

**NATIONAL GEOSPATIAL ADVISORY COMMITTEE MEETING**  
**June 9-10, 2015**  
**Minutes**

The National Geospatial Advisory Committee (NGAC) held a public meeting from 8:30 a.m. to 5:30 p.m. on June 9, 2015 and from 8:30 a.m. to 4:00 p.m. on June 10, 2015. The meeting was held at the South Interior Building in Washington, DC. In accordance with the requirements of the Federal Advisory Committee Act, the meeting was open to the public.

**NGAC Members present:**

Robert Austin (NGAC Chair)  
Julie Sweetkind-Singer (NGAC Vice-Chair)  
Talbot Brooks  
Keith Clarke  
Patricia Cummens  
Dave DiSera  
Steve Emanuel  
Joanne Gabrynowicz  
Matt Gentile  
Bert Granberg  
Jack Maguire  
Keith Masback  
Roger Mitchell  
Kevin Pomfret  
Major General William Reddel III  
Douglas Richardson  
Tony Spicci  
Gary Thompson  
Harvey Thorleifson  
Molly Vogt  
Jason Warzinik

Jennifer Gimbel, FGDC Chair, Ivan DeLoatch, Executive Director of the Federal Geographic Data Committee and Designated Federal Officer (DFO) for the NGAC, and John Mahoney, Alternate DFO, were also in attendance.

**NGAC Members not in attendance:**

Steve Coast  
Dan Cotter  
Frank Harjo  
Jack Hild  
Michael Jones  
Jeff Lovin  
David Wyatt

**Other Attendees:**

David Alexander (DHS), David Beddoe (Intergraph Government Solutions), Jay Benforado (EPA), Wendy Blake-Coleman (EPA), Kaile Bower (DOC), John Byrd (MAPPS), Michael Byrne (CFPB), Michael Crino

(USAID), Megha Datta (Geospatial Media and Communications, Ltd), Lucia Foulkes (FGDC), Tricia Gibbons (LEAD Alliance), Justyna Goworowska (DOT), Travis Hardy (Ardent), Kristen Honey (AAAS DOE), Jim Irvine (Ardent), Jerry Johnston (DOI), Nathan Jones (DOC), Jennie Karalewich (DOC), Lauren Kirsch (DOC), Butch Lazorchak (Library of Congress), Steve Lewis (DOT), Lynda Liptrap (DOC), Stephen Lowe (USDA), Vicki Lukas (USGS), Mikel Maron (State Department), Barbara Martinez (EPA), Thomas Meyers (Ardent), Ian Millett (DOC), Phoenix Mourning-Star (NSF), Heather Neisworth (Ardent), Tim Newman (USGS), Mathew Paez (BGIS), Bhanu Rekha (Geospatial Media and Communications, Ltd), Ciara Ross (FHWA), Tom Roff (FHWA), Ken Shaffer (FGDC), Lea Shanley (NASA), David Smith (EPA), Dru Smith (NGS), Jon Sperling (HUD), John Steffenson (ESRI), Joshua Stone (MCIS), Tim Trainor (DOC), John Von Holle (International Association of Fire Chiefs), Dick Vraga (USGS), Benson Wilder (State Department), Samantha Williams (Institute for Global Environmental Strategies).

### **Wednesday, June 9, 2015**

#### **Call to Order and Welcome**

Dr. Robert Austin, NGAC Chair, called the public meeting to order at 8:30 a.m. and welcomed NGAC members and attendees. Dr. Austin provided an overview of the purpose and objectives of the meeting. Julie Sweetkind-Singer, NGAC Vice-Chair, also welcomed members.

#### **Review and Adoption of March 2015 NGAC Minutes**

Dr. Austin reviewed the draft minutes of the March 17-18, 2015 NGAC meeting and called for approval.

**DECISION:** The NGAC adopted the minutes of the March 17-18, 2015 NGAC meeting.

#### **Leadership Dialogue**

Jennifer Gimbel, Chair of the FGDC, provided an overview of FGDC activities and Administration priorities. She reported progress on the implementation of the NSDI Strategic Plan and the NGDA Management Plan. She noted that the FGDC issued a call for nominations for appointments to the NGAC on June 8. Members were encouraged to share this information within their communities and organizations to notify potential candidates. Ms. Gimbel also discussed the National Address Database and noted the need to work in collaboration with partners at all levels of government.

Ms. Gimbel noted that the Administration has approximately 18 months remaining to make an impact. She challenged NGAC members to identify achievable goals for the next 18 months. She noted that she would make the same challenge to the FGDC community. Ms. Gimbel engaged in a discussion with NGAC members on possible goals for 2016. Comments and suggestions included the following:

- Inventory geospatial groups and prioritize efforts
- National Address Database: Provide recommendations to move forward and address funding issues
- Influence Congressional delegations and educate staffers
- Organize presentations for key decision makers
- Strategic plan for next generation of the National Map
- Coordination with federal agencies to implement 3D Elevation Program
- Promote on geography and geospatial science as STEM disciplines
- Depending on resources, produce videos to communicate geospatial programs and benefits
- Identify counties that don't have geospatial information & target them for development

Ms. Gimbel encouraged the NGAC members to continue brainstorming during the meeting and share suggestions at the FGDC Steering Committee meeting on June 11.

### **FGDC Report**

Ivan DeLoatch provided an overview of current FGDC activities. Highlights included the following:

- Geospatial Interoperability Reference Architecture (GIRA): The FGDC Executive Committee is voting to approve GIRA as a collaborative environment on the Geospatial Platform.
- GAO engagement: The latest GAO report on geospatial programs was released in March 2015; it included nine recommendations, four specific to FGDC. A letter is being drafted from the FGDC Chair to the action leads directing their execution of the recommendations.
- FGDC Steering Committee Meeting: The agenda of the June 11 FGDC Steering Committee meeting was reviewed. Topics included:
  - FGDC Current Activities
  - National Address Database and GAO Response
  - Geospatial Platform, NSDI Strategic Plan Implementation, and NGDA Management Plan
  - Report on June 9-10 NGAC meeting
  - Inland Water NGDA Theme Report
- National Geospatial Data Asset (NGDA) Management Plan Update: A brief status report on the implementation of the NGDA Management Plan was provided.
- NGAC Call for Nominations: The NGAC call for nominations issued on June 8. Nominations are due by July 17. Nominations received through this announcement may be used to fill vacancies that become available in 2015 and 2016.

### **Geospatial Platform**

Jerry Johnston provided an update on current Geospatial Platform current activities. Capabilities to be available in June were described. He reported that a contract to provide cloud services has been awarded. Recent enhancements to the Geospatial Platform include the following:

- Redesign of the home page
- Expanded performance and portfolio measurement tools
- New web map viewer
- Improved capabilities for map gallery creation and sharing

Dr. Johnston reported that the team has been developing shared data and application hosting infrastructure that can be used for the benefit of all FGDC agencies. Upcoming developments include:

- Knowledge graphs supporting open maps and other platform objects
- Enhanced service quality/status checking and reporting
- Extensive technical architecture development, documentation, and APIs

**ACTION:** FGDC will provide additional information and outreach regarding the call for nominations for appointment to the NGAC.

**ACTION:** FGDC will hold an informational webinar to provide details about the nomination process and to answer any questions. The webinar will be held on Thursday, June 25 from 1:00 – 2:00 pm EDT.

### **Outreach and Communications Subcommittee**

Bert Granberg, Outreach and Communication Subcommittee chair, provided an update on recent activities, including the following:

- Collection of sample communications plans from multiple organizations
- Subcommittee review of draft NSDI communications strategy outline
- Subcommittee meeting and feedback on draft plan outline

Travis Hardy, Ardent MC, provided an overview of the NSDI/Geospatial Platform Communication and Outreach Strategy. Ardent MC is the contractor assisting in the development of the communication and outreach strategy and related implementation plan. The development of the strategy and implementation plan will incorporate stakeholder input and feedback. The draft goals and objectives of the communications strategy were noted as follows:

- **Goal 1:** Promote awareness and value of geospatial data, information and technology developed through the NSDI as critical infrastructure for the Nation.
- **Goal 2:** Promote awareness of and engagement in the core NSDI components, including National Partnerships, Shared Spatial Services and Tools, Data Infrastructure, and Interoperability.
- **Goal 3:** Foster current partner relationships and develop new ones to gain constituent support and leverage partner-messaging vehicles to achieve communications and outreach goals.
- **Goal 4:** Sustain online and social media presence to give easy public access to NSDI and geospatial information.

Mr. Granberg led a discussion of the communication and outreach strategy outline. Discussion topics and comments included the following:

- What audiences do we need to design for?
- What is the value proposition?
- Describe the Federal role.
- Start with the basics -- describe why, how, and what you are doing.
- Communicate through success stories and use cases.
- Describe how the Federal government role will work with other levels of government (communicate that the Feds don't "own" the NSDI).
- Leverage COGO report, raise awareness.

Mr. Granberg noted that NGAC comments on the communication strategy outline are due to the subcommittee by June 19.

**ACTION:** NGAC members will provide feedback and comments on the draft NSDI communications strategy outline to the NGAC communications subcommittee by Wednesday, June 17. The subcommittee will synthesize the feedback and provide consolidated comments to FGDC by Friday, June 19.

### **3D Elevation Program (3DEP) Subcommittee**

Vicki Lukas, USGS, provided an update on the 3D Elevation Program (3DEP). She noted that the USGS geospatial products and services contract draft is being finalized. The contract supports the National Map and may also be used by other Federal, State, and local agencies. Ms. Lukas noted that another area of activity is the Broad Agency Announcement (BAA) for data acquisition. The USGS issued a BAA via FedzBizOps that provides information on how to collaborate with the USGS and other Federal agencies to acquire 3D elevation data. The next BAA release will be in mid-July. Additional information and a BAA meeting schedule is available on the 3DEP Geospatial Platform sharing site at:

<https://www.geoplatform.gov/elevation/3DEP/PublicMeetings>

Ms. Lukas also discussed the 3DEP Executive Forum and the proposed 3DEP governance structure. The next meeting, in summer 2015, will include discussion of the proposed charter and governance process.

Gary Thompson, 3D Elevation Program Subcommittee Chair, provided an update on subcommittee activities. Mr. Thompson provided an overview of the subcommittee's activities to address the 2015 3DEP study questions, which address the following topics.

- NAPA report recommendation
- 3DEP Data Acquisition Coordination
- Emerging LIDAR Technology

Mr. Thompson and Harvey Thorleifson provided an overview of the draft NGAC paper addressing study question 1 (regarding NAPA report recommendations). Following discussion, the NGAC agreed on the following actions:

**ACTION:** The NGAC approved the paper, "NGAC Comments - NAPA Report on FEMA Flood Mapping Program."

**DECISION:** The NGAC approved the following resolution:

"The NGAC endorses the following recommendation in the National Academy of Public Administration's (NAPA) "FEMA Flood Mapping: Enhancing Coordination to Maximize Performance" report:

Recommendation 15: The Office of Management and Budget should use the 3DEP implementation plan for nationwide elevation data collection to guide the development of the President's annual budget request.

The NGAC encourages the FGDC agencies and OMB to consider and take action to implement this recommendation."

### **NOAA National Geodetic Survey (NGS) Geospatial Summit**

Dru Smith of the National Geodetic Survey reported on the Datum Modernization stakeholder meeting held on April 13-14, 2015 in Alexandria, VA. Dr. Smith noted that NGS discussed many technical issues related to the development of new datums to be released in 2022. NGS will provide tools for geospatial users to transition to the new datums. Various coordinate transformation tools were shown and briefly discussed. Mr. Smith pointed out legal issues as follows:

- 48 states have legislated the words "NAD 83"
- Move to generic text: "Most recent coordinates in the National Spatial Reference System"

NGS webinar series were noted as follows:

- Began May 14, 2015
- An expansion of the monthly presentations sponsored by the National Height Modernization Program.
- Visit the Webinar Series Web-site to register, sign up to receive monthly webinar notices, and learn more: [http://www.ngs.noaa.gov/web/science\\_edu/webinar\\_series/](http://www.ngs.noaa.gov/web/science_edu/webinar_series/).

### **National Address Database Summit Meeting Report**

Steve Lewis reported on the National Address Database Summit held in April 2015. The objective of the summit was to identify and discuss possible options for developing a National Address Database. Participants included Federal, State and local governments, tribal organizations, private sector and non-

profit organizations as well as other observers. Summit breakout topics included Business Justification, Leadership & Organizational Approaches, Local Outreach & Assistance, and Data & Technology.

Mr. Lewis provided a summary of the summit outcomes:

- Local authorities are the authoritative source for address assignment and are dataset originators
- State authorities should be statewide aggregators
- Many are already in this role, primarily to support public safety and emergency response
- Tribal authorities must be included in data flow
- Federal leadership and support is needed for a sustainable national approach
- Address the needs of the “have nots”

Next steps were noted as follows:

- Final Report
  - Findings briefed to Summit attendees via webinar to gain their concurrence
  - Delivered within 4-6 weeks, depending on comments
  - Consider developing pilot projects
  - DOT OCIO has identified potential funding
  - Seeking additional Federal partners

Tim Trainor of the Census Bureau also provided an update on the activities of Census to develop the Community TIGER program.

### **Lightning Session 1**

An opportunity for brief announcements was provided to NGAC members and audience members.

#### Butch Lazorchak – Library of Congress

Mr. Lazorchak discussed the National Digital Information Infrastructure Preservation Program that focuses on digital preservation issues of geospatial content. Additionally, Mr. Lazorchak described a new project on geospatial hosting environment at the Library of Congress that will provide new mapping tools and services for users.

#### Megha Datta – Geo Buiz Conference

Ms. Megha Datta discussed the Geo Buiz Conference that will take place on August 10-11, 2015 in Bethesda, MD.

#### Keith Masback – The State of GEOINT

Mr. Masback discussed the 2015 State of GEOINT report, a publication of the United States Geospatial Intelligence Foundation.

### **Day 1 Wrap-up/Adjourn**

Dr. Bob Austin reviewed outcomes of Day 1 of the meeting and made announcements regarding logistics for Day 2.

### **Adjournment for Day 1**

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

## **Wednesday, June 10, 2015 NGAC Public Meeting**

Dr. Austin welcomed NGAC members and attendees and provided an overview of the agenda for the day.

### **Privacy Subcommittee**

Kevin Pomfret, Geospatial Privacy Subcommittee Chair, reported on recent subcommittee activities. He discussed coordination efforts with the CIO Council's Privacy Subcommittee. He noted that the CIOC's Innovation and Emerging Technology Subcommittee has been designated as the point of contact for geospatial privacy issues. He also noted that FGDC and NGAC have been asked to help plan a session at the CIOC's Privacy Summit, which is tentatively scheduled for November 2015.

Other recent developments discussed included the following:

- NASCIO Policy Brief – "Unmanned Aerial Systems, Governance and State CIOs: On the Radar"
- Illinois Data Breach Law
- Nevada Drone Law – Trespass if flown lower than 250 ft.
- Florida Drone Law

Mr. Pomfret discussed the NGAC resolution approved in March regarding NTIA/UAS activities. The FGDC submitted comments to NTIA on April 20, 2015. The initial NTIA stakeholder meeting will take place in late July. NGAC and FGDC representatives have registered to participate in the stakeholder meetings.

NGAC Members broke into tables groups to discuss emerging UAS privacy best practices based on the following questions:

- Sensor Technology Approach: What measures are reasonable for UAS operators take to protect the privacy of individuals while conducting standard operations? Should these vary depending upon the type of sensor (i.e. electro-optical vs. infra-red) used or the type of use (i.e. mapping vs. inspecting a home after a storm)?"
- Data Management Approach: What measures are reasonable for organizations to take to protect data collected from UAVs from unauthorized or inappropriate access or use that could impact the privacy of individuals?

Following the break-outs, each group reported on their discussions. Key points included the following:

#### **Group 1:**

- Users should be able to justify the resolution being captured based on the purpose of the mapping.
- Need to request permission or notification from the land owner to fly a drone over a property
- User/operator has responsibility to protect PII.
- Use of drones on public land should be permissible. Should not need to request permission if faces are not recognizable.

#### **Group 2:**

- What can we learn from regulations that are in place for remote sensing?
- Resolution can become an issue
- Notion of flight plans, permits, certifications, are good practices
- Intended uses should be considered, should be known

### **Group 3:**

- If the government is collecting data, public may be more concerned
- Ensure information collection is for legitimate purposes
- Consider pixilation, establish best practices

### **Group 4:**

- Concern about inappropriate use of data
- Multiple sources of data, fusion or integration of data is the real threat

**ACTION:** The Geospatial Privacy Subcommittee will compile & synthesize the NGAC's feedback on two discussion topics:

1. Sensor/Technology Approach
2. Data Management Approach

**ACTION:** NGAC Members and FGDC representatives will participate in the National Telecommunications and Information Administration's (NTIA) multi-stakeholder engagement process described in the February 2015 Presidential Memorandum "Promoting Economic Competitiveness While Safeguarding Privacy, Civil Rights, and Civil Liberties in Domestic Use of Unmanned Aircraft Systems."

### **Crowdsourced Data Subcommittee**

Molly Vogt, Crowdsourced Data Subcommittee Chair, introduced three speakers who provided presentations on crowdsourced data approaches.

#### Alex Barth

Alex Barth discussed the OpenStreetMap Viewer, which is building an extensive database of every street, city, road, and building on the planet. OpenStreetMap is built by a community of mappers that contribute and maintain the data. Data is available and open to use for any type of application including government use.

#### Mikel Maron

Mikel Maron, Presidential Innovation Fellow at the Department of State, discussed OpenStreetMap for Government. Entities currently using or interesting in OpenStreetMap include the National Park Service, USGS, Department of Transportation, and the Department of Commerce. Mr. Maron discussed the Imagery to the Crowd project, which is part of the State Department's Humanitarian Information Unit that provides information to decision makers and partners to prepare for and respond to humanitarian emergencies worldwide. He also discussed MapGive, a program to expand the OpenStreetMap community for emergency response, such as the Ebola response and the Nepal Earthquake.

#### Lea Shanley

Lea Shanley, Presidential Innovation Fellow at NASA, provided a presentation on the Federal Community of Practice on Crowdsourcing and Citizen Science. Ms. Shanley discussed Federal citizen science projects such as Did You Feel It, Nature's Notebook, Measuring Broadband America, and Citizen Archivist Dashboard. The National Action Plan for Open Government made a commitment to support crowd sourcing and currently is developing an Open Innovation Tool Kit. Ms. Shanley noted the legal and policy issues encountered by the federal community of practice on crowdsourcing:

- Privacy Act
- Anti-deficiency Act/Volunteer contributions

- Information Quality Assurance Act
- Procurement regulations
- Data ownership and licensing
- Freedom of Information Act
- Liability / risk mitigation
- Human Subjects

### Crisis, Crowdsourcing, and Maps

Talbot Brooks discussed crowdsourcing from an emergency response perspective. Mr. Brooks discussed the process of responding to the Haiti Earthquake using real time applications. The benefits of crowdsourcing in emergency response include:

- Harnessing the crowd can quickly and dramatically improve situational awareness outside the disaster zone.
- Almost anyone can contribute after some minimal training.
- Crowdsourcing can capture an extremely wide range of information.

Challenges include the following:

- Standardization, especially regarding attribute information.
- No clear conduit for geospatial products – how does it fit into the Incident Command System?
- Printed vs. digital products in a dynamic environment.
- Bandwidth challenges, especially in developing nations or regions of the US.

### Julie Sweetkind-Singer

Ms. Sweetkind-Singer discussed a crowdsourced data project at Stanford University for cholera mapping in Bangladesh.

Following the presentation, the NGAC engaged in a discussion with the panel. Discussion topics and questions included the following:

- Does it really have to take a crisis to produce good maps?
- Building the technology is just one part, working with volunteers and the social side of crowd mapping is also important. How do we create a value proposition to get volunteers to contribute?
- Crowdsourced data is used in crisis because of the time factor. However, for a longer project crowdsourcing should be integrated with authoritative data.
- There are many issues at the international level, as crowdsourcing is not welcomed in some countries.

**ACTION:** NGAC members and FGDC representatives will participate in a forum on crowdsourced geospatial data and citizen science on June 11, 2015. The meeting is co-sponsored by the Federal Community of Practice for Crowd-sourcing and Citizen Science.

### **Landsat Advisory Group**

Tim Newman, USGS Land Remote Sensing Program Coordinator, provided an update of the Landsat Remote Sensing Program. Mr. Newman provided a status report on Landsat 7 and Landsat 8:

#### *Landsat 8*

- Collecting approximately 725 new scenes per day; supports 8-day revisit cycle
- An anomaly in the electronics associated with the Thermal Infrared Sensor (TIRS) was resolved by switchover to B-side subsystems; A-side systems remain available for future use

## *Landsat 7*

- Collecting about 475 new scenes per day; about 22% of pixels missing per scene (faulty scan-line corrector)
- L7 collection strategy concentrates on continental coverage; L8 capturing islands and reefs in addition to continents
- Following less atmospheric drag than anticipated, plus highly efficient orbit-correction burns, the latest fuel estimate projects L7 operating into 2020, and perhaps into 2021

It was noted that many companies and organizations are now providing public access to Landsat imagery and services – including Google Earth, Esri, Amazon Web Services, BlackBridge Networks and Cybera, Landsat.org, Harris Corporation, and the University of Maryland Global Land Cover Facility.

Roger Mitchell provided an update on Landsat Advisory Group (LAG) activities. LAG activities since March include the following;

- The USGS briefed LAG members on the following:
  - LRSP Requirements, Analysis, and Capabilities project. (Action 1)
  - USGS plans to archive and distribute Sentinel 2 data (Action 2)
  - EROS responses to observations and recommendations made in 2013 LAG papers (Action 3)
- One-on-one discussions between Chair and most members, and meetings with executives from USGS, NASA, Landsat program experts and Landsat Science Team members
- Review of past papers by Task 3 leads

**Action:** The LAG will develop draft papers, addressing the 2015 study questions, for discussion/review at the September NGAC meeting.

## **Public Comment Period**

An opportunity for members of the public to provide comments to the Committee was provided. No comments were provided.

## **2015 Priorities Discussion: Tasks that can be accomplished in the next 18 month**

NGAC members discussed and refined the list of potential priorities discussed during Day 1 of the meeting. After the discussion, the NGAC agreed on the following:

**ACTION:** The NGAC identified initial suggestions for 2015/2016 priority initiatives for the FGDC:

### **1. Data Initiatives**

- National Address Database  
Develop and implement approach for a National Address Database. Ensure governance & funding models meet needs of major stakeholders.
- 3D Elevation Program  
Make significant advancements in the 3DEP initiative. Secure funding commitments for enhancement and institutionalization of program.

### **2. Communications Strategy**

- Finalize and implement national communications strategy for NSDI and Geospatial Platform.
- Seek input and engagement from NGAC and non-Federal partners in developing goals, messages, approaches

- Develop a variety of effective and adaptable tools – videos, social media, web presence, etc.

### **3. Geospatial Platform**

- Make significant advancements to further develop and institutionalize the Geospatial Platform.
- Continue to collaborate with external partners on communities, shared services, etc.

### **4. Transition Strategy**

- FGDC work with NGAC to develop options/proposals for next Administration.
- May include strategic approaches – new strategic plans for NSDI, National Map, etc.
- May include new programmatic and partnership approaches.

## **Lightning Session 2**

This session provided the opportunity for NGAC and FGDC members to give brief talks on topics of interest to the committee.

### Gary Thompson - NC Virginia Boundary

Mr. Thompson provided a presentation on the history of the development of the North Carolina and Virginia boundary.

### Harvey Thorleifson - Bicentennial of Geologic Mapping

Dr. Thorleifson spoke about the Bicentennial of geologic mapping. He discussed the first geologic maps created by William Smith, which was discussed in the book, “The Map that Changed the World” by Simon Winchester. The book covers Mr. Smith’s career and discusses the impact of this map on the intellectual environment at the time. Dr. Thorleifson noted that there will be a William Smith bicentennial celebration in Baltimore at the Geological Society of America Convention.

### Gen. William Reddel - States National Guard GeoCONOPS and Proof of Concept

Gen. Reddel discussed the States National Guard GeoCONOPS and Proof of Concept. The objective is to participate in simulated major catastrophes to test information sharing capabilities and identify the best means to share information at various levels of response. He noted that different types of exercises are being conducted to improve situational awareness in dealing with major catastrophes. He noted that multiple information requirements have been identified that are the foundation of Homeland Security/Domestic Operations information sharing collaboration.

### Matt Gentile - Deloitte University Press

Mr. Gentile discussed the Smart Mobility study recently released by Deloitte. The study takes a data-driven look at what metropolitan areas can gain through expanded mobility ecosystems. The report quantifies the potential congestion relief benefits of alternative modes of transportation in the country’s 99 largest metropolitan areas. He noted that on-demand ride services like Uber and Lyft, real-time ridesharing services such as Carma and Zimride, car-sharing programs like Zipcar and Car2Go in addition to bike sharing programs are all changing how people get around.

**Review actions, decisions and next steps.**

Action items, decisions and next steps were reviewed, and potential agenda topics for the September NGAC meeting were discussed. The next NGAC meeting is scheduled for September 1-2 in Shepherdstown, WV.

**ADJOURN**

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.

Dr. Robert Austin, Chair, National Geospatial Advisory Committee

Mr. 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 September 1, 2015***

## **June 2015 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/june-2015/index\\_html](http://www.fgdc.gov/ngac/meetings/june-2015/index_html)

### **FGDC Update**

- FGDC Report
- Geospatial Platform Update

### **Communication & Outreach Subcommittee**

- NSDI – Geospatial Platform Communication Overview
- Communication & Outreach Subcommittee Report

### **3D Elevation Program (3DEP) Subcommittee**

- 3DEP Subcommittee Report
- 3DEP Program Update
- NGAC Paper – Comments on NAPA Report on FEMA Flood Mapping Program

### **NGS Datum Modernization**

- Update on New Reference Frames

### **National Address Database**

- Report on National Address Database Summit

### **Geospatial Privacy Subcommittee**

- Geospatial Privacy Subcommittee Report

### **Crowdsourced Geospatial Data – Spotlight Session**

- OpenStreetMap – Alex Barth
- Government and OpenStreetMap – Mikel Maron
- Federal Community of Practice on Crowdsourcing and Citizen Science – Lea Shanley
- Crisis, Crowdsourcing, and Maps – Brooks

### **Landsat Advisory Group**

- Landsat Advisory Group Status Report
- Landsat Program Update

### **NGAC Member Lighting Sessions**

- North Carolina/Virginia Boundary Update – Thompson
- Bicentennial of Geologic Mapping – Thorleifson
- National Guard GEOCONOPS
- Smart Mobility - Gentile