

NATIONAL GEOSPATIAL ADVISORY COMMITTEE MEETING
December 7-8, 2010
Minutes

The National Geospatial Advisory Committee (NGAC) held a public meeting from 8:30 a.m. to 5:15 p.m. on December 7, 2010 and from 8:30 a.m. to 4:00 p.m. on December 8, 2010. The meeting was held at the American Institute of Architects (AIA) in Washington, DC. In accordance with the requirements of the Federal Advisory Committee Act, the meeting was open to the public.

NGAC Members present:

Anne Hale Miglarese (NGAC Chair)
Steven Wallach (NGAC Vice-Chair)
Sean Ahearn
Robert Austin
Dick Clark
David Cowen
Jack Dangermond
David DiSera
Dennis Goreham
Randy Johnson
Randall Johnson
Jerry Johnston
Barney Krucoff
Xavier Lopez
Kimberly Nelson
Jack Pellicci
Cynthia Salas
Eugene Schiller
Christopher Tucker

NGAC Members not present:

Sophia Beym
Kass Green
Timothy Loewenstein
Matthew O'Connell

Ivan DeLoatch, Designated Federal Officer (DFO) for the NGAC, and Karen Siderelis, Geospatial Information Officer for the Department of the Interior, were also in attendance.

Other Attendees:

Joy Adams (AAG), Cliff Allison (NAVTEQ), Jeanette Archetto (Grant Thornton), Wendy Blake-Coleman (EPA), Nancy Brelos (Pictometry), Talbot Brooks (Delta State University), Bill Burgess (NSGIC), John Byrd (MAPPS), Michael Byrne (FCC), Pat Cummins (ESRI), Dave DiBiase (Penn State University), Erin Engle (Library of Congress), Brady Foust (CoreLogic), Hank Garie (Grant Thornton), Deepak Hathiramani (Vistrionix, Inc.), Marten Hogeweg (ESRI), Steve Jackson (NGA), Dennis Klein (Boundary Solutions), Roy Kolstad (NAVTEQ), James Kwolek (NGA), Roxanne Lamb (FGDC), Tony LaVoi (NOAA), Butch Lazorchak (Library of Congress), Arista Maher (FGDC), John Mahoney (FGDC), Juan Marin (FCC/Computech), Keith Masback (USGIF), David McClure (GSA), John Palatiello (MAPPS), Kevin Pomfret (LeClair Ryan), Mark Revell (AAG), Milo Robinson (DOI), Bob Samborski (GITA), Howard Schuster (CoreLogic), Lea Shanley (National Research Council), Jon Sperling (HUD), James Stephen (Lockheed Martin), James Stephens (Lockheed Martin), Ken Shaffer (FGDC), Larry Sugarbaker (USGS), Gita Urban-Mathieux (FGDC), Bill Wilt (GeoEye)

TUESDAY, DECEMBER 7**Call to Order and Welcome**

NGAC Chair Anne Hale Miglarese called the meeting to order at 8:30 a.m., welcomed the Committee members and audience to the meeting, and summarized the meeting agenda. She also noted changes to the NGAC membership – Allen Carroll, Bull Bennett, and Jay Parrish have each changed positions and will no longer serve on the NGAC. The Chair noted that their contributions to the NGAC were much appreciated. Ms. Miglarese indicated that an opportunity for public comment would be provided during the morning of December 8. The ground rules for the meeting were explained to the members by the Chair.

Review and Adoption of September 2010 Meeting Minutes

Ms. Miglarese reviewed the draft minutes from the June 2010 NGAC meeting and called for approval. Minor corrections were made to the draft minutes.

DECISION: The NGAC adopted the minutes of the September 2010 meeting.

Geospatial Platform: Status of the Initiative

Karen Siderelis, Geospatial Information Officer of the Department of Interior provided an update on current activities in support of the Geospatial Platform initiative and summarized Platform activities since the September NGAC meeting.

Following completion of the Geospatial Modernization Roadmap Version 3 in August 2010, the FGDC initiated a broader stakeholder engagement process, which included the following elements:

- IdeaScale social media website (<http://geoplatform.ideascale.com>), which promotes dialogue and user ideas, comments, and voting
- Targeted e-mails to stakeholders and partners
- Webinars and conference presentations

- Outreach through the GeoPlatform.gov website (<http://www.geoplatform.gov>)

Ms. Siderelis discussed the Platform business model, which consists of four major components: the offering, the business institution, customers, and financial approach. She also noted that the designation of a managing partner for the Platform is under continuing discussion within the FGDC and OMB.

Ms. Siderelis also noted that the NGAC Intergovernmental Subcommittee has been established as an interim body to provide advice and recommendations in the development of the Geospatial Platform. Jerry Johnston has agreed to serve as Chair of this Subcommittee. Members include Sean Ahearn, Sophia Beym, Dick Clark, Randy Johnson, Barney Krucoff, Anne Miglarese, and Gene Schiller.

The next steps on the Geospatial Platform were discussed, including the following: continuing outreach and communications efforts, publishing the Platform Roadmap Version 4, designating the managing partner, refining the business model, enhancing the governance approach, addressing technical implementation issues, and inventorying potential content.

GSA as a Potential Partner in the Geospatial Platform

Dr. David McClure, Associate Administrator for Citizen Services and Innovative Technology at the General Services Administration (GSA), addressed the Committee on creating a cloud-based Geospatial Platform. He noted GSA's focus on informational analytics and making better use of information. He also stressed the importance of trusted data and services, and noted that the Geospatial Platform concept addresses this need.

Dr. McClure noted that GSA has a lead role in cloud computing for the Federal government. GSA has a history of providing common solutions and services across the government. Some of the benefits of cloud computing include faster acquisition and deployment of computing resources, economies of scale through easier sharing of IT services across organizations, and lower capital equipment expenditures. Dr. McClure indicated that cloud computing is also a key OMB priority. Security, standards, and funding are three of the most important components that need to be considered within each agency when adopting cloud computing models. The Federal Risk and Authorization Management Program (FedRAMP) has been established to create a centralized security certifications service with respect to cloud computing services and products. Additionally, there have been budget requirements established to allow for cloud computing and alternatives analysis within the budget process.

The Federal Cloud PMO was discussed. Relationships between government agencies, vendors, and the CIO Council are integral to the Federal Cloud environment. GSA has created the Apps.gov storefront as a marketing concept. Info.Apps.gov is used to create a one-stop environment for agencies to discover services, best practices, and tools for navigating cloud opportunities. Apps.gov facilitates the process of buying services (e.g., software-as-a-service, infrastructure-as-a-service, etc.) as a utility.

Security is a significant concern related to Federal cloud activities. GSA is working with a variety of partners to coordinate security solutions across the Federal government. GSA is working to develop a repository that allows certifications to be completed with a vendor, transparency in how this is completed, and the ability to leverage across agencies. GSA has also transitioned to Google email (Gmail). GSA is working on BPA allowing cloud email to be implemented across the Federal government.

Geospatial Platform: Role of Intergovernmental Subcommittee/Discussion of Key Issues

The objective of this discussion was to discuss the role and scope of the NGAC Intergovernmental Subcommittee and to solicit NGAC input on key Platform development and implementation issues. The NGAC members broke out into groups and discussed specific topic areas related to the Platform. The following is a summary of the ideas and concepts developed by each of the break-out groups:

Group 1 (Austin, Clark, DiSera, Lopez, Salas)

- Southwest Florida Water Management District has an excellent model
- Parcel Land Registry Data
- Transportation for the Nation (TFTN) and sharing of highway data among states
- Emergency response data/plans
- Problem-centric datasets need to be improved upon
- Like the crowd-sourcing model. 85% of infrastructure is held by private companies.
- Digital Globe-like licensing that allows for data sharing in a disaster
- Access to cloud services should be based on contributions – you don't give, you don't get
- Data accessibility in major regions (coordinating with regions and areas further away from your own region).
- Imagery for the Nation (IFTN) data should be made available to states/localities – want a “seat at the table” to allow their voices to be heard

Group 2 (Ahearn, Dangermond, DeLoatch, Johnston, Schiller, Tucker)

- Community geospatial cooperatives (federal, state, local, tribal)
- Transactional Data (roads and parcels; a community TIGER; Open Street Maps)
- Collaborative Data Products for Projects (region based, hydro and imagery)
- Metadata (standardized template for data; common ontologies)
- Data Sharing Environment (give-get situation)
- Incentivized Program (positive funding mechanisms, savings on infrastructure)

Group 3 (Cowen, Krucoff, Pellicci, Schell, Wallach)

- Real-time data
- Building, addresses, streets, parcel data (already have, or could jointly develop)
- Archived data for disaster recovery (to speed recovery efforts)
- Grants as incentives (guidelines, e.g., broadband grants)
- Change detection
- Geospatial Visualization Services at NGA (GV-ES) – these types of efforts need to be funded nationally and locally
- Recognize and reward data sharing
- Marketing. Can we find it in a central location like a website?

Group 4 (Goreham, Randall Johnson, Miglarese, Nelson, Siderelis)

- NSGIC's RAMONA inventory – why is this advantageous? Why do states use it?
- Gap in Tribal issues – what is something similar to RAMONA that tribes could use?
- National Geocoding Services.
- Applications that are organized by mission (environment, health, etc.)

Executive Committee Panel Discussion

The NGAC held a dialogue with members of the FGDC Executive Committee (ExCom) to discuss the next phases in implementing the Geospatial Platform. ExCom members were asked about the timeframe for the Federal Segment Architecture Methodology (FSAM) to be issued as guidance. The Platform technical architecture team is currently working to examine areas that can be improved to make the FSAM more holistic.

The NGAC agreed on the following initial activities for the Intergovernmental Subcommittee:

ACTION: The NGAC Intergovernmental Subcommittee will review and provide feedback on the following issues:

- Are there specific offerings (data, services, applications) available from State/Regional/Local/Tribal governments that should be pursued for integrating with the Federal Geospatial Platform in the short term?
- What are the incentives that the Federal government should consider providing to encourage non-Federal contributions to the Platform?
- What are the best mechanisms for identifying ongoing requirements for the Platform and potential contributions to the Platform from our State/Regional/Local/Tribal partners?

National Broadband Map

Michael Byrne of the Federal Communications Commission (FCC) provided a briefing on the development of the National Broadband Map and sought feedback from the NGAC on the need for related mobile applications. Data integration, quality measurement, and creating a broadband map are FCC's three functions with respect to the National Broadband Map. Authority comes from the American Recovery and Reinvestment Act of 2009 (ARRA) and the Broadband Data Improvement Act (BDIA). The National Telecommunications and Information Administration (NTIA) is responsible for creating and maintaining a National Broadband Map. The map must be "online, searchable, and interactive." NTIA and FCC entered into a partnership to help produce the map. Five-year grants were awarded to states and territories for assembling and collecting the data. Mr. Byrne and the NGAC members also discussed potential mobile applications related to the National Broadband Map.

ACTION: NGAC members are encouraged to provide additional suggestions to FCC on potential mobile applications for the National Broadband Map.

Emerging Technologies: Federal GeoCloud Initiative

Doug Nebert (FGDC) provided an overview of the Federal GeoCloud Sandbox Initiative. The GeoCloud Sandbox Initiative was created as an FGDC Architecture and Technology Working Group activity in December 2009, with a call to federal agencies to nominate geospatial applications for testing in the Cloud environment for a one-year prototyping process coordinated by FGDC and GSA. Eleven projects

were nominated by federal agencies as existing projects with existing software suites to be deployed in commercial- or government-hosted Cloud environments. Two deployment environments (platforms) were drawn from the example projects: an open source service stack on Linux64, and a commercial service stack on Windows. The projects are as follows:

- NWI Wetlands Mapper
- US Census TIGER/Line Downloads
- Integrated Ocean Observing System Catalog and Viewer (NOAA)
- NOAA ERDDAP
- EPA Lakes and Ponds
- USGS National Elevation Dataset (NED) service and data
- USGS National Map Tile Cache
- Particles in the Cloud (NOAA) particle tracking computational service for air or water dispersion/diffusion
- GEOSS Clearinghouse Catalog
- USDA FSA or NRCS data service application

The National Map

The NGAC National Map Subcommittee's draft recommendations were discussed by the NGAC. The NGAC approved the following recommendations:

RECOMMENDATIONS: The NGAC approved the following recommendations:

- A key component of the geospatial platform must be an integrated set of foundational data layers for the nation. The National Map (TNM) represents the primary existing effort to provide this service. TNM should focus on providing this foundational data, across a wide range of scales, as its primary purpose, in partnership with an array of data providers in accordance with A-16. The foundational layers should align with the FGDC Framework, with the addition of geographic names.
- Parcels should be incorporated as one of TNM's base data layers. A lead agency or agencies should be identified as federal integrator(s) of parcel data.

Lightning Sessions

Local Government GIS Best Practices

Barney Krucoff presented the draft version of a paper on "Best Practices for Local Government GIS Programs." The paper was developed as a follow-up to the NGAC's discussion with Dr. Raphael Bostic, Assistant Secretary for Policy Development and Research at HUD, at the September 2010 NGAC meeting. The paper, which was developed by Mr. Krucoff and Bob Austin with input from other NGAC members, highlights best practices and success factors for local government geospatial programs.

DECISION: The NGAC adopted the Local Government GIS Best Practices paper developed by the best practices work group.

ACTION: The NGAC will develop a graphics-oriented companion document to supplement the best practices paper.

ACTION: NGAC members are encouraged to distribute the best practices paper within their organizations and communities of interest.

UCGIS Place-Based Geospatial Summit

Sean Ahearn presented on the upcoming UCGIS Place-Based Geospatial Summit, which will take place in February 2011. It will focus on developing a federal/academic GIS partnership/internship program through UCGIS.

Multi-State GIS Cloud Computing RFI

Dick Clark provided a presentation on a Request for Information (RFI) for GIS Cloud Services that was issued by a consortium of Western States in November 2010. The States participating in the RFI were Colorado, Montana, Oregon, and Utah. The RFI will close in December. Mr. Clark will report back on the results at the next NGAC meeting.

FTC Staff Report, “Protecting Consumer Privacy in an Era of Rapid Change”

The NGAC discussed a draft Federal Trade Commission (FTC) Staff Report, “Protecting Consumer Privacy in an Era of Rapid Change.” The discussion included brief presentations by John Palatiello (MAPPs), and Kevin Pomfret (LeClair Ryan).

Mr. Palatiello presented on “Federal Privacy Legislation, Investigation and Regulation – a Threat to the Geospatial Community.” Mr. Palatiello indicated that a series of privacy-related Federal actions in legislation, investigation/enforcement and regulation could result in unintended consequences that may impact the geospatial community, possibly hampering the ability of firms, agencies and organizations to collect, use, share, or apply geospatial data.

Mr. Pomfret spoke about the legal implications of regulatory and legislative proposals. He noted that defining geolocation services or “precise geolocation data” as a new component of “sensitive information” could result in significant adverse impacts to the geospatial community.

Day 1 Wrap-Up/Planning for Day 2

The Chair summarized the day’s events and made announcements regarding logistics and the next day’s meeting.

Adjournment for Day 1

The Chair adjourned the meeting at 5:15 p.m.

WEDNESDAY, DECEMBER 8

Welcome, Summary of Day 1, Overview of Agenda

The Chair convened the second day of the meeting at 8:30 a.m., reviewed the previous day's activities, and provided an overview of the agenda for the day.

FTC Staff Report, "Protecting Consumer Privacy in an Era of Rapid Change," cont'd

Following additional discussion of the FTC report, the NGAC approved the following:

RECOMMENDATION: The NGAC recommends that the FGDC work collaboratively with the Federal Trade Commission (FTC) to seek clarification of language addressing geolocation in the FTC Staff Report, "Protecting Consumer Privacy in an Era of Rapid Change." The members of the NGAC are concerned about the imprecise use of the term "precise geolocation data" in the report. The lack of definition and clarity in the language could cause significant unintended consequences to the geospatial field, resulting in impacts to consumers, government programs, and industry. The NGAC is willing to work with FGDC and FTC, as needed, to help provide the perspective of the geospatial community to this issue.

ACTION: NGAC members will encourage organizations they represent to provide comments on the draft FTC staff report to express concerns about the language addressing geolocation.

FGDC Report

Ivan DeLoatch provided an update on the FGDC's recent activities. Highlights included the following:

A-16 Supplemental Guidance

OMB issued the final version of the Supplemental Guidance to Circular A-16 on November 10, 2010 through a memorandum to heads of agencies from Federal CIO Vivek Kundra. Key elements of the Supplemental Guidance include a portfolio management process, definitions of National Geospatial Data Assets, overview of roles and responsibilities, a data lifecycle process, an investment evaluation strategy, and other reference documents. The document reflects many of the comments provided by the NGAC and by agencies. Mr. DeLoatch thanked Wendy Blake-Coleman (EPA) for her work leading the development of the Supplemental Guidance. For next steps, FGDC is working with OMB and agencies to prepare an implementation plan to comply with the Supplemental Guidance, and agencies will prepare timelines for complying with the Supplemental Guidance. FGDC will work with OMB to select a portfolio management pilot for the FY 2013 budget process. Additional information on the A-16 Supplemental Guidance is available at: <http://www.fgdc.gov/policyandplanning/a-16>

Imagery for the Nation Request for Information

Mr. DeLoatch and Steve Wallach provided a summary of an FGDC-sponsored Request for Information (RFI) for the Imagery for the Nation proposal. The intent of this process was to help shape the IFTN proposal. The RFI closed on August 16, 2010, and 32 responses were received. Those responses were distributed to FGDC partner organizations for review. This feedback was due October 1, and then compiled and integrated. Conclusions included the following:

- No single vendor is currently capable of meeting both the 1m and 30cm requirements because of licensing or capacity issues
- Multiple vendor responses could meet either the 1m or 30cm requirements through teaming efforts
- Existing vendor libraries fail to satisfy the requirements for either the 1m or 30cm due to coverage, currency, and/or licensing issues
- Archive/retrieval capabilities redundant with current government capability
- Licensed data with universal access may be cost prohibitive
- 30cm imagery will not meet state or local government needs in urban areas

Geospatial Standards

In 2010, the FGDC Standards Work Group and FGDC Coordination Group recommended FGDC endorsement of 64 OGC, ISO, and *de facto* standards. The FGDC Steering Committee subsequently endorsed these standards. Additionally, the Address Standard Working Group submitted the final draft of the *United States Thoroughfare, Landmark, and Postal Address Data Standard (Final Draft)* to the FGDC Secretariat on November 10. The FGDC Office of the Secretariat and the Geospatial Intelligence Standards Working Group (GWG) are working toward coordinating their standards processes for common standards. This will help create a single set of common geospatial standards for use across the Federal government and establish a common framework for cross domain capabilities.

FGDC Secretariat and U.S. Geological Survey (USGS) Reorganization

The U.S. Geological Survey recently went through a reorganization process. The FGDC Office of the Secretariat was reorganized under a new discipline, Core Science Systems (CSS). It is one of five sub-disciplines within CSS, which also include: the National Geospatial Program, the National Biological Information Management and Delivery Program, the National Geologic and Geophysical Data Preservation Program, and the National Cooperative Geologic Mapping Program.

NGAC 2011 Appointments Process

The Call for Nominations for appointment to NGAC was issued on July 9, 2010, and closed August 24, 2010 (open for 45 days). Approximately 50 nominations were received and evaluated by an interagency panel, which met in September 2010 and developed recommendations that were submitted to the Department of the Interior's Office of the Secretary. The nominations are currently in review in the Office of the Secretary, and final decisions are expected in January.

ACTION: The Department of the Interior will finalize the next round of appointments to the NGAC in January 2011.

Award Presentation

Ivan DeLoatch presented an award on behalf of the FGDC to Jerry Johnston (EPA), who was named FGDC Champion of the Year. On behalf of the FGDC, Mr. DeLoatch thanked Dr. Johnston for his accomplishments on multiple FGDC initiatives, including the Geospatial Platform.

Public Comment Period

Butch Lazorchak (Library of Congress)

A digital preservation meeting was held in November 2010, primarily including stewards of digital data assets. The meeting was framed by a white paper created by Steve Morris of the North Carolina digital map libraries. The methodologies and criteria for digital preservation were discussed, as well as methods for how these methodologies could be applied to geospatial assets. Additionally, a web portal for digitizing and preserving geospatial data is available online at www.geopreservation.org. There is a draft document posted on the web portal about openness, use, and accessibility of digital geospatial data, primarily geared toward Library of Congress employees. NGAC members and members of the geospatial community were asked to review the document and provide any observations.

Dennis Klein (Boundary Solutions)

Mr. Klein provided observations GSA cloud computing activities, and provided an example of how his company hosts a server for parcel data.

Geospatial Workforce Spotlight Session

The objective of this session was to provide an overview and discussion of current efforts to develop and retain a highly skilled geospatial workforce to meet the expanding needs of both public and private sector organizations. Dave DiSera, Workforce Subcommittee Chair, asked for members' feedback on a Geospatial Workforce strategy paper. The purpose of the paper was briefly reviewed. Sean Ahearn introduced the session's speakers.

Geospatial Industry Workforce Information System

Bob Samborski (GITA) gave a presentation on the Geospatial Industry Workforce Information System (GIWIS). GIWIS is a web-based interactive geospatial server for industry and job information, educational facilities and programs (www.giwis.org). GIWIS was developed through a U.S. Department of Labor grant. GITA's primary collaborator on the project was the Association of American Geographers (AAG). Several other geospatial associations also partnered on this project. A demonstration of the web portal was shown. The objectives of the grant were: 1) developing a constructive definition of the geospatial industry, 2) developing a Web-accessible server of industry, job, and educational information called GIWIS, 3) creating an industry image and outreach campaign, 4) developing a local pilot program for using GIWIS, and 5), and taking steps to ensure the sustainability of GIWIS and the outreach program.

Geospatial Technology Competency Model (GTCM)

Dave DiBiase (Penn State University, National Geospatial Technology Center) presented on Leveraging the Geospatial Technology Competency Model. The Department of Labor notes that there are an estimated 857,000 geospatial workers in the U.S., and a projected need for 300,000 more in the next few years. The Competency Model is available at: <http://www.careeronestop.org/competencymodel/>

National Research Council (NRC) Study on U.S. Geospatial Intelligence Workforce

Lea Shanley presented on the NRC Study on the U.S. Geospatial Intelligence Workforce. Ms. Shanley provided an overview of the study team's tasks. She also noted that academic areas that have traditionally supplied NGA analysts have evolved significantly over the past few decades. Ms. Shanley

noted that Ms. Ann Linn, the NRC study director, can answer specific questions about the study if NGAC members seek any additional information.

Update on USGIF Activities

Keith Masback of the U.S. Geospatial Intelligence Foundation (USGIF) presented on USGIF's recent workforce-related activities. USGIF is a 501(c)(3) educational not-for-profit with over 160 members and a full-time academic director. Mr. Masback spoke about recent activities, including the annual GeoINT Symposium, and a series of workshops that take place in the DC area on niche topics. Mr. Masback noted that there is a pressing need to bolster the GeoInt workforce, both for national security and non-national security programs.

Perspectives on the Federal Geospatial Workforce

Pamela Malam, Deputy Assistant Secretary for Human Capital at the Department of Interior, presented on Perspectives on the Federal Geospatial Workforce. She discussed a variety of strategies DOI is using to address DOI workforce needs, both currently and in the future. She addressed Veterans' hiring programs, and programs for people with disabilities, which she indicated could be very useful to agencies in addressing geospatial workforce needs. She also addressed competency-based hiring models, which are becoming much more prevalent within the Federal system.

ACTION: NGAC members will provide feedback on the draft Workforce Development Strategy Paper to Dave DiSera and Sean Ahearn by January 7, 2011.

Reflections on the NGAC

Anne Miglarese and Steve Wallach led a discussion to identify accomplishments, contributions, and challenges of leading the NGAC during its first three years, and to identify opportunities for the future. Ms. Miglarese thanked the committee members and FGDC staff for their hard work during her term as Chair of the NGAC. She asked the members present whose terms are up to each say a few words about their experiences serving on the NGAC. Mr. Wallach, Ms. Siderelis and Mr. DeLoatch expressed their thanks to the Committee as well.

Award Presentation

Mr. Ivan DeLoatch presented awards on behalf of the FGDC to the outgoing Chair and Vice-Chair of the NGAC. The FGDC and NGAC members recognized Ms. Miglarese and Mr. Wallach for their outstanding contributions to the NGAC as the first Chair and Vice-Chair.

Meeting Summary/Wrap-Up

The Chair and staff summarized action items and decisions from the meeting and provided information about the next scheduled NGAC meeting.

Next Meeting

The next NGAC meeting is planned for March 2011 in Washington, DC. Potential agenda topics include the following:

- New FGDC guidance for NGAC
- Follow-up on Geospatial Platform initiative
- Implementation of new HMDA parcel data requirements
- Follow-up discussion on geospatial workforce planning
- Follow-up discussion on National Broadband Map
- NGAC Subcommittee reports

Meeting Adjournment

The Chair adjourned the meeting at 4:00 p.m.

Certification

I hereby certify that, to the best of my knowledge, the foregoing minutes are accurate and complete.

Anne Hale Miglarese, Chair, National Geospatial Advisory Committee

Ivan DeLoatch, Designated Federal Officer, National Geospatial Advisory Committee

These minutes will be formally considered by the Committee at its next meeting, and any corrections or notations will be incorporated in the minutes of that meeting.

NOTE – These Minutes were approved by the NGAC on March 17, 2011

December 2010 NGAC Meeting Summary of Presentations and Handouts

The following is a list of the presentations and handouts from the meeting. These meeting materials are posted along with the minutes at: http://www.fgdc.gov/ngac/meetings/december-2010/index_html

Geospatial Platform

- Geospatial Platform Update
- Creating a Cloud Based Geospatial Platform
- Intergovernmental Subcommittee Discussion Topics

National Broadband Map

- National Broadband Map Update

Federal GeoCloud Initiative

- GeoCloud Briefing

NGAC National Map Subcommittee

- National Map Subcommittee Recommendations

Best Practices for Local Government Geospatial Programs

- NGAC Paper - Best Practices for Local Government Geospatial Programs

FTC Staff Report: "Protecting Consumer Privacy in an Era of Rapid Change"

- Federal Privacy Legislation-Regulation Presentation
- NGAC - FTC Resolutions

FGDC Report

- FGDC Update

Geospatial Workforce Spotlight Session

- NGAC Workforce Session Overview
- NGAC Workforce Development Strategy Paper DRAFT
- Geospatial Industry Workforce Information System – Samborski
- Geospatial Technology Competency Model – DiBiase
- NRC Study - Future U.S. Workforce for Geospatial Intelligence – Shanley

Reflections on the NGAC

- NGAC Reflections