ADIwg Update

2013-15 making ISO metadata accessible

May 12, 2014 Stan Smith, USGS

mdTranslator Project Objectives

- Help organizations become ISO compliance
- Eliminate the necessity developers and users to learn the ISO 19115 family of standards
- Make it easier for organizations to integrate ISO metadata functionality into local systems
- Make it easier for organizations to integrate ISO metadata functionality into custom web applications
- Provide an end-to-end online ISO metadata tool for small organizations and independent users

ADIwg Current Participants



Mission: "The Alaska Data Integration Working Group (ADIwg) was formed to examine and address the technical barriers to efficiently integrate and share data within and among participating organizations."



Federal



DOI: BLM, BOEM, NPS, USFS, USFWS, 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 Slope Science Initiative (NSSI)



Cooperatives/Joint-Ventures

Arctic LCC



Others Following ADIwg Progress

- SAON Sustaining Arctic Observing Networks
- ADCN Arctic Data Coordination Network
- PGC Polar Geospatial Center
- HDF Group
- ACADIS Advanced Cooperative Arctic Data and Information Services
- IARC International Arctic Research Center
- BAID Barrow Area Information Database
- IASOA International Arctic Systems for Observing the Atmosphere
- IARPC Interagency Arctic Research Policy Council
 - Terrestrial Ecosystems Implementation Team (TEIT)
 - Arctic Data Implementation Team (ADIT)
- SEARCH Study of Environmental Arctic Change
- NCCWSC National Climate Change & Wildlife Science Centers

ADIwg 2012 Activity Timeline

Finished project metadata implementation

January

Decision to adopt ISO 19115 family of standards for data metadata

Analysis of data types and usage patterns within ADIwg

Analysis and strategy documents for working with ISO 19115-2 and 19110

> Proposed subset of the full ISO standard for initial

implementation

Alaska Interagency Working Group support

December

ADIwg 2013 Activity Timeline

Approved ISO field subset for initial implementation

January

Verified subset supports translation to non-ISO metadata standards

Proposed joint development effort to implement ISO tools

SAON, others request updates on project metadata standard development

Adopted JSON to ISO translation architecture

Received funding from NCCWSC for initial translator development

Split ADIwg into two working teams; ISO project metadata, ISO data metadata

Translator prototype completed & functional

Decision to base new project metadata schema on ISO, share translator

December

Planned 2014 Activity Timeline

January

Build new ADIwg website structure to support open sourcing of ADIwg metadata standards and tools

http://www.adiwg.org ✓



Online documentation of ADIwg ISO metadata standards and tools

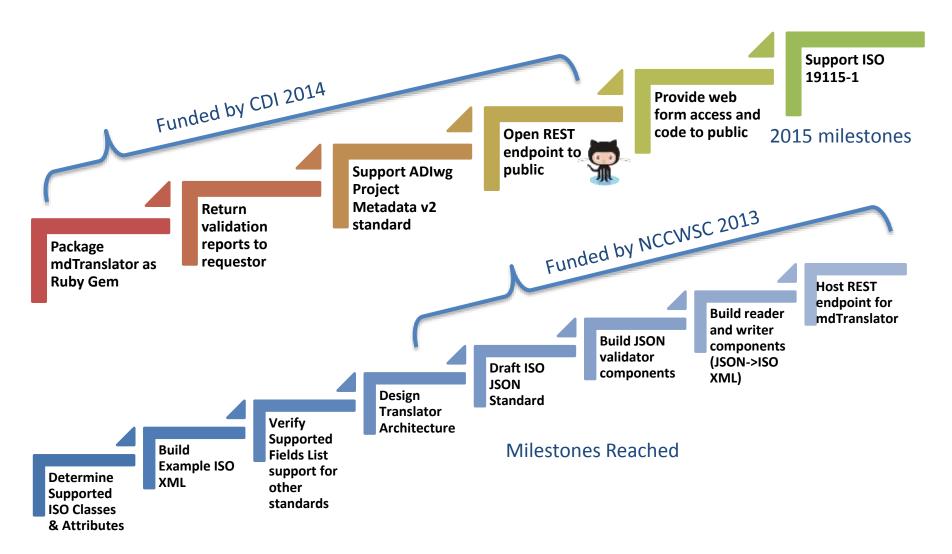
Finalize mapping of project metadata standard to ISO ✓

Public hosting of mdTranslator tools

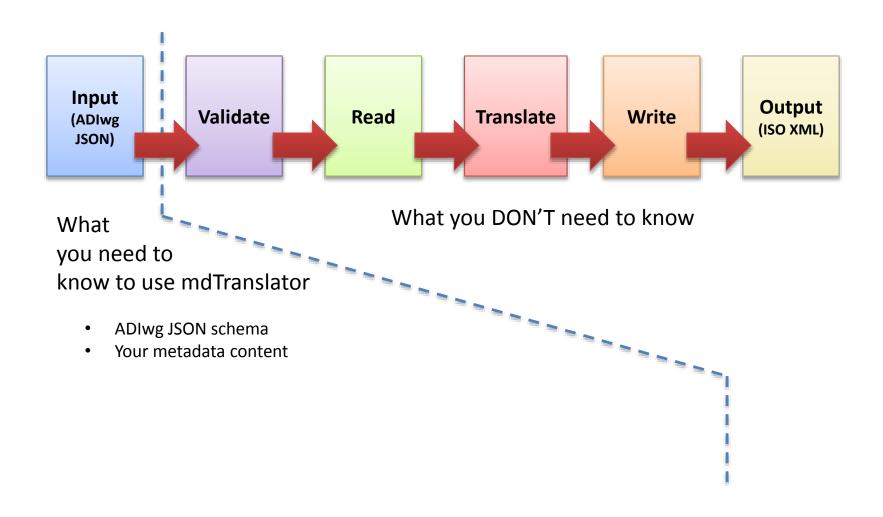
Support generation of ISO project metadata with mdTranslator ✓ Creation of web form for generating metadata from PI's input

December

mdTranslator Development Milestones



mdTranslator Primer

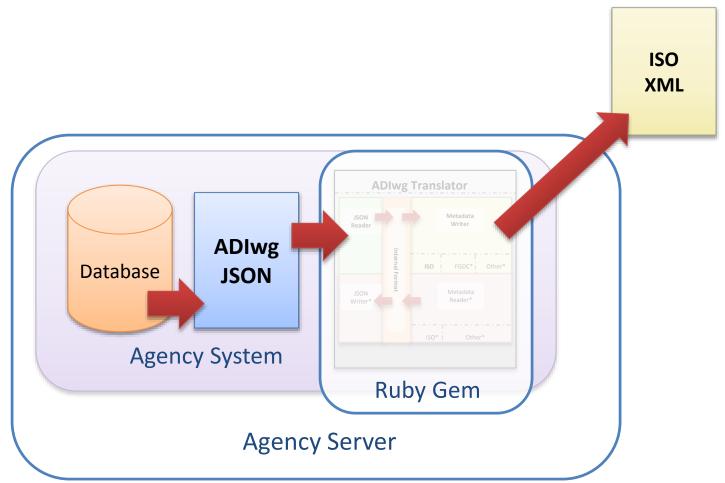


mdTranslator in Practice

1. Translator as: Web Service **ISO XML** World Wide Web **ADIwg Translator** FGDC* Other* **ADIwg JSON Hosted Web Service**

mdTranslator in Practice

2. Translator as: *Integrated System Component*



mdTranslator in Practice

3. Translator as: **Online Metadata Editor/Translator**

