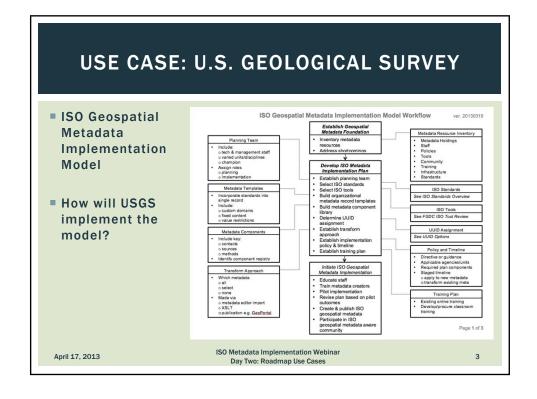


US Geological Survey: A "Beginners" Story....

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- U.S. Geological Survey: Description
 - Science for a Changing World
 - Mission: The USGS serves the Nation by providing reliable scientific information to describe and understand the Earth; minimize loss of life and property from natural disasters; manage water, biological, energy, and mineral resources; and enhance and protect our quality of life.





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- U.S. Geological Survey: Description
 - Composition:
 - Headquarters in Reston, VA
 - 7 Mission Areas:
 - Climate and Land Use Change
 - Core Science Systems
 - Ecosystems
 - Energy and Minerals
 - Environmental Health
 - Natural Hazards
 - Water
 - Science Programs are contained within Mission Areas
 - Distributed science centers and research stations with multi-disciplinary foci

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USE CASE: U.S. GEOLOGICAL SURVEY

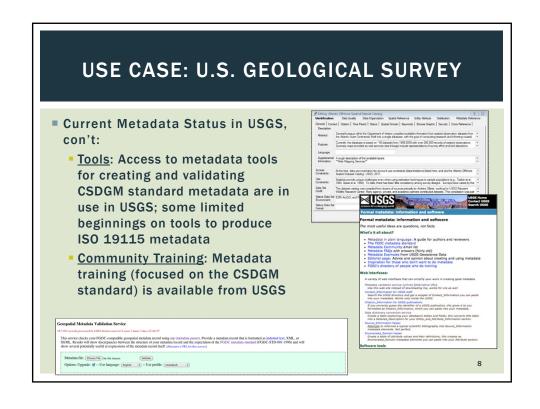
- Current Metadata Status in USGS:
 - Metadata holdings: USGS has metadata holdings spread throughout the Bureau; several aggregation points exist, but none are comprehensive.
 - Staff: Numerous USGS Programs and pockets of USGS staff are up-to-date on metadata standards and how to use them; some participation in FGDC Metadata Workings Group activities

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Current Metadata Status in USGS, con't: Policies: Currently, metadata is mentioned in USGS policy, but there is not a dedicated metadata policy chapter. (However, a new policy requiring metadata for data and information products is close to publication in the USGS survey Manual) A Decumentation. Data collected for publication in daubases or reports, regardless of the manner in which they are published such as USGS reports, purmal articles, and Web pages) must be documented to discrete the methods or techniques used to collect, process, and analyse data this requirement include computer modeling software and tools produced by USGS and analyse the method of the commented of the control of accuracy and precision; standards for metadata; and any method of quality accurate. This documentation of accuracy and precision; standards for metadata; and any method of quality accurate. B. Mentalata. Documentation of accuracy and precision; and by whom a particular set of data were collected and how the information is formated. Established national and interesting in metadata standards should be used; for example, those for geospatial data of the Federal Geographic Data Committee (see https://www.MgGs.guz). B. Mentalata. Documentation of data that describes how, when, and by whom a particular set of data were collected and how the information is formated. Established national and interesting in metadata standards should be used; for example, those for geospatial data of the Federal Geographic Data Committee (see https://www.MgGs.guz). C. Project. Defined by the Bureau Program Primaing process as a body of work that is sullowed to fit a well-defined scientific problem on the interesting process and any program primaing and process of the state of the proper publication and program primaing and process of the state of the program primaing and process of the state of the program primaing and process of the state of the program primaing and process of the program primain describes and program primaing and primain a



- Develop ISO Metadata Implementation Plan
 - A Planning Team: This group should be established through the USGS Community for Data Integration (CDI) – this community brings together subject matter experts from across the USGS interested in various data oriented topics – with support from the Executive Leadership Team.
 - Selection of ISO standards, tools, transform approaches, and a plan to build templates, component libraries, and assign persistent identifiers: Will be guided and accomplished through the planning team.
 - <u>Display and discovery</u>: USGS is looking at best options for supplying metadata to data.gov

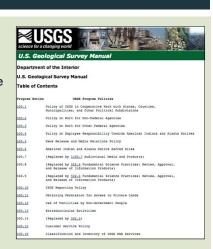
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USE CASE: U.S. GEOLOGICAL SURVEY

- Develop ISO Metadata Implementation Plan, con't
 - Implementation Policy: USGS is ready to submit a new policy in the Survey Manual -- it requires metadata creation for datasets and information products.
 - The language includes ISO metadata as an approved metadata standard.
 - The Survey is also developing a "Data Management" overarching policy that will include metadata creation.



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II CSAS Home

Metadata Home
Discover Data Y
Standards
Tools
Training

Training tadata Training

- Overview

 One Day Computer Laboratory Workshops
 This workshop provides the opportunity to create original metadata through computer-based over
 from a Computer Comput
- Conference Demonstrations

 Childrence Demonstrations

 Dishib booths are utilized as versues to attract and engage conference pertricipants in metadata

 Tools for Metadata Training Workshops

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Develop ISO Metadata Implementation Plan, con't

- Establish training plan: Key to implementation of ISO in USGS will be incremental training.
- Should begin with training current metadata experts who can, in turn, help train USGS scientists and researchers in creating ISO metadata.
 - Some staff have taken ISO training sponsored by NOAA
 - Good tools will need to be in place and training materials developed

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USE CASE: U.S. GEOLOGICAL SURVEY

Strengths:

- USGS can identify a metadata community
- USGS has an established forum (CDI) from which momentum for a transition to ISO can be generated
- Many (but not all) science centers and Programs already incorporate metadata production into their workflows

Challenges:

- USGS needs a unified approach to making data, metadata, information products, and publications connected and available (there is currently no official repository)
- No required workflows for metadata
- Building a case for the need to use ISO much of data produced is GIS and tabular

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- Decisions to Make:
 - What existing metadata records will be converted to ISO?
 - Determine how to best empower the current metadata experts in USGS to assist with the transition.
 - Figure out how USGS can better promote the incorporation of documentation processes into the data creation process.
 - Determine how best to capitalize on the strength of the ISO standard, which recognize and promote the fluidity in data and metadata production.

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QUESTIONS AND COMMENTS

Thank you!

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April 2013

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