CAP Category 6 Project: Development of Training Materials For NSDI Support Using OGC Standards

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CAP Category 6 Kickoff Teleconference

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Overview

- Goals
- Personnel and responsibilities
- Source Materials
- Process
- Stakeholders
- Process
- Candidate Curriculum
- Administrative

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Goals

- Develop training modules that inform decision makers and provide practical training for implementors on how to serve their data as part of the NSDI

- Deliver material suitable for presentation by NSDI Online Training Program

- Examples, materials, and issues to focus on the Transportation Theme of the NSDI Framework Data Content Standard

- Six modules, in PowerPoint format, suitable for processing as required (e.g., converted to SCORM) for online delivery of content

- Deliver all modules by end CY 2009 (provisional)

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Personnel

- Phillip Dibner, PI, will coordinate with program managers and stakeholders and develop content

- Review, initial edit, and occasional research will be conducted by OGC staff as appropriate and required

- The appropriate contact for business issues is Jeff Burnett, jburnett@opengeospatial.org

Source Materials

- Documents from 2004 GST/IPE/OGC training classes
- Documents from 2007 PAMAP training program and workshop
- Additional publications, notes, presentation materials from more than 10 years of briefings, conference presentations, training sessions

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Stakeholders

- FGDC Standards Working Group, CAP Program, and other parties in the FGDC, USGS, and other interested agencies
- NSDI Online Training Program
- NSDI Framework Data Content Standard, Transportation Theme, domain experts: Mark Bradford, Paul Scarponcini
- OGC and community
  - Have received statements of interest and offers to review
- General Public, especially potential contributors to the NSDI
- Others, specific or general?

Process

- Stakeholder review and comment on provisional curriculum outline
- Refinement of learning objectives
- Draft lesson plan for each module
- Draft outlines for each proposed module
  - Identify opportunities for further modularization, enabling reconfiguration of material for courses of different content or length
  - Seek to enable substitution of other Themes from the NSDI Framework Data Content Standard
- Development of full drafts for each module
- Iterated review, by stakeholders, and content refinement
- Engagement with NSDI Online Training Program to assist with module design, format, and effectiveness
- Final reviews, edits, and delivery of modules, in PowerPoint format, to NSDI Training Program

Administrative Discussion

- Schedule, milestones, reports
- Question re: copyright. Creative Commons under consideration at OGC / OGCii
- Administrivia re: OGCii

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Candidate Curriculum Outline

- Proceeds from general network service concepts, through data representation and harmonization, to practical aspects of service implementation

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OGC Technology for Delivery of FGDC Standard Data: An Overview

- fundamentals of the OGC Service-Oriented Architecture and interoperable data services

- network configuration and architectural considerations for delivery of NSDI Framework data

- server and client products

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Issues in Data Conversion and Publishing for Support of the NSDI

- issues in compatibility of datasets with published standards
- approaches to harmonization, ontology mapping, and delivery via W*S

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Basic and Simple-Features GML

- a tutorial and training in the basics, with examples from the NSDI Framework Data Standard and the GML Application Schema for the Transportation Framework Theme

WFS Fundamentals: Theory of Operation and Basics of Implementation

- essentials of how WFS works as it relates to publishing
- implementations to support standards-based or legacy data sources

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WMS Fundamentals: Theory of Operation and Basics of Implementation

- essentials of how WMS works as it relates to publishing
- implementations to support standards-based or legacy data sources

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WMS / WFS Advanced Topics

- unified data sources for WMS or WFS operation

- server cascading

- ancillary services: the Styled Layer Descriptor, Feature Portrayal Service