



University of Tennessee, Knoxville
**TRACE: Tennessee Research and Creative
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DataONE Sociocultural and Usability &
Assessment Working Groups

Communication and Information

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DataONE.

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DataONE

Research Data Access & Preservation

21 March 2012

Suzie Allard, Ph.D.

University of Tennessee



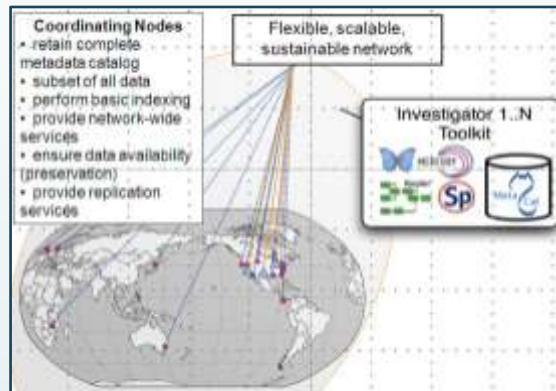
DataONE vision and approach

Enable new science and knowledge creation through universal access to data about life on earth and the environment that sustains it.

1. Build on existing cyberinfrastructure



2. Create new cyberinfrastructure

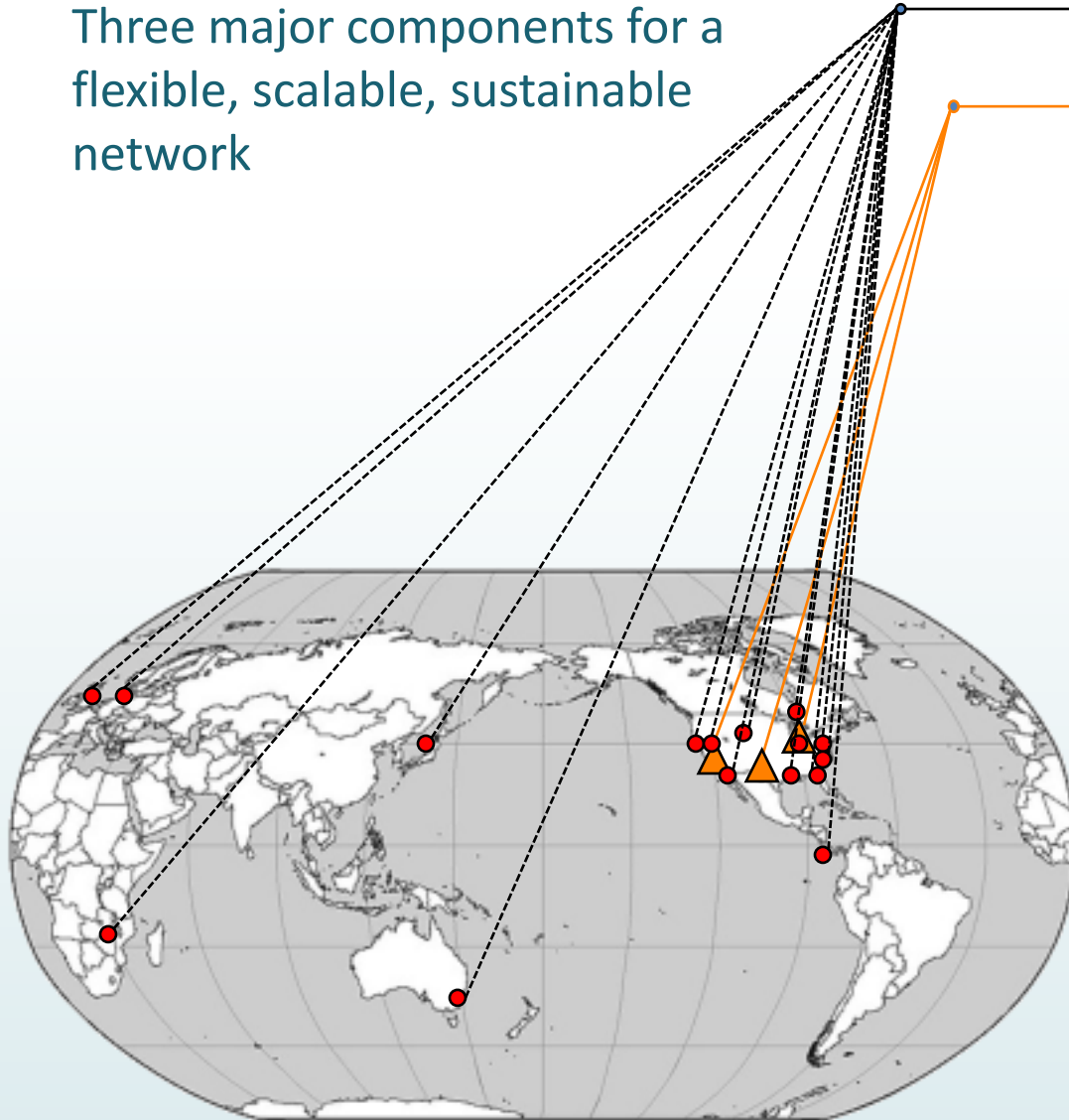


3. Support communities of practice



DataONE Cyberinfrastructure

Three major components for a flexible, scalable, sustainable network



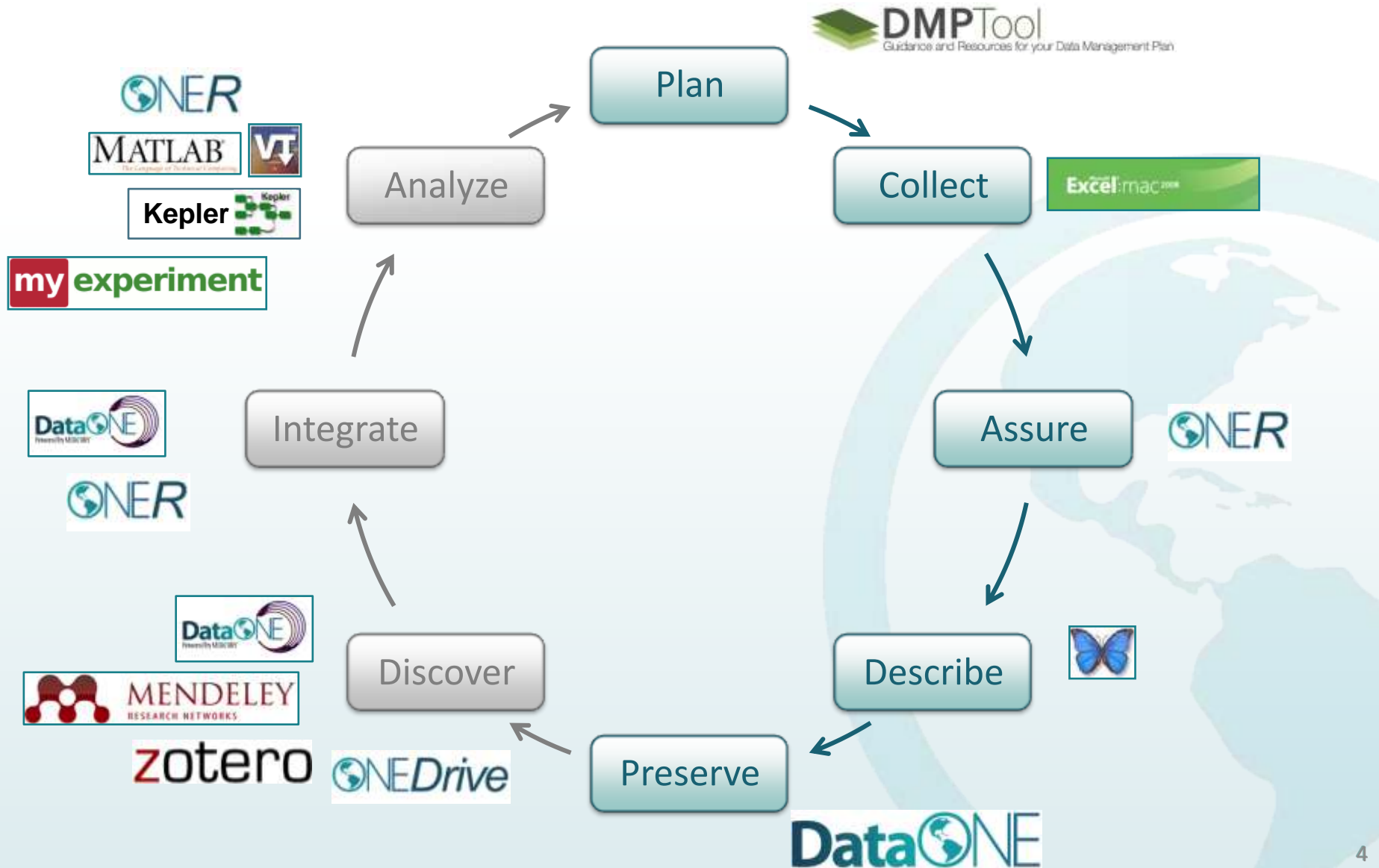
Member Nodes

Coordinating Nodes

Investigator Toolkit



Training in all elements of the data life cycle



DataONE Education and Training

Summer Internships

Training at Conferences and Workshops

- Supercomputing 2011
- DataONE Implementation Workshop: Publishing data as a Member Node
- Ecological Society of America (ESA)
- American Geophysical Union (AGU)

Educational Modules

Graduate-level course

- Summer Institute for Environmental Informatics

On-line Education Modules

DataONE

Home » Education » Education Modules

Education Modules

Below are links to education modules in powerpoint format that you can download and incorporate into your teaching materials. These modules include a short quiz at the end of each presentation. An online learning environment will also follow.

The topics covered include:

- The Data Life Cycle
- Data Management Plans
- Data Entry Manipulation
- Quality Assurance / Quality Control
- Protected Back-up
- Data Preservation (not available at this time)
- What Are Metadata?
- The Value of Metadata
- Writing Metadata
- Data Sharing
- Data Citation (not available at this time)
- Analysis and Workflows

There is also a link to a feedback survey in the last slide of each presentation. If you use or consider using these materials, please take a moment to complete the survey.

DataONE is a collaboration among many partner organizations, and is funded by the US National Science Foundation (NSF) under a Cooperative Agreement.
1312 Basehart Dr SE 1 University of New Mexico Albuquerque, NM 87106 [Contact Us](#)

Environmental Information Management (EIM) Institute

Graduate students biology, geology, ecology, or other environmental sciences, environmental engineering, geography or science librarianship

Conceptual and practical hands-on training to effectively design, manage, analyze, visualize, and preserve data and information:

- Managing data files
- Creating databases and web portals
- Data analysis and visualization
- Techniques for managing, analyzing, and visualizing geospatial data



DataONE Team and Sponsors



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• Jeff Horsburgh



• John Cobb, Bob Cook, Giri Palanismany, Line Pouchard



• Robert Sandusky



• Patricia Cruse, John Kunze



• Bertram Ludaescher



• Sky Bristol, Mike Frame, Richard Huffine, Viv Hutchison, Jeff Morisette, Jake Weltzin, Lisa Zolly



• Peter Buneman



• Chris Jones, Stephanie Hampton, Matt Jones



• Cliff Duke



• Paul Allen, Rick Bonney, Steve Kelling



• Carole Goble



• Ryan Scherle, Todd Vision



• Donald Hobern



• Randy Butler



• David DeRoure



LEON LEVY FOUNDATION



Microsoft Research



DataONE Team



Year 1



Year 2



Year 3

Questions



A Science Use Case



eBird



Land Cover



Meteorology



MODIS –
Remote
sensing data



Diverse bird observations and environmental data from 300,00 locations in the US integrated and analyzed using High Performance Computing Resources



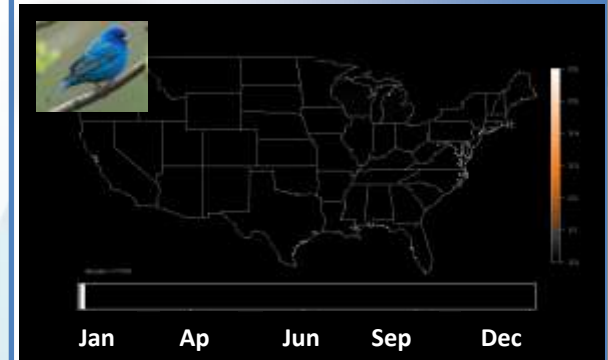
$$F(X,s,t) = \frac{1}{n(s,t)} \sum_{i=1}^n f_i(X,s,t) I(s,t \in \theta_i)$$

Spatio-Temporal Exploratory Model identifies factors affecting patterns of migration

DataONE

Model results

Occurrence of Indigo Bunting (2008)



- Examine patterns of migration
- Infer how climate change may affect bird migration