

# DataONE: From DataNet Project to Engaged Global Community in the Contemporary Data Landscape

Project Briefing  
CNI Fall Membership Meeting  
December 11, 2018



# Panelists

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Robert J. Sandusky, University of Illinois at Chicago, co-chair DataONE Users Group

# Briefing Goal

Engage Key Stakeholders in the New Landscape



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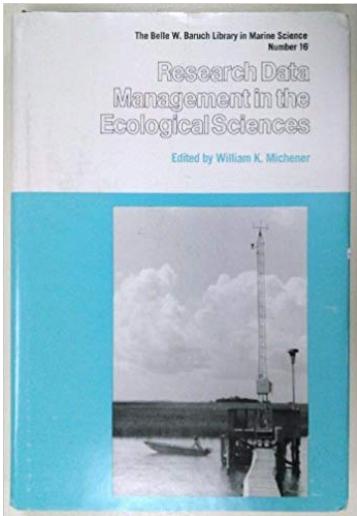
Funders

# Overview

- DataONE as Project
- DataONE Components & Impacts
- DataONE as Community
- Conversation – What do you need in the contemporary landscape?

# DataONE as Project

2007 – NSF DataNet Solicitation



# DataONE as Project

2009 – DataONE / NSF Cooperative Agreement

- Metadata search catalog
- Citation and usage
- Reproducibility and provenance
- Preservation
- Metadata quality services
- Culture of data sharing
- Sociotechnical orientation

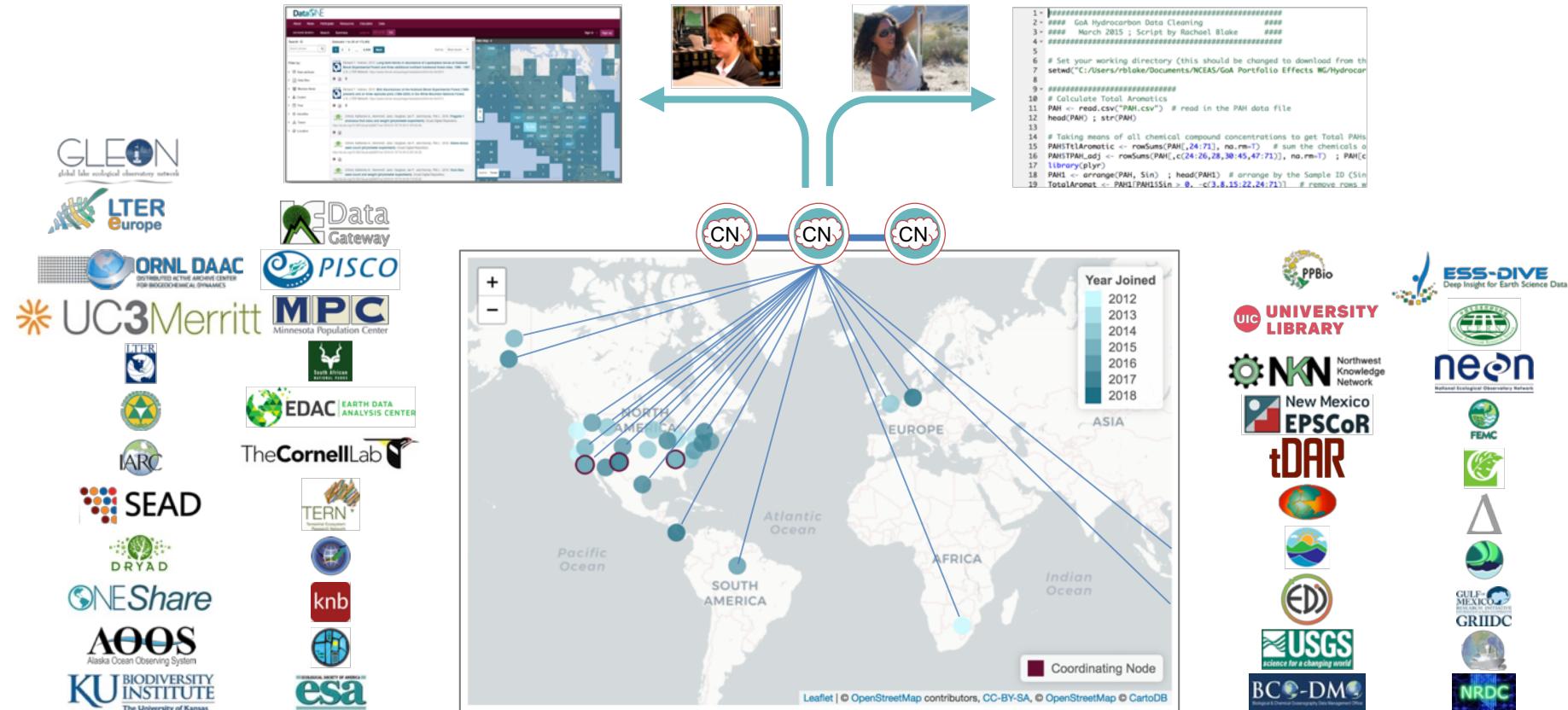
## Coordinating Nodes



[www.dataone.org/coordinating-nodes](http://www.dataone.org/coordinating-nodes)

# Federated Earth Science Repositories

## Core Cyberinfrastructure



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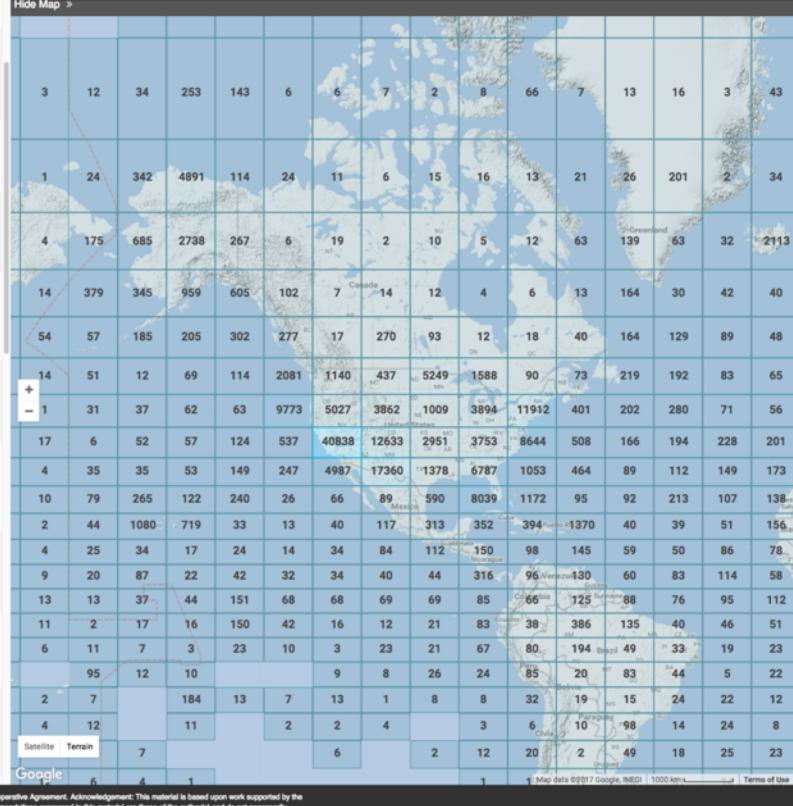
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Márcia Cristina Mendes Marques, Anamaria Ceuquinel, B. naturaldo estrato arbóreo em um gradiente edáfico-Biodiversidade (PPBio). PPBioMA.313.

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**Member Node**

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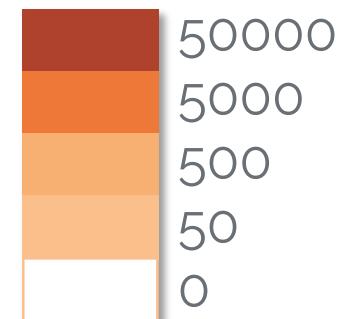
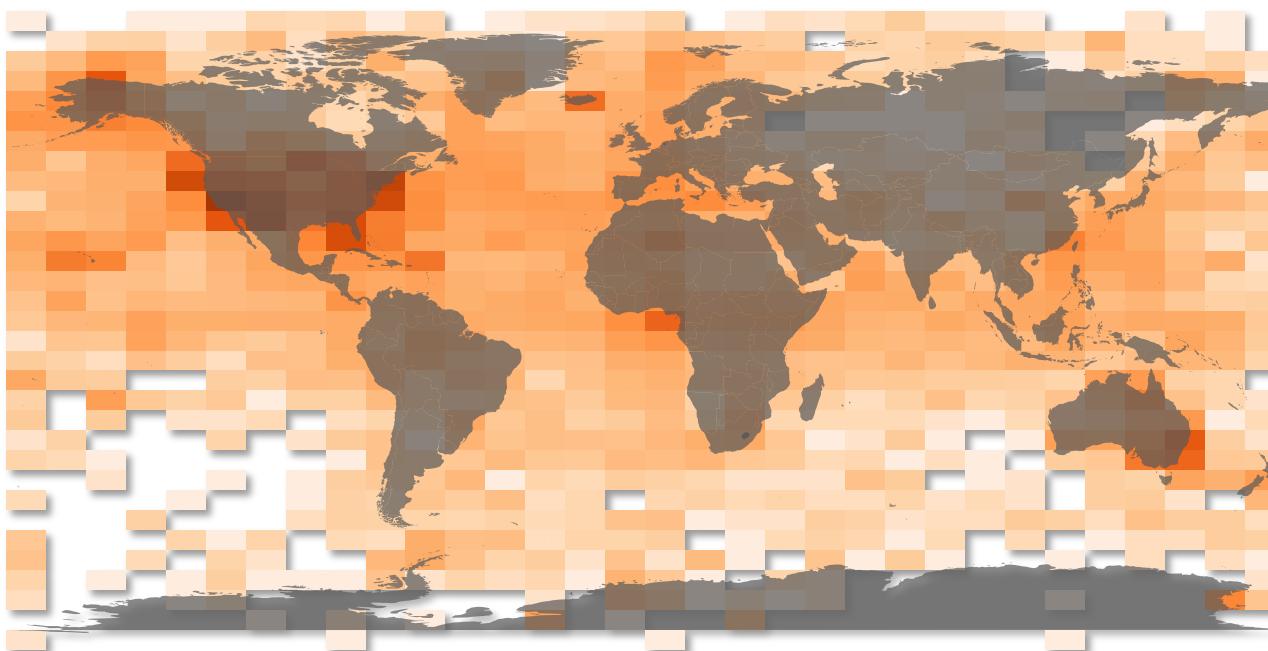
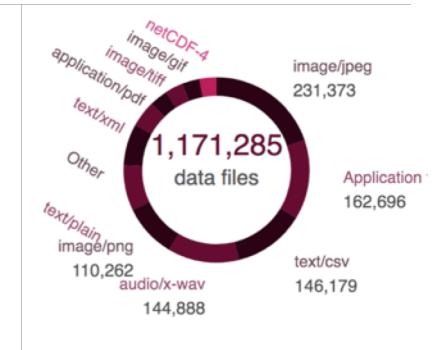
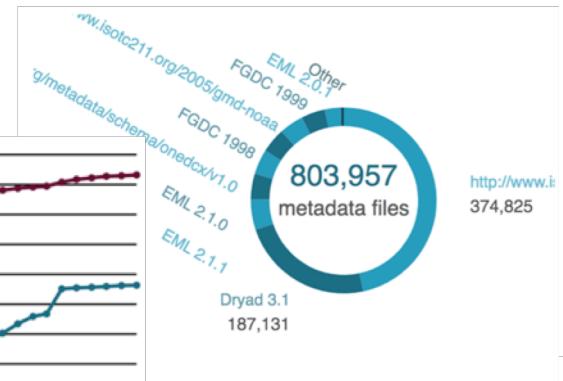
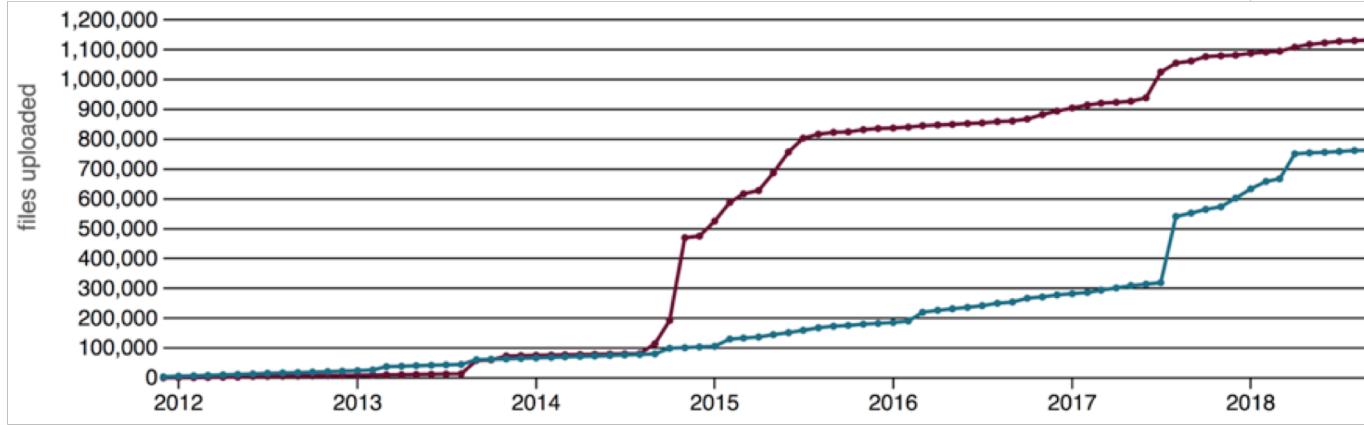
**Taxon**

**Location**

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Map showing data distribution across the globe. The map includes a grid overlay with numerical values representing data density or count. A legend at the bottom indicates the scale: 0, 1, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100, 102, 104, 106, 108, 110, 112, 114, 116, 118, 120, 122, 124, 126, 128, 130, 132, 134, 136, 138, 140, 142, 144, 146, 148, 150, 152, 154, 156, 158, 160, 162, 164, 166, 168, 170, 172, 174, 176, 178, 180, 182, 184, 186, 188, 190, 192, 194, 196, 198, 200, 202, 204, 206, 208, 210, 212, 214, 216, 218, 220, 222, 224, 226, 228, 230, 232, 234, 236, 238, 240, 242, 244, 246, 248, 250, 252, 254, 256, 258, 260, 262, 264, 266, 268, 270, 272, 274, 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 296, 298, 300, 302, 304, 306, 308, 310, 312, 314, 316, 318, 320, 322, 324, 326, 328, 330, 332, 334, 336, 338, 340, 342, 344, 346, 348, 350, 352, 354, 356, 358, 360, 362, 364, 366, 368, 370, 372, 374, 376, 378, 380, 382, 384, 386, 388, 390, 392, 394, 396, 398, 400, 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# Current State of DataONE



# Data Usage and Citation

Hajo Eicken, Rolf Gradinger, Thomas Heinrichs, Mark Johnson, Amy Lovecraft, et al. 2011.  
Mooring Temperature/Conductivity & Temperature/Pressure data. Arctic Data Center.  
[doi:10.18739/A2CZ3244X](https://doi.org/10.18739/A2CZ3244X).



Citations

0

Downloads

1.6K

Views

42

Copy Citation

41 Citations

- Beyene Belay, Elisabeth Pötzelsberger, Kibruyesfa Sisay, Dessie Assefa, and Hubert Hasenauer. 2018. [The Carbon Dynamics of Dry Tropical Afromontane Forest Ecosystems in the Amhara Region of Ethiopia](#). MDPI AG. <https://doi.org/10.3390/f9010018>.
- Julia Chapman and Ryan McEwan. 2018. [The Role of Environmental Filtering in Structuring Appalachian Tree Communities: Topographic Influences on Functional Diversity Are Mediated through Soil Characteristics](#). MDPI AG. <https://doi.org/10.3390/f9010019>.
- Mengsteab Hailu Ubay, Tron Eid, and Ole Martin Bollandsås. 2018. [Variation in wood basic density within and between tree species and site conditions of exclosures in Tigray, northern Ethiopia](#). Springer Nature. <https://doi.org/10.1007/s00468-018-1689-9>.
- Sylvanus Mensah, Ben du Toit, and Thomas Seifert. 2018. [Diversity–biomass relationship across forest layers: implications for niche complementarity and selection effects](#). Springer Nature. <https://doi.org/10.1007/s00442-018-4144-0>.
- Aida Cuni-Sánchez, Marion Pfeifer, Rob Marchant, Patrícia V. Pompeu, and Neil D. Burgess. 2018. [Harvesting fodder trees in montane forests in Kenya: species, techniques used and impacts](#). Springer Nature. <https://doi.org/10.1007/s11056-018-9632-x>.
- Onja H. Razafindratisima, Anecia Gentles, Andrea P. Drager, Jean-Claude A. Razafimahaimodison, Claude J. Ralazampirenenia, et al. 2018. [Consequences of Lemur Loss for Above-Ground Carbon Stocks in a Malagasy Rainforest](#). Springer Nature America, Inc. <https://doi.org/10.1007/s10764-018-0042-x>.
- Phil Wilkes, Mathias Disney, Matheus Boni Vicari, Kim Calders, and Andrew Burt. 2018. [Estimating urban above ground biomass with multi-scale LiDAR](#). Springer Nature. <https://doi.org/10.1186/s13021-018-0098-0>.

< Views

Downloads >

1606 Downloads  
from Dec 2012 to Nov 2018

Zoom to year month all

600

400

200

0



Monthly Downloads

2013 2014 2015 2016 2017 2018

# Metadata Quality Improvement

## Metadata Quality Report

After running your metadata against our standard set of metadata, data, and congruency checks, we have found the following potential issues. Please assist us in improving the discoverability and reusability of your research data by addressing the issues below.



Quality suite: DataONE Metadata Completeness Suite v1.0 ▾

Identification: 88% complete

Discovery: 100% complete

Interpretation: 100% complete

▶ Passed 14 checks out of 20 (informational checks not included).

▶ Warning for 5 checks. Please review these warnings.

▼ Failed 1 check. Please correct these issues.

☒ More than one license was found which was an unexpected state.



identification

REQUIRED

FAILURE



# Reproducibility and Provenance

**Data Table, Image, and Other Data Details**

4 sources

- Alkane.csv
- Citation
- This data was generated by </> [DataDownload.R](#).
- This data prov\_hasDerivations the data you are currently viewing, Alkane.csv and the data you are currently viewing, Total\_Aromatic\_Alkanes\_PWS.csv.
- This data was used by </> [Total\\_PAH\\_and\\_Alkanes\\_GoA\\_Hydrocarbons\\_Clean.R](#).
- This data was used as an input to create the data you are currently viewing, Total\_Aromatic\_Alkanes\_PWS.csv and the data you are currently viewing, Total\_Aromatic\_Alkanes\_PWS.csv.

Source Data

Alkane.csv

Citation

[View »](#)

This data was generated by </> [DataDownload.R](#).

This data prov\_hasDerivations the data you are currently viewing, Alkane.csv and the data you are currently viewing, Total\_Aromatic\_Alkanes\_PWS.csv.

This data was used by </> [Total\\_PAH\\_and\\_Alkanes\\_GoA\\_Hydrocarbons\\_Clean.R](#).

This data was used as an input to create the data you are currently viewing, Total\_Aromatic\_Alkanes\_PWS.csv and the data you are currently viewing, Total\_Aromatic\_Alkanes\_PWS.csv.

Aromatic\_Alkanes\_PWS.csv

Upload

defined dataset from PAH, Alkane and Sample tables documenting samples collected after the Valdez oil spill in Prince William Sound, AK

Aromatic\_Alkanes\_PWS.csv

<http://cn.dataone.org/cn/v2/resolve/urn:uuid:44108e76-405d-4d58-b1b3-fb4b55e3fff9>

133 byte

Number of Header Lines 1

Record Delimiter #xA

Attribute Orientation column

Table Text

Field Delimiter ,

2 derivations

```
graph LR; S1[Source 1] --> SD[Source Data]; S2[Source 2] --> SD; S3[Source 3] --> SD; S4[Source 4] --> SD; SD --> DA[Aromatic_Alkanes_PWS.csv]; DA --> D1[Derived Data 1]; DA --> D2[Derived Data 2]
```

# Education

**Data Management Skillbuilding Hub**

The Data Management Skillbuilding Hub contains resources for better data management and is open to community input and update. These resources are adaptable across a range of contexts and intended for use by researchers, teachers, librarians, or anyone who wants to learn better data management practices. Each tile below links to a resource page where users can learn more about the topic and contribute their own ideas.

The resources presented in the Data Management Skillbuilding Hub can be updated by users to promote a current, well-maintained, and sustainable educational tool. Learn more about how you can contribute.

**Using This Resource**

Click individual tiles to learn more and use each resource. You can limit resources by content type and Data Life Cycle stage. Comprehensive information is available in the right sidebar.

Filter by content type: All, TEACHING MODULES, BEST PRACTICE, VIDEO  
Filter by stage of the Data Life Cycle: All

01. Why Data Management  
02. Data Sharing  
03. Data Management Planning  
04. Data Entry and Manipulation  
05. Data Quality Control and Assurance  
06. Protecting Your Data  
07. Metadata  
08. Data Citation  
09. Analysis and Workflows  
10. Legal and Policy Issues  
Best Practices Analysis  
Best Practices Assure  
Best Practices Discover  
Best Practices Describe  
Best Practices Integrate  
Best Practices Preserve  
Best Practices Plan

**DataONE**

**Lesson 10: Analysis and Workflows**

View all Education Modules at <https://www.datatone.org/education-module>

**Typical data analyses**

**Data processing:** may include selecting a subset of data, transforming data, creating new data sets, manipulating data for usability, or data transformation

**Scientific analysis:** makes it easier to find patterns and trends in data, and can aid in the identification of outliers.

**Statistical analysis:** conventional statistical methods used to analyze experimental data; descriptive statistics are used to describe observed data.

**Science cycle:** the process that results in a scientific product can be complex.

**Reproducibility:** ...is at the core of the scientific process. If a procedure is not reproducible, they lose credibility.

**Good documentation of the data and analysis is critical.**

**Workflow:**

**Definition:** Precise description of the steps used in a project. Can be formal or informal.

**Formal Workflow:**

No special software is needed to create diagrams. Workflow diagrams include:

- Inputs and outputs
- Transformations or analytical processes
- Decision points
- Arrows indicating direction of flow

**Informal Workflow Example:**

**DataONE Education Module 05: Data Quality, Control and Assurance** 624 views

**Tutorials on Data Management**

**Lesson 5: Data Quality Control and Assurance**

**Data Quality Control and Assurance**

**DMT Clearinghouse**

Welcome to the DMT Clearinghouse

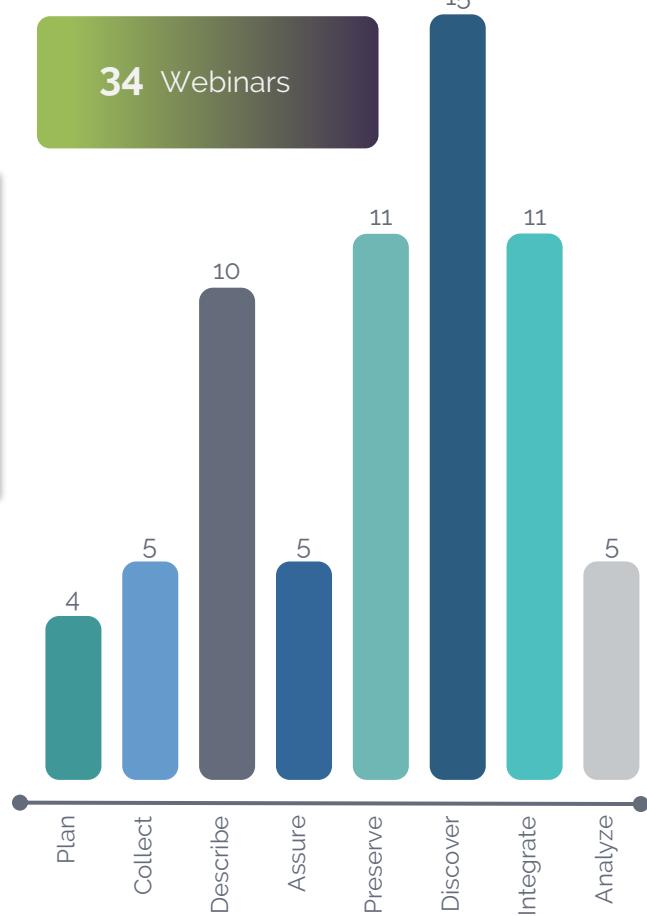
The Data Management Training (DMT) Clearinghouse is a registry for online learning resources focusing on research data management.

It was created in a collaboration between the U.S. Geological Survey's Community for Data Integration, the Earth Sciences Information Partnership (ESIP), and DataONE.

For questions or feedback, please contact [esipinfo@usgs.gov](mailto:esipinfo@usgs.gov).

**ESIP Data Management Training**

**USGS** science for a changing world

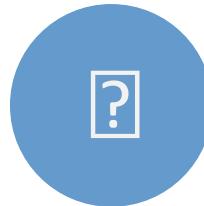


# Sustainability Wedges

A Strategic Path to Sustainability



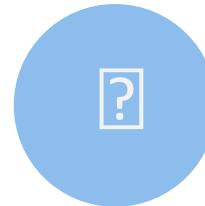
Services



Grants



Sponsors



Partners

# Repository Portal Services

## Repositories, Institutions, Labs, Researchers

The screenshot shows the knb repository portal interface for the SASAP (State of Alaska's Salmon and People) project. At the top, there's a navigation bar with links for ABOUT, DATA, SHARE, TOOLS, and a search bar labeled 'Jump to: DOI or ID'. Below the header, the project title 'SASAP State of Alaska's Salmon and People' is displayed. A brief description follows: 'The State of Alaska's Salmon and People (SASAP) project is a collaboration of researchers, cultural leaders, and others working to bring together integrated, accurate, and up-to-date information that will help to support better salmon decision-making.' The main content area includes a 'Project Home' section with tabs for Metrics, People, and Visualizations. A search bar allows filtering by Geography, Species, Pan Productivity, Habitat, Management, Human Dimensions, Data attribute, Data files, Creator, Year, Taxon, and Location. Below this is a 'DATASETS 1 TO 10 OF 15' section listing various datasets from sources like the Alaska Department of Fish and Game, Richard Brenner, and Jessica Couture. Each dataset entry includes a thumbnail, title, author, year, and a detailed description. A map of Alaska and the North Pacific Ocean is shown, with numbered regions (1-5) overlaid. The bottom of the page features a 'Problem Statement' section and a footer with copyright information.

## Target Community:

Researchers

Funders

Repositories

Libraries

## Benefits and Features:

### Repository portal

Branded logo and repository description

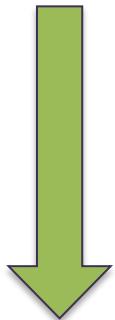
Aggregated citation and usage

Aggregated quality reports

Customized search filters

### Hosted repository service

# Repository Preservation Services



Target Community:

Researchers

Funders

Repositories

Libraries

Benefits and Features:

DOI minting service

Data replication to DataONE

Replication auditing service



# Data Science Training



Target Community:

Researchers

Funders

Repositories

Libraries

Benefits and Features:

Train the trainers

Train researchers

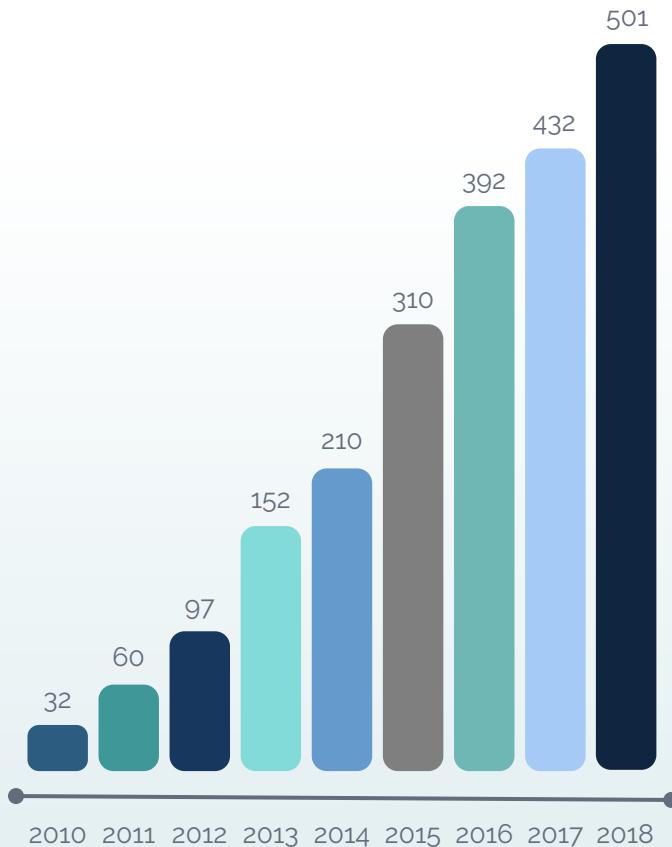
Open science

Data management

Reproducible workflows

# Community

---



Karl Benedict

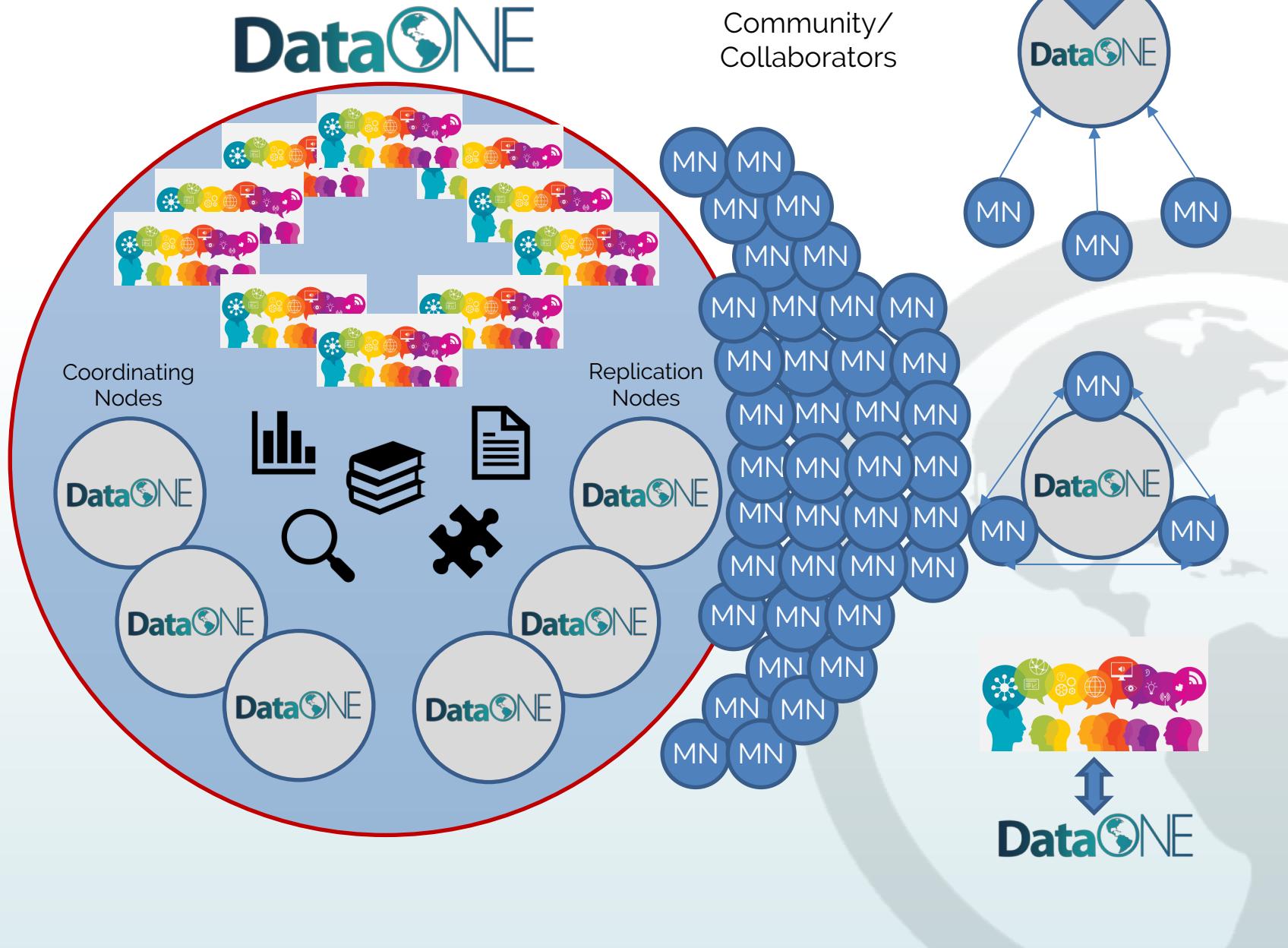


Robert Sandusky

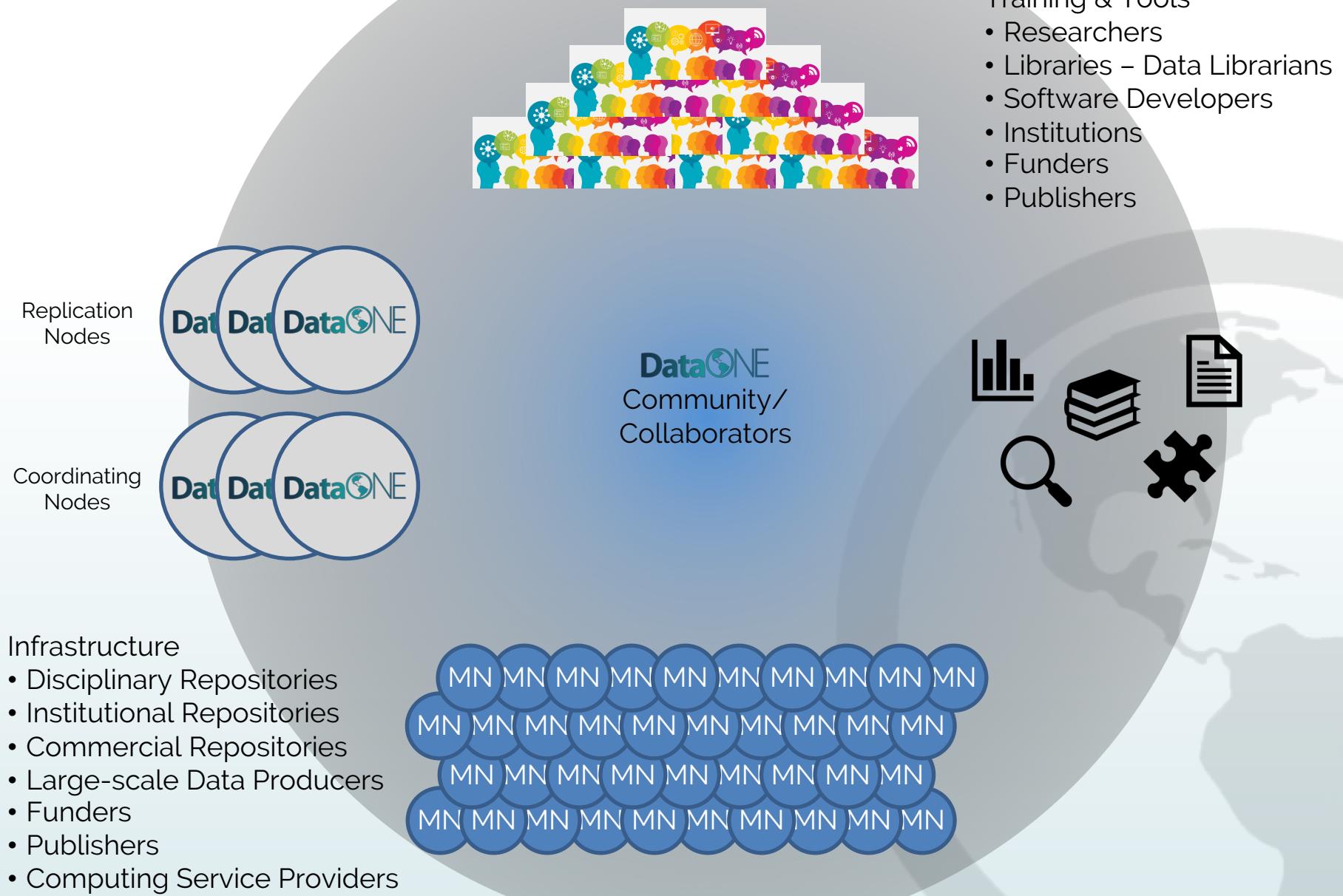
Informing the development, prioritization and direction of DataONE

Bringing together community to address challenges and explore shared solutions

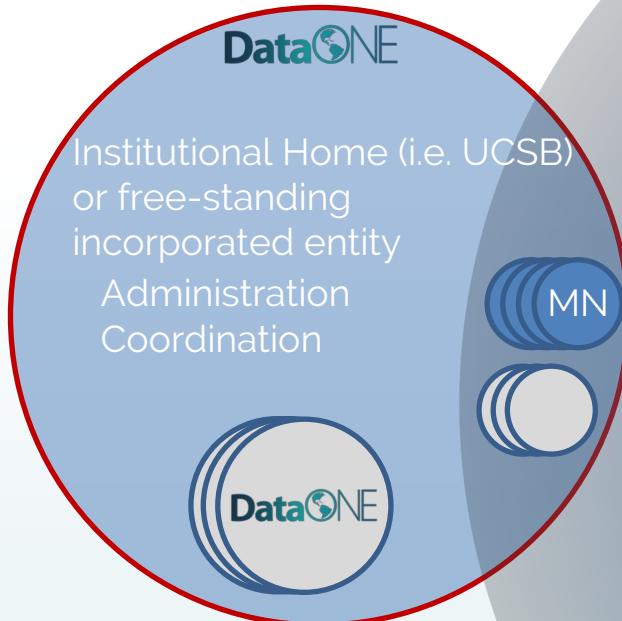
# Where we are ...



# Where we're headed ...



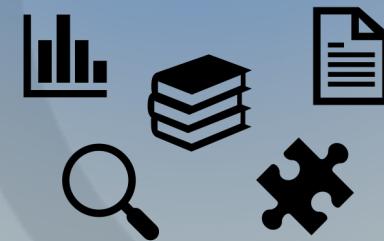
# Translation into a governance and operational model



Community Roles/Structures

- Membership Organization
- Advisory Board
- Community Managed Development Projects
- Collaborative Proposals
- Funding Agencies

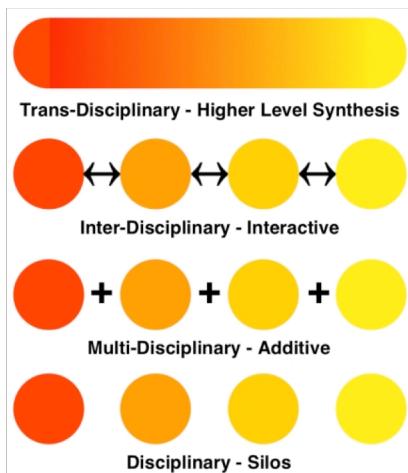
Needs Assessment  
Prioritization  
Execution



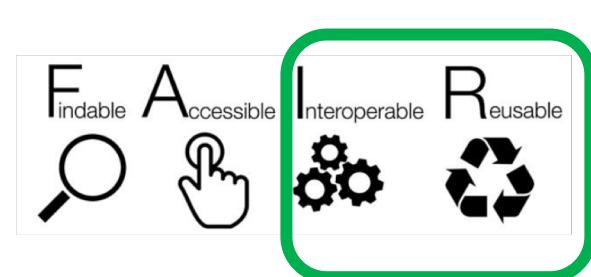
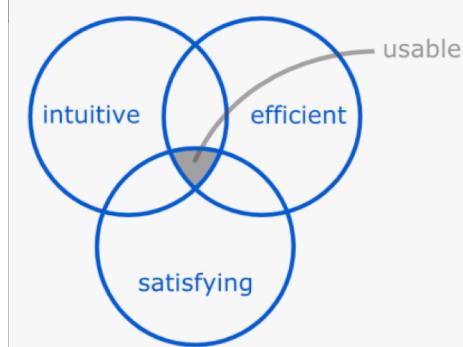
# Conversation



## Training



<https://www.uts.edu.au/about/uts-business-school/our-research/hub-sustainable-enterprise/anthropocene-transition-project>



## Sustainability

# Tell Us More

We want to talk more with you!

- One-on-one 30 minute conversations
- Contact <info>.