



**State Geospatial Coordinating Board Meeting  
333 Market Street, Honors Suite D – 1<sup>st</sup> Floor  
Monday, March 7, 2016  
2:00 PM – 3:00 PM**

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**Meeting Summary**

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- **Attendee List:**

Board Members and Designees

Kenneth Juengling, PA Turnpike Commission  
Justin Klos, House of Representatives Appointee, Democratic Office of Demographic Analysis  
Commissioner Erick Coolidge, Tioga County Commissioner, County Commissioners Association of Pennsylvania  
Commissioner Kathi Cozzone, Chester County Commissioner  
Danny Ramer, Senate Appointee, Municipal Authority  
Andrew Shears, Pennsylvania State System of Higher Education GIS Consortium, Mansfield University  
Dave Gilbert, Pennsylvania Mapping and Geographic Information Consortium  
Craig Thomas, Pennsylvania Municipal Authorities Association  
Howard Hodder, Pennsylvania Chapter of the Management Association for Private Photogrammetric Surveyors  
Scott Hoffman, United States Geologic Survey Mapping Liaison  
Brian Traylor, American Planning Association, Pennsylvania Chapter  
William Hunt, Senate Appointee, Potter County  
Matthew Warner, Pennsylvania Society of Land Surveyors  
Barry Hutchins, Lycoming County, GIS Professional Association of Pennsylvania  
Sharon Minnich, Office of Administration  
John MacMillan, Office of Administration  
Gary Swartz, Designee for PA One-Call System Bill Kiger  
Paul Metro, Designee for Public Utility Commission Chairperson Gladys Brown  
Ryan Baxter, Designee for Pennsylvania Spatial Data Access Director, Maurie Kelley  
James Spayd, Designee for Pennsylvania Spatial Data Access Director, Maurie Kelley  
Stephen Aux, Designee for the Department of Conservation and Natural Resources Secretary Cindy Dunn  
Matthew Bembenick, Designee for Department of General Services Secretary Curt Topper  
Sean Crager, Designee for the Department of Environmental Protection Secretary John Quigley  
Adam Repsher, Designee for the Pennsylvania State Police Commissioner Tyree Blocker  
Jeff Thomas, Designee for the Pennsylvania Emergency Management Director Richard Flinn  
Laine Heltebridle, Designee for the Department of Transportation Secretary Leslie Richards

### Staff

Rosa Lara, Office for Information Technology  
Jessica Byerly, Office for Information Technology  
Rodney Emlet, Department of Environmental Protection  
Molly Dougherty, Office of Administration  
Abby Gabner, Office of Administration  
V. Reid Walsh, Office of Administration  
Jullia Sheridan, Office of Administration  
Crystal Fox, Office of Administration

### Presenter(s)

Bill Burgess, National States Geographic Information Council (NSGIC)

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## **MINUTES of the Geospatial Coordinating Board**

### **Monday, March 7, 2016**

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- John MacMillan, Chairman
  - The Board was made aware that the meeting was being recorded for note taking purposes only. The recording would be discarded after meeting summary documentation is prepared. The Board was asked if it had any objections; none were expressed.
  - John introduced himself and provided an overview of the agenda. **ATTACHMENT 1 - Agenda.** He indicated that a majority of the Board's work would occur within the Task Forces that would be discussed during the meeting. The initial approach is for each Task Force to develop priorities and recommend actions to the Board, per the Sunshine Requirements. Appropriate voting results would be documented.
  - The Board Members and designees introduced themselves.
- Secretary Minnich delivered opening remarks. **ATTACHMENT 2 – Opening Remarks.**
- Crystal Fox was introduced and provided an overview of the legislation that guides the Board's activities [Act 178]. **ATTACHMENT 3 – Act 178.**
- Bill Burgess, National States Geographic Information Council (NSGIC) Washington Liaison, provided a Geospatial Overview and National Trends presentation. **ATTACHMENT 4 – NSGIC Presentation.**
- Chairman MacMillan summarized the three (3) draft Task Force charter documents (Service Delivery, Data Program and Governance). **ATTACHMENT 5 – Task Force Charters.** The work of the Task Forces is to drive prioritized recommendations for improvement to the Board for consideration and potential action. Task Force volunteers should align their interest with the group's direction and participation should consider the associated time commitment.
  - Task Force Leaders:
    - Service Delivery - Stephen Aux
    - Data Program - Sean Crager
    - Governance - Michael Bialousz
  - **MOTION 2016-1**  
By motion that was moved, seconded and approved by Board Members, it was  
**RESOLVED:** That the Board accepts the three (3) Task Force charters for Service Delivery, Data Program and Governance.
- Motion to Adjourn
  - **MOTION 2016-2**  
By motion of Commissioner Coolidge, the Board unanimously agreed to adjourn the meeting at 3:00pm.

**State Geospatial Coordinating Board  
Meeting Agenda**

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**Date:** March 7, 2016

**Time:** 2-3PM

**Location:** 333 Market Street, Honors Suite D – 1<sup>st</sup> Floor

**Agenda Items:**

**I. Welcome and Opening Remarks – 5 Minutes**

- a. Welcome and Opening Remarks
- b. Chair: John MacMillan, Vice Chair: Sean Crager
- c. Roundtable Introductions & Sign In

**II. Overview of Legislation – 10 Minutes**

**III. Geospatial Overview and National Trends – 25 Minutes**

- a. Bill Burgess, National States Geographic Information Council (NSGIC), Washington Liaison.

**IV. Task Forces – 20 Minutes**

- a. Data Program Task Force
- b. Governance Task Force
- c. Service Delivery Task Force
- d. **Request for Vote: Ratify Charters**
- e. Attendees should email Jess Byerly (jbyerly@pa.gov) by March 21st with the task force they are interested in participating in.

**V. Adjourn**

- a. Motion to Adjourn.

## **ATTACHMENT 2 – Secretary Minnich’s Opening Remarks**

### **STATE GEOSPATIAL COORDINATING BOARD**

#### **Opening Remarks**

Good afternoon. Welcome to the first meeting of the State Geospatial Coordinating Board. Congratulations to all the board members on their appointments. It is quite an honor to be invited to serve. I would also like to thank the board members for their participation and dedication to the citizens of Pennsylvania.

I would also like to take a moment to acknowledge that this board, and this meeting, should have happened a lot sooner. We appreciate your patience throughout this process. Now that we are here together, we can focus on moving forward with our duties.

Today, we launch the Board with an optimistic eye to the future. We conducted an Executive Session immediately prior to this meeting. In an environment of scarce resources, it is our collective challenge to improve the business outcomes from geospatial capabilities.

Information about location supports a wide range of services and policy decisions in government operations. Everything happens somewhere. The characteristics of place and the needs of people, communities and businesses within places vary widely. For this reason, government has a particular need for quality geospatial information and wants to know its value to public service delivery and the wider public good.

The members of this board represent a variety of stakeholders and perspectives when it comes to geospatial technologies. At the same time, need to be able to come together and work towards common goals. Today’s agenda will include an overview of national trends and include results from a recent assessment by the National States Geographic Information Council, or NSGIC, of Pennsylvania’s opportunities to improve geospatial benefits. We will also present draft charter documents for three volunteer task force groups – Data, Governance and Service Delivery – based on the structure included in the assessment.

These task forces are important because they are where the work of the board will be conducted. We hope that the task forces will promote and improve the use of geospatial information at all levels of government in Pennsylvania. And so I would like to talk briefly about the proposed intent of each task force.

The Data Task Force has the opportunity to focus on recommending improvements for common data models, standards, data gathering, stewardship and data sharing.

The Governance Task Force has the opportunity to focus on recommending improvements for strategic planning, task force structures / organization, legislation and use of existing funding in the current economic climate.

The Service Delivery Task force has the opportunity to focus on aligning business outcomes with technical capabilities, streamlining technical solutions and investments, and evaluating centers of excellence to determine appropriate models for delivering spatial data and imagery.

I ask that volunteers participate on a task force where their experience will add the most value and permit a range of voices to be heard.

We also want the work of this board to be open to the stakeholders we represent and transparent to the people of Pennsylvania. With that goal in mind, we created a web portal so that documents prepared for these meetings and presented by the task forces are available to the public and to interested parties.

We also want the board to operate efficiently and be fiscally responsible. Most of you have responsibilities and obligations outside of the board. And some of you may need to travel a significant distance in order to attend meetings in Harrisburg. Therefore, we will seek to hold future meetings by video or conference call whenever possible. The next Board meeting is scheduled to occur on Friday, April 29, 2016. For those who wish to attend in person, it will take place in this same location at 1:00 PM.

Now, I would like to introduce the co-chairs of the Board. Sean Crager, Chief Information Officer for the Department of Environmental Protection, and John MacMillan, Chief Information Officer for the Commonwealth. They will conduct the rest of the proceedings.

Thank you.

**ATTACHMENT 3 – Act 178**

**ADMINISTRATIVE CODE OF 1929 - STATE GEOSPATIAL COORDINATING  
BOARD**

**Act of Oct. 22, 2014, P.L. 2881, No. 178**

**Cl. 71**

Session of 2014

No. 2014-178

SB 771

**AN ACT**

Amending the act of April 9, 1929 (P.L.177, No.175), entitled "An act providing for and reorganizing the conduct of the executive and administrative work of the Commonwealth by the Executive Department thereof and the administrative departments, boards, commissions, and officers thereof, including the boards of trustees of State Normal Schools, or Teachers Colleges; abolishing, creating, reorganizing or authorizing the reorganization of certain administrative departments, boards, and commissions; defining the powers and duties of the Governor and other executive and administrative officers, and of the several administrative departments, boards, commissions, and officers; fixing the salaries of the Governor, Lieutenant Governor, and certain other executive and administrative officers; providing for the appointment of certain administrative officers, and of all deputies and other assistants and employes in certain departments, boards, and commissions; and prescribing the manner in which the number and compensation of the deputies and all other assistants and employes of certain departments, boards and commissions shall be determined," providing for the State Geospatial Coordinating Board.

The General Assembly of the Commonwealth of Pennsylvania hereby enacts as follows:

Section 1. The act of April 9, 1929 (P.L.177, No.175), known as The Administrative Code of 1929, is amended by adding a section to read:

**Section 432.1. State Geospatial Coordinating Board.--**

**(a) There is established a State Geospatial Coordinating Board within the Governor's Office of Administration. The board is established to provide advice and recommendations to the Governor and the citizens of this Commonwealth on geospatial issues and provide uniform data standards, coordination and efficiency in geospatial policy and technology issues among**

Federal, State and local government agencies, academic institutions and the private sector.

(b) (1) The State Geospatial Coordinating Board shall consist of the following members:

(i) The Secretary of Administration or a designee.

(ii) The Secretary of Environmental Protection or a designee.

(iii) The Secretary of Conservation and Natural Resources or a designee.

(iv) The Director of the Pennsylvania Emergency Management Agency, or its successor agency, or a designee.

(v) The Secretary of Transportation or a designee.

(vi) The Secretary of General Services or a designee.

(vii) Three members appointed by the President pro tempore of the Senate in consultation with the Majority Leader and Minority Leader of the Senate. One member shall be a representative of a municipal authority. One member shall be an elected local government official representing a rural community. One member shall be an elected local government official representing a suburban community.

(viii) Three members appointed by the Speaker of the House of Representatives in consultation with the Majority Leader and Minority Leader of the House of Representatives. One member shall be a local elected official representing an urban community. One member shall be an employee of a county emergency management agency. One member shall be an individual with expertise in geospatial technology.

(ix) Three members appointed by the Governor. One member shall be a county commissioner. One member shall be a member of the Pennsylvania Society of Land Surveyors. One member shall be an individual with expertise in data development and sharing.

(x) One member designated by the County Geographic Information Systems Professionals Association of Pennsylvania.

(xi) One member designated by the Pennsylvania Mapping and Geographic Information Consortium.

(xii) One member designated by the County Commissioners Association of Pennsylvania.

(xiii) One member designated by the Pennsylvania Chapter of the Management Association for Private Photogrammetric Surveyors.

(2) The members of the board shall include persons knowledgeable in the fields related to geographic information systems, including geospatial technology, data development, architecture standards, data sharing, county government, local government, municipal planning or municipal authorities. The appointees shall serve at the pleasure of the appointing authority.



(c) The board shall also include the following nonvoting ex officio members or their designees, who shall have all the rights of other members, except for voting:

(1) The Commonwealth's mapping liaison from the United States Geological Survey.

(2) One member designated by the Pennsylvania One Call System.

(3) The chairman of the Pennsylvania Public Utility Commission or a designee.

(4) One member designated by The Geographic Information System Consortium of the Pennsylvania State System of Higher Education.

(5) One member designated by the Pennsylvania Municipal Authorities Association.

(6) One member designated by the American Planning Association, Pennsylvania Chapter.

(7) The director of Pennsylvania Spatial Data Access.

(8) The Commissioner of Pennsylvania State Police or a designee.

(d) The terms of office of members representing State agencies shall coincide with the term of the Governor. In case of a vacancy, the Governor shall make an appointment for the unexpired portion of the term. An organizational designee shall serve a term of three years. In the case of a vacancy, the appropriate organization shall provide a designee for the unexpired portion of the term. The replacement council member shall serve until an alternate designee is duly appointed by the appropriate organization for the following term.

(e) The Governor shall designate the chairperson and vice-chairperson of the board from among the members of the board, other than the ex officio members. The board shall meet not less than four times yearly. Additional meetings shall be at the discretion of the chairperson. Ten members of the board shall constitute a quorum.

(f) The members of the board shall serve without compensation. The board may, with the approval of the Governor, appoint and fix the compensation of an executive director who shall be technically qualified for the duties of the office and who shall act as secretary of the board and conduct the work of the board under its supervision.

(g) From funds appropriated for the purposes of this subsection or to the Office of Administration, the board may employ and fix the compensation of such experts, stenographers and assistants as necessary to carry out the work on the board. The board shall make a diligent effort to enlist voluntary assistance as may be available from citizens, research

organizations and other agencies in this Commonwealth or elsewhere, generally recognized as qualified to aid the board.

(h) The board shall have the following powers and duties:

(1) Recommend data development priorities and interoperability standards for data sharing across agencies and different units of government across this Commonwealth.

(2) Monitor national and State trends, identify issues of potential interest and concern to the Commonwealth and submit annual reports to the Governor and the General Assembly and other reports as necessary.

(3) Define and prioritize strategic opportunities where maps and spatial analysis activities could enhance the business of government and provide more cost-effective services to citizens. This paragraph may include recommendations of specific geospatial technology investments in this Commonwealth.

(4) Develop task forces as needed to formulate recommended positions or actions. The task force membership may be comprised of board members or designees appointed by the board. The board shall consider any task force recommendations at its next meeting.

(i) The Office of Administration shall provide administrative assistance to the board and may provide other assistance to the board upon recommendation of the chairperson, if sufficient Commonwealth resources exist.

(j) This section shall expire June 30, 2020.

Section 2. This act shall take effect in 60 days.

APPROVED--The 22nd day of October, A.D. 2014.

TOM CORBETT

## **ATTACHMENT 4 – NSGIC Presentation**

Attached.

# National GIS Trends

Commonwealth of Pennsylvania  
Statewide Geospatial Coordinating Board



National States Geographic Information Council

- OVERVIEW
- GOVERNANCE
- TRANSPARENCY
- DATA PROGRAMS
- FUTURE OUTLOOK



# Points We Will Cover

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- Retired from Maryland State Government in 2003
  - Career was focused on Water Resources at DNR
  - Unofficial GIS Coordinator for State and active in all GIS efforts
- Active in NSGIC since 1993 and served on the Board
- Worked as the Washington Liaison since 2003, including
  - Interface with Federal agencies and Congress
  - POC for other national organizations
  - Project management on grants and contracts
  - Work with committees and Board to support their efforts
  - Maintain IT infrastructure (GMA, Web Page, GIS Inventory, and Listservs)



# My Background

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- 501 (c) 6 nonprofit organization started in 1991
- Principal members are State GIOs, GIS Coordinators, and GIS Coordination Councils
- Member Services
  - Best practices, funding opportunities, hot news, etc.
  - Geospatial Maturity Assessment and GIS Inventory
- Advocate for members in Washington
  - Federal agencies, Congress, and FGDC
- Forum for discussing national issues
- Each State has a single vote on the Council



# What is NSGIC ?

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# What are Geospatial Technologies ?

- The **technology, policies, standards, and human resources necessary to acquire, process, store, distribute, and improve utilization of geospatial data.** (E.O. 12906 – NSDI defined)
- Geographic information systems (GIS) help us **visualize, question, analyze, and interpret data to understand relationships, patterns, and trends.**

## Importance to Government

- GIS is a ubiquitous technology deployed in most government agencies to **relate many types of disparate data to a common reference point (map).** It enables efficient government operations, provides new insights into problems, and solves future issues for decision makers.

# Overview

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**“Maturity comes when you stop making excuses and start making changes.”**

- Rafiki, The Lion King

# MATURITY

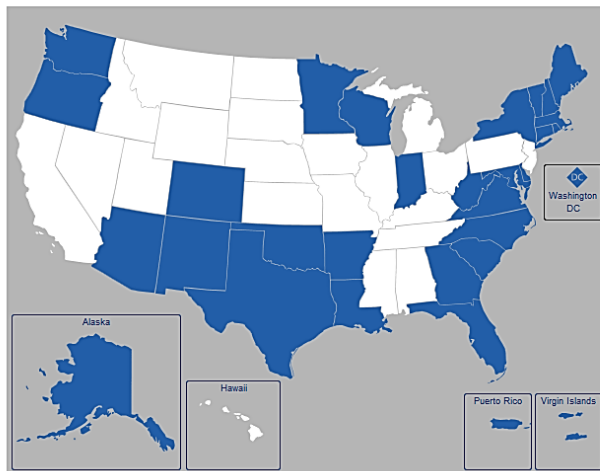
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National States Geographic Information Council

Select a question: 1) Over the past year, has your state utilized any special funds, grants or unique funding sources to help maintain its GIS coordina

Over the past year, has your state utilized any special funds, grants or unique funding sources to help maintain its GIS coordination produce data products?



3 states	Wildlife/Hunting/Fishing Tax/Fee
5 states	Environmental Protection Tax/Fee
31 states	Federal Grant
17 states	Federal Partnership (MOA, Contract, etc.)
14 states	9-1-1 Tax/Fee
4 states	Other Telecommunications Tax/Fee
5 states	Property Transfer Tax/Fee
9 states	Assessment on State Agencies
6 states	State Fuel or Road Tax/Fee
14 states	Other

This Geospatial Maturity Assessment was conducted during September 2013. When shown in white, it means that the state did not respond to the particular question being displayed. You can access the [Survey Instrument](#) (PDF) and the [Detailed Data](#) (xlsx) at these links or review the complete data for a particular state [here](#).

Online Results

#### 2015 MD GMA

**CURRENT VIEW**

+ FILTER + COMPARE + SHOW

No rules applied

Rules allow you to FILTER, COMPARE and SHOW results to see trends and patterns. [Learn more](#)

**SAVED VIEWS (1)**

Original View (No rules applied)

+ Save as...

**EXPORTS**

**SHARED DATA**

No shared data

Sharing allows you to share your survey results with others. You can share all data, a saved view, or a single question summary. [Learn more](#)

[Share All](#)

**RESPONDENTS: 1 of 1** [Export All](#) [Share All](#)

[Question Summaries](#) [Data Trends](#) [Individual Responses](#)

All Pages

**#1** **COMPLETE**

Collector: Web Link 1 (Web Link)  
Started: Wednesday, July 29, 2015 2:45:33 PM  
Last Modified: Wednesday, July 29, 2015 3:12:55 PM  
Time Spent: 00:27:21

[Edit](#) [Delete](#) [Export](#)

PAGE 1: 2015 State Government Geospatial Maturity Assessment

**Q1: Provide the following information. All four answers are required to move to the next page of the survey.**

Name: Kenny Miller  
Organization Name: Maryland Department of Information Technology  
State: MD  
Email Address: ken.miller@maryland.gov

**Q2: List your (line)**

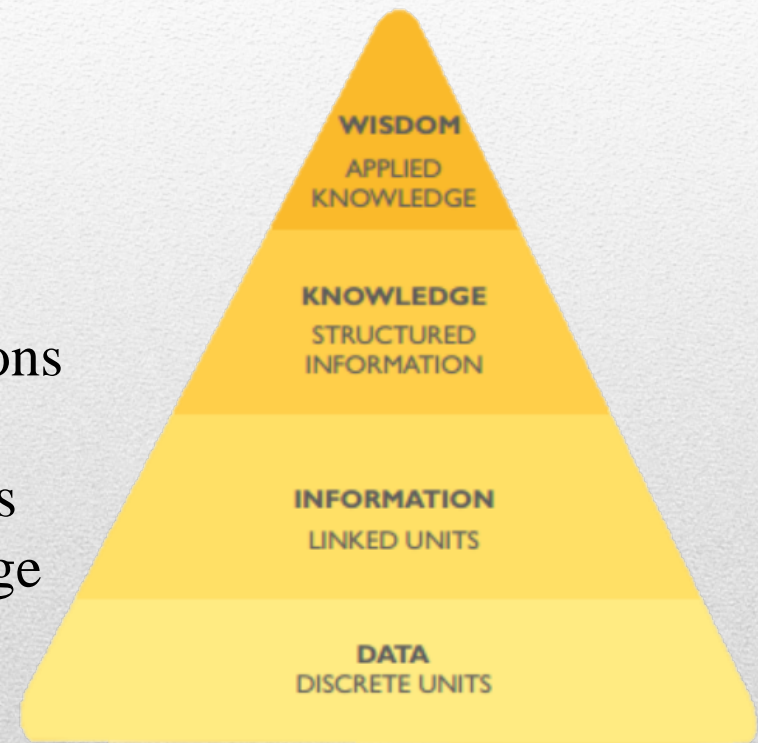
1. **Online Survey Form**  
Migrated Maryland's enterprise GIS system - MD iMap - from obsolete

Tool to compare the states using key indicators of program maturity.  
Answers to questions were self-reported by state GIS points of contact.

# 2015 Geospatial Maturity Assessment



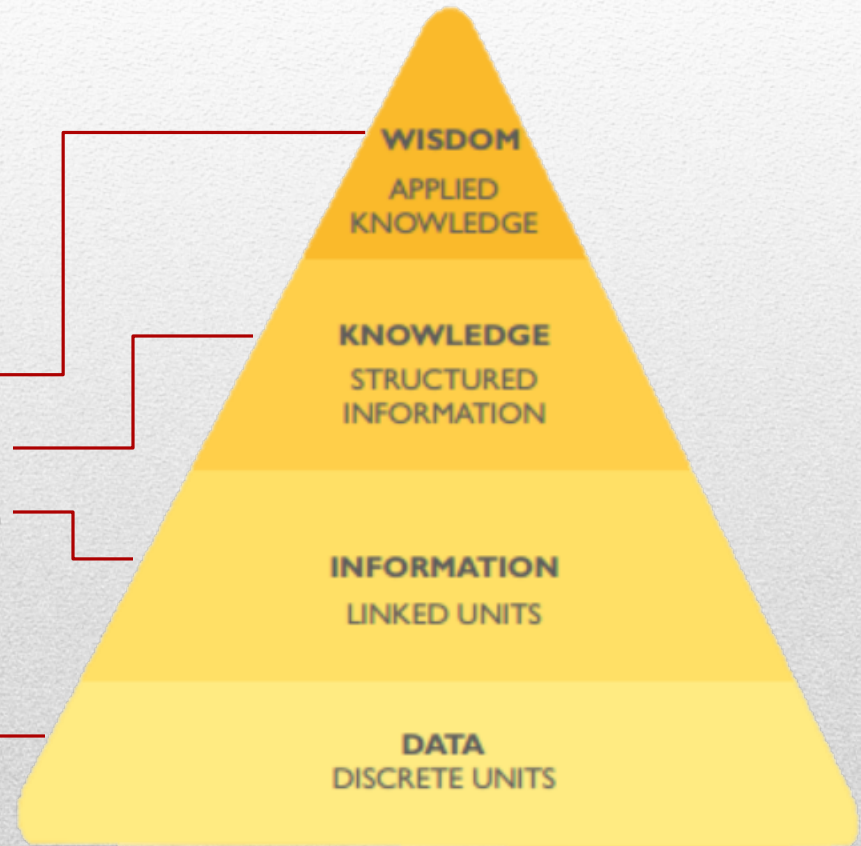
- Questions from the 2015 NSGIC Geospatial Maturity Survey were quantified into the following categories:
  - Governance
  - Transparency
  - Data Program
- Minimum and Maximum totals were equated for each category, which depended upon the number of questions within each category
- Maximum total for each category was divided by 4 providing a number range for each tier within the 'Data to Wisdom' pyramid



# Methodology

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- Measurable questions were given a score ranging from 0 to 4
- The maximum category score was mapped to the appropriate pyramid tier
- Data Program Example:
  - Minimum Score = 0
  - Maximum Score = 72
  - Score to Pyramid Mapping:
    - ✓ 55 thru 72 = Wisdom (tier 4)
    - ✓ 37 thru 54 = Knowledge (tier 3)
    - ✓ 19 thru 36 = Information (tier 2)
    - ✓ 0 thru 18 = Data (tier 1)



# Methodology

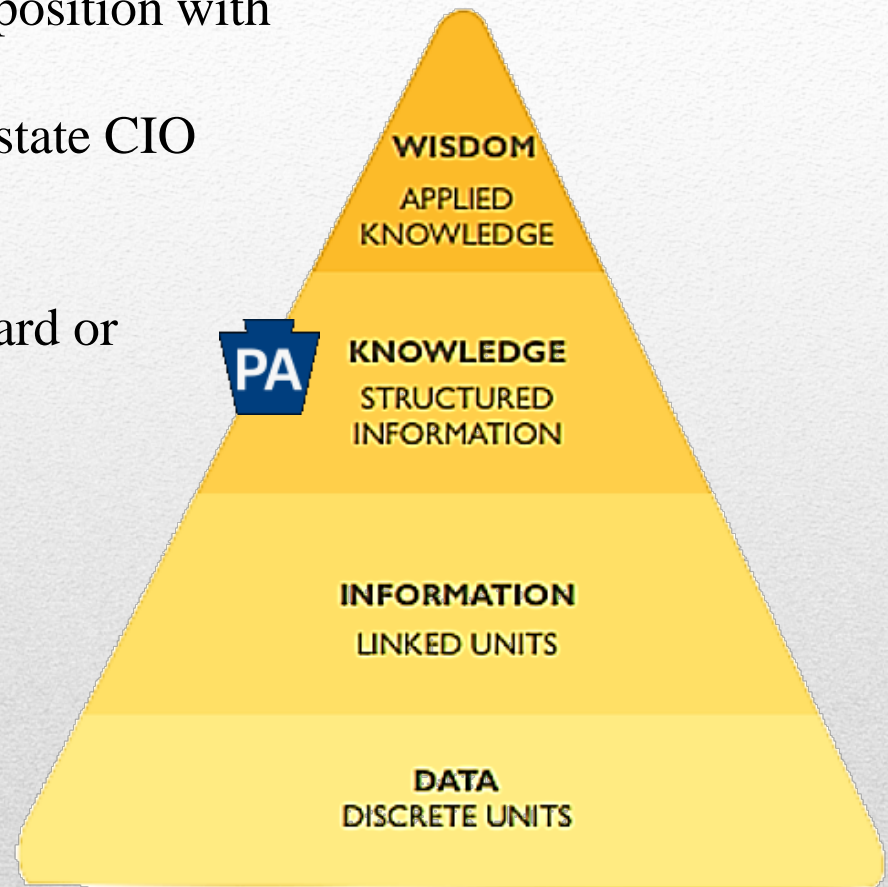


## Governance Maturity Criteria

- Full-time paid GIO or equivalent position with authority to implement plans
- Organizational Relationship with state CIO
- GIS Strategic Plan
- GIS Business Plan
- State Geospatial Coordinating Board or Council

## Total States Responding: 48

- Wisdom: 28 states
- Knowledge: 12 states
- Information: 7 states
- Data: 1 state



# Governance Maturity

## **Governance Maturity Improvement Areas for PA**

- GIS Strategic Plan
- GIS Business Plan

## **Concerted Action/Solution: Governance Task Force**

- Lead the development of a commonwealth wide Geospatial strategic plan and business plan in coordination with the other task forces, existing geospatial governing bodies, other governmental entities and interested parties
- Synchronize IT strategies with business strategy ensuring that the right people are involved in making the right decisions to expand reach, open new channels to better serve and deliver positive, effective outcomes

# Governance Maturity

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- GAO was asked by the Senate Homeland Security and Governmental Affairs Committee to audit Federal agencies activities on:

- **ORTHOIMAGERY**
- **ADDRESSES**



- GAO met with NSGIC Leadership and its State Representatives at the 2014 Midyear Meeting and remained in-touch over the course of their study
- GAO also met individually with MD, MT, OH, SC, and WA Officials

# Government Accountability Office (GAO)

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- National Geospatial-Intelligence Agency contributed to many state hi-res imagery programs
- USGS dropped support for the program
- NGA can't partner directly with States
- With the transfer of the Homeland Security Infrastructure Program (HSIP) from NGA to DHS, this program has ended



# 133-Cities Imagery

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- **Potential for waste**
  - GIS data are expensive to produce AND maintain (e.g. orthoimagery, road centerlines, address points, parcel maps, elevation, hydrography)
  - Data are often duplicated to meet single purposes instead of multiple purposes
  - Over procurement of software and hardware
  - Duplication occurs at AND between the local, state, and Federal levels
- **Potential for misinformation and confusion**
  - Need a common operating picture (COP) for government – particularly for emergency management and law enforcement
  - Different data analyzed in the same way will yield different answers
- **Effective delivery of government services**
  - Next Generation 9-1-1 requires standards based GIS data
  - Vehicle routing for cost efficiencies
  - General service delivery by agencies (e.g. Health, Permitting, Enforcement)
- **Lost opportunities**
  - Block Grant distributions based on accurate population counts = ~\$1,945 per person per year (based on 2011 Block Grant distributions)

## Why should the ENTIRE ENTERPRISE care about GOVERNANCE and work together ?

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**“Truth never damages a cause that is just.”**

- Mahatma Gandhi

# TRANSPARENCY

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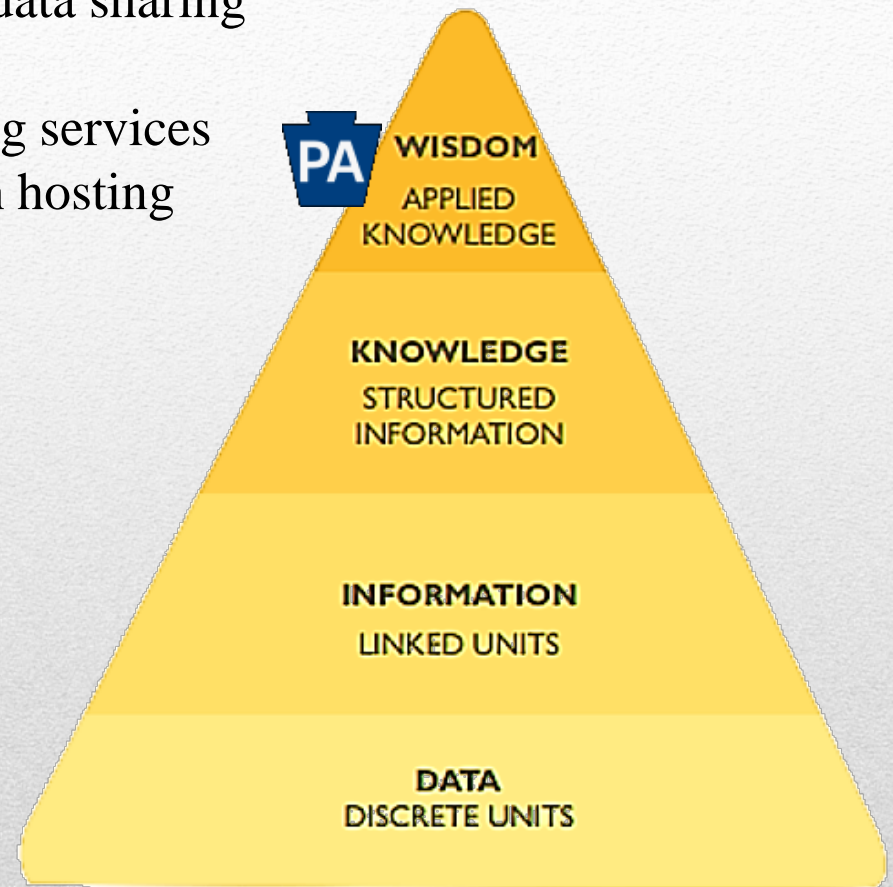


## Transparency Maturity Criteria

- Standardized intergovernmental data sharing agreement in place
- State provides central data hosting services
- State provides central application hosting services

## Total States Responding: 48

- Wisdom: 17 states
- Knowledge: 24 states
- Information: 3 states
- Data: 4 states



# Transparency Maturity

## **Transparency - Wisdom Sustainability Areas for PA**

- Identify how to capitalize on the investments and where changes may be needed for a more effective and efficient service delivery approach
- Continue standardized intergovernmental data sharing agreements, and providing data and application hosting services

## **Concerted Action/Solution: Service Delivery Task Force**

- Effectively leverage capabilities across government appropriately
- Evaluate how geospatial technology solutions are delivered today and formulate recommendations to improve the current environment
- Discuss strategic trends in technology opportunities, modern government trends, and innovative opportunities and transformational potential to facilitate new or better ways of doing business

# Transparency Maturity

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- All levels of government need a consistent, accurate and complete address database with X & Y coordinates
- Long term NSGIC advocacy effort
- A national Address Summit was held in April by USDOT
- USDOT funding has been identified for new pilot programs starting in 2015
- At least two Federal files exist (Census & USPS), but privacy laws & perception prevent use



# National Address Database

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U.S. SENATOR FOR IDAHO

[LOW BANDWIDTH VERSION](#)

[ABOUT](#) [IDAHO INFO](#) [SERVICES FOR IDAHOANS](#) [ISSUES & LEGISLATION](#) [NEWSROOM](#) [CONTACT](#)

HOME / IDAHO INFO / IDAHO MAP GALLERY

### IDAHO MAP GALLERY



Idaho Active Wildfires



Wildland Fire Potential



Fire Retardant



Idaho Farmers Markets



Idaho Brownfields Success St...



EPA Region



EPA Cleanup Sites - Idaho



Idaho DEQ Office Locations



Senator Risch Office Locations

[«](#) [»](#)

#### RELATED LINKS

- ▶ IDAHO LINKS
- ▶ REGIONAL INFORMATION
- ▶ STATE SYMBOLS
- ▶ IDAHO MAP GALLERY

Track Constituent Concerns  
Provide Constituent Services  
Make Better Decisions

**“You can have data without information, but you cannot have information without data.”**

- Daniel Keys Moran

# DATA PROGRAM

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## Data Program Best Practices:

1. Systematic program is in place to collect and maintain data
2. Designated steward exists
3. Data is publically accessible without restriction
4. Data is available on a public website
5. Standardize format or data model exists

# Data Program

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# Data Program Maturity Criteria

- Existence of Data Program
- Percentage of Data Completion
  - Parcels
  - Orthoimagery
  - Road Centerline
  - Address Point
  - Governmental Boundaries
  - Hydrography
  - Elevation
  - Geodetic Control
  - Buildings and Structures

## Total States Responding: 48

- Wisdom: 13 states
- Knowledge: 25 states
- Information: 7 states
- Data: 3 states



# Data Program Maturity

## **Data Program Maturity Improvement Areas for PA**

- Existence of Data Program
  - Systematic program to collect and maintain data
  - Designated stewards
  - Standardize format or data model

### **Concerted Action/Solution: Data Program Task Force**

- Address data standards and common data models
- Review current mechanisms for data collection and identify improvements to streamline data maintenance
- Establish a process and procedure for data stewardship
- Establish a prioritized set of data sets that require immediate attention and will have the greatest benefit to the geospatial community

# Data Program Maturity

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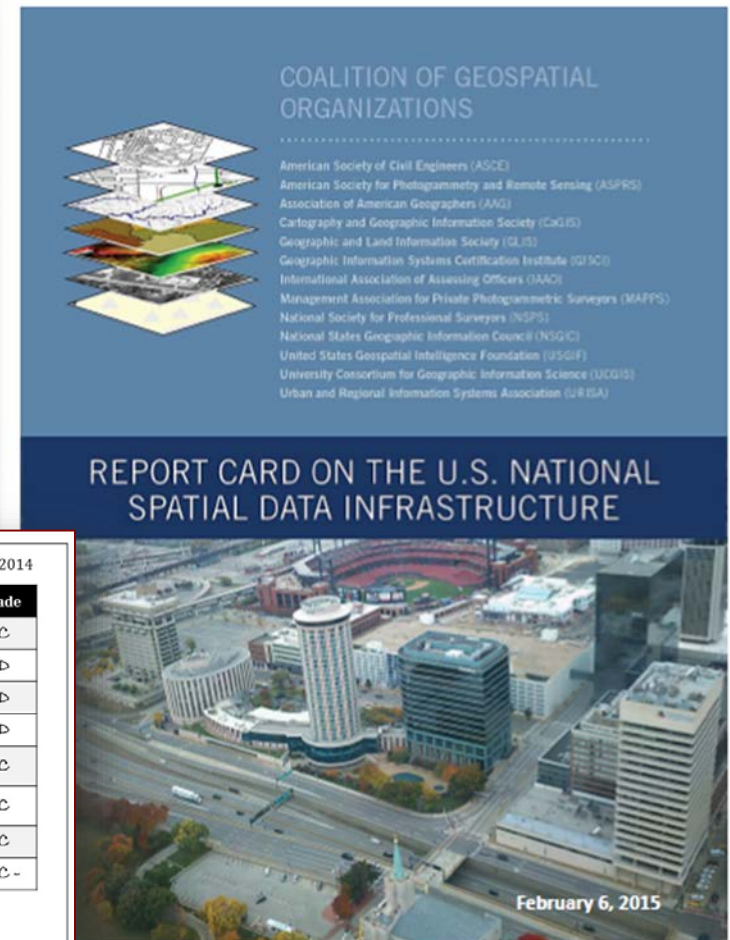


- Expert Panel Assembled
- Reviewed progress on Framework and Infrastructure
- Released on February 9<sup>th</sup>

GRADE REPORT OF: National Spatial Data Infrastructure (NSDI)			SEMESTER: Fall 2014		
Subject	Dept.	Grade	Subject	Dept.	Grade
CADASTRAL DATA	DOI	D+	CAPACITY	FGDC	C
GEODETTIC CONTROL	DOC	B+	CONDITION	FGDC	D
ELEVATION DATA	DOI	C+	FUNDING	Various	D
HYDROGRAPHY DATA	DOI	C	FUTURE NEED	FGDC	D
ORTHOIMAGERY DATA	DOI & USDA	C+	OPERATION & MAINTENANCE	FGDC	C
GOVERNMENT UNITS DATA	DOC	C	PUBLIC USE	FGDC	C
TRANSPORTATION DATA	DOT	D	RESILIENCE	FGDC	C
OVERALL DATA GRADE		C	COMPREHENSIVE GRADE		C-

**TO:** Federal Geographic Data Committee  
 590 National Center  
 Reston, Virginia 20192

**FROM:** Coalition of Geospatial Organizations (COGO)  
<http://www.cogo.org>  
 See the full report for an explanation of each grade.



# COGO Report Card

**GRADE REPORT OF:** National Spatial Data Infrastructure (NSDI)**SEMESTER:** Fall 2014

Subject	Dept.	Grade	Subject	Dept.	Grade
CADASTRAL DATA	DOI	D +	CAPACITY	FGDC	C
GEODETIC CONTROL	DOC	B +	CONDITION	FGDC	D
ELEVATION DATA	DOI	C +	FUNDING	Various	D
HYDROGRAPHY DATA	DOI	C	FUTURE NEED	FGDC	D
ORTHOIMAGERY DATA	DOI & USDA	C +	OPERATION & MAINTENANCE	FGDC	C
GOVERNMENT UNITS DATA	DOC	C	PUBLIC USE	FGDC	C
TRANSPORTATION DATA	DOT	D	RESILIENCE	FGDC	C
OVERALL DATA GRADE		C	COMPREHENSIVE GRADE		C -

**TO:** Federal Geographic Data Committee  
590 National Center  
Reston, Virginia 20192

**FROM:** Coalition of Geospatial Organizations (COGO)  
<http://www.cogo.pro>  
See the full report for an explanation of each grade.

[http://www.nsgic.org/public\\_resources/COGO\\_Report\\_Card\\_020615\\_Distribution.pdf](http://www.nsgic.org/public_resources/COGO_Report_Card_020615_Distribution.pdf)





Programs are Shrinking &  
Budgets are Reallocated

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## Overall Geospatial Maturity

- Combines Governance, Transparency, and Data Program scores to demonstrate the geospatial maturity for Pennsylvania and other states

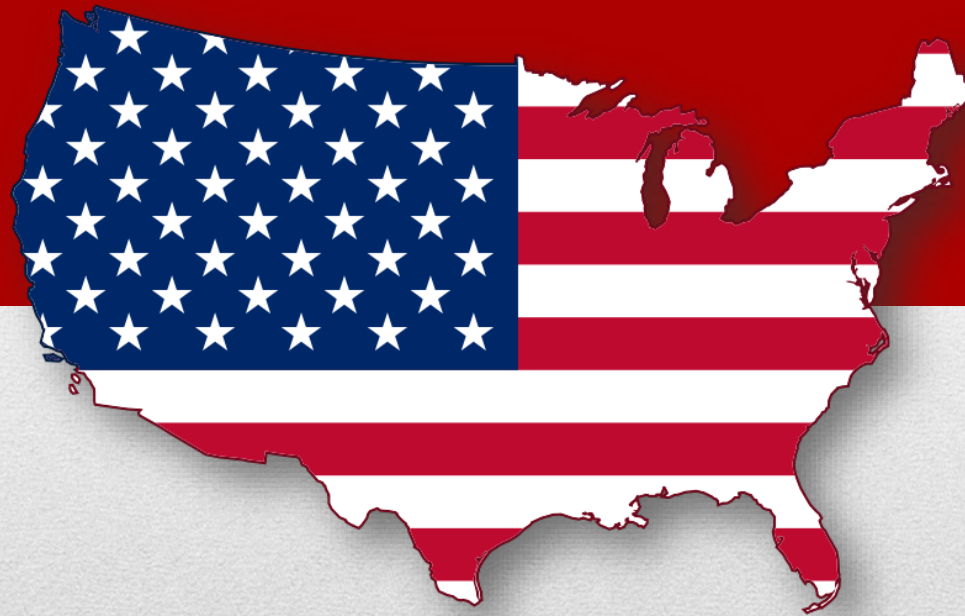
## Total States Responding: 48

- Wisdom: 13 states
- Knowledge: 25 states
- Information: 8 states
- Data: 2 states

**Next NSGIC Geospatial Maturity Assessment slated for 2017**



# Geospatial Maturity

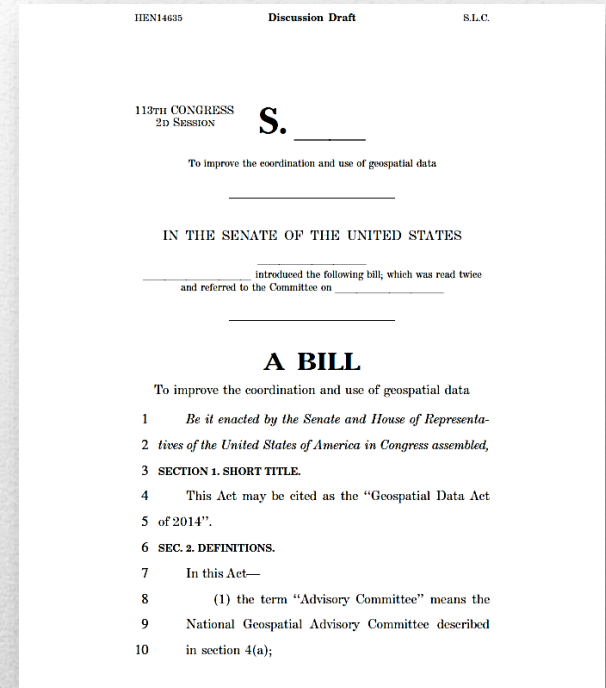


# FUTURE OUTLOOK

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- Senators Hatch (UT) and Warner (VA) introduced the Geospatial Data Act in the 114<sup>th</sup> Senate as S. 740
- This legislation will codify the National Spatial Data Infrastructure, and the activities of the Federal Geographic Data Committee (FGDC) and the National Geospatial Advisory Committee (NGAC)
- It will provide a clear mandate, authority, Congressional oversight, and require reporting
- All of these things are currently missing and they should dramatically improve Federal efforts to build the NSDI



# Geospatial Data Act



**DATA SCIENCE** - extraction of knowledge from large volumes of data that are structured or unstructured, which is a continuation of the field data mining and predictive analytics (Wikipedia)

**DATA PROVIDERS** – increasingly higher resolution imagery available “off the shelf.” Industry is filling the needs for other types of data with “off the shelf” solutions.

**3-D VISUALIZATIONS** – constant improvements in technology enable accurate 3-D representations at any scale, including underground features.

**TECHNOLOGY ADVANCES** –

- enable improved construction techniques, infrastructure management, and consumer services (e.g. smart transportation)
- precision agriculture continues to improve crop yields, reduce costs, and reduce pollution issues – all fields will see similar improvements
- technology will challenge public officials in new ways (e.g. UAS)

**CONSUMER ENGAGEMENT** – the public expects and adeptly uses geospatial technologies. They also provide feedback to improve systems and data when allowed.

**SENSOR TECHNOLOGY** – remote sensors of all types (e.g. road surfaces and Shot Spotter) improve and increase in use to provide safer communities and more information.

**OPEN SYSTEMS and DATA** – less reliance on proprietary formats to improve interoperability.

# Industry Trends

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# Questions?

<http://www.nsgic.org>

## **ATTACHMENT 5 – Task Force Charters**

Attached.

- Service Delivery
- Data Program
- Governance

# State Geospatial Coordinating Board (GeoBoard)

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## Service Delivery Task Force

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### *Final Charter*

#### **1. Mission**

The mission of the service delivery task force is to evaluate how geospatial services are delivered today in the commonwealth, evaluate how other states and counties deliver geospatial services and identify recommendations for how geospatial services should be delivered in the commonwealth to maximize investments. The task force should review how services are delivered and consider if the existing model should continue, if the commonwealth should consider leveraging hybrid cloud services for geospatial service delivery or if a center of excellence model should be established. The focus is on driving operational efficiencies and value-add solutions while advancing the commonwealth's delivery of geospatial services.

#### **2. Goal**

The service delivery task force will focus on providing practical solutions to improving geospatial service delivery in the commonwealth – across all facets of government and citizenry. The task force will provide a business and technical perspective in the identification of technical needs and opportunities, provide recommendations on how to implement initiatives, identify potential centers of excellence or best practice models that can be leveraged and will identify approaches that need to be established to further the initiatives.

#### **3. Objectives**

- Identify opportunities and recommend strategies that the commonwealth should pursue to effectively leverage capabilities across government appropriately to avoid redundant investments, enhance cross boundary interoperability, and ensure repeatable success.
- Research and evaluate how geospatial technology solutions are delivered today in the commonwealth, identify existing challenges and formulate recommendations to improve the current environment.
- Establish a footprint of technology solutions used to deploy geospatial services in the commonwealth; including how much those technical solutions are consumed to define a roadmap or go-forward strategy that best leverages commonwealth investments.

- Discuss strategic trends in technology opportunities, technologies, citizen expectations, and the modern government trends as well as innovative opportunities and transformational potential to facilitate new or better ways of doing business.
- Synchronize IT strategies with business strategy ensuring that the right people are involved in making the right decisions to expand reach, open new channels to better serve and deliver positive, effective outcomes for citizens.
- Balance long term opportunities for improvement with tactical projects such as Next Generation 9-1-1, FirstNet, hydrography and energy pipelines.
- Evaluate current procurement mechanisms for geospatial technologies to ensure the geospatial community is getting the best pricing possible.
- Evaluate cloud based delivery models for geospatial technology for adoption in the commonwealth.
- Evaluate center of excellence models or opportunities to improve geospatial service delivery as cost effectively as possible.
- Advise and provide direction and recommendations to other standing committees such as the Geospatial Technologies Steering Committee and other appointed subcommittees.

#### **4. Membership**

Membership on this task force shall be comprised of volunteers (or their designees) from the GeoBoard.

Members may, on occasion, designate alternates to participate in task force meetings during their absence.

#### **5. Roles and Responsibilities**

##### **5.1 Leads**

The lead for the Service Delivery task force will be Steve Aux, CIO for the Department of Conservation and Natural Resources.

The lead's responsibilities include:

- Presiding over and facilitating meetings;
- Coordinating and prioritizing task force activities;
- Providing recommendations to the GeoBoard for consideration;

##### **5.2 Task Force Members**

Task force member responsibilities include:

- Attend and participate in task force meetings and provide input for meeting topics.
- Review, comment on, and, as necessary, vote on matters brought before the task force.
- Provide recommendations to matters discussed during the task force meetings.
- Identify additional volunteer task force members as required.



## **6. Decision Authority**

- Approval of all scope, objectives, timelines and outputs of the task force;
- Vote on decisions and formal recommendations.

## **7. Meetings**

### **7.1 Regular Meetings**

The task force will meet on a bi-weekly or monthly basis or may be convened between regularly scheduled meetings as required to serve the needs of the commonwealth.

### **7.2 Meeting Agenda**

An agenda for regular meetings of the task force will be prepared by the Chair & Vice Chair and will be sent to each member of the task force in advance of each meeting. Discussions and actions by the task force may not, however, be limited to the items included on the agenda.

# State Geospatial Coordinating Board (GeoBoard)

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## Data Program Task Force

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### *Final Charter*

#### **1. Mission**

The mission of the data program task force is to identify initiatives and approaches that remove barriers to sharing geospatial data across the commonwealth and promote cost effective approaches to data sharing. The focus is on driving operational efficiencies and value-add solutions while advancing the commonwealth's delivery of geospatial services.

#### **2. Goal**

The data sharing task force will focus on providing practical solutions to improving geospatial data sharing in the commonwealth – across all facets of government and citizenry. The task force will provide a business and technical perspective in the identification of technical needs and opportunities, provide recommendations on how to implement and optimize solutions to address broader data governance goals.

#### **3. Objectives**

- Identify specific initiatives to address the establishment of data standards and common data models for prioritized high value data sets and imagery.
- Review current mechanisms for data collection and identify improvements to streamline data gathering efforts in a more cost effective manner
- Review data dissemination practices in place and identify improvements to distribution of data sets and imagery – to include the development of or enhancements to a central data repository.
- Evaluate current practices for data stewardship and establish a process and procedure for data stewardship.
- Evaluate current mechanism for data sharing and identify any gaps that may need to be shored up to remove any barriers to sharing; including establishment of data sharing agreements or technical standards for data sharing.
- Review the current procedures for exposing geospatial data sets to the public and recommend changes for what data is ultimately shared with citizens.



- Establish a prioritized set of data sets and imagery that are require immediate attention and will have the greatest benefit to the geospatial community.

#### **4. Membership**

Membership on this task force shall be comprised of volunteers (or their designees) from the GeoBoard.

Members may, on occasion, designate alternates to participate in task force meetings during their absence.

#### **5. Roles and Responsibilities**

##### **5.1 Lead**

The lead for the Data Program task force will be Sean Crager, CIO for the Department of Environmental Protection.

The lead's responsibilities include:

- Presiding over and facilitating meetings;
- Coordinating and prioritizing task force activities;
- Providing recommendations to the GeoBoard for consideration;

##### **5.2 Task Force Members**

Task force member responsibilities include:

- Attend and participate in task force meetings and provide input for meeting topics.
- Review, comment on, and, as necessary, vote on matters brought before the task force.
- Provide recommendations to matters discussed during the task force meetings.
- Identify additional volunteer task force members as required.

#### **6. Decision Authority**

- Approval of all scope, objectives, timelines and outputs of the task force;
- Vote on decisions and formal recommendations.

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# State Geospatial Coordinating Board (GeoBoard)

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## Governance Task Force

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### *Final Charter*

#### **1. Mission**

The mission of the governance task force is to document the geospatial governance process in the commonwealth (to include all governmental entities), establish a list of major priorities or initiatives to address the needs of the broader geospatial community, evaluate approaches to accomplishing initiatives within existing budget constraints, identify opportunities for collaboration to meet common objectives and coordinate activities across other geospatial governing bodies.

#### **2. Goal**

The governance task force will focus on identifying strategies to further the dialogue across the geospatial community to identify common challenges and solutions to solve them within the fiscal constraints the commonwealth is currently facing. The task force will seek to establish frameworks and approaches for adoption across the larger enterprise that yield better decision making, cost effectiveness or improve outcomes.

#### **3. Objectives**

- Identify and evaluate creative approaches to fund geospatial activities in the commonwealth given the current fiscal climate.
- Synchronize IT strategies with business strategy ensuring that the right people are involved in making the right decisions to expand reach, open new channels to better serve and deliver positive, effective outcomes for citizens.
- Lead the development of a commonwealth wide Geospatial strategic plan and business plan in coordination with the other task forces, existing geospatial governing bodies, other governmental entities and interested parties.
- Share and discuss legislative, federal mandates, and other challenges that may be impacting the geospatial community.
- Coordinate information technology investment strategies that may be underway so as to maximize investments.
- Advise and provide direction and recommendations to other standing committees such as the Geospatial Technologies Steering Committee and other appointed subcommittees.



#### **4. Membership**

Membership on this task force shall be comprised of volunteers (or their designees) from the GeoBoard.

Members may, on occasion, designate alternates to participate in task force meetings during their absence.

#### **5. Roles and Responsibilities**

##### **5.1 Lead**

The Chair lead for the Governance task force will be Mike Bialousz, GIS Director at the Department of Conservation and Natural Resources.

The lead's responsibilities include:

- Presiding over and facilitating meetings;
- Coordinating and prioritizing task force activities;
- Providing recommendations to the GeoBoard for consideration;

##### **5.2 Task Force Members**

Task force member responsibilities include:

- Attend and participate in task force meetings and provide input for meeting topics.
- Review, comment on, and, as necessary, vote on matters brought before the task force.
- Provide recommendations to matters discussed during the task force meetings.
- Identify additional volunteer task force members as required.

#### **6. Decision Authority**

- Approval of all scope, objectives, timelines and outputs of the task force;
- Vote on decisions and formal recommendations.

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