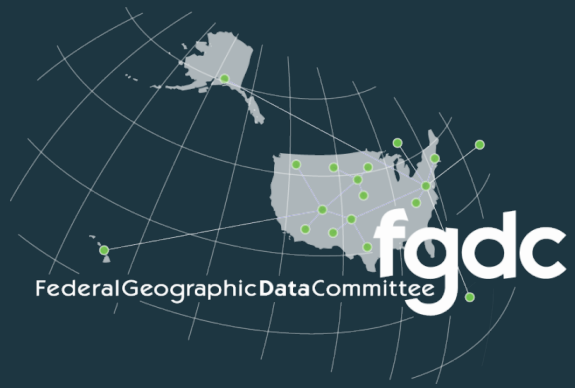


FEDERAL METADATA COORDINATORS' WEBINAR:

ISO GEOSPATIAL METADATA IMPLEMENTATION FORUM

Welcome

Jennifer Carlino
jcarlino@usgs.gov

*

ISO Metadata Implementation Tools - Federal

Doug Nebert
FGDC
*
Dan Spinosa
Innovate!, Inc.
For EPA

Wednesday
April 9, 2014

WELCOME TO THE ISO METADATA IMPLEMENTATION FORUM

Jennifer Carlino
US Geological Survey
and
Federal Geographic Data Committee
jcarlino@usgs.gov

BACKGROUND

- Forum concept initiated during FGDC Metadata Summit breakout groups
  - Build upon knowledge & experiences
  - Share use cases
- Reinforced during the ISO Implementation Webinar discussion & follow up survey
  - Interest in establishing community of practice to learn from others
  - Engage in presentation & discussion

Metadata Summit
October 2011

ISO Implementation
Webinar April 2013

PURPOSE

Offer a webinar information series for the presentation & discussion of ISO geospatial metadata standards implementation efforts through shared experiences, strategies, topics, & resources.

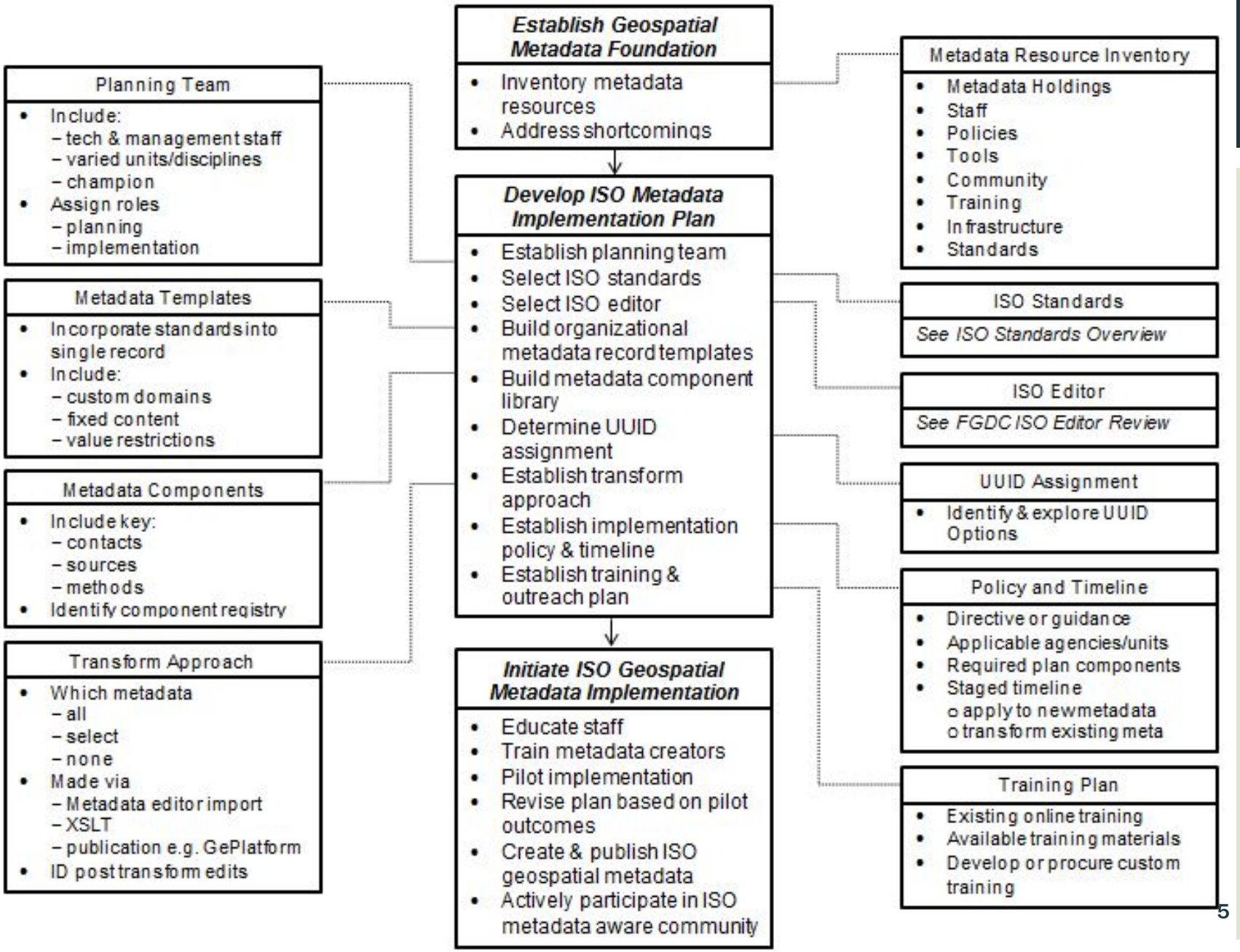
Audience: FGDC Metadata Working Group & other interested participants

Presenters: Community participants willing to share their expertise in common interest areas

Anticipated Outcome: Each session documented & available at the FGDC Metadata website; stimulate ideas and promote use

http://www.fgdc.gov/metadata/events/iso-geospatial-metadata-implementation-forum/index_html

ISO Metadata Implementation Model Workflow



WHICH ISO STANDARDS?

- ISO 19115: Geospatial Metadata
- ISO 19115-2: Imagery & Gridded Data Extension
- ISO 19115-1: Metadata: Part 1 – Fundamentals
- ISO 19119: Geospatial Services
- ISO 19110: Feature Catalog
- ISO 19139: Geographic Information – XML Schema
- ISO 19157: Data Quality
- ISO 19115 North American Profile (NAP) best practices
- & others

2014 SCHEDULE

Time: 3:00-4:30 PM ET with 60 minutes presentation & 30 minutes discussion

Date (Wednesdays)	Title
January 8	Why Implement ISO Metadata?
February 12	Why We Implemented ISO metadata
March 12	Metadata Working Group Meeting
April 9	ISO Metadata Implementation Tools - Federal
May 14	ISO Metadata Implementation Tools - Commercial
June 11	Metadata Working Group Meeting
July 9	ISO Metadata Implementation Workflow Model
August 13	ISO Metadata Implementation Workflow Experience
September 10	Metadata Working Group Meeting
October 8	To Be Announced
November 12	To Be Announced
December 10	Metadata Working Group Meeting

- *Community Profile Development*
- *Transforming CSDGM to ISO*
- *Other?*

MORE INFORMATION

If you are interested in presenting or have other topic suggestions, please send ideas to Lynda Wayne (Lynda@GeoMaxim.com) or Jennifer Carlino (jcarlino@usgs.gov)

Presentation Materials & Information will be available at:

http://www.fgdc.gov/metadata/events/iso-geospatial-metadata-implementation-forum/index_html

LOGISTICS

- Use Lecture Mode during presentations
- Please use the chat box for questions
  - Will answer as many questions as possible
  - Distribute summary of questions/answers afterwards
- Forum will be recorded
- Participate in as many Forum sessions as you like
- Presentations, Questions/Answers, and Recordings will be posted at:

http://www.fgdc.gov/metadata/events/iso-geospatial-metadata-implementation-forum/index_html

ISO METADATA IMPLEMENTATION TOOLS – FEDERAL

Doug Nebert
FGDC
ddnebert@usgs.gov

Dan Spinosa
Innovate!, Inc. for EPA
dspinosa@innovateteam.com

DISCUSSION

Jennifer Carlino
US Geological Survey
and
Federal Geographic Data Committee
jcarlino@usgs.gov

QUESTIONS

From Doug Nebert's presentation:

- ISO 19115-1: Part 1 Fundamentals is available through ISO. ISO 19115-3 is up for vote on committee draft; the work item is approved and a draft schema is out for review by TC211.
- Is the document with bureau codes public?
  - http://goals.performance.gov/sites/default/files/images/FederalProgramInventory_FY13_MachineReadable_091613.xls
  - DOI Codes from presentation: https://docs.google.com/a/usgs.gov/document/d/1CecwcI1GS8o6IxYsnV9JjqoZwRwVseQ-U2K2ZkwyX94/edit
- What element is the bureau code stored?
  - In GOS, was to have an organization code. Is there a single org code as part of the query
  - We're working on where it is stored
  - Organized by collections – so if one group has more than one catalog then the users can still find the information because all information would be tagged with one code

QUESTIONS

From Doug Nebert's presentation:

- Plan with Data.gov to follow through the open data initiative rolling up from Agency level instead of WAF level. Is there a timeline?
  - Can have multiple WAF's per organization – NOAA has created instance of a catalog, EPA, and DOI have one catalog to roll up and track statistics at a higher level. Data.gov can restrict search, but get access to all of them
  - Done on case by case basis for how resources are harvested. For example, in USGS there will be one catalog that submits to DOI, which then Data.gov harvests. Users should not see a lot of WAFs but they are invisible to users
- What flavor of ISO does CKAN support?
  - Using 19115-2 because has a significant number of datasets available.
  - Valid to 19115
  - Also, CSDGM
  - Just need to validate against a schema, so possible for more to be added
- EPA using a very similar workflow. Only ISO mappings are the mandatory means we may not have mapped the optional fields the same way. Is there a place where can store and share this information?
  - Using Project Open Data. An environment for code and documentation
  - Suggest creating a space in GeoPlatform.gov. Set up collaborative pages, to provide information about code lists, recommendations, practices, etc.

QUESTIONS

From Doug Nebert's presentation:

- Comment. CKAN has many extensions - No standard federal extension. Get a Platform profile to deploy more widely. Allow for turning on/off profiles. Harvest ISO, CSDGM, but each instance has to be one type of metadata. WAF of CSDGM, ISO…current deployment
  - Can have multiple WAF's per organization – NOAA has created instance of a catalog, EPA, and DOI have one catalog to roll up and track statistics at a higher level. Data.gov can restrict search, but get access to all of them
  - Done on case by case basis for how resources are harvested. For example, in USGS there will be one catalog that submits to DOI, which then Data.gov harvests. Users should not see a lot of WAFs but they are invisible to users
- What flavor of ISO does CKAN support?
  - Using 19115-2 because has a significant number of datasets available.
  - Valid to 19115
  - Also, CSDGM
  - Just need to validate against a schema, so possible for more to be added

QUESTIONS

From Doug Nebert's presentation:

- Is anyone else having issues with CKAN harvesting our geoportal CSW with the DCAT? Unsuccessful getting into CKAN
  - CKAN only supports harvesting full ISO metadata via CSW, it can't handle a mix of ISO and CSDGM records. May need to separate.
  - Can handle both: set up a harvest target to be an auto detect (recognize CSDGM or ISO). Track that in the log to see where the error is occurring.
  - EPA: we couldn't even get CKAN to harvest successfully from a WAF - our only success was via the data.json file.
  - USGIN: we had to create a special geoportal configuration to get CKAN to harvest ISO metadata from our geoportal. You have to be using the latest pyCSW code (v1.8) in your CKAN install to get a functional CSW for harvesting
  - From a developer perspective: difficult to get feedback on errors – register a test data file, so we can get error messages to enhance data.json support (if interested, contact Marten Hogeweg). Suggested collaboration to get administrator rights to be able to see the error log file.

QUESTIONS

From Doug Nebert's presentation:

- And that works for a geoportal with both fgdc and iso records?
  - Anyone is free to use the ISO forms on Geoportal Server sandbox http://gptogc.esri.com/geoportal to create ISO xml and saving those for upload into Data.gov.
  - https://github.com/Esri/geoportal-server/wiki/Customize-DCAT-output
  - http://service.ncddc.noaa.gov/oer-geoportal/rest/index/stats/
- Compare to EPA's configuration: https://edg.epa.gov/metadata/rest/index/stats
- A useful list of known issues on data.gov, including some CSW notes: https://github.com/GSA/data.gov/issues
- The discussion on the service types doug mentioned is found here: https://github.com/OSGeo/Cat-Interop/issues/1

QUESTIONS

From Doug Nebert's presentation:

- Plan for ISO 19110 files? Storing them on a separate site
  - In past – link to that file
  - Current ISO version will embed 19110 elements in metadata instead of an external reference
  - Hopefully, tools will start capturing that information
- What is your path for non-federal services?
  - GIS inventory RAMONA is one of the harvest points
  - Most states still have their own clearinghouses and that is another way
  - Whatever is most appropriate for you
- For the harvest, within a collection to eliminate duplicate efforts
  - Must do a clear to delete collection safest way
  - Do a full re harvest

QUESTIONS

From Dan Spinosa/Torrin Hultgren's presentation:

- What is planned release date?
  - Targeting June 2014
- What is the programming environment? Are you reading/writing XML files? What is the architecture
  - Similar to EME 3.2 – Windows form application, XML documents and parses that into form, do edits and then outputs to XML document
  - Database was an Access database for storing pre populated content like contacts – that is no longer Access, but rather a folder of XML files
  - If you can install EME 3.2, then you should be able to install v4

OTHER ANNOUNCEMENTS

- Marten Hogeweg – releasing Geoportal 1.2.5. Enhancements for DCAT support, implemented harvesting DCAT from other sources, LDAP/security enhancements, and other significant enhancements. Provide an update through the wiki
- Next ISO Forum meeting is on May 14, 2014 at 3 pm. ISO Tools - Commercial