Data Curation The Current Landscape

Carly Strasser, PhD

California Digital Library

@carlystrasser





Digital data





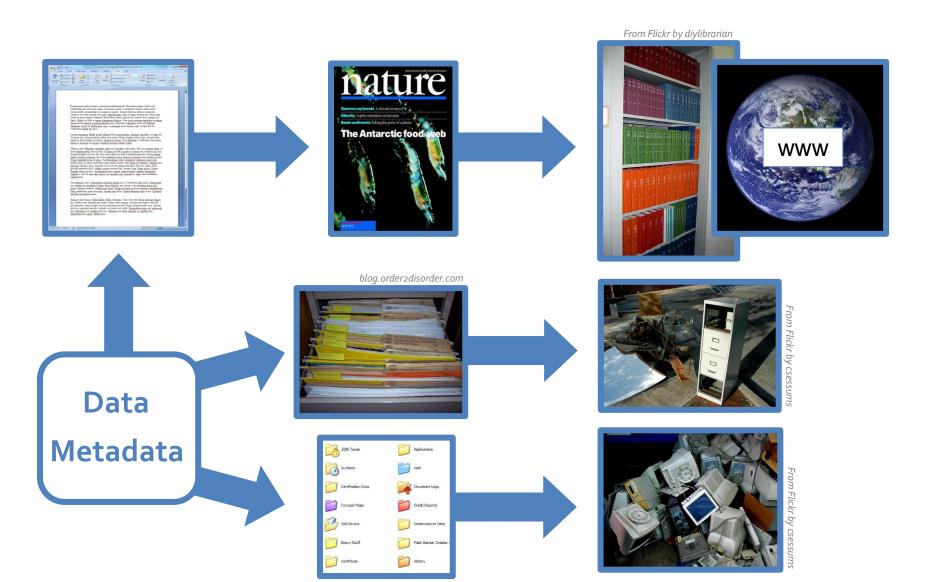


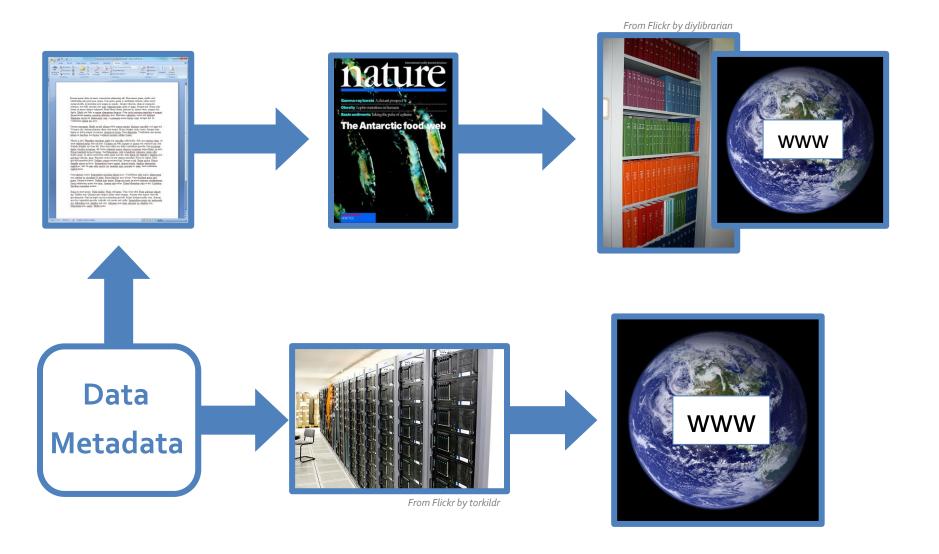


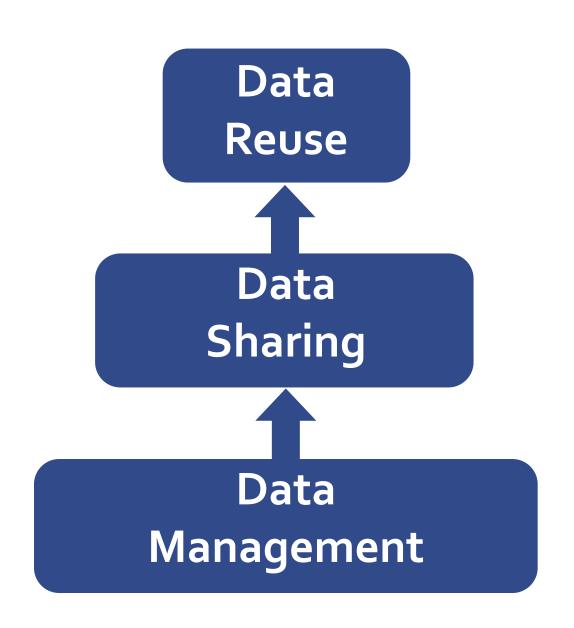


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UGLY TRUTH

Many (most?) researchers...

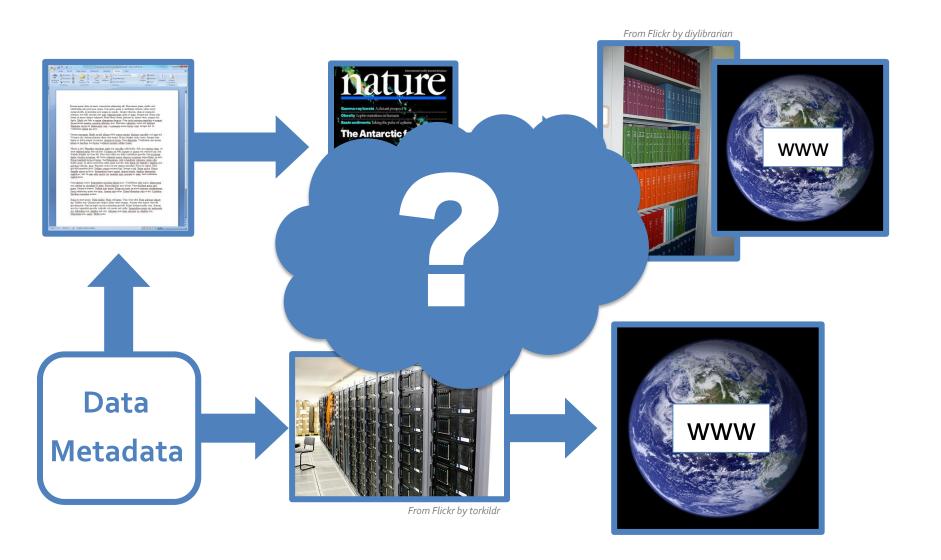
are not taught convinced they are data

don't know about tools that can help them

Hurdles to Data Stewardship



- Cost
- Confusion about standards
- Disparate datasets
- Lack of training
- Fear of lost rights or benefits
- No incentives



Who cares?









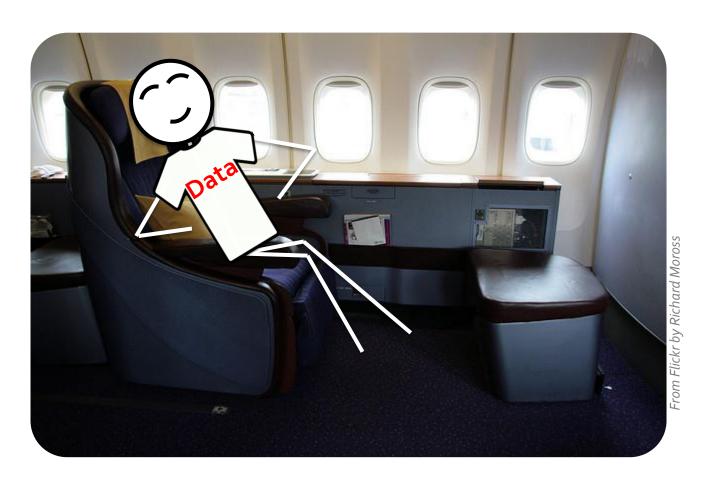




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Supporti

The American phylogenetic to data set, included TreeBASE, are provide a link. impediments to worked out. For

When you use your article as

CURRENT ISS Availability of data and materials

The policy outlined on this page applies to *Nature* journals (those with the word "*Nature*" in their title). NPG publishes many other journals, each of which has separate publication policies described on its website. A current list of these journals, with links to each journal's homepage <u>is available</u>.

Availability of data and materials

An inherent principle of publication is that others should be able to replicate and build upon the authors' published claims. Therefore, a condition of publication in a Nature journal is that authors are required to make materials, data and associated protocols promptly available to readers without undue qualifications. Any restrictions on the availability of materials or information must be disclosed to the editors at the time of submission. Any restrictions must also be disclosed in the submitted manuscript, including details of how readers can obtain materials and information. If materials are to be distributed by a for-profit company, this must be stated in the paper.

Supporting data must be made available to editors and peer-reviewers at the time of submission for the purposes of evaluating the manuscript. **Peer-reviewers** may be asked to

will serve as a mechanism for "data discovery," leading to communication (and possibly collaboration) between researchers and to meta-analyses.

- Integrative and Comparative Biology (Society for Integrative and Comparative Biology)
- Journal of Fish and Wildlife Management
- Journal of Paleontology (The Paleontological Society)
- Oxford University Press

Volume 490 Numbe

nature

THE GREEN

repository. See Data roney.

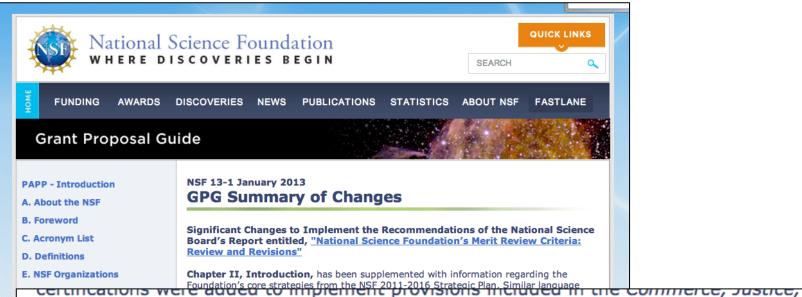
Authors are strongly encourage official Data Registry at data.es

ESA submission site itself will f

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About the cover

Pensoft Publishers



and Related Agencies Appropriations Act of 2012.

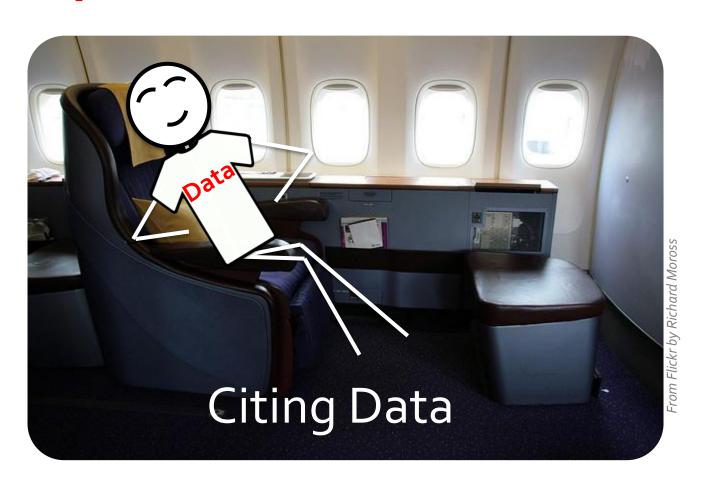
Chapter II.C.2.f(i)(c), Biographical Sketch(es), has been revised to rename the "Publications" section to "Products" and amend terminology and instructions accordingly. This change makes clear that products may include, but are not limited to, publications, data sets, software, patents, and copyrights.

Chapter II.C.2.g(viii), Indirect Costs, has been modified to clarify that, except as noted in GPG II.C.2.g(v) and II.D.9 or in an NSF program solicitation, the applicable

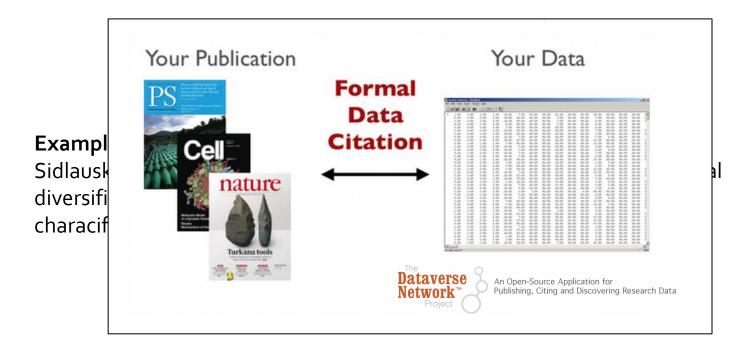


Data Publication





Data Citation



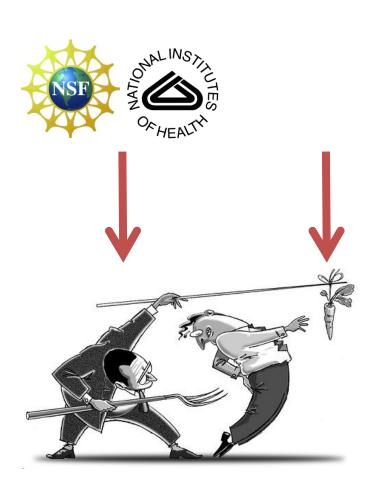




Helping you to find, access, and reuse data



Incentivizing





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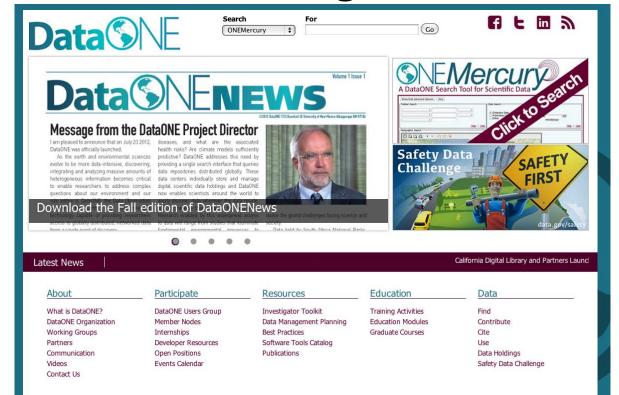


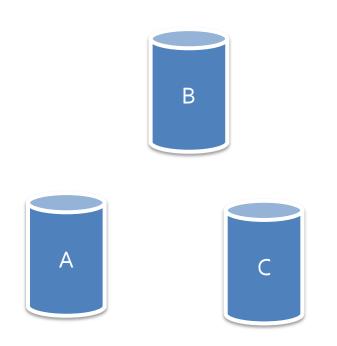


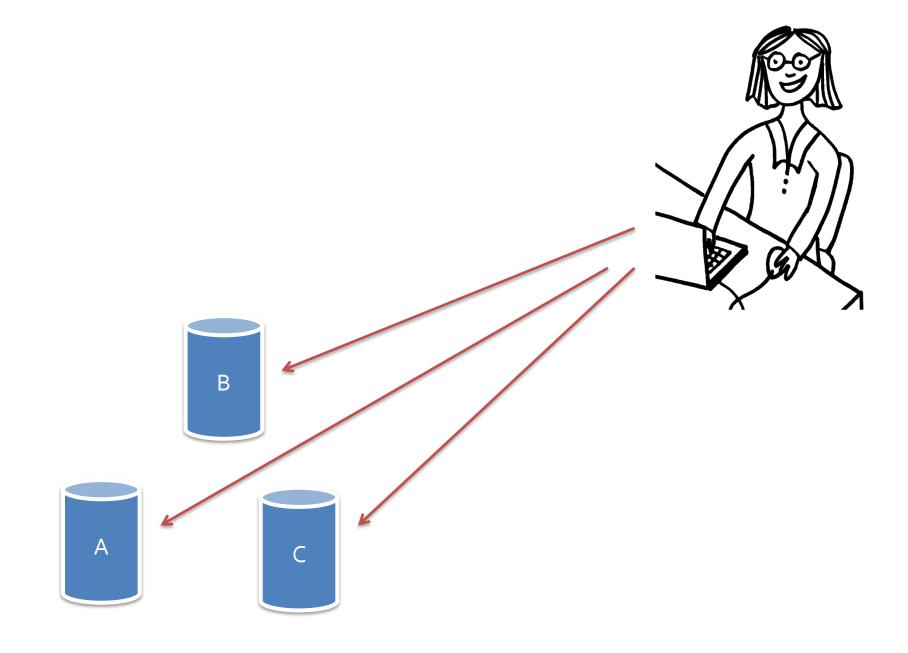


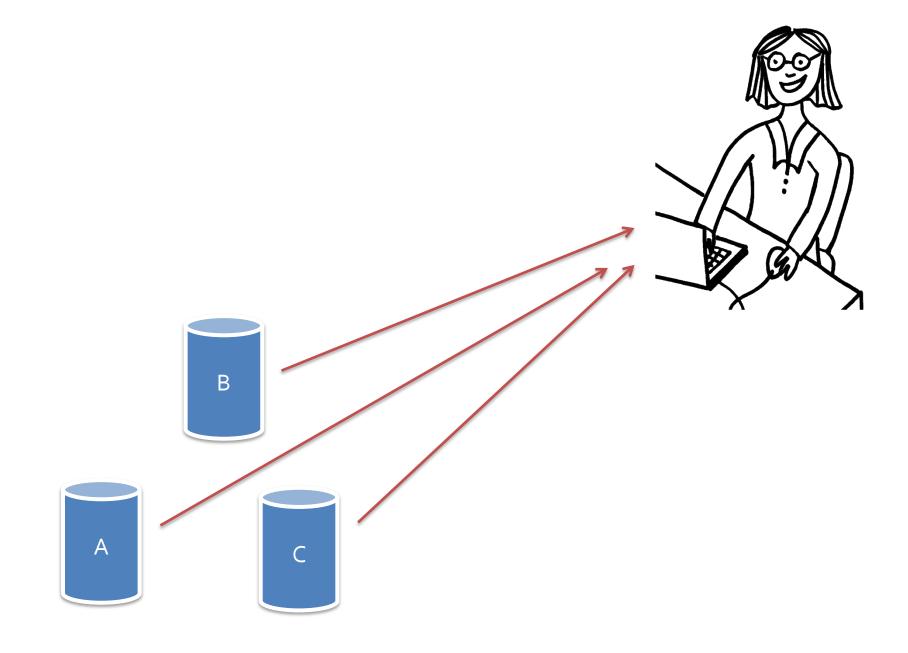
NSF funded DataNet Project Office of Cyberinfrastructure

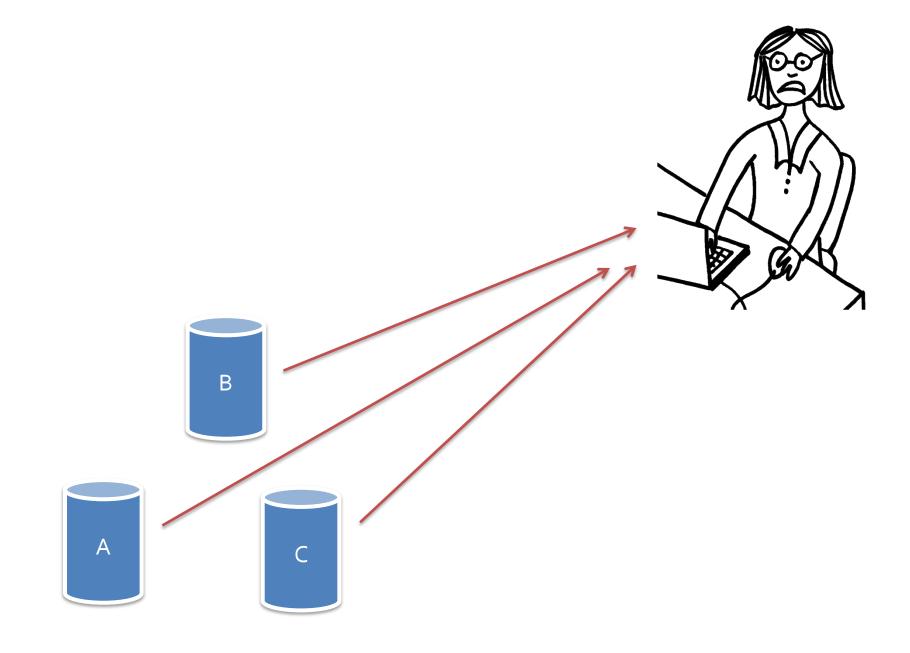
www.dataone.org



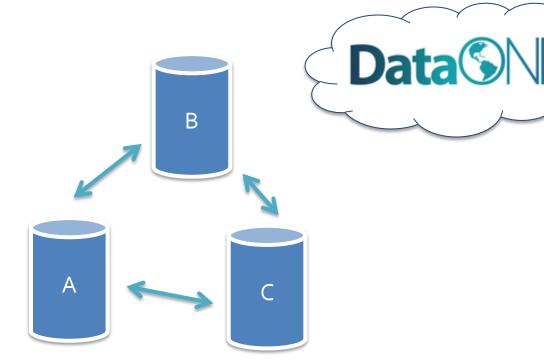


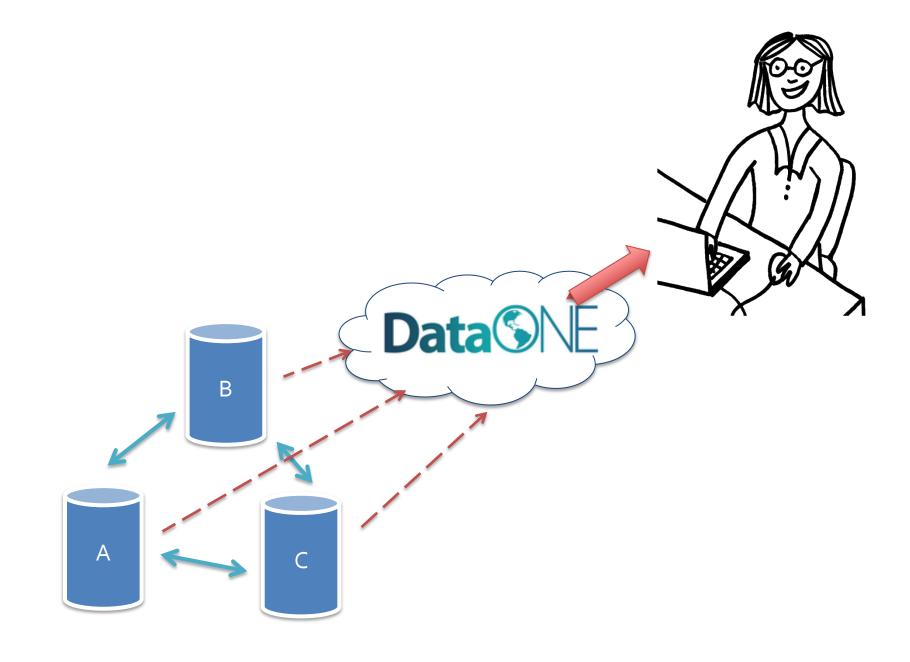














Intercept researchers where they already work













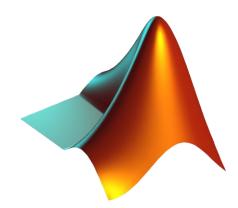
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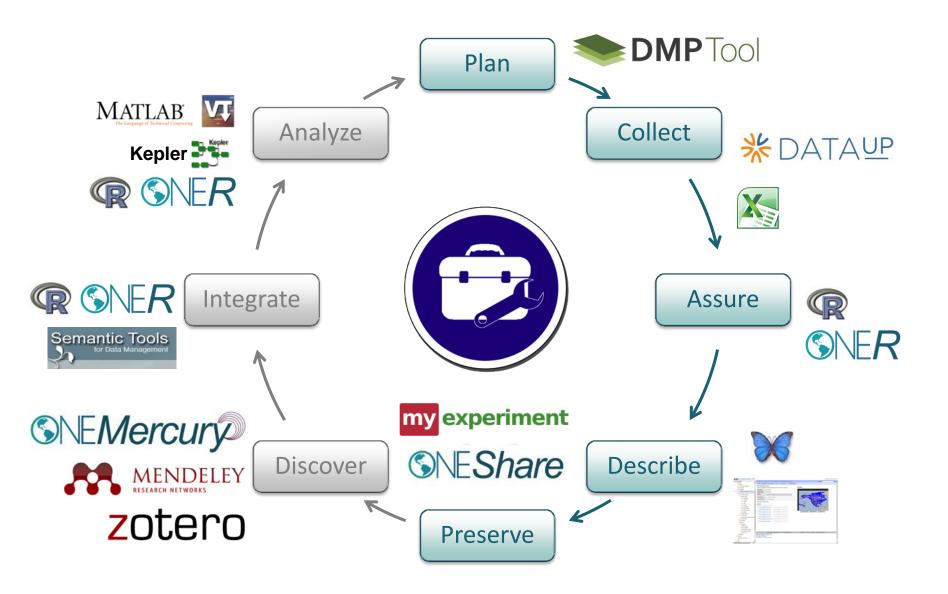








Investigator Toolkit Support





Data management & organization

Facilitate

Archiving

Sharing

Publishing

Data Reuse & Reproducibility









Open Source Tool

Add-in & Web Application

Earth, environmental, ecological researchers

Requirements

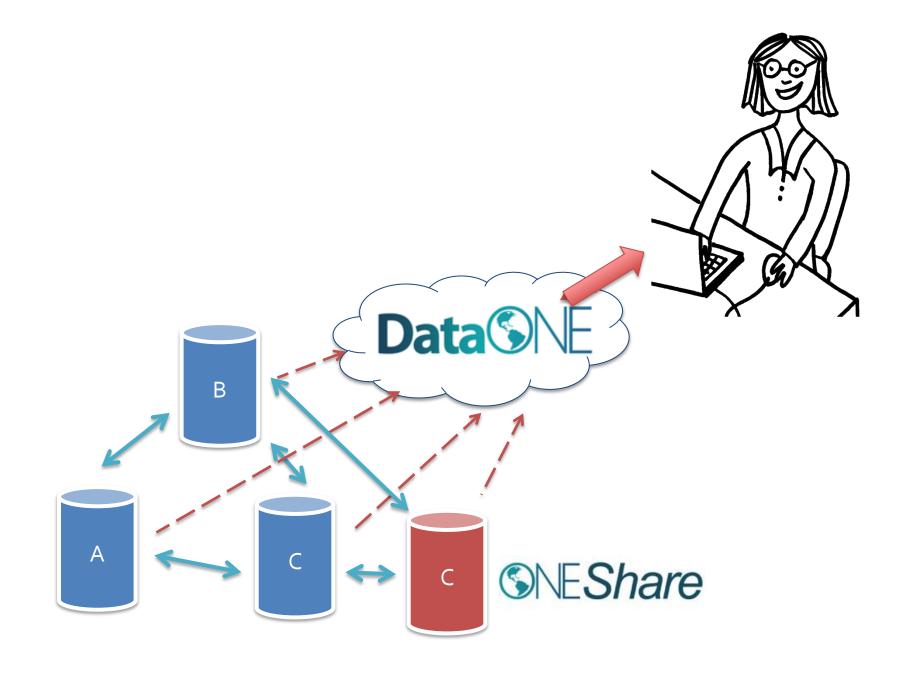
Features

Best practices check
Generate metadata
Generate citation
Post data to repository





Data Repository for **Anyone | Anywhere**



dataup.cdlib.org



An open source tool helping researchers document, manage, and archive their tabular data, DataUp operates within the scientist's workflow and integrates with Microsoft® Excel.

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history and evolution of DataUp

management help Presentations about DataUp

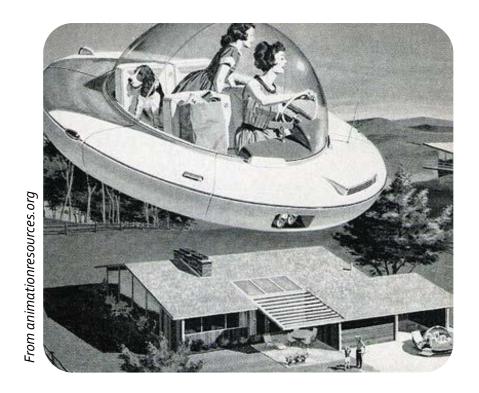
DataUp, including upcoming presentations and demos

Curation Center's services for data

Email Address







Build community

Add repositories

Add metadata schema

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Data Management Plans: dmp.cdlib.org





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Librarian







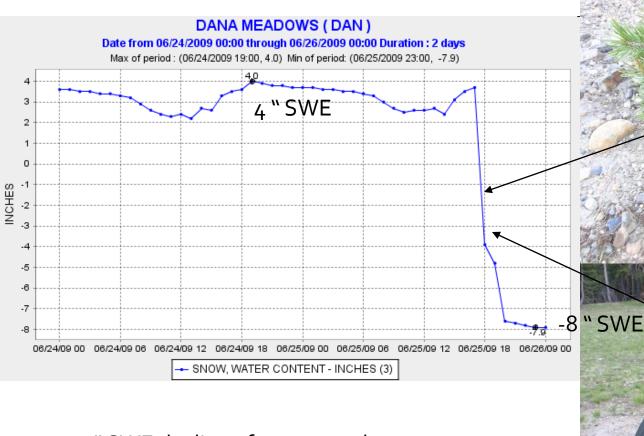




Data quality problem:

How to identify questionable measurements

Dana Meadows snow pillow, evening of June 25 2009



12" SWE decline after removal

(J. Lundquist)

