

Introduction to ADIwg ISO Metadata Toolkit

2015 CDI Conference Training Session

May 11, 2015

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Workshop Outline



- Project overview and toolkit introduction
- Generating metadata using the toolkit
- Toolkit integration with systems



Overview



- Project introduction
- Development background
- Toolkit introduction
- Documentation



About ADIwg

The Alaska Data Integration Working Group (ADIwg)

- Mission: to examine and address the technical barriers to efficiently integrate and share data within and among participating organizations
- Steering Committee: Alaska Climate Change Executive Roundtable (ACCER)
- ADIwg technical work group implements objectives



Who is ADIwg?



- **Federal**
 - BLM, BOEM, NPS, USFWS, USFS, USGS
- **State of Alaska**
 - University of Alaska (UAF, UAS)
 - Geographic Information Network of Alaska (GINA)
 - International Arctic Research Center (IARC)
- **Non-Governmental Organizations (NGOs)**
 - Arctic Ocean Observing System (AOOS)
 - Arctic Research Mapping Application (ARMAP) - Nunatech Consulting
 - North Pacific Research Board (NPRB)
 - North Slope Science Initiative (NSSI)
- **Cooperatives/Joint-Ventures**
 - Arctic LCC



ADIWg ISO Metadata Requirements



- Adoption of ISO 19115-2 as standard for ADIWg
- Share high investment cost for comprehension and implementation
- Support diversity of requirements and implementation skills across ADIWg membership
- Transition existing project metadata standard to ISO

Project Objectives



- **Eliminate necessity to learn ISO 19115 family of standards**
- **Make it easier for organizations to:**
 - Achieve ISO compliance
 - Integrate ISO support into local applications and services
 - Implement custom web services with ISO metadata capability
- **Host a public web service for generation of ISO metadata records**
- **Support both project and data metadata in ISO**
- **Host a public web app for PIs to enter and edit metadata**



Project Scope



- Support creation of *original* metadata records
- Portable, open source code library for developers
- Create a user-friendly metadata preparation tools
- Accommodate diverse needs and technical abilities
- Extensible (create metadata in multiple standards)

Out of Scope

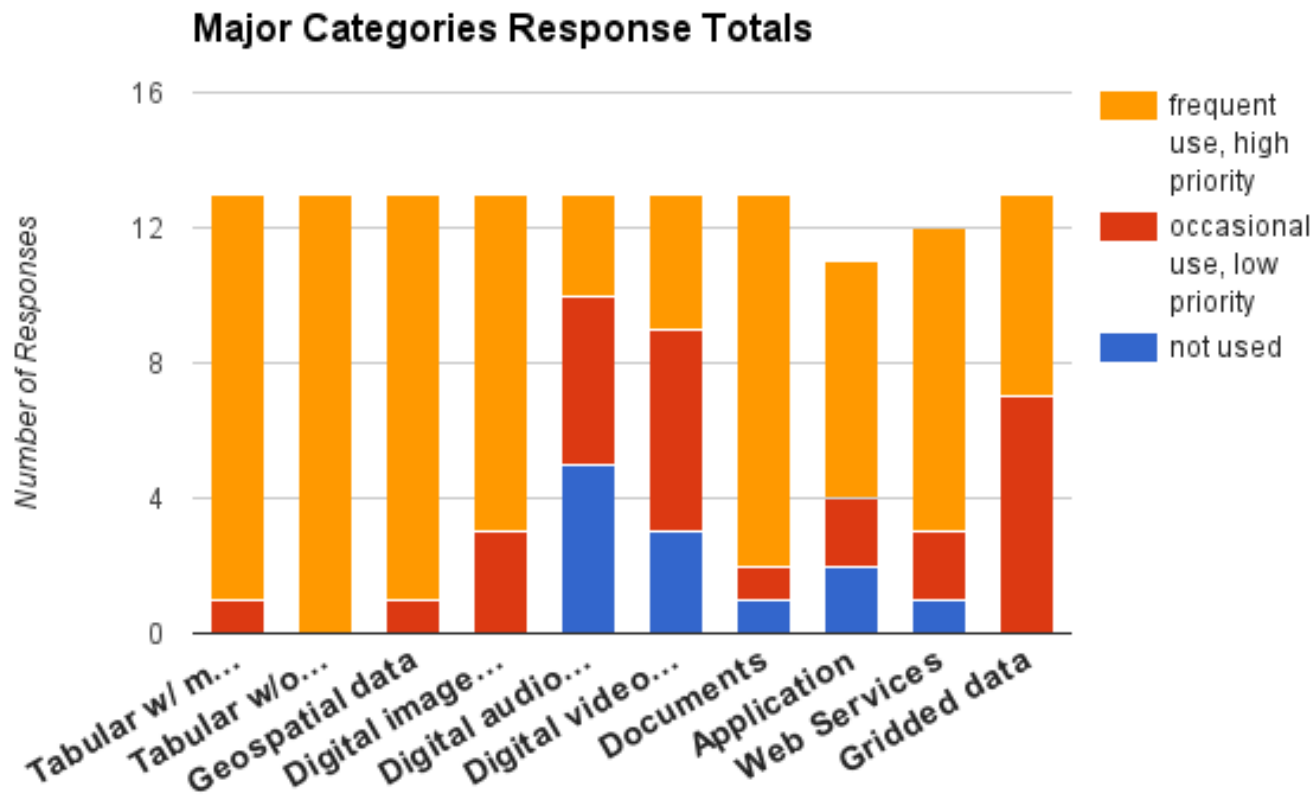


- Metadata clearinghouse
- Translation between XML metadata standards (e.g. FGDC->ISO)
- Provide metadata snippets to other metadata tools

Choosing a Standard



Polled members for types of data produced



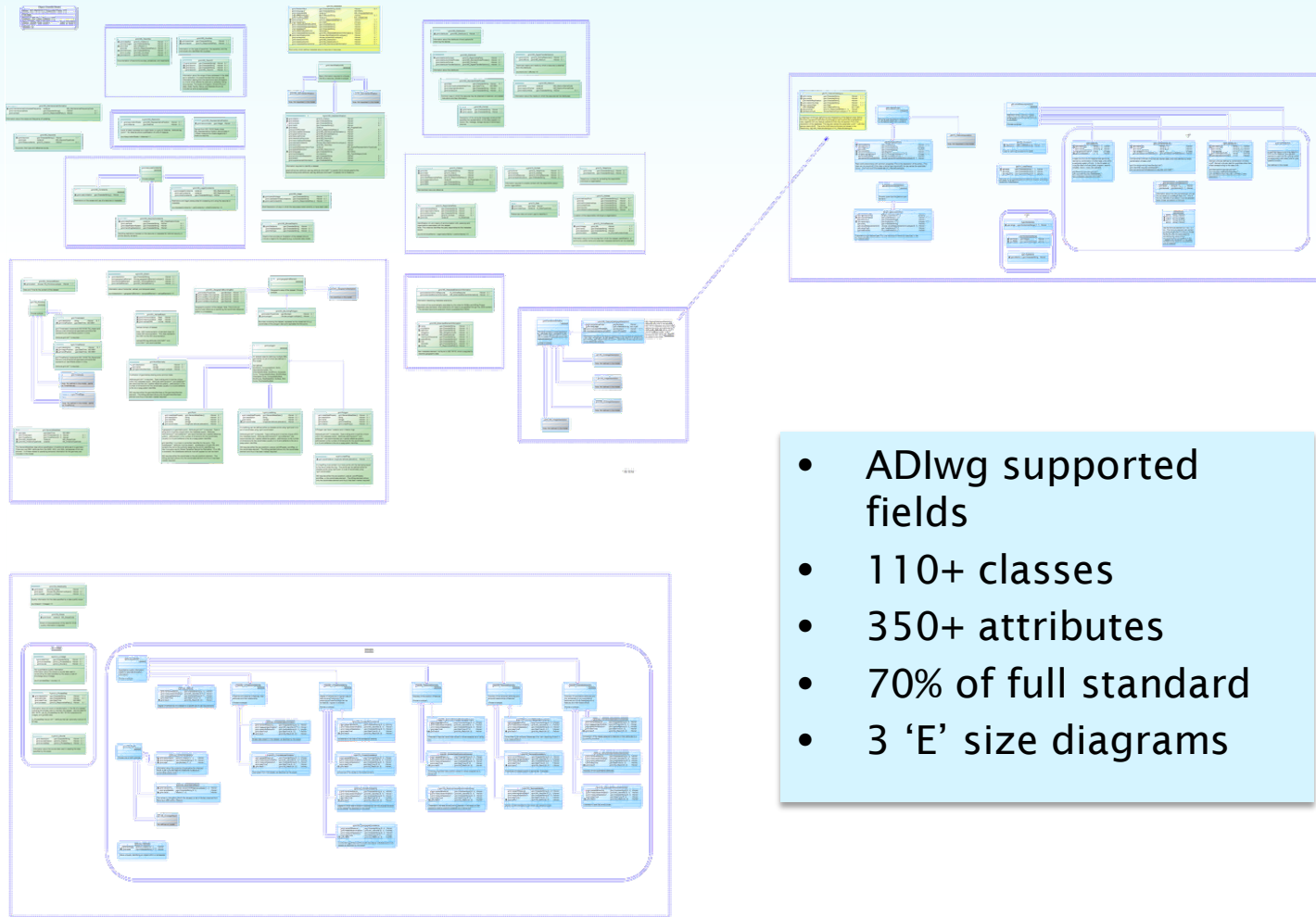
Choosing a Standard



- Defined metadata content requirements
- Analyzed common standards for best solution
 - FGDC, Dublin Core, EMI, ISO
- Selected ISO standard



Supported ISO Fields



- ADIwg supported fields
- 110+ classes
- 350+ attributes
- 70% of full standard
- 3 'E' size diagrams

ISO Metadata Toolkit



- Transition to branded open source project
- Core Alaska group from ADIwg
- Growing participation from interested parties
- Sponsorship from CDI and NCCWSC