



# ISO Geospatial Metadata Summit

## Presentation Descriptions

### Morning Plenary 8:30- noon

#### **Welcome**

Jennifer Carlino, Metadata Coordinator, Federal Geographic Data Committee

*An overview of Summit logistics and an invitation to continue the ISO metadata dialog, share experiences, and develop a set of actions and recommendations that enable and support ISO metadata implementation across the NSDI community.*

#### **Building On Our Progress**

Ken Shaffer, Deputy Executive Director, Federal Geographic Data Committee

*The geospatial community has made progress with ISO metadata implementation and built upon the actions generated via the 2011 Summit, 2013 Workshop, and the ISO Forum. Today's presentations will illustrate the creation of tools to support ISO implementation, formal efforts to plan for implementation, expanded use of ISO standards to document data and services, and the creation of community profiles. Continued effort is needed to fully embrace the operational capabilities that the ISO 19115/-1 standards provide.*

#### **Leveraging the Geospatial Platform**

Tod Dabolt, Geographic Information Officer, Department of the Interior

*Human and machine readable metadata*

*What's the difference?*

*Who cares?*

*So What?*

*For decades we've preached metadata so users can understand what's in a particular dataset. While that is still important, we also know not many users have the time to read the fine print! In today's world we're overwhelmed with the variety of data we can discover in various catalogs, data repositories and on the open web. Skimming through all that metadata to find the "right" data to answer your mission driven question is often futile so we rely upon our human networks of data sources to find the golden nugget. We need to wake up and leverage the power of technology so we can let machines assist us in finding the "right" data. The GeoPlatform metadata profile and the new object editor are one attempt at helping technology work better for us so users can quickly find the golden nugget without having to do lots of sifting and guessing.*

## **ISO Standards Update**

Dave Danko, Manager GIS Standards, Esri

*ISO Metadata standards specify metadata for more than data catalogs and item discovery they cover a wide array of topics from comprehensive metadata for understanding geospatial data and services, to metadata about coordinate reference systems, non-coordinate reference systems, data quality, feature type and attribute catalogs, imagery parameters, and so on. This varied metadata is covered in a suite of standards developed and maintained by experts in the specific metadata topics. These interrelated standards are updated on a 3-5 year cycle. In the past ISO has used separate standards to define the metadata elements versus providing the encoding method (typically XML) for those elements. This part of the session will provide an overview of the various ISO metadata related standards and their status.*

## **Publishing ISO Metadata to Data.gov**

John Jediny, IT Specialist, General Services Administration

*This talk will cover the tools, methods, and best practices for creating metadata records that support the full range of Data.gov and Geospatial Platform operational capabilities and improve the discovery and use of geospatial data resources. The document also serves as a foundation for companion metadata guidance developed for National Geospatial Data Assets (NGDA) and Project Open Data.*

[National Geospatial Data Assets Metadata Guidelines](https://cms.geoplatform.gov/sites/default/files/document_library/NGDA_Metadata_Guidelines.pdf)

[https://cms.geoplatform.gov/sites/default/files/document\\_library/NGDA\\_Metadata\\_Guidelines.pdf](https://cms.geoplatform.gov/sites/default/files/document_library/NGDA_Metadata_Guidelines.pdf)

[Project Open Data Implementation Guide](https://project-open-data.cio.gov/implementation-guide/)

<https://project-open-data.cio.gov/implementation-guide/>

## **Benefits of Documenting Geospatial Data and Services Using ISO**

Lynda Liptrap, Federal Geographic Coordination Branch Chief, Census Bureau

*The Census Bureau began utilizing ISO metadata to document geospatial data and web map services in 2012. Since then, the process evolved and best practices emerged, followed by new requirements for National Geospatial Data Assets.*

*This presentation will highlight the transition from the Content Standard for Digital Geospatial Metadata (CSDGM) to the implementation of ISO metadata. Topics will include the processes, the challenges, and the benefits of this implementation for both geospatial data files and web services.*

## **ISO 19115-1 Transition: Policy and Planning**

Tyler Christensen, NOS Metadata Coordinator, National Oceanic and Atmospheric Association / SID, Inc.

Anna Milan, Metadata Specialist, National Oceanic and Atmospheric Administration

Jaci Mize, Metadata Specialist, National Oceanic and Atmospheric Administration / Riverside Technologies

*“The future is already here, it’s just not very evenly distributed.” - William Gibson.*

*The NOAA Data Documentation Procedural Directive states that we shall develop and implement a Transition Plan for supporting the revised ISO standards by January 2018. The NOAA National Centers for Environmental Information (NCEI) is leading this effort, but we are not working alone.*

*The transition team comprises representatives from every line office in NOAA, who use a variety of metadata management tools. The team has regular peer-to-peer education sessions that facilitate understanding of the new standard, instigates useful conversations for leveraging new fields to establish and document common future best practices. Our goal is to develop a plan that is tangible, inclusive of technical options and can facilitate a coordinated transition to the updated standard across NOAA.*

## **North Carolina State and Local Government Metadata Profile**

Jeff Brown, Coordination Program Manager, North Carolina Center for Geographic Information and Analysis

Sarah Wray, Spatial Data Manager, North Carolina Department of Transportation

*The North Carolina State and Local Government Metadata Profile for Geospatial Data and Services was developed in response to the North Carolina Geographic Information Coordinating Council (NCGICC) request for a metadata implementation resource that would enhance the sharing of data across jurisdictions and enterprises. The NCGICC tasked an ad hoc Metadata Committee to explore options for improving metadata creation and quality with a focus on practical resources that could be incorporated into data and metadata development. Motivation came from highly productive, publicly accountable, decision-driven state and local government organizations that find metadata to be challenging. The fiscal restrictions and high demand placed on these data shops require maximum efficiency and effectiveness with little time available to document data in a standardized and robust manner.*

*The result of this effort is the creation of a standardized state and local government geospatial metadata profile that: promotes International Standards Organization (ISO) geospatial metadata standards, remains applicable to the Content Standard for Digital Geospatial Metadata (CSDGM) legacy standard, operates across GIS applications, and is customized for key thematic communities such as municipal boundaries, parcels, and roads. Next steps include in-person and online training sessions, tools, templates, and ways to validate metadata records.*

## **Why, How and What of the EPA Metadata Editor 5.0**

Ana Greene, Environmental Dataset Gateway Program Manager, Environmental Protection Agency

*The EPA Metadata Editor (EME) 5.0 is the Environmental Protection Agency's newest geospatial metadata editor. EME 5.0 is a customization of ESRI's ArcCatalog. It has been customized to allow users to meet the requirements of EPA's Metadata Technical Specification, which follows both ISO 19115 and Project Open Data Standards. In addition, a number of features have been added to improve usability and to make it easy to produce high quality metadata records. This session will discuss the development process for this new tool including why it was developed, challenges and successes as well as the tool's key features.*

## **Breakout Group Instructions**

Jennifer Carlino, Metadata Coordinator, Federal Geographic Data Committee  
*Instructions for breakout group participation and outcome expectations.*

## **Breakout Session 1:00-2:45 PM**

### **Breakout Groups**

#### **Tools and Applications**

*What tools and applications are needed to support organizations in moving forward with ISO metadata implementation?*

#### **Education and Outreach**

*What education and outreach efforts and resources are needed to support organizations in moving forward with ISO metadata implementation?*

#### **Policy and Planning**

*What policy and planning efforts and resources are needed to support organizations in moving forward with ISO metadata implementation?*

## **Afternoon Plenary 3:00-4:30 PM**

### **Breakout Group Reporting and Discussion**

Moderator: Jennifer Carlino, Metadata Coordinator, Federal Geographic Data Committee

*Breakout Groups convene to share reports of issues and actions identified to support ISO metadata implementation policy/planning, tools, and education/outreach and discussion.*

### **Closing Session**

Jennifer Carlino, Metadata Coordinator, Federal Geographic Data Committee

*A charge to participants to engage in the proposed actions and make ISO metadata a reality within their own agency or organization, the FGDC Metadata Working Group, and the NSDI stakeholder community.*