **Reusable**
Data and metadata should be well-described so that they can be replicated and re-analyzed

ICPSR



- One of the largest repositories of research data
- Catalog of research data
- Variables database
- Search for research data by topics or variables
- Online analysis and exploration
- Bibliography

Data Sharing for Demographic Research (DSDR)

- One of the topical archives at ICPSR
- Funded by the *Eunice Kennedy Shriver* National Institute of Child Health and Human Development
- Focus on Maternal and Child Health, Lifecourse, International Comparisons
- DSDR has developed four deposit options

Four Deposit Options



- Standard
- Mirror
- Extensive Metadata
- Study Descriptor

Standard Deposit



- Research Data and Documentation
- Exclusive
- Public and Restricted Access
- Extras:
 - Online Exploration of Data
 - Data Guides
 - Bibliography
- ❖ Should conform to FAIR Principles

Mirror Deposit



- Non-Exclusive
- Different repositories have the same data and documentation
- One repository designated as primary, and other repositories mirror the primary
- Public access only
- ❖ Enhances: Findable, Accessible and Interoperable

Extensive Metadata Deposit



- Data and Documentation available from other sources
- Metadata about study and variables incorporated into multiple repository catalogs
- Ideal for ongoing studies with multiple waves where data are available from a project website
- Researchers can search and compare studies and variables
- ❖ Enhances: Findable and Interoperable

Study Descriptor Deposit



- Data and Documentation available from another source
- Metadata about study only incorporated into other repository catalogs
- Researchers can search and compare studies
- ❖ Enhances: Findable

Metadata Standards



- Metadata standards vary by academic discipline and type of data
- DDI-Codebook or DDI version 2 is the current ICPSR metadata schema
 - DDI: *Data Documentation Initiative*
- Other examples of standards include *CERIF, Dublin Core, DCAT, DataCite, DIF, FITS, PROV*
- Harmonizing metadata elements is an ongoing challenge

Discoverable



- Discoverable is Findable, enhanced
 - A *Digital Object Identifier (DOI)* is necessary but not sufficient
- Search by title, source, author, topic
- Search by variables and question text
- Search by data elements
- Compare search results to ascertain differences and similarities

Research Data Catalogs



- Research Data Catalogs are essential for making data discoverable
- Catalogs are the foundation for searches
- Archives may comprise both data repositories and catalogs or only catalogs
- ❖ Mirror, Extensive Metadata, and Study Descriptor deposits enhance the discoverability of research data by expanding where data are cataloged

Support 60 more years of data: <https://myumi.ch/ICPSR-60MoreYears>

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