April 17, 2012

National Geospatial Advisory Committee

FGDC Update

Ivan DeLoatch
FGDC Executive Director
ideloatch@fgdc.gov

Topics

◆ Standards Activities

◆ Cooperative Agreement Program (CAP) Awards

◆ Geospatial Cloud Initiative Update

◆ Recent NGAC Recommendations Review

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CMECS Standard

Coastal and Marine Ecological Classification Standard (CMECS)

- For classifying ecological units in simple, standard format using common terminology
- Assures consistent names and descriptions for ecological features
- Accommodates biological, geological, chemical, and physical data in single structure
- Applies to all waters, substrates, and organisms
  - On land from tidal splash zones, intertidal and brackish wetlands, and waters of Great Lakes
  - Down-river/estuary from head of tide
  - Seaward to deep ocean

- Tool for organizing observational information
- Ecological units classified using CMECS can be mapped, compared, or otherwise analyzed with existing, available methods
- Articulates with FGDC standards

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CMECS Standard

◆ Participation from: Federal agencies (NOAA, EPA, USGS, FWS, NPS, BOEM, COE, USDA/NRCS, NASA); State agencies; academia; NGOs; international community (Australia, Canada, Germany, Organization of American States)

◆ 800 comments addressed during review

◆ Coordination Group voted to recommend the Steering Committee adopt the CMECS as an FGDC standard.

◆ An electronic vote on adopting the CMECS as a FGDC standard will be sent to Steering Committee members.

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FGDC Standards Activities, cont'd

◆ National Geodetic Survey (NGS) released the draft Shoreline Data Content Standard for a period of external review that closed Friday, April 13.

  ■ Please send comments to Doug Graham, doug.graham@noaa.gov, of NGS.

◆ GSA is reactivating the Federal Buildings and Facilities Geospatial Data Content Standard project under the leadership of John Sullivan, GSA, john.j.sullivan@gsa.gov

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FY 2012 NSDI Cooperative Agreements Program

◆ Awards announced on April 2

◆ 23 awards were made across 7 categories

◆ Information at http://www.fgdc.gov/grants

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FY 2012 NSDI Cooperative Agreements Program

Category	Organization	Project
Category 1: Metadata Trainer and Outreach Assistance	State of Alaska, Dept. of Transportation & Public Facilities	Alaska - 2012 NSDI CAP – Category 1: Metadata Trainer & Outreach
	Miami-Dade County	Miami-Dade County GIS Metadata Trainer and Outreach Assistance
	Sonoma Ecology Center	Metadata Training and Support for Conservation Practitioners
Category 2: ISO Geospatial Metadata Standards Implementation	Innovate! Inc.	Innovate ISO for EPA and Idaho
	Washington State Department of Ecology	Promoting ISO Metadata Standards Through Application to Puget Sound Nearshore Data

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Category 3: Expanding Use of the GIS Inventory System	Buckeye Hills - Hocking Valley Regional Development District	Appalachian Ohio Geospatial Data Partnership – Collection and Update of Ohio GIS Metadata in Ramona
	Iowa Geographic Information Council	Expanding the GIS Inventory System in Iowa - EGIS Iowa
	Louisiana State University and A&M College	Expanding Louisiana's Use of the GIS Inventory System
	Miami-Dade County	Miami-Dade County GIS Inventory System Expansion
	Towson University	Strengthening the Maryland Statewide GIS Inventory in Ramona

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Category 4: Fifty States Initiative: Business Plan Development and Implementation	Iowa Geographic Information Council	Business plans for Iowa Geospatial Infrastructure framework layers for emergency management applications
	State of Maine, Maine Office of GIS (MEGIS)	Implementation n of Statewide Orthoimagery Business Plan for Maine
	Maryland Department of Planning	Business Plan for Maryland Statewide Parcel Data Development & Maintenance
	Geographic Information Society Nevada Chapter URISA	Business Plan Creation For Statewide Parcel Data and Enhanced Elevation Data for Nevada
	NC Office of the State Chief Information Officer	Developing a Business Case for the North Carolina Master Address Database Maintenance in North Carolina

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Category 5: FGDC-endorsed Standards Implementation Training and Outreach	California Native Plant Society	Integrating the FGDC National Vegetation classification (NVC) Standard with the CNPS/CDFG Manual of California Vegetation, second edition
	State of Washington Dept of Natural Resources	Transitioning to the FGDC Draft Geologic Map Database Standard: A Washington State Geologic Survey Pilot Project
	Carbon Project	Implementation Model Development for FGDC-Standard Cadastral Data - Enabling Seamless Parcel Data Exchange
	Oregon Department of Land Conservation and Development	Building Capacity for Implementation of Distributed Online Metadata Catalogs in the Oregon Coastal and Marine Data Network
	The University of Montana	Enhancing Wetland Classification for the FGDC Wetland Mapping Standard in Montana

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Category 7: Geospatial Platform Cloud Service Testbed	Coeur d'Alene Tribe	NSDI/Coeur d'Alene Tribe Geospatial Platform Cloud Service Testbed Project
	Indiana Office of Technology	IndianaMap Cadastral Cloud Implementation
	Towson University	Assessing the Potential Benefits of Hosting Maryland's Basemap in the Cloud

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GeoCloud-II Kick-Off

◈ Selected ten projects that will be deploying either ArcGIS Server or OpenGeo Suite using secure Amazon Web Services in partnership with HHS and eGlobalTech.

◈ Focus this year is on deployment of common software 'platforms' for shared security certification and Web Services for geospatial data to be registered with the Geospatial Platform.

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GeoCloud Projects, 2012

- Web-Based Vector Feature Editing of the NHD (USGS)
- School District Demographic Data System (Dept of Education)
- Administrative Forest Boundary Data (USDA USFS)
- Farm Service Agency Imagery - NAIP (USDA FSA)
- TIGERWeb (Census)
- StreamStats (USGS)

- Inland Electronic Navigation Chart (IENC) data set (USACE)
- Wildlife Data and Mapping, Joint Services (FWS/USGS)
- Civil Applications Center Global Fiducials (USGS)
- GeoMine Project (OSM)
- GeoNode (NOAA)
- General Land Office Proposal (BLM)

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GeoCloud-II: Next Steps

◆ Providing training for projects;

◆ Preparing the two latest suites for deployment by the projects;

◆ Documenting and costing the projects;

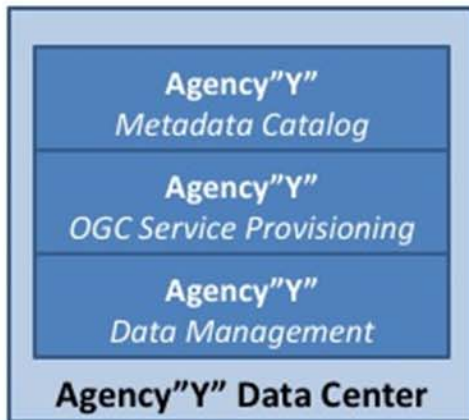◆ Begin deployment.
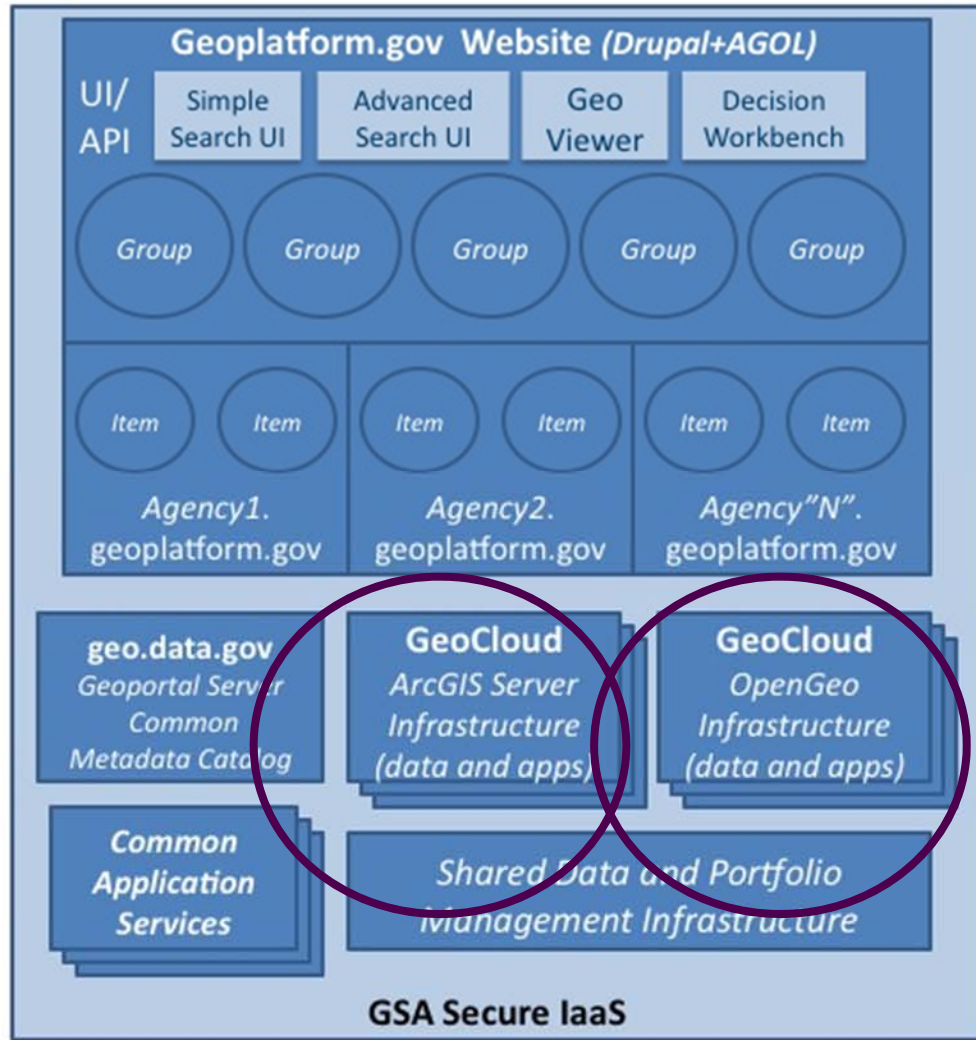
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GeoCloud-II Update

- Cloud security telecon scheduled on April 25 between agency IT security officers and Amazon to review latest security package for accreditation

- OpenGeo and ArcGIS images are being tested for re-use. Three demo projects are working with scripting and documentation to go online (Dept of Ed, USGS CAC Global Fiducials, and Arctic SDI)

- 12 federal projects and three state projects (CAP awards) are participating in GeoCloud

- Project performance date extended to February 2013 due to delays in signing IAA at HHS

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Internal Agency Platforms

Geospatial Platform "To Be" Architecture

Agency"X" ArcGIS Portal

Agency"X" Metadata Catalog

Agency"X" ArcGIS Server

Agency"X" Data Management

Agency"X" Data Center

Agency"Y" Metadata Catalog

Agency"Y" OGC Service Provisioning

Agency"Y" Data Management

Agency"Y" Data Center

Geoplatform.gov Website (Drupal+AGOL)

UI/API | Simple Search UI | Advanced Search UI | Geo Viewer | Decision Workbench

Group | Group | Group | Group | Group

Item | Item | Item | Item | Item | Item

Agency1. geoplatform.gov | Agency2. geoplatform.gov | Agency"N". geoplatform.gov

geo.data.gov Geoportal Server Common Metadata Catalog

GeoCloud ArcGIS Server Infrastructure (data and apps)

GeoCloud OpenGeo Infrastructure (data and apps)

Common Application Services

Shared Data and Portfolio Management Infrastructure

GSA Secure IaaS

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NGAC Appointments

2012 NGAC Call for Nominations

- 10 of the 28 current NGAC appointments expire 12/31/12

- FGDC will hold open briefing on nomination process – May 2012

- FGDC will issue Call for Nominations in May/June 2012

- Information will be posted on NGAC website

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NGAC Recommendations

◆ NGAC products, feedback, and recommendations – both formal and informal - have been helpful to the FGDC in a variety of ways:

- NGAC feedback on initiatives like the Geospatial Platform and Line of Business have helped shape the strategic direction of the projects

- Products such as the best practices papers for data sharing and local government geospatial programs have been helpful and well received

- NGAC recommendations on STEM education were provided to Administration's STEM Committee – providing very timely input

- The comments the NGAC provided on the A-16 Supplemental Guidance helped shape the final version issued by OMB

- NGAC recommendations (e.g., Landsat, LightSquared) have been helpful to FGDC and DOI

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NGAC Recommendations, cont'd

◆ **NGAC Feedback on Geospatial Platform:**

- NGAC comments on Modernization Roadmap and Value Proposition helped shape final documents and influence the strategic direction of the Platform

- Other NGAC products, such as Geospatial Policy Benefits Paper, were foundational material for development of Platform proposal.

- NGAC Platform subcommittee met on April 11 and provided initial reactions to Platform Business Plan

- Subcommittee will provide more detailed comments by early May

- FGDC looks forward to continued, productive engagement as Platform is developed.

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NGAC Recommendations, cont'd

◆ Summary of NGAC recommendations and FGDC actions included in read-ahead materials and has been posted on website

◆ FGDC will continue to update this summary and report back to NGAC.

◆ NGAC suggestions on how to improve this report are welcome

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QUESTIONS?

www.fgdc.gov