“Forcing the flip?”
Making knowledge a public good

Keith Webster
Dean of University Libraries and Director of Emerging and Integrative Media Initiatives

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The success of e-journals has driven the researcher from the library
The ‘owned’ collection

The ‘facilitated’ collection

The ‘borrowed’ collection

The ‘demand-driven’ collection

The ‘licensed’ collection

The ‘shared print’ collection

A collections spectrum

- Purchased and physically stored

- Pointing people at Google Scholar
- Including freely available e-books in the catalog
- Creating resource guides for web resources
Open Science Taxonomy

Open Science

- Open Access
  - Open Access Definition
  - Open Access Initiatives
- Open Data
  - Open Data Definition
  - Open Data Journals
- Open Reproducible Research
  - Open Reproducibility Testing
- Open Science Evaluation
  - Open Metrics and Impact
- Open Science Definition
- Open Science Guidelines
  - Organisational mandates
- Open Science Projects
  - Open Access policies
- Open Science Policies
  - Open Data Policies
- Open Science Tools
  - Open Workflow Tools
- Open Access Use and Reuse
  - Open Data Use and Reuse
- Open Big Data
  - Open Data Standards
- Open Government Data
  - Open Source in Open Science
- Open Lab/Notebooks
  - Reproducibility Guidelines
- Open Science Workflows
  - Reproducibility Testing
- Open Peer Review
  - Altmetrics
  - Bibliometrics
  - Semantometrics
  - Webometrics
  - Funders policies
  - Governmental policies
  - Institutional policies
- Open Repositories
  - Subject policies
- Open Services
  - https://figshare.com/articles/Open_Science_Taxonomy/1508606
OPEN SCIENCE
More exposure for your work

Researchers in developing countries can see your work

Practitioners can apply your findings

Higher citation rates

Taxpayers get value for money

Compliant with grant rules

The public can access your findings

Your research can influence policy
101 Innovative tools and sites in 6 research workflow phases
(< 2000 - 2015)

http://figshare.com/articles/101_Innovations_in_Scholarly_Communication_the_Changing_Research_Workflow/1286826
<table>
<thead>
<tr>
<th>Service</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discover Your Research Topic</td>
<td>Discover and refine your research topic with resources that connect you with specialists and databases.</td>
</tr>
<tr>
<td>Find Funding &amp; Collaborators</td>
<td>Uncover potential collaborators and the funding to support your project.</td>
</tr>
<tr>
<td>Manage Information &amp; Data</td>
<td>Work with our specialists to evaluate, select, and navigate the tools to organize your data and keep your project on track.</td>
</tr>
<tr>
<td>Publish &amp; Share Your Research</td>
<td>Navigate the many options for publishing your research to optimize its accessibility and impact.</td>
</tr>
<tr>
<td>Measure Impact &amp; Manage Your Digital Identity</td>
<td>Identify when and where your research has been cited, as well as the scope of its reach.</td>
</tr>
<tr>
<td>Enhance Your Teaching</td>
<td>Advise your students about research methods and resources that enhance their learning inside and outside the classroom, unlocking your teaching potential.</td>
</tr>
</tbody>
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Open Science Framework: Start

A guide for how to use the open source project management platform, Open Science Framework

About Open Science Framework

OSF is a free, open source web application for project management from the non-profit, Center of Open Science. Researchers use OSF to collaborate, document, archive, share, and register research projects, materials, and data. This guide will teach you how to:

- create an account on OSF
- create a project in OSF and share with collaborators
- how to organize projects
- preregister a research project
- how to get a DOI

Getting Started with OSF

Create an OSF Account

Get started by creating a free account with your Andrew ID. Find helpful info on how OSF can be used here.
Open Science in Research
Open Data and Reproducibility
Open Tools and Platforms
Open Access
• Automation in data discovery
• Automation in data curation and generation
• Measuring and improving data quality
• Integrating datasets and enabling interoperability
• Biomedical data discovery and reuse
• The future of scientific data and how we work together

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