What We’ll Cover

- Data management policy
- Why data management?
- Landscape of tools
- Data services at OSU
We believe in the power of the Internet to foster innovation, research, and education. Requiring the published results of taxpayer-funded research to be posted on the Internet in human and machine readable form would provide access to patients and caregivers, students and their teachers, researchers, entrepreneurs, and other taxpayers who paid for the research. Expanding access would speed the research process and increase the return on our investment in scientific research.

The highly successful Public Access Policy of the National Institutes of Health proves that this can be done without disrupting the research process, and we urge President Obama to act now to implement open access policies for all federal agencies that fund scientific research.
“…directed Federal agencies with more than $100M in R&D expenditures to develop plans to make the published results of federally funded research freely available to the public within one year of publication and requiring researchers to better account for and manage the digital data resulting from federally funded scientific research.”

EXECUTIVE OFFICE OF THE PRESIDENT
OFFICE OF SCIENCE AND TECHNOLOGY POLICY
WASHINGTON, D.C. 20502

February 22, 2013

MEMORANDUM FOR THE HEADS OF EXECUTIVE DEPARTMENTS AND AGENCIES

FROM: John P. Holdren
Director

SUBJECT: Increasing Access to the Results of Federally Funded Scientific Research

1. Policy Principles

The Administration is committed to ensuring that, to the greatest extent and with the fewest constraints possible and consistent with law and the objectives set out below, the direct results of federally funded scientific research are made available to and useful for the public, industry, and the scientific community. Such results include peer-reviewed publications and digital data.

Scientific research supported by the Federal Government catalyzes innovative breakthroughs that drive our economy. The results of that research become the grist for new insights and are assets for progress in areas such as health, energy, the environment, agriculture, and national security.

Access to digital data sets resulting from federally funded research allows companies to focus...
~60% of OSU research is federally funded
Additionally...
Why Mandates?

- **Accelerate scientific breakthrough**, increase innovation, promote economic growth.
- Access to research funded by *taxpayer dollars*.
- **Balance** between the public benefit of **increasing public access** to results of federally-funded scientific research, and ensure that the contributions of the scientific **publishing industry** are not lost.
Data management also contributes to...

- Reproducibility
- Increased Research Efficiency
- Increased visibility and impact
- Preservation
Good data management practices

- Data Management Plan
- Document your data - metadata and readme.txt
- Organized data with clear filenames
- Tidy data
- Secure data
- Backup
- Publish your data at the end of the project
The Landscape of Data Management and Open Science Tools
Data management, open science, scholarly communication

The Research Data Management Lifecycle

http://rmit.libguides.com/researchdata

https://innoscholcomm.silk.co/
Workflows

Proprietary/
“Follow the crowd”

Open Science/
Open Access

https://innoscholcomm.silk.co/
Common Pain Points

- Group management of data
- Version control
- Where to share/publish
Finding Your Pain Points

- What is the worst step of your research workflow?
  - Planning
  - Collection
  - Description
  - Analysis
  - Retention
  - Promotion
  - Reuse

The Research Data Management Lifecycle

https://101innovations.wordpress.com/
https://www.dataone.org/software_tools_catalog
Data Services at OSU Libraries & Press
OSU Data Services

- One on one consultations about research data management.
  - Data Management Plans
  - Documentation and organization of data
  - Data curation for deposit in a repository.
  - Any aspect of the data life cycle.
- Deposit your data and publications to ScholarsArchive@OSU
- Workshops and class visits on data management
- Author’s Rights and Intellectual Property Issues
OSU Data Services

- Institutional Repository
- Meets general guidance/requirements for data repositories
- Indexed by major search engines (google, bing)
- Persistent URL and DOI
Unanimously approved by the OSU Faculty Senate, June 2013

The policy applies to scholarly articles

Deposit the author’s accepted manuscript (post-peer reviewed, pre-typeset) version of your article

Oregon State University
Open Access Policy

In recognition of Oregon State University’s land-grant mission, the Faculty is committed to disseminating its research and scholarship as widely as possible. In addition to the public benefit of such dissemination, this policy is intended to serve faculty interests by promoting greater reach and impact for articles. Based on these guiding principles, the Faculty adopts the following policy: Each Faculty member grants to Oregon State University permission to make available his or her scholarly articles and to reproduce

The policy applies to all scholarly articles authored or co-authored while the person is a member of the Oregon State University Faculty and completed after the adoption of this policy. At the request of a Faculty member via an online form, the OSU Faculty Senate Library Committee, as the Provost’s designate, will waive application of the license for a particular article, or delay access to a particular article for a specified period of time.

To assist the University in distributing the articles, each Faculty member will provide an electronic copy of the accepted (post-peer review, pre-typeset) manuscript of the article at no charge to the appropriate representative of the OSU Libraries in an appropriate format as may be specified by the OSU Libraries (such as PDF). The OSU
Other Data Services at OSU

- Center for Genome Research and Biocomputing
- Spatial Data Management Group
- Statistical Consulting Laboratory
- Survey Research Center
- Software and Data Carpentry
- Steve Wolbers!
- Emerging Opportunities...
THANKS!

Any questions?
You can find us at:

- bit.ly/OSUData
- clara.llebot@oregonstate.edu
- steve.vantuyl@oregonstate.edu
SlidesCarnival icons are editable shapes.

This means that you can:
- Resize them without losing quality.
- Change line color, width and style.

Isn’t that nice? :) 

Examples: