

DataONE

(Data Observation Network for Earth)

DataONE Users Group

Santa Fe, NM

July 11-12, 2011

DataONE



Community Engagement and Education

Working Group Activity: Development of Data
Management Online Educational Materials

Working Group Leads:
Stephanie Hampton, NCEAS
Viv Hutchison, USGS

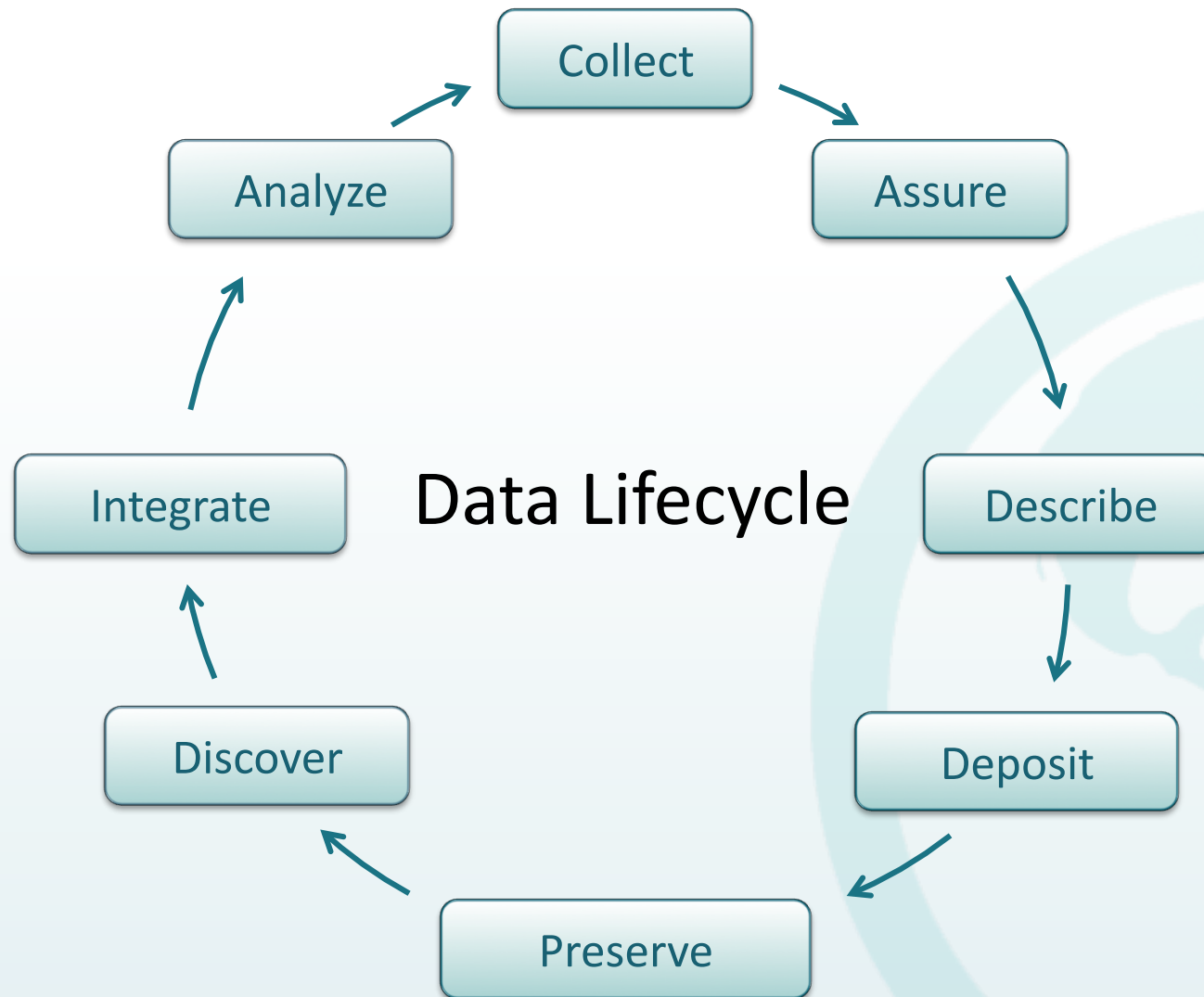
Data Management Online Education Materials

Topic: Data Management Education Modules based on best practices throughout the data lifecycle.

Justification: Advances in science will happen with greater ease if scientists take time to manage data well throughout the life of a research project.

Audience: Graduate-level Earth Science student; professors in Earth Science (for use in graduate-level courses); experienced researchers and scientists interested in brushing up on data management practices.

Data Management Education Materials



Data Management Education Materials: Module Titles

1. What is the data lifecycle?
2. Data Management Planning
3. Data Collection, Entry, and Manipulation
4. Data Quality Control and Assurance
5. Data Protection: Data Backups
6. Data Preservation
7. Data Documentation: What is Metadata?
8. Data Documentation: The Value of Metadata
9. Data Documentation: How to Write Good Metadata
10. Data Delivery: Data Sharing
11. Data Citation Practices
12. Collaborative Science
13. Data Analysis: Workflows and Other Tools

Data Management Education Materials: 2 Formats

- Downloadable Power Point modules:
 - Introduction to the topic
 - Learning objectives
 - Summary of content
 - Quiz (to assess learning)
 - Survey link (for feedback)
- Power Points accompanied by a professional voice-over (optional for the user)
- User can approach the material as a continuous “course” or in smaller segments

Data Management Education Materials: Use Cases

- Scenarios:
 - A professor downloads several modules to accompany material in a pre-established course
 - A student engages with the modules 1 – 13 in order by listening to the voice-over as a means to learn data management best practices
 - A seasoned researcher is required to submit metadata for a funded project and needs to learn how to best do that. He selects the appropriate modules to learn about one area of the data lifecycle.

Data Management Education Materials: Feedback

- CEEWG is identifying several professors willing to try out modules in their classrooms and will provide feedback.
- Survey link at conclusion of each module.

Data Management Education Materials: Feedback

- DataONE Users Group:
 - Does this overall approach work?
 - Are there other formats we should consider?
 - Suggestions for additional content?
 - Suggestions for next CEEWG project to benefit DataONE Community?

Thank you!

