

The Dataverse Network and OJS Project to Encourage Data Sharing & Citation in Academic Journals

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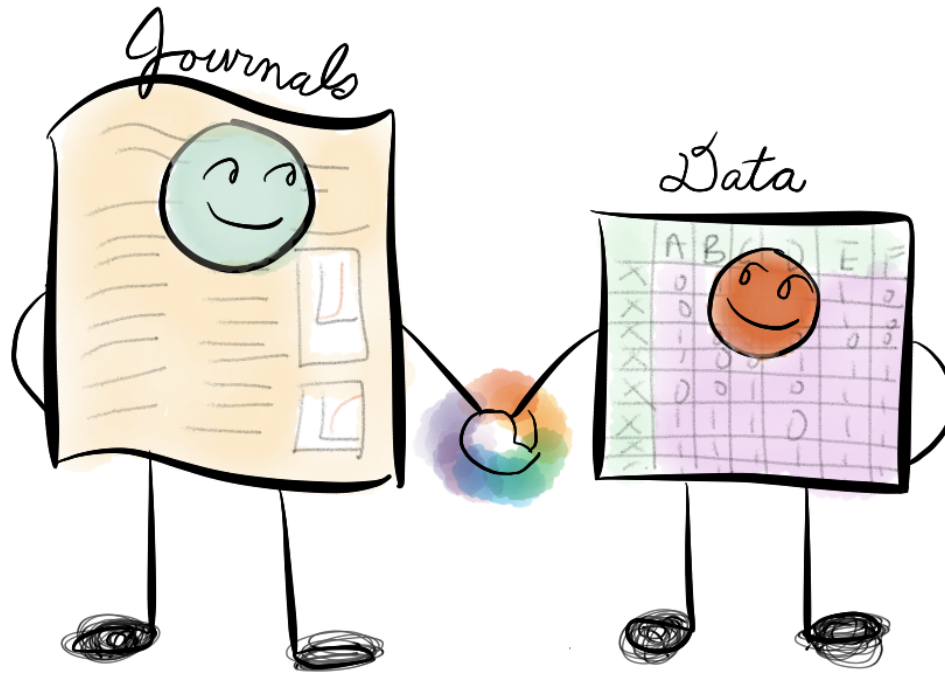
Harvard University



@thedataorg

IASSIST 2013 - Cologne, Germany

Motivation



Why Connect Published Work to Data



+

**Data + Metadata +
Supporting Files**
(documentation, code)

A screenshot of a data table, likely from a spreadsheet application. The table has many columns and rows of numerical data. The columns are labeled with various numbers and some text. The rows contain numerical values. The table is displayed in a window with a standard toolbar at the top.

=

A third party can replicate or reuse,
thus validate and advance science

Quotes for “Why?”

"The most immediate of these obstacles is the **lack of a consolidated infrastructure** for the easy sharing of data" - JORD Project results via [Edawax blog](#)

"Any moves towards data sharing are dependent upon the **cooperation of journals**."*
– Sergiu Ghergina and Dr. Alexia Katsanidou

A team was assembled...

2 year Sloan Foundation grant (05/12-05/14):

- Public Knowledge Project (PKP)
 - Simon Fraser University
 - Stanford University (John Willinsky)
- Dataverse Network Project
 - Harvard University's Institute for Quantitative Social Science (IQSS) (Gary King & Merce Crosas)
 - Micah Altman – Director of Research at MIT



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Project Proposal

Who?: Address the needs of **journal publishers** and editors in addition to researchers and data managers.

What?: We propose to enable journals to:
Seamlessly manage the submission, review, and publication of data associated with published articles.

How?: We will help build the needed **technology** and create **awareness** among journal editors and publishers regarding the importance of data sharing and preservation.

The End Result?

Help **increase** the **replicability** and **reusability** of published work in social science (and other disciplines) by improving the infrastructure for, practice of, and incentives related to **data publication and citation**.



Integrating Open Source Systems

We plan to do this by integrating two well-established open-source systems:

1. [Open Journal Systems](#) (OJS)
[Willinsky 2005]

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2. [Dataverse Network](#)
[King 2007; Crosas 2011]



Open Journal Systems (OJS)

Ethics & Global Politics



IMPACT
FACTOR
0.808

COACTION
PUBLISHING

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Open source journal management and publishing system created by PKP to expand & improve access to research.

Ethics & Global Politics



Ethics & Global Politics is an Open Access, peer reviewed scholarly journal looking to foster theoretical contributions to the study of global politics by providing a forum for presenting novel ways of understanding and conceptualizing the global political challenges the world faces today. It welcomes articles from a broad range of disciplines, among them political science, philosophy, sociology, history, and legal and gender studies.

The journal is published by Co-Action Publishing with support from The Swedish Research Council and Uppsala University and with editorial office at the Department of Government, Uppsala University, Sweden (www.statsvet.uu.se).

Chief Editor: Eva Erman
Contact: egp@statsvet.uu.se

E-Alerts

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Vetenskapsrådet

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S publishes peer-reviewed essays on Lacanian and related topics from the fields of art, film and literary criticism, political, philosophical and ideological critique. With permission, S also re-publishes hard to obtain essays and translations from seminal thinkers in Lacanian studies whose work deserves the worldwide dissemination open access publishing affords.

Vol 5 (2012): Topology

Special topic on topology edited by Benjamin Bishop

Table of Contents

Editorial

Topology and the Inscription of the Clinic	PDF
<i>Benjamin Joseph Bishop</i>	1-5

Articles

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Generalized Placement: Elements of Analytic Knot Theory	PDF
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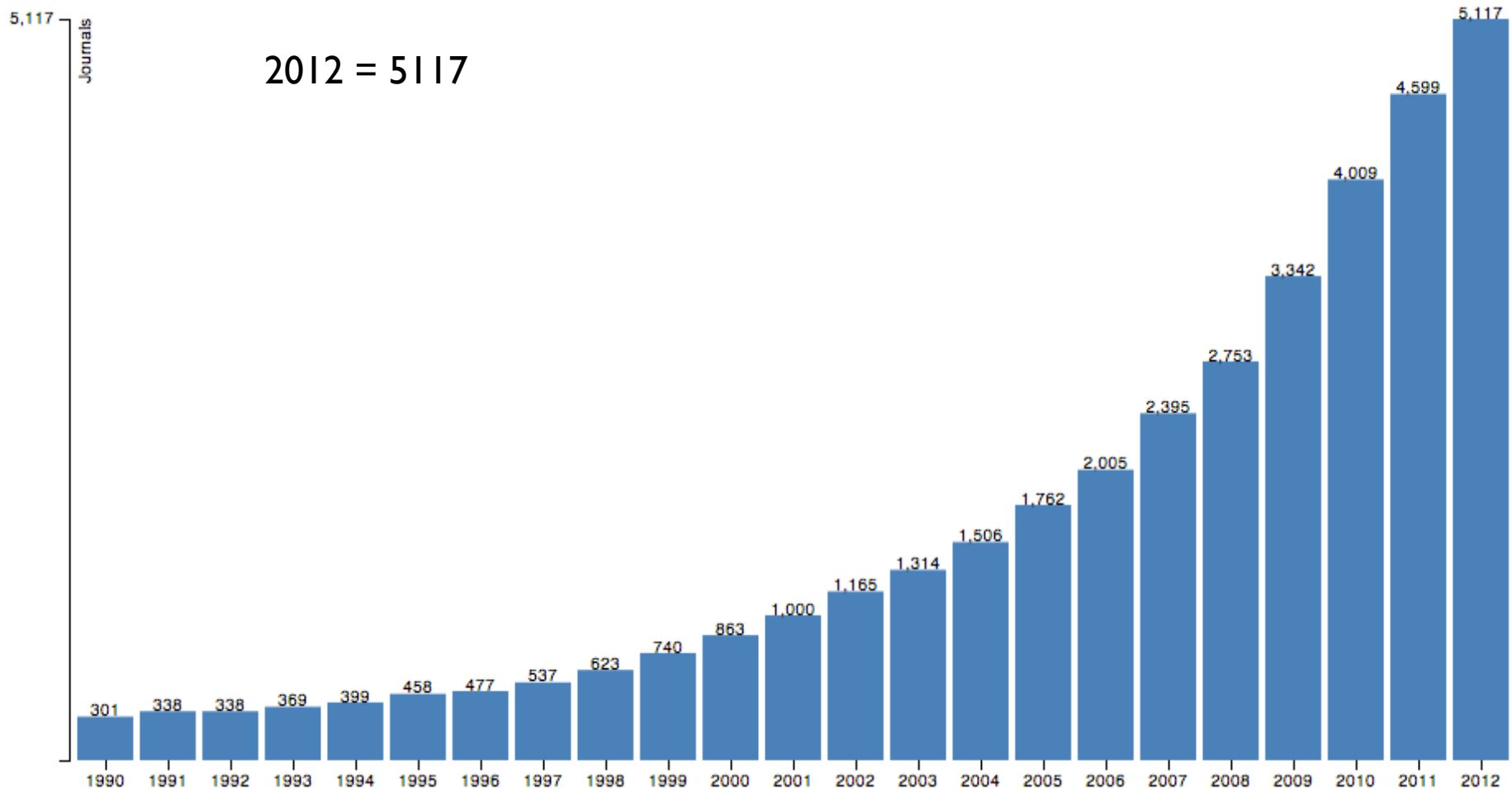
Dialogues

Homology: Marx and Lacan	PDF
<i>Samo Tomšič</i>	98-113
From Representation to Class Struggle: A Response	PDF
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Interventions from the Clinic

Current Controversies in the Treatment of Autism in France	PDF
<i>Marie-Jean Sauret, Sidi Askofaré, Pascale Macary-Garipuy</i>	127-144

OJS Journals w/ at least 10 articles per year



Credit: Juan Alperin, PKP

OJS provides...

- ✓ Technical infrastructure for an entire editorial management workflow (submission, peer review, indexing).
- ✓ 'Plugin' architecture (a la WordPress, Drupal, etc) to easily add new features without the need to change the entire core code base.
- ✓ Universal Metadata standards (expandable Dublin Core).
- ✓ Inter-operability with other systems through standard protocols (such as OAI-PMH, APIs).
- ✓ Option for backups and replication of journals in different locations (LOCKSS) so access is never lost.

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Dataverse Network



Share, Cite, Reuse, Archive Research Data
Scientific data for reproducible research

Harvard Dataverse Network

POWERED BY THE **Dataverse Network** PROJECT v. 3.4



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The Harvard Dataverse Network is open to all scientific data from all disciplines worldwide. It includes the world's largest collection of social science research data. If you would like to upload your research data, first create a dataverse and then create a study. If you already have a dataverse, log in to add new studies. [Learn more about the Dataverse Network.](#)

Dataverses

524 Dataverses

A **Dataverse** is a container for research data and its owner.

RECENTLY RELEASED DATAVES

Mitts, Joshua

Damico, Anthony

[Create Dataverse](#)

Studies

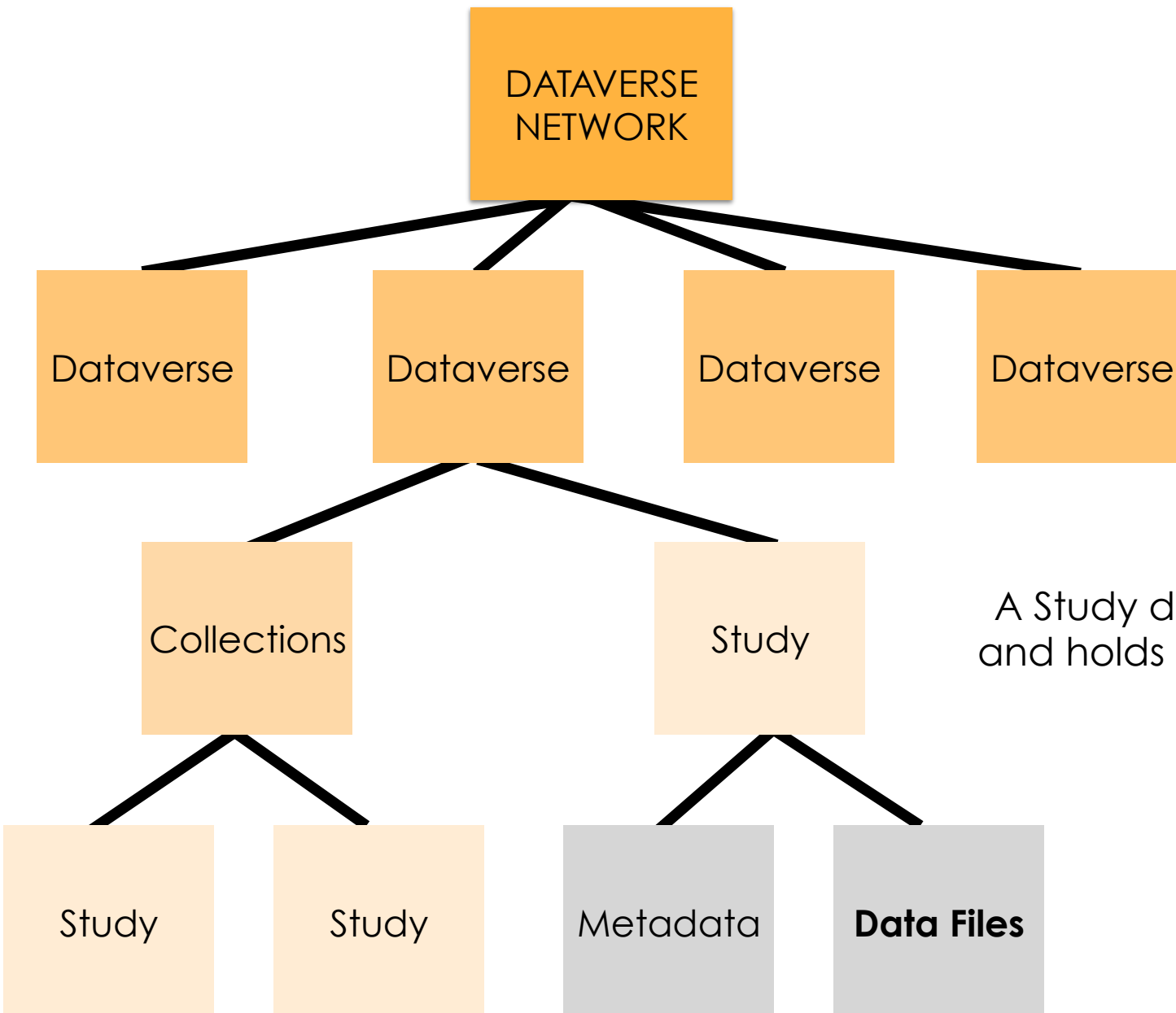
51,963 Studies, **722,906** Files, **757,550** Downloads

... includes cataloging information,

... and the Development of Party

May 6, 2013

A repository for research data that takes care of long term **preservation** and **good archival** practices, while the **researchers and data producers keep control** of and **get recognition** for their data.



A Dataverse is a virtual data archive with its own branding

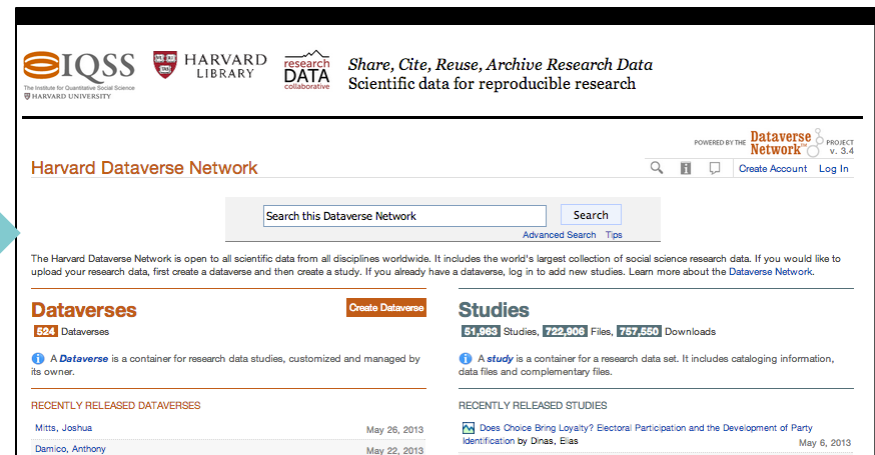
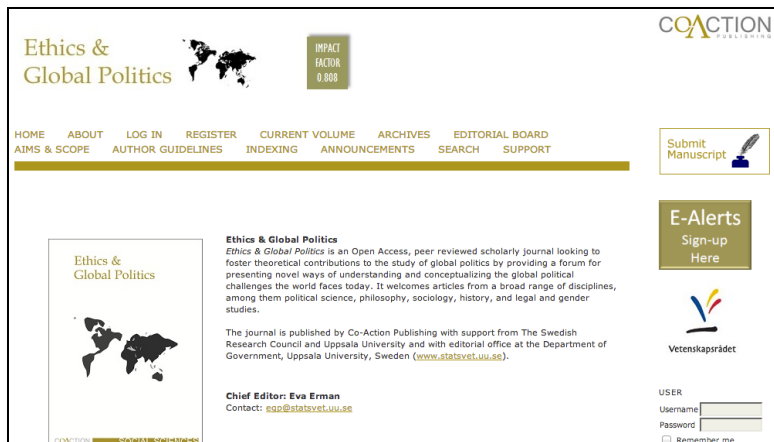
A Study describes and holds the Data

Dataverse Network provides...

- ✓ Option for backups and replication of data in different locations (LOCKSS) so data is never lost.
- ✓ Re-format for long term accessibility so data never become obsolete.
- ✓ Extract Variable Metadata from data sets.
- ✓ Universal Metadata standards (DDI, Dublin Core).
- ✓ Inter-operability with other systems through standard protocols (such as OAI-PMH, APIs).
- ✓ Generates a Handle for permanent linking to datasets.

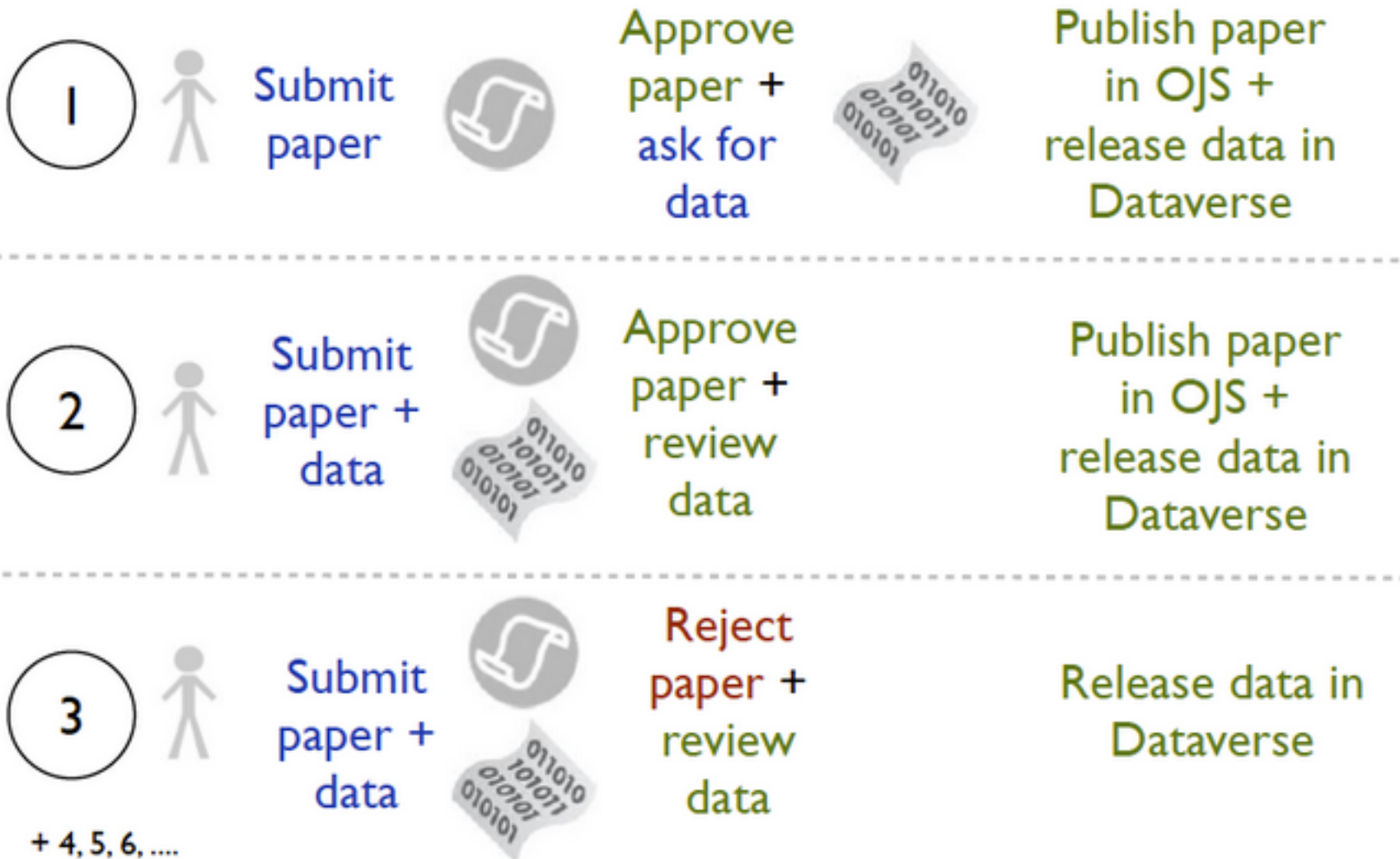
The Dataverse takes care of the archival infrastructure
("plumbing") for you!

OK so what is the integration going to do?



OJS plugin for:
Data + metadata + supporting files,
sent via SWORD API
to the Dataverse

Which Workflow?



Progress to-date

Compiled a list of potential journals (~100) that we can work with. Contacted a small sample of publishers to be our 1st round of pilot testers (30+ journals).

Publishers reviewed our [plugin workflow](#) and [mockups](#) to provide feedback before beginning development.



Mockups of OJS Plugin: Journal Setup

Dataverse Demo Journal

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Search

Home > User > Journal Management > **Dataverse Plugin**

Dataverse Plugin

[DATAVERSE](#) [SETTINGS](#)

Configure Dataverse connection.

Dataverse URL *

Username *

Password *

Save

Cancel

* Denotes required field

Mockup of Data Deposit (in OJS)

[Home](#) > [User](#) > [Author](#) > [Submissions](#) > **New Submission**

Step 4. Uploading Data Files

1. START 2. UPLOAD SUBMISSION 3. ENTER METADATA 4. **UPLOAD DATA FILES** 5. CONFIRMATION

You may provide access to data files and other supplementary materials related to your work. Upload files to the journal's Dataverse or provide a citation and link to data already published online.

Upload Data Files

ID	TITLE	ORIGINAL FILE NAME	DATE UPLOADED	ACTION
5	Untitled	19-282-1.csv	05-24	EDIT DELETE

Choose data type *

CSV (w/ SPSS card) ▾

Some file types can be subset and analyzed using the Dataverse Network analysis tools. Learn more about [subsetting data files](#).

Upload data file *

[Choose File](#)

No file chosen

[Upload](#)

Terms of use *

☒ I agree to the [terms of use](#) governing the submission of data files to the journal's Dataverse.

[Save and continue](#)

[Cancel](#)

Link to Data Files

If your data is already published in a repository, please provide a citation and link. Please note that for review purposes, your data must be published and/or otherwise downloadable.

ID	CITATION	PERSISTENT ID	DATE ADDED	ACTION
6	[citation]	hdl:00001/0002	05-24	EDIT DELETE

Citation *

Persistent Identifier *

Provide a persistent identifier, e.g., DOI or HANDLE.

[Journal Help](#)

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FONT SIZE

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- [For Librarians](#)

Step 4a. Upload Data Sets

1. START 2. UPLOAD SUBMISSION 3. ENTER METADATA 4. **UPLOAD DATA SETS** 5. CONFIRMATION

[<< Back to Supplementary Files](#)

Metadata

To index this supplementary material, provide the following metadata for the uploaded file.

Title*

Author(s) of file

Keywords

Brief description

Category

Date YYYY-MM-DD
Date when data was collected or instrument created.

Metadata fields will be selected ahead of time by journal admin.

Supplementary File

File name	3-18-1-SP.pdf
Original file name	19-282-1-PB.pdf
File size	248KB
Date uploaded	2012-12-11 02:09 PM

☐ Present file to reviewers (without metadata), as it will not compromise blind review.

Replace file Use Save to upload file.

Save and continue

Cancel

* Denotes required field

Mockup of Published Article + Link to Data

Dataverse Demo Journal






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Home > Vol 1, No 1 (2012) > **Klockmo**

Moving toward a recovery-oriented approach in the Swedish mental health system

Carolina Klockmo

ARTICLE TOOLS

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Reading Tools

journals.sfu.ca/dataverse/index.php/demo/rt/suppFiles/1/0

demo Reading Tools

Data

Moving toward a recovery-oriented approach in the Swedish mental health system

1. Replication data for: Moving toward a recovery-oriented approach in the Swedish mental health system

Type:

Data Citation:

Full Record Available In:

Data Tools:

Data Set

Carolina Klockmo, 2012, "Moving toward a recovery-oriented approach in the Swedish mental health system", [hdl:99999/00000](#)

[COACTION DATAVERSE NETWORK](#)

[INDEXING METADATA](#)

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Close

Data in the Dataverse

Simon Fraser University Dataverse Network >

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Co-Action Dataverse

    [Eleni Castro](#) [Log Out](#)

REPLICATION DATA FOR: MOVING TOWARD A RECOVERY-ORIENTED APPROACH IN THE SWEDISH MENTAL HEALTH SYSTEM

hdl:TEST/10000

DRAFT Study Version: 1 – No Released Version

Created: Thu Dec 20 11:30:31 PST 2012 – Last Updated: Thu Dec 20 11:32:18 PST 2012


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- [Add File\(s\)](#)
- [Edit Study Version Notes](#)
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 If you use these data, please add the following citation to your scholarly references. [Why cite?](#)

Data Citation

Klockmo, Carolina, 2012-12-13, "Replication data for: Moving toward a recovery-oriented approach in the Swedish mental health system", <http://hdl.handle.net/TEST/10000> V1 [Version]

Citation Format

[Print](#)

Publications

Vulnerable Groups & Inclusion. <http://dx.doi.org/10.3402/vgi.v3i0.18879>
ID: DOI:10.3402/vgi.v3i0.18879
[Link](#)

Data Citation Details

Study Global ID	hdl:TEST/10000
Authors	Klockmo, Carolina (Department of Health Sciences, Mid Sweden University)
Production Date	December 13, 2012
Contact	Klockmo, Carolina (Department of Health Sciences, Mid Sweden University), carolina.klockmo@miun.se
Distribution Date	December 13, 2012
Deposit Date	December 13, 2012
Provenance	Co-Action Dataverse

Next Steps

1. Begin development of plugin and API ([SWORD2-compliant](#)) (Summer 2013).
2. Additional publishers will test + provide feedback through a survey (Fall 2013).
3. Provide best practices for data review/sharing policies and data citation (starting Fall 2013).
4. Test and release updated versions of OJS + Dataverse Network (Spring 2014).
5. Make code & docs available for everyone.

High Level Project Roadmap

Phase	Milestones/Deliverables	Timeframe
1	Contact OJS Journals for feedback on OJS Dataverse Plugin Workflow and Use cases.	Fall 2012-Winter 2013
2	OJS-Dataverse team develops plugin/API.	Spring-Summer 2013
3	Journals test + give feedback.	Fall 2013
4	Gather feedback from pilot testers.	Fall 2013
5	Test + Release new versions of OJS and Dataverse.	Winter-Spring 2014
6	Technology made available for others. Release best practices, and other documentation.	Spring 2014

Some Advantages to Integration

1. Streamlining **authors'** article and data deposit process.
2. Permanent **2-way linking** of the published article with its archived data.
3. Increase visibility/access, and encourage data citation, replication and re-use.

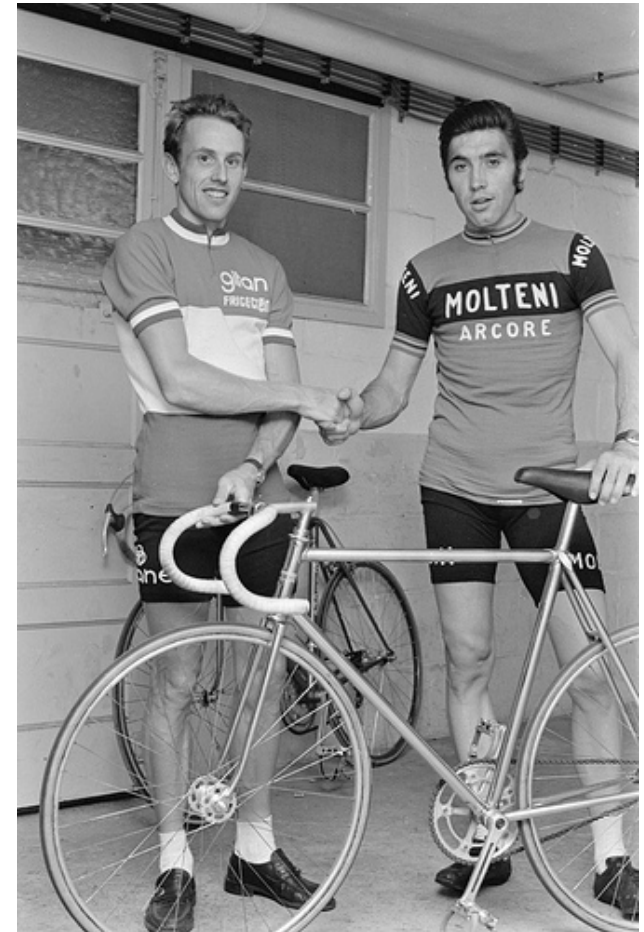


Photo: [Flickr Commons](#)

Thank you!

Contact

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Project Web site / References

<http://projects.iq.harvard.edu/ojs-dvn>



Photo: [Flickr Commons](#)

[Crosas, M., The Dataverse Network™: An Open-Source Application for Sharing, Discovering and Preserving Data, D-lib Magazine 17\(1/2\). 2011.](#)

[King, G. "An Introduction to the Dataverse Network as an Infrastructure for Data Sharing." Sociological Methods and Research, 32\(2\), 173–199. 2007.](#)

[Willinsky, J.. Open Journal Systems: An example of open source software for journal management and publishing. Library Hi-Tech 23 \(4\), 504-519. 2005.](#)