OJS + Dataverse: Integrated & Transparent Publishing Workflows

Eleni Castro, Research Coordinator > IQSS, Harvard
PKP AGM 2014 > October 3, 2014
At the Policy-Level...

Data availability policies are not enough.

Ghergina & Katsanidou 2013 study: 18/120 Pol Sci + IR journals have a replication policy, yet replication “is essential for the evaluation of the quality of a piece of work.”

Journals may not able to provide storage (Ishiyama 2014), long-term data management and preservation.
Developing technological solutions in editorial software and repositories can help reduce the rate of noncompliance with journal data availability policies.
Introduction to Dataverse

Software framework for publishing, citing and preserving research data (open source on github for others to install)

Provides incentives for researchers to share:
- Recognition & credit via data citations
- Control over data & branding
- Fulfill journal data availability and funder requirements.

Harvard Dataverse (open to all; repository instance at Harvard) currently has:

- 761 Dataverses
- 54,828 Datasets
- 748,554 Files

> 1 Million Downloads
OJS-Dataverse Integration

Details: 2 Year Project 2012-2014
- Integrating w/ PKP’s Open Journal Systems (via SWORD API).
- Pilot with ~ 50 journals + expanding outreach (hundreds).
- OJS’ Dataverse plugin now available with latest OJS release.
- Future: Extend integration with Dataverse to OMP.

http://projects.iq.harvard.edu/ojs-dvn
Generic Plugins

Generic plugins are used to extend Open Journal Systems in a variety of ways that are not supported by the other plugin categories.

Referral Plugin

The Referral Plugin tracks incoming refback URLs to articles (i.e. when a reader follows an external link to an article), allowing Authors to maintain and potentially publish an automatically-updated list of refbacks to an article.

Usage event

Creates a hook that provides usage event in a defined format.

Usage Statistics

Present data objects usage statistics. Can use server access log files to extract statistics.

TinyMCE Plugin

This plugin enables WYSIWYG editing of OJS textareas using the TinyMCE content editor.

Acron Plugin

This plugin attempts to reduce the dependance of OCS on periodic scheduling tools such as 'cron.'

Web Feed Plugin

This plugin produces RSS/Atom web syndication feeds for the current issue.

Dataverse Plugin

Deposit data sets and/or other supplementary files to a Dataverse.
Journal Data Policies Boilerplate Templates

Including Guidelines for:
1) Authors (w/ data citation)
2) Reviewers

Data Policies
Configure data policies.

Data Availability Policy
General data availability policy for the journal. This will appear in About the Journal.

Super Plugin Testing Happy Hour requires, as a condition for publication, that data supporting the results in the paper should be archived in an appropriate public archive. Super Plugin Testing Happy Hour recommends the Harvard Dataverse, which is free and open to all researchers worldwide to share, cite, reuse and archive research data. Data are important products of the scientific enterprise, and they should be preserved and usable for decades in the future. Authors may elect to have the data publicly available at time of publication. Exceptions may be granted at the discretion of the editor, especially for sensitive information such as human subject data or the location of endangered species. Any exceptions should be documented in a statement in the public article. (Adapted from Joint Data Archiving Policy (JDAP)).

Option to: (A) deposit into Dataverse AND/OR; (B) if data is already in a repository can include the data citation (w/ persistent URL/identifier).
Peer Review: Article + Data Together
Data Published in Dataverse w/ OJS Plugin

In OJS:

1) Dataset Published (with DOI) at Article Approval.
2) Dataset Published when Journal Issue is Released.

In Dataverse:

Journal of Plugin Testing Dataverse

Testing for Force11 & RDA
DOI: 10.5072/FK2/ZN5ZT

Data Citation

Castro, Eleni; Garnett, Alex, "Testing for Force11 & RDA",
http://dx.doi.org/10.5072/FK2/ZN5ZT V1 [Version]

Citation Format

Publications

Alex uploads a file

Abstract

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Full Text:

Data citation

Garnett, Alex, 2014, "Replication data for: Alex uploads a file", http://dx.doi.org/10.5072/FK2/MYRX1, Harvard Dataverse [Repository], V1 [Version]
But this is just the beginning...

We need input from you!
This is a reference implementation that we hope others can help expand and improve upon.

-------------

References


Thank you!

Contact: ecastro@fas.harvard.edu
More information: http://projects.iq.harvard.edu/ojs-dvn
Twitter: @thedataorg

Special Thanks & Credit To: Jen Whitney (PKP/Carleton: developed >90% of plugin code), Alex Garnett (PKP/SFU), Phil Durbin (IQSS), Sloan and the rest of the project team (PKP/IQSS) for making this project and presentation possible!