

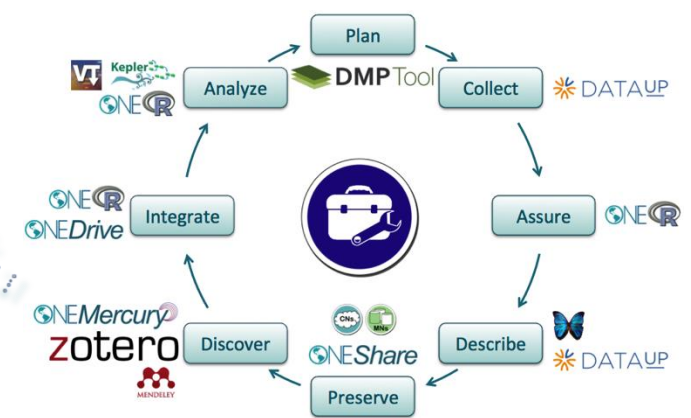
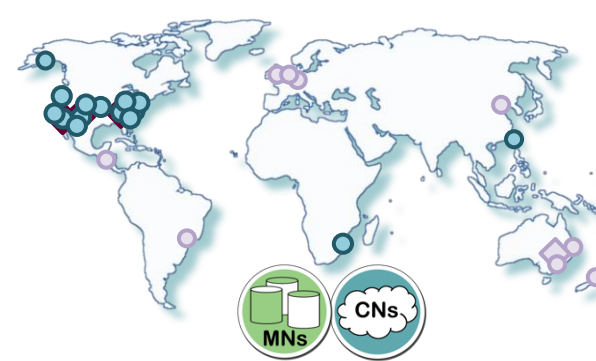
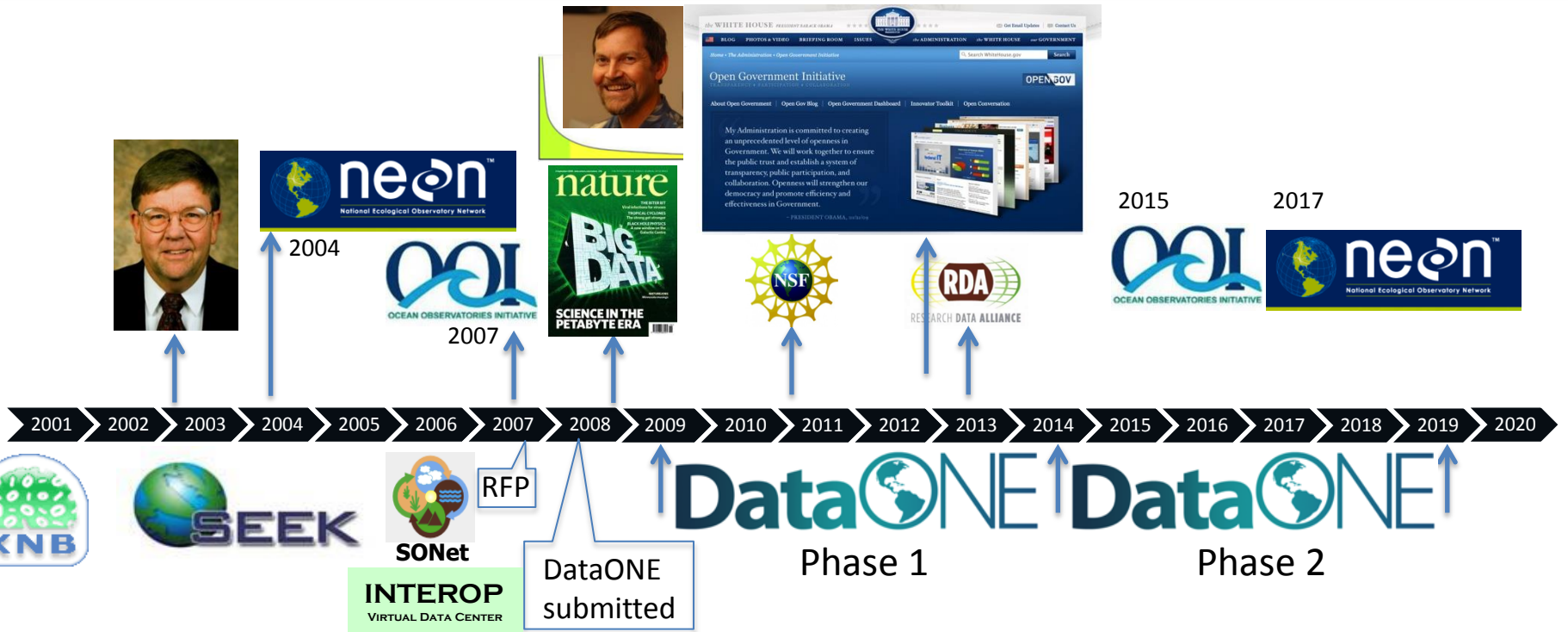
DataONE: Providing Solutions to Complex Data and Science Challenges

EU BON Associate Partner

Bruce Wilson
Leadership Team Member
EU BON General Meeting
June 2015



A Brief History of DataONE

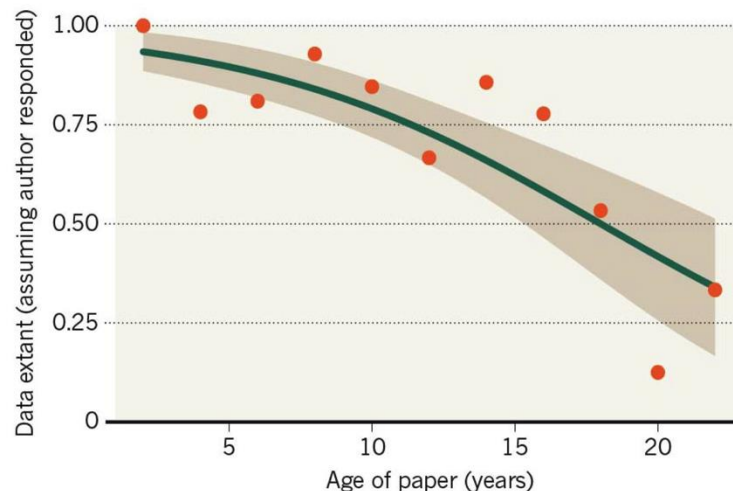


Science and Informatics Challenges



MISSING DATA

As research articles age, the odds of their raw data being extant drop dramatically.



Vines, T. H. et al. *Curr. Biol.*
<http://dx.doi.org/10.1016/j.cub.2013.11.014> (2013).



OPEN ACCESS Freely available online

PLoS one

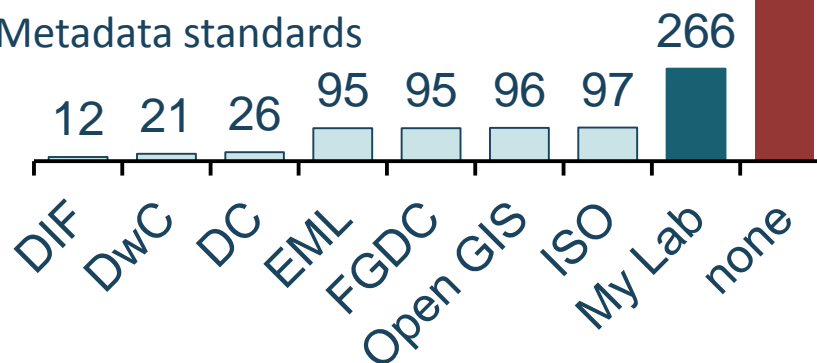
Data Sharing by Scientists: Practices and Perceptions

Carol Tenopir^{1*}, Suzie Allard¹, Kimberly Douglass¹, Arsev Umur Aydinoglu¹, Lei Wu¹, Eleanor Read², Maribeth Manoff², Mike Frame³

¹ School of Information Sciences, University of Tennessee, Knoxville, Tennessee, United States of America, ² University of Tennessee Libraries, University of Tennessee, Knoxville, Tennessee, United States of America, ³ Center for Biological Informatics, United States Geological Survey, Oak Ridge, Tennessee, United States of America

676

Metadata standards





Developing Sustainable Data Discovery and Interoperability Solutions

Three major components for a flexible, scalable, sustainable network



Coordinating Nodes

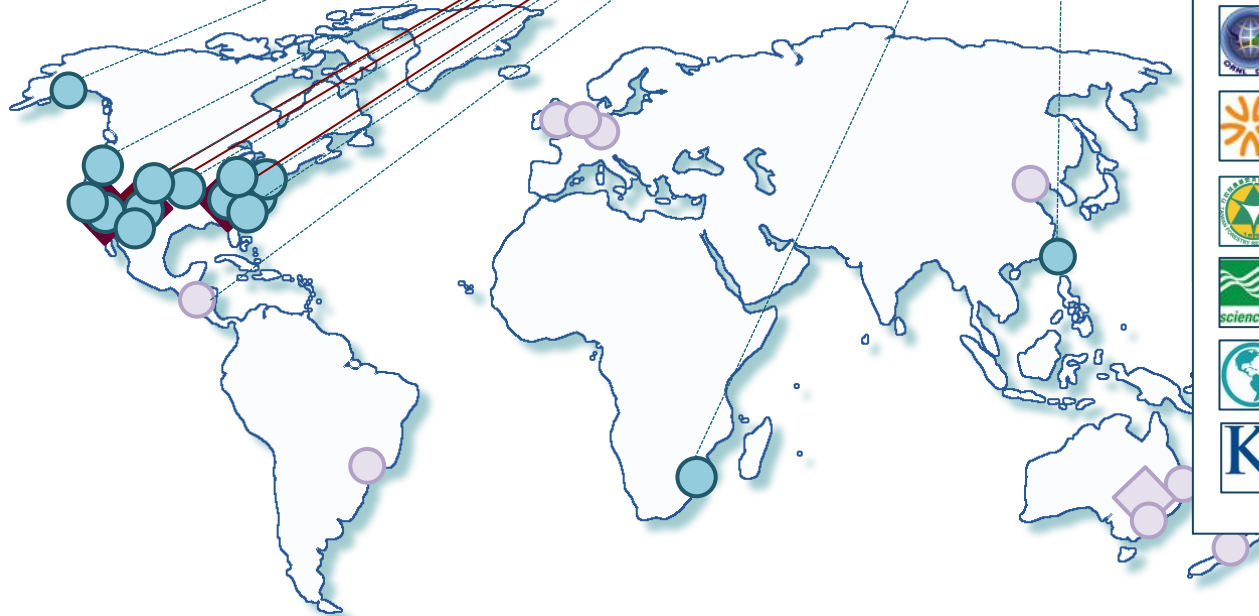
- retain complete metadata catalog
- indexing for search
- network-wide services
- ensure content availability (preservation)
- replication services





Developing Sustainable Data Discovery and Interoperability Solutions

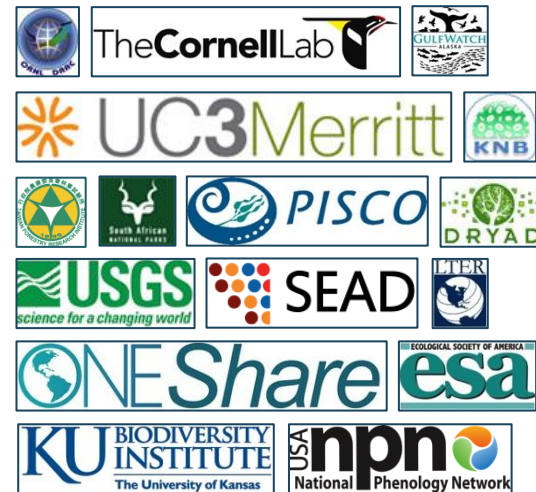
Three major components for a flexible, scalable, sustainable network



Coordinating Nodes

Member Nodes 23 + 3

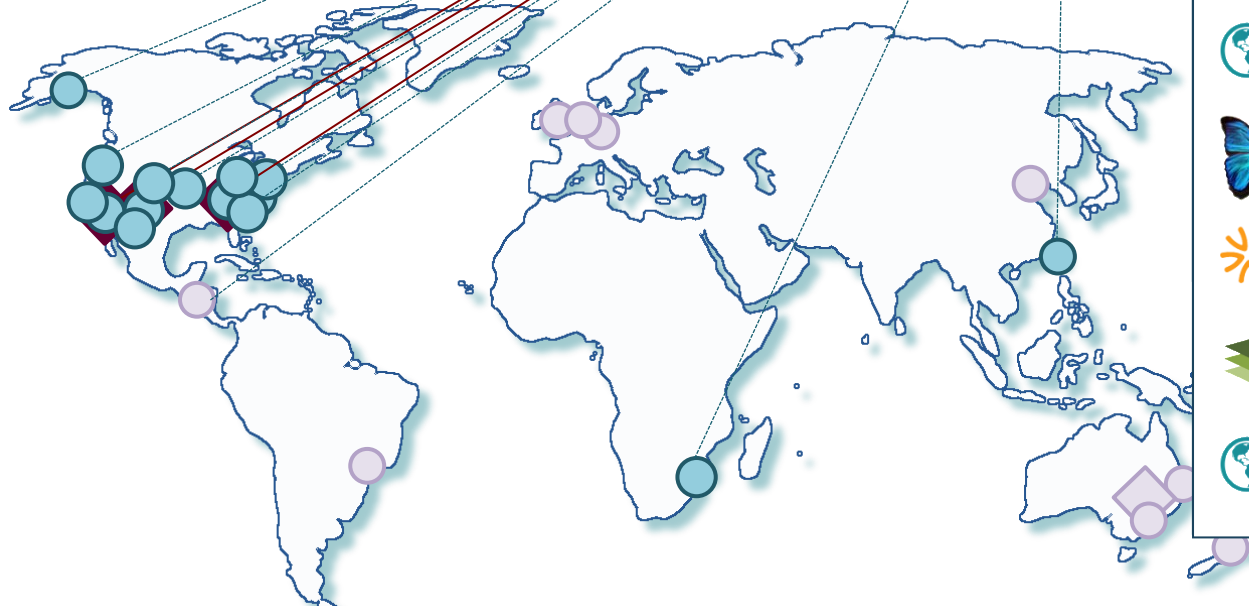
- diverse institutions
- serve local community
- provide resources for managing their data
- retain copies of data





Developing Sustainable Data Discovery and Interoperability Solutions

Three major components for a flexible, scalable, sustainable network



Coordinating Nodes

Member Nodes

Investigator Toolkit

>> command line interface



python



ONEDrive

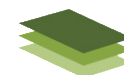
zotero



Kepler



dash
DATA SHARING MADE EASY



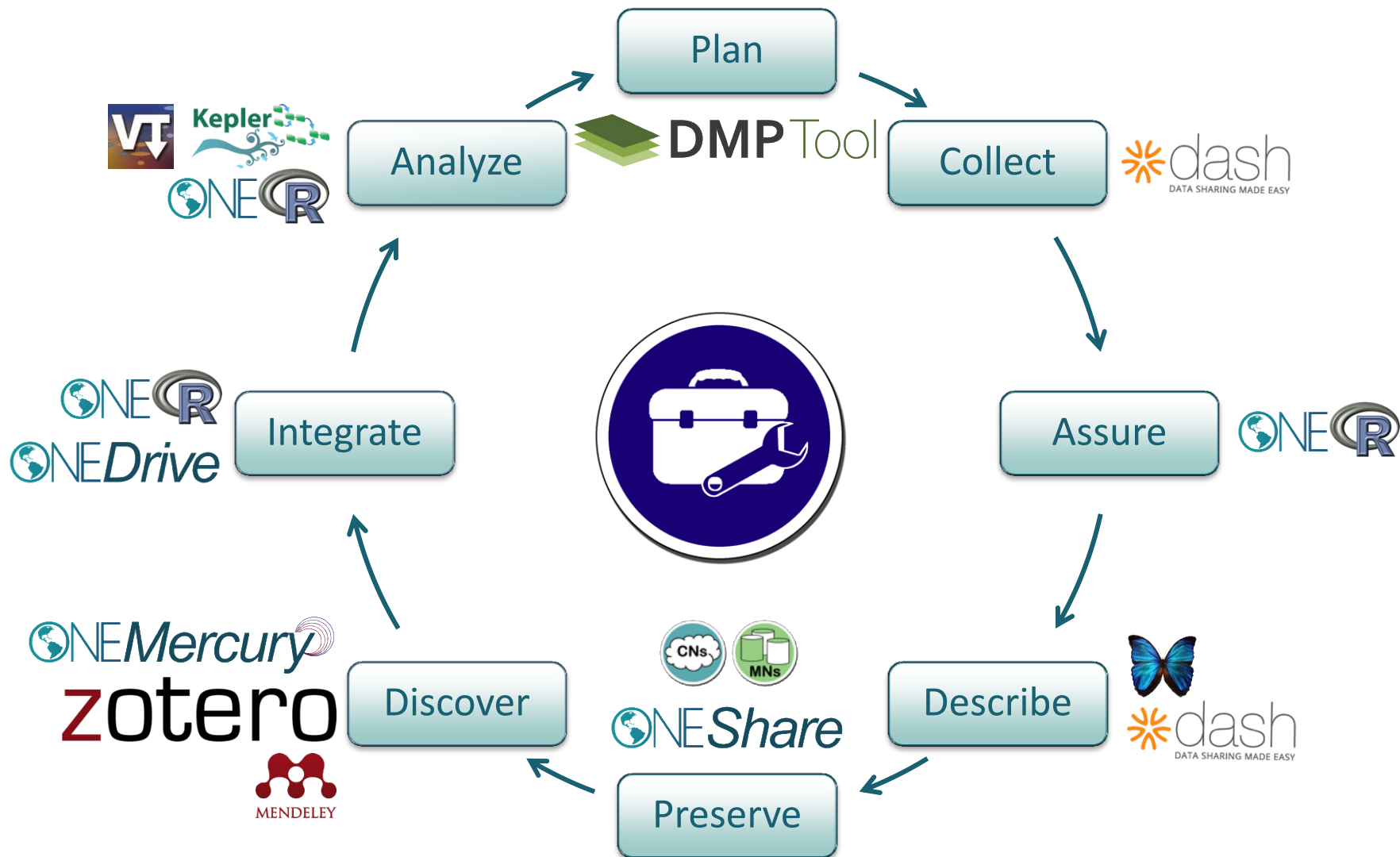
DMP Tool



ONE Mercury



Enabling Science Through Tools and Services





Thanks!

