GIS Metadata Training & Outreach Assistance

MIAMI-DADE COUNTY & NSDI

2015

Introduction

- ▶ Name

- ▶ Agency

- ▶ Use of GIS

- ▶ Familiarity with Metadata?

- ▶ Workshop expectation?

Outline

- What is Metadata?

- Value of Metadata

- Metadata quality

- National Geospatial Data Assets (NGDA)

- National Spatial Data Infrastructure (NSDI)

- Geospatial Metadata Standards

- CSDGM & ISO Standards Overview

- Metadata Tools (CSDGM & ISO)

- Use ISO or CSDGM?
    - Break

- Hands-on training using ArcGIS

MIAMI-DADE COUNTY

What is Metadata?

- ▶ Information about the data

- ▶ Who, what, when, where, why and how about data

- ▶ Metadata

Value of Metadata

- ▶ Avoid financial and analysis errors

- ▶ Reduce support efforts and cost

- ▶ Role, restrictions, limitation, etc.

- ▶ Aid data distribution efforts & data users

- ▶ Improve service & decision-making process

- ▶ Value

Quality Metadata

- ▶ Agency standard & level of documentation

- ▶ Difference between essential and operational level of metadata

- ▶ Metadata Review

- ▶ Quality Metadata

NGDA

- National Geospatial Data Assets (NGDA)
  - Coordinate Federal Geospatial assets
  - Support government mission
- Benefits
  - Reduce cost and duplication
  - Promotes Accessibility
  - Data sharing
  - Greater return on investment: reuse data, application & tools.
  - Etc...
- NGDA

- Biota
- Cadastre
- Climate & Weather
- Cultural Resources
- Elevation
- Geodetic Control
- Geology
- Governmental Units
- Imagery
- Land Use – Land Cover
- Real Property
- Soils
- Transportation
- Utilities
- Water – Inland
- Water – Oceans & Coasts

NSDI

- National Spatial Data Infrastructure (NSDI)

  - Federal Geographic Data Committee (FGDC) leadership role in geospatial community.

  - Presidential Executive Order 12906 (A-16)

  - State of Florida Rule 1B-26.003, *Florida Administrative Code*

  - Collaboration of governmental, private, non-profit and academia agencies.

  - Vision: reduce geographic data duplication effort, improve quality and reduce cost among agencies.
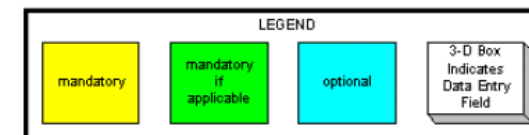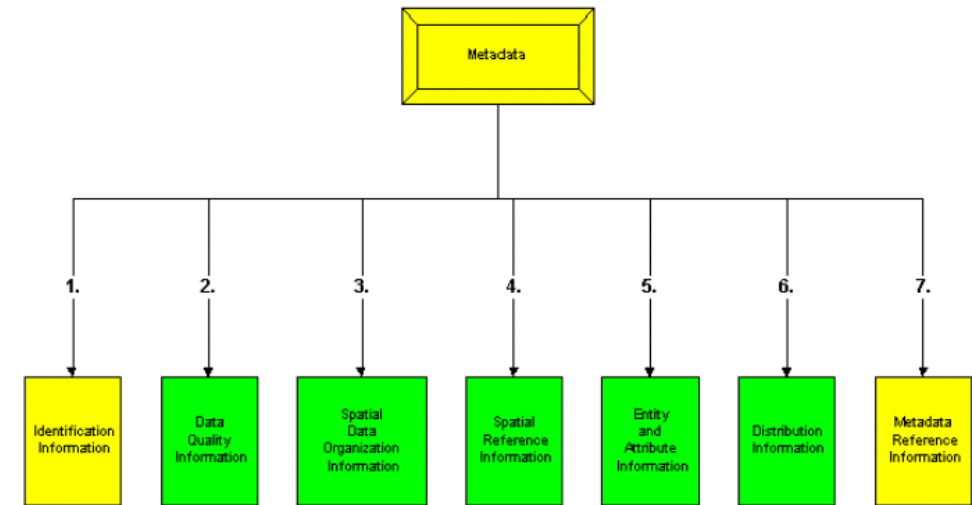
NSDI cont.

- Source: technology, policies, criteria, standards and promote geospatial data sharing.

- Role: Provides structure of practice and relationship among data producers and users.

- Set of actions and new ways of accessing, sharing and using data geographic data.

- Clearinghouse: points to current and accurate data.

NSDI cont.

- GISInventory.net   (National inventory of data)
  - Search for data
  - Create metadata
  - Publish metadata
  - Identify community-specific resources via theme
  - Post data

- FGDC

- Data.gov (harvest from GISInventory)

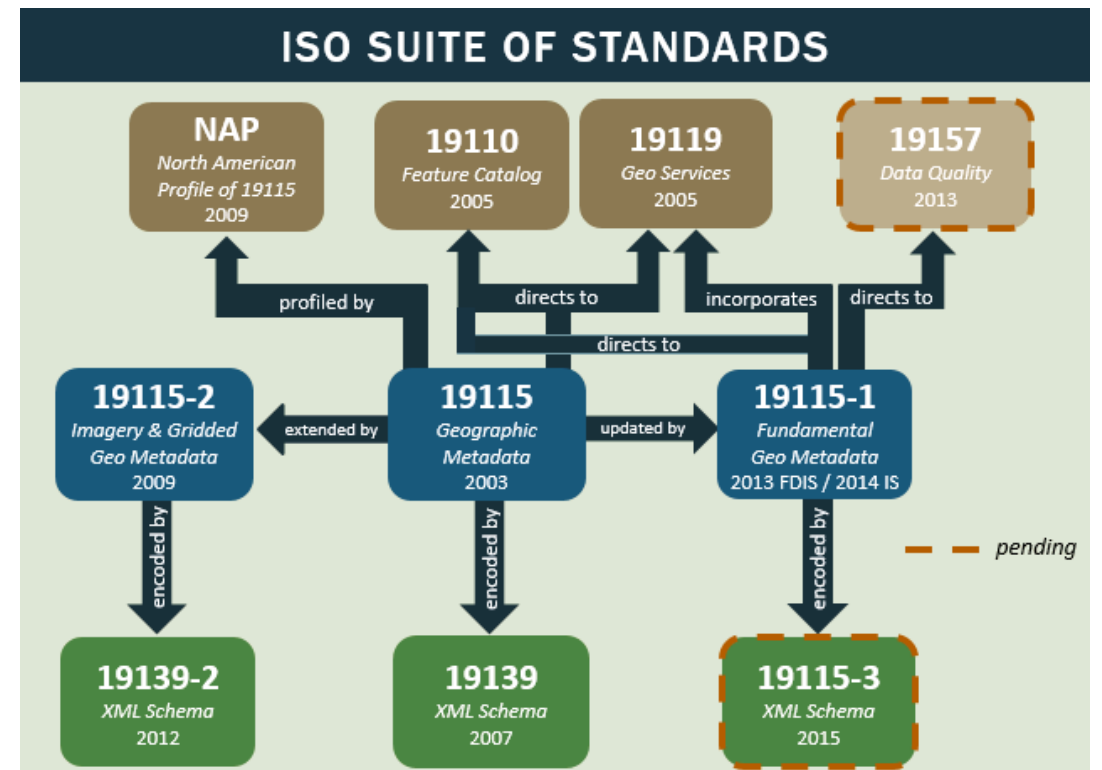# Geospatial Metadata Standards

- Benefits of standards

- Content Standard for Digital Geospatial

  Metadata (CSDGM)

Geospatial Metadata Standards

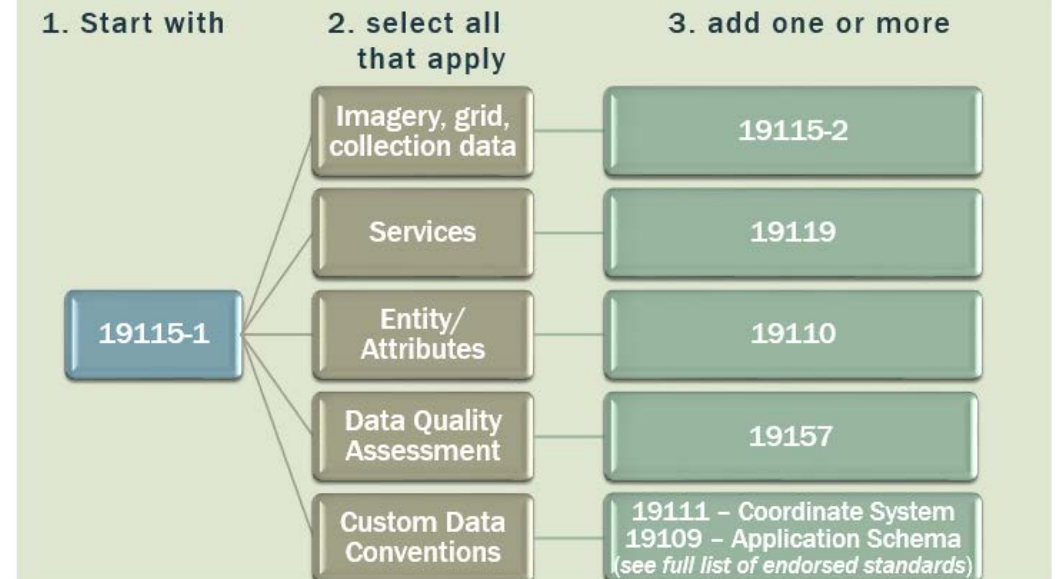▶ International Standard of Organization (ISO)

▶ Geospatial Metadata Standards

Metadata tools

- Metadata Tools (ISO or CSDGM)

    - Freeware

    - Commercial (ArcGIS, etc.)

ISO or CSDGM

▶ [Should you agency use ISO or CSGDM?](#)

3. MODULAR SUITE OF STANDARDS: WHICH SHOULD I USE?

1. Start with	2. select all that apply	3. add one or more
19115-1	Imagery, grid, collection data	19115-2
	Services	19119
	Entity/ Attributes	19110
	Data Quality Assessment	19157
	Custom Data Conventions	19111 – Coordinate System 19109 – Application Schema *(see full list of endorsed standards)*

Questions

▶Break

▶ ## Hands-on training

Using ArcGIS

User: CitrixTraining#

Password: Password

Credits

Many thanks to the Metadata staff at:

    FGDC (Jen, Gita, Lynda and others)

    NOAA

    FGDC site

Materials Miami-Dade County GIS site