# Open Journal Systems and Dataverse Collaboration 1 Year Later + Dataverse 4.0 Updates
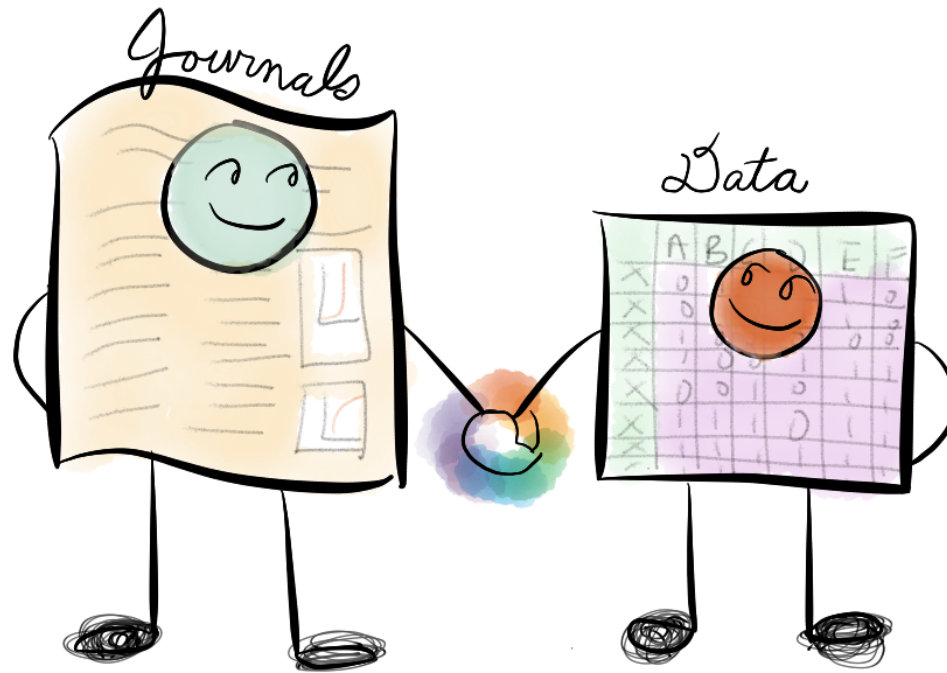
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# Motivation

# Overview

2 year Sloan Foundation grant (2012-2014):

**Public Knowledge Project (PKP)**
**Open Journal Systems (OJS)**
- Simon Fraser University
- Stanford University (John Willinsky)

**Dataverse Network Project**
- Harvard's Institute for Quantitative Social Science (IQSS) (Gary King & Merce Crosas)
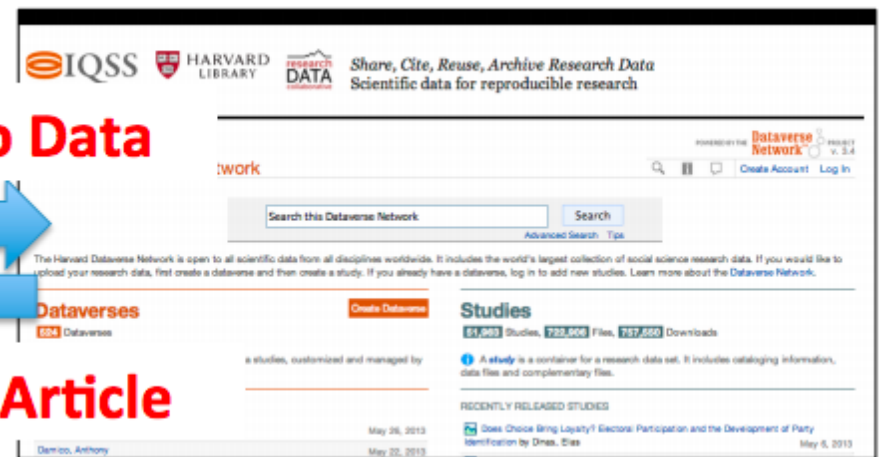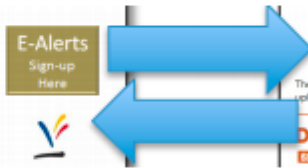- Micah Altman – Director of Research at MIT

# OK, so what is the integration going to do?

OJS Journal

Harvard Dataverse



OJS plugin for:
Data + supporting files + metadata
sent via API (SWORD-based)
to Dataverse

# Progress to-date

1. Compiled a list of interested journals (~100) that we can work with.
2. Publishers reviewed our [plugin workflow](#) and [mockups](#) pre-development **(Spring '13)**.
3. Completed v1 of plugin+API **(Fall '13)**.
4. Small sample of journals tested + provided feedback of integration via survey **(Winter '14)**.
5. Released v2 of plugin based on survey **(Spring '14)**.

# Survey Findings

➔ Overall **positive**: Most testers plan to implement plugin!

➔ OJS doesn't have the most eye-catching UI. Dataverse link & data citation must be more prominent.

➔ But users excited for an **OJS 3 + Dataverse 4 overhaul**!

➔ Default dcTerms metadata defined in the SWORD spec is too limited for all of our users; the ability to customize fields is important.

➔ Plugin should not treat all supplemental files as Dataverse-worthy (e.g., authors' notes).

Photo: Flickr Commons

# Next Steps

1. Publish best practices for data sharing policies.
2. Based on ongoing feedback: develop & release updated versions of plugin + API.
3. Continue to release all code and documentation on github :)
4. **Expand** on Collaboration.



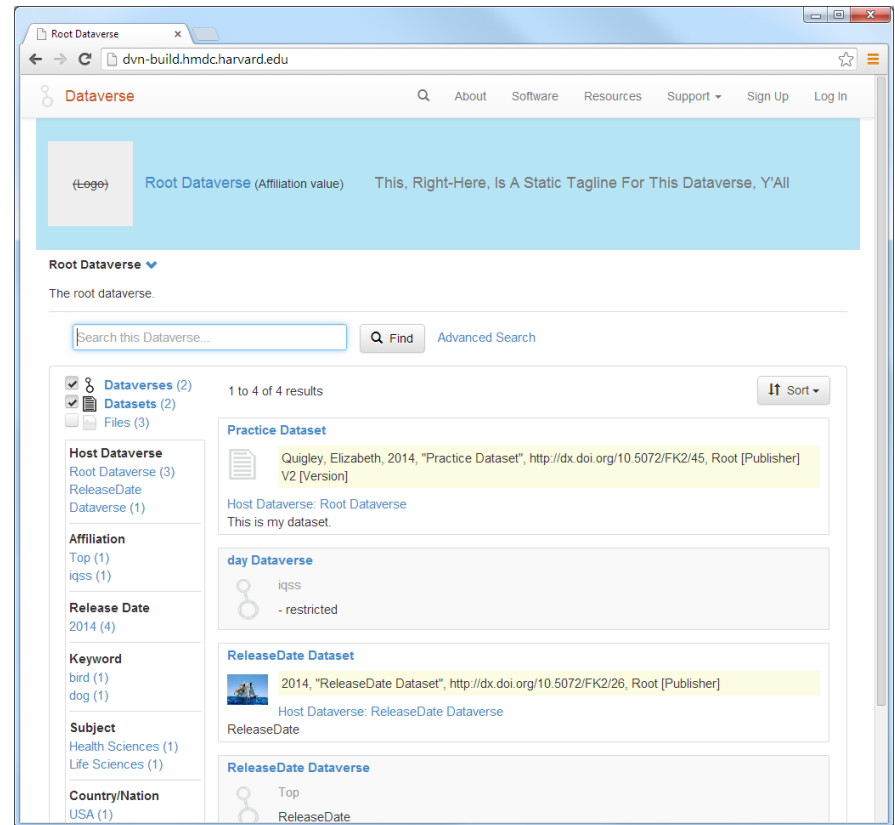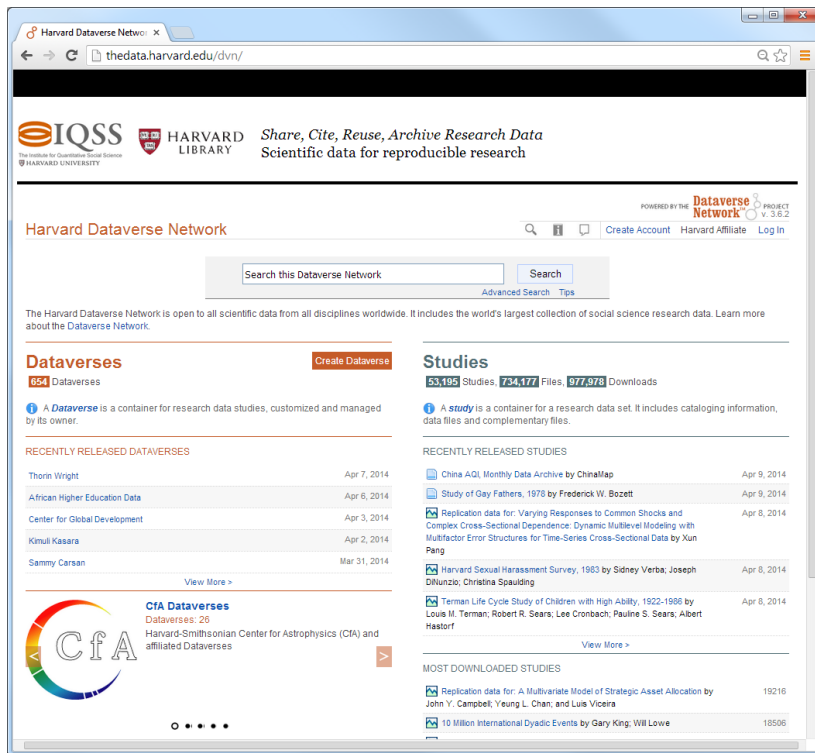Photo: Flickr Commons

# Major Dataverse Release Coming Soon
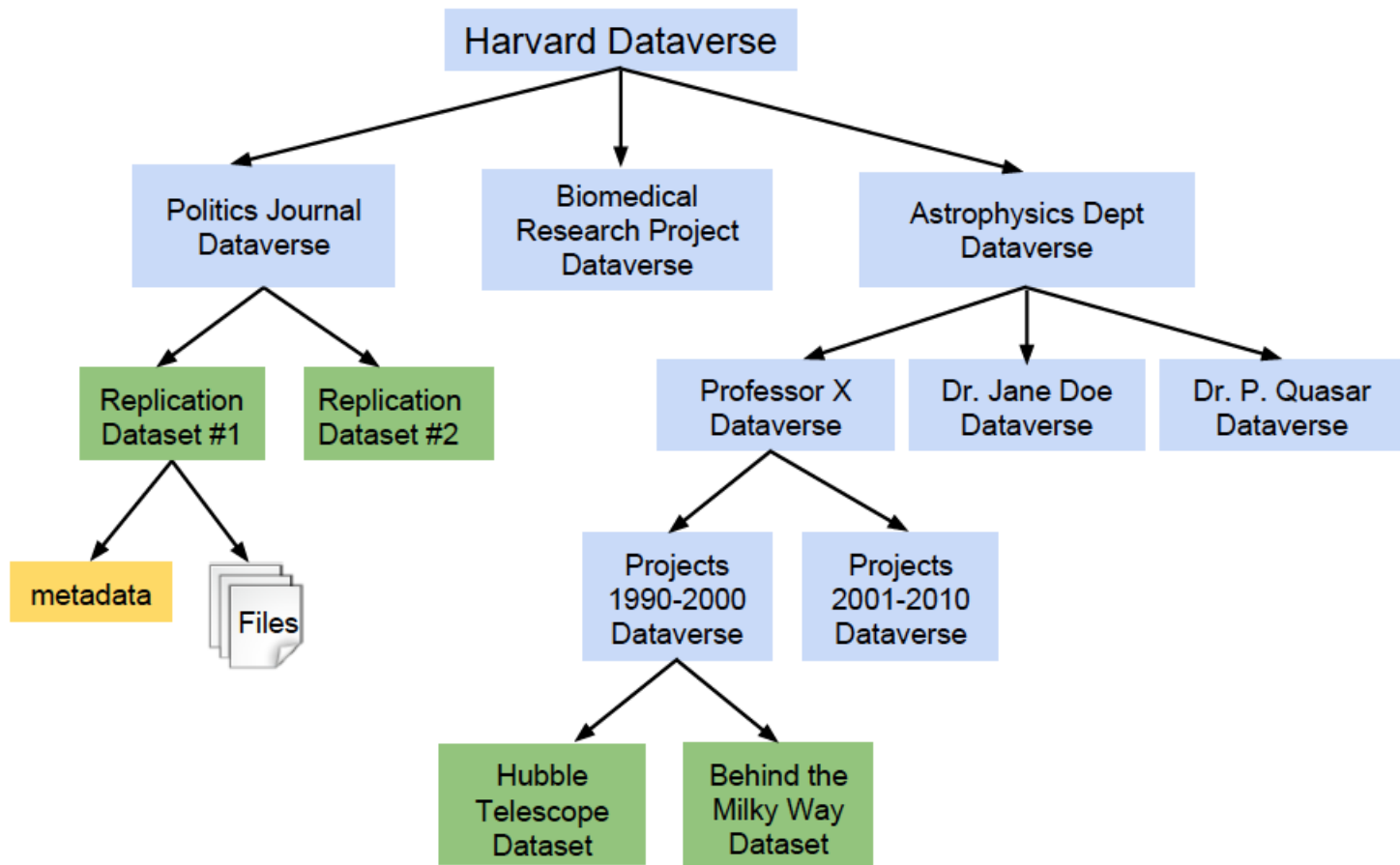
(Goodbye 3.6.x; Hello 4.0!)

# Version 4.0 Highlights

1. Major User Interface Redesign with Simpler Workflows

2. Dataverses All the Way Down (Object Model Re-Design)

3. New & Improved Browse/Search Features

4. New Metadata Support

5. New Interactive Data Exploration/Analysis Tool (d3.js)

6. Tabular Files Will Now Include Support and Processing of Excel and CSV Files

# Major User Interface Redesign with Simpler Workflows

# Dataverses All the Way Down (Object Model Re-Design)

# Browse/Search Features
# New & Improved

- -Ability to search through Dataverses, datasets, and files with the basic search bar

- -Browse Dataverses, datasets, and files through facets

- -Metadata fields found in results based of the search query will appear in the search results card to show the relevancy of the result

- -A user will be able to access all public data from the homepage (the search bar and content area of the homepage)

# New Metadata Support

- Consulting with specialists in other domains (starting with biomedical and astrophysics) to extend metadata support.

- Domain specific metadata will be mapped/exported to VO format (astrophysics), and ISA-Tab format (biomedical) with OBI and other ontologies.

- To encourage interoperability between different systems we are expanding our compliance and general support of metadata schemas, which will include mapping/exports to Dublin Core Terms, DataCite 3.0, and an upgrade to DDI-Codebook 2.5).

# New Interactive Data Exploration/Analysis Tool (d3.js)

- Our current data analysis tool will be replaced with a more interactive data exploration/analysis tool that will provide histograms, cross tabulations, enhanced descriptive statistics, and model selection.

# Additional Support and Processing of Excel and CSV Files

- Supporting additional processing of excel, and csv (without the need for a control card)

# Thank you!

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**Websites**

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

http://thedata.org

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**References**

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➔ 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.