

Delta State University CAP Category 6 Project

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Problem

- ▶ Training and awareness of FGDC standards needs a higher profile for implementation of key strategic initiatives such as NSDI
- ▶ Educational materials about FGDC standards are disparate and sometimes difficult to locate
- ▶ The academic community does not emphasize the importance of spatial data standards

Related Issue

- ▶ GIT becomes easier to use every day, but with unintended consequences
 - Quickly growing community of “lay” users unaware of standards and their importance
 - Lack of conformity in data creation and management

Solution

- ▶ Create easy to access and consistent training about FGDC standards in an online format
- ▶ Make training available for free through FGDC website and interested parties (eg., GITA)
- ▶ Each standard presented as a stand-alone module

Solution

- ▶ Individual modules may be combined to create an academic course (3-semester hours)
- ▶ Make curriculum available to higher education institutions for integration into curriculum as desired (eg, adopt individual modules or adopt them all and use them to create a course in FGDC Data Standards)

Standards To Be Covered

- ▶ Introductory module (Why Standards?)
- ▶ US National Grid
- ▶ Cadastral
- ▶ Orthoimagery
- ▶ Address Content Standard
- ▶ Concluding module (focus on implementation)

Work Plan

- ▶ Identify existing materials on FGDC website and work with Vaishal to integrate into current training section
- ▶ Update/create new materials and integrate into modular format
- ▶ Integrate into 3-semester hour course format
- ▶ Disseminate/publish

Approach

- ▶ Student-centered learning
- ▶ Specific learning outcome objectives with focus on
 - Understanding the standard
 - Implementing the standard
 - Resources and methods for being involved in the process for each standard (eg., connect with stewards)
- ▶ Assessment
 - Self-assessment for those learning on own
 - Examination material for formal programs of study

US National Grid

- ▶ Why Use USNG?
- ▶ An Overview of Projections and Coordinate Systems
- ▶ National Map Accuracy Standards
- ▶ The USNG and Fundamental Map Reading Skills
- ▶ Making USNG Maps, Part 1
- ▶ Making USNG Maps, Part 2

Cadastral

- ▶ Purpose and Benefits of the Cadastral Data Content Standard
- ▶ How the Standard Was Developed
- ▶ Other Standards and Related Activities
- ▶ Data Modeling Techniques, Rules, and Diagram Conventions
- ▶ Crosswalks, Translations, and Examples
- ▶ Understanding Compliance with the Standard
- ▶ Maintenance and Support of the Standard
- ▶ One of the optional modules

Orthoimagery

- ▶ Introduction to Orthoimagery
- ▶ Data and Orthoimagery Structures and Formats
- ▶ Data Sources
- ▶ Aerial Extent and Georeferencing
- ▶ Understanding Resolution and Accuracy
- ▶ Data Quality and the Effect of Elevation

Address Data Content

- ▶ Introduction and Understanding the Components of an Address
- ▶ Street Address Data Content, Part I
- ▶ Street Address Data Content, Part II
- ▶ Street Address Data Classification
- ▶ Relational Data Models and Street Addressing Standards
- ▶ Street Address Data Quality
- ▶ Street Address Data Transfer

Partners

- ▶ Cadastral Data Content Standard: Nancy von Meyer, Fairview Industries and US Census
- ▶ Street Address Data Standard: Hillary Perkins, URISA
- ▶ Content Standard for Digital Orthoimagery: Robin Fegeas, USGS
- ▶ Standard for a U.S. National Grid: Tom Terry, USMC and Jules McNeff, Public X/Y Project
- ▶ General subject matter experts supporting this project are Bob Samborski, Geospatial Information and Technology Association (GITA) and Jim Steil, MS Automated Resource Information System and Technical Center (MARIS)

Questions?

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