



COMMONWEALTH OF  
PENNSYLVANIA

**STATE GEOSPATIAL  
COORDINATING  
BOARD**

BOARD MEETING  
JUNE 8, 2023

[STATE GEOSPATIAL COORDINATING BOARD WEBSITE](#)

# MEETING AGENDA

- **Welcome and Opening Remarks**
- **Leadership Team Updates**
- **Data Task Force Workshop Report**
  - Eric Jespersen - GeoBoard
- **Remote Sensing Opportunity Brief**
  - Gale Blackmer - DCNR
- **Member Forum**
  - Cheryl Cook - PDA
- **New Business**
- **Adjourn**



# WELCOME AND INTRODUCTIONS

- Welcome and Opening Remarks - Mike DeMatt, Kevin Eaton
- Member Roll Call – Mike DeMatt

# MEMBER ROSTER UPDATES

## ➤ Returning

- OA – Mike DeMatt
- DEP – Kevin Eaton
- DCNR – Gale Blackmer
- PEMA – Jeff Boyle
- Agriculture – Cheryl Cook
- DGS – Matt Bembenick
- Municipal Authority- Bill Campbell
- Suburban Community – Joe Livoti
- Rural Community – Jason Aucker
- County GIS Pros – Laura Lettiere
- Keystone GIS – Dave Gilbert
- USGS – Eliza Gross
- PA One Call System – Bill Kiger
- PASSHE GIS – Scott Drzyzga
- PASDA – Maurie Kelly

# MEMBER ROSTER UPDATES

## ➤ New Members

- DOT – Mark Leitzell
- CCAP – David Glass
- APA – Will Hunt
- PSP – Mike Hill

## ➤ Pending

- County EMA – Justin Smith
- Geospatial Expert – Scott Zubek
- County Comm’r – Kevin Boozel
- PSLS Rep – Matt Warner, PLS
- Data Dev Expert – James Whitacre
  
- Urban Community – TBD
- PUC – TBD
- PMAA - TBD

# MEMBER ROSTER UPDATES

## ➤ Completed Service

- Data Dev Expert – Ken Juengling
- County EMA – Phil Colvin/Glenn Mohler
- DOT – Frank Desendi
- County Comm’r – Erick Coolidge
- PA- MAPPS – Howard Hodder
- PSP – Lindsay Manning



# **GEOBOARD LEADERSHIP TEAM UPDATES**

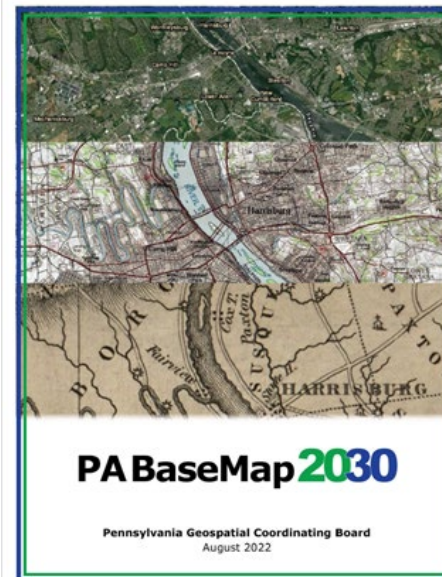
Task Force Leaders

# DATA TASK FORCE

## Task Force Leadership Change

**Departing Chair** – Jeff Boyle, PEMA

**Incoming Chair** – Al Guisepppe, DCNR BGS





# DATA TASK FORCE

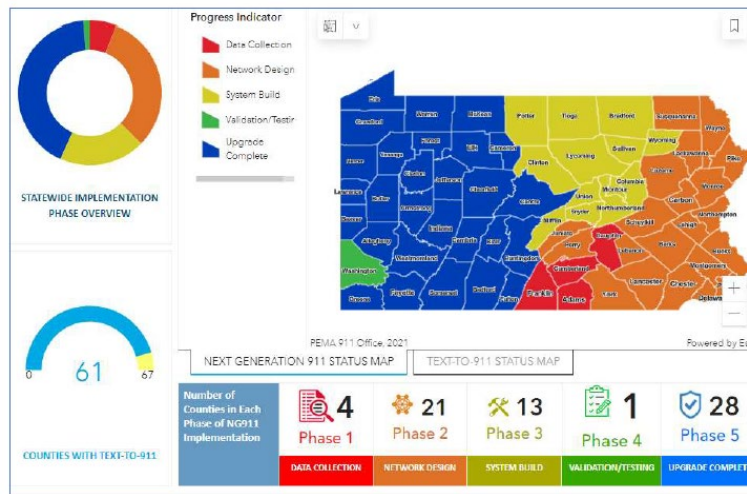
## DISCUSSION ITEMS

### ➤ **NG911 Data Development**

- 28 counties: NG911 GIS data used for geospatial call routing
- All counties have been onboarded to the spatial interface
  - RCL, SSAP, and boundary work continues moving west to east
  - Counties asked to upload data every two weeks
- SSAP Secondary Use subgroup – increasing requests

### ➤ **NG911 GIS Working Group**

- 2023 Goals/Activities
  - Updating PEMA NG911 GIS Data Model and Best Practices Guide
  - Statewide NG911 GIS Strategic Plan Update

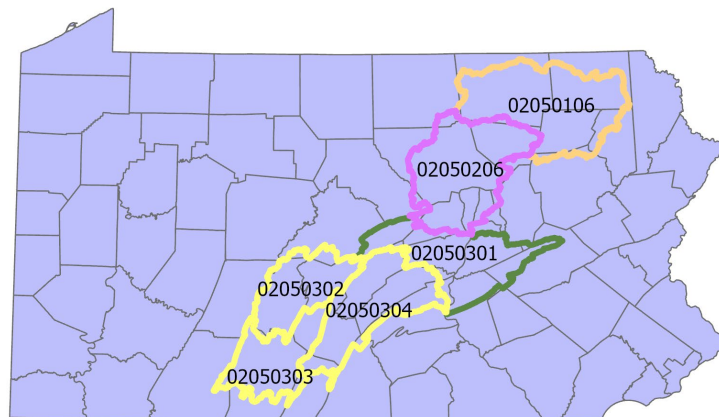


# DATA TASK FORCE

## DISCUSSION ITEMS

### ➤ Hydrography

- Raystown EDH Pilot data in final review by USGS
  - USFWS Wetland Pilot begun recently
- PA\_NE Susquehanna EDH Production in process
  - Operationalize use of Chesapeake Bay Program data
  - NRCS funding
- USGS release of 3DHP data model “imminent”

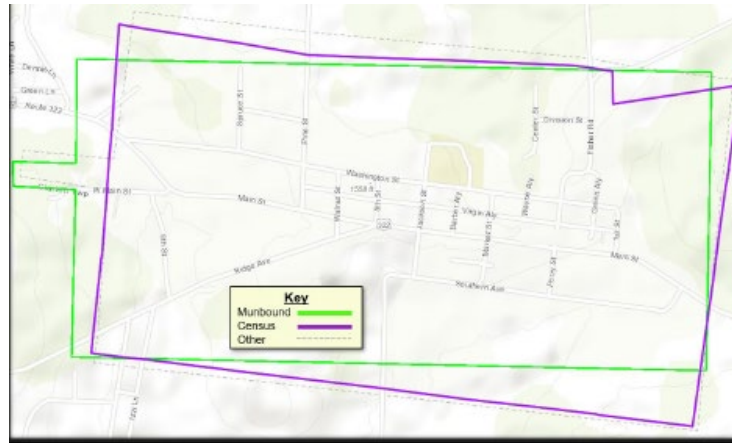


# DATA TASK FORCE

## DISCUSSION ITEMS

### ➤ Civic Boundaries

- US Census Boundary Quality Project - June 14 Kickoff
  - Scope and duration TBD
- Little feedback from LGC Report "*Drawing Lines*" (so far)



DRAWING LINES:  
VARIANCE IN MUNICIPAL  
BOUNDARY MAPS



Local Government Commission  
General Assembly of the Commonwealth of Pennsylvania  
Harrisburg, Pennsylvania

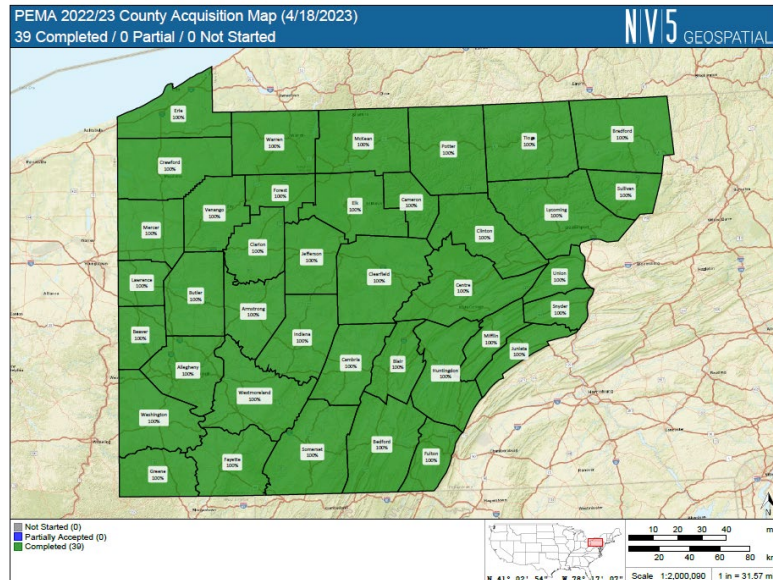
2023

# DATA TASK FORCE

## DISCUSSION ITEMS

### ➤ Imagery/Elevation

- Final year of PEMA Imagery Program
  - Completed second cycle capture in April
  - QC and deliveries accelerated
- Remote Sensing Opportunity Brief \*
  - GeoBoard discussion (ver. 1) November 2022
  - Adjoining states, 3DNTM appendices added



# DATA TASK FORCE

## DISCUSSION ITEMS

### ➤ **Geodetic**

- Ready to read GeoBoard Official Position to codify State Plane Coordinate System based on NATRF 2022, and discussing outreach needed for datum shift.
  - PSLS lead in drafting legislation
  - Recent addition of GIS practitioner in work group
  - Interest in new VRS Network

### ➤ **Parcel (County Pro LRC)**

- Anticipating roadmap template\*
- Related to Data Sharing refinements

### ➤ **Roads (NG911 GIS)**

- DOT internal trial complete for local road inclusion
- Need separate Transportation WG?

# SERVICE DELIVERY TASK FORCE

## Discussion Items:

- ▶ Work with the Center for Immersive Experiences – 3D Philly data may be used in a demo project. Erie County is also interested in working with CIE.
- ▶ Continued participation in the County Pros Land Records group
- ▶ PA Basemap 2030 – still encouraging **ALL** counties to submit data for this effort!
  - ▶ Lead role in planning the 7/13 JTF workshop on Expanding Data Sharing?
- ▶ Plan a metadata workshop in the fall of 2023
- ▶ PASDA Updates:
  - ▶ Western PA imagery is rolling in
  - ▶ PASDA FTP is moving to a new storage architecture
  - ▶ Potential pilot project with National Weather Service to serve out alerts for flooding events
  - ▶ Hosting Kittatinny Ridge Conservation environmental data



# GOVERNANCE TASK FORCE

## ➤ **Legislative Review Subcommittee**

- GeoBoard Reauthorization review
- Comments from Gov TF reviewed by Leadership team
- Sent on to Vince Hudock for his comments
- Key comments include:
  - PAMAGIC to Keystone GIS
  - Remove PAMAPPS (now defunct)
  - Add language to cover administrative transitional periods
  - Small tweaks to how Chair & Vice Chair are selected (Governor to Governor, Secretary of Administration, or Designee)

## ➤ **Communications**

- Management of Geoboard communications structure (Sharepoint, One Drive, Website, etc) is being reviewed and updated. In progress.

# BUREAU OF GEOSPATIAL SERVICES

## ➤ **NSGIC Geospatial Maturity Assessment 2023**

- In progress

## ➤ **Bureau of Geospatial Services Strategic & Tactical Plan**

- In progress
- Informed by current and previous reports from multiple GIS interest groups from local, state, and federal level
- Will be shared on Bureau website when completed

## ➤ **Geospatial Center of Excellence (GCoE) Committee**

- Is the OA OIT Internal Geospatial Committee
- Currently drafting standards & governance
- Will be shared on Bureau website when completed

*[Office of Administration, Office of Information Technology, Enterprise Data Office] The Bureau of Geospatial Services is a participant in the GeoBoard and appreciates the opportunity to share the above updates with the GIS stakeholders here today.*



# EXECUTIVE DIRECTOR

## DISCUSSION ITEMS

- **Implementation Tasks**
  - Finalized and published on website
- **Alignment/Support**
  - Within Enterprise Data Office
  - Meeting and communications support
- **Member Designations**
  - Part of larger transition
  - Chance for visibility
- **Quarterly Meeting Sequence**
  - Joint Task Force Workshops

### State Geospatial Coordinating Board

The Pennsylvania State Geospatial Coordinating Board was established within the Office of Administration by Act 178 of 2014 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." In June 2020, the operations of the GeoBoard were re-authorized through the enactment of Act 37 of 2020.

- [2022 Annual Report](#)
- [Strategic Plan](#)
- [Strategic Plan - Implementation Approach](#)
- [Get involved in the GeoBoard](#)



# DATA TASK FORCE WORKSHOP

May 11, 2023

# DATA TASK FORCE WORKSHOP

## Implementation Task

*Each Working Group will create and publish a road map for data layer planning that informs data development and maintenance decisions by agencies and organizations in that working group and reflects the functional requirements and the integration of each dataset as a component in PA BaseMap 2030.*



# ▶ Base Map Data Layers

<b>Roads</b>	Federal, State, County, Municipal
<b>Imagery</b>	Federal, State, County
<b>Hydrography</b>	Federal, State, County
<b>Elevation</b>	Federal, State
<b>Geodetic Control</b>	Federal, State
<b>Civic Boundaries</b>	State, County
<b>Parcels</b>	County
<b>Addresses</b>	County, Municipal

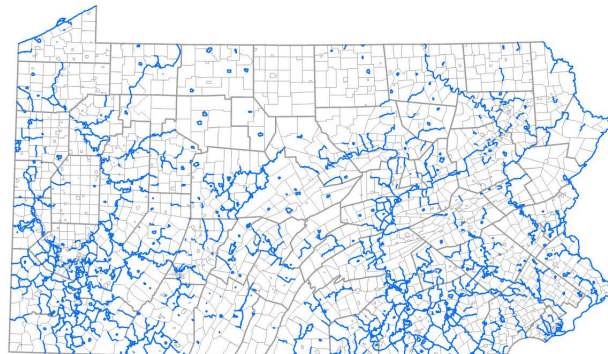


***Input from all levels of government!  
Same datasets identified as National Spatial Data Infrastructure***

# DATA TASK FORCE WORKSHOP

## Desired Outcomes

- *Agreed upon roadmap template*
- *Working group linkages listed*
- *Agreed upon follow up meeting date*
- *Steering team in place*
- *Resource needs identified*
- *Begin to coalesce working groups back into a Data Task Force*



**Hydrography/Civic Boundaries**

## ***Hydrography and Transportation***



# DATA TASK FORCE WORKSHOP

## Decisions

*Each working group will create an annual update known as its roadmap. The roadmap will include at least the following information:*

- *Goal(s) describing the desired end state of the dataset by 2030, in plain language, including:*
  - o *data stewardship plans*
  - o *update cycles and accuracy goals*
- *Stretch goal to be sought if modernization is ahead of schedule.*
- *Linkages to other datasets and related opportunities.*
- *Obstacles and strategies for overcoming them.*
- *Contact information for working group leadership.*

# DATA TASK FORCE WORKSHOP

## Decisions (cont'd)

*On the GeoBoard website we will create a blank library for each working group to populate with key documents about their dataset.*

*Working groups will present their draft roadmaps to each other at the October 12, 2023 Joint Task Force meeting.*

*A group consisting of representative(s) of each working group will create an overall roadmap for PA BaseMap 2030 for discussion at the GeoBoard's November 16, 2023 quarterly meeting.*

# DATA TASK FORCE WORKSHOP

## Satisfactions

*Relationships built and sustained generally, and evolution of specialized working groups broad enough in membership to answer any questions that arise in daily operations.*

*Specific data development successes such as address data for NG911 call routing, statewide lidar promotion and creation, and two complete iterations of publicly available high-resolution imagery.*

*Development of a clear vision for and value of unified mapping.*

*The potential for involvement of additional and younger professionals who can build on our successes and learn from our failures and frustrations.*



# DATA TASK FORCE WORKSHOP

## Frustrations

*Slow pace of change, and repetitious nature of many conversations over the years.*

*Discontinuous nature of budgets for essential modern data needs like imagery. That frustration is compounded by the recognition that relatively small investments in coordination have large positive impacts.*

*Difficulty of reconciling the universal technological needs of modern governments with the limited resources available to rural communities with smaller populations.*

*Continuing difficulty in aggregating local data - parcel mapping is the obvious example - that would be useful for multiple agencies but for which no single agency's resources are sufficient to steward that data alone.*

# DATA TASK FORCE WORKSHOP

## Frustrations (cont'd)

*Variability of data quality and standards make aggregation and analyses more costly and tedious than necessary.*

*Data sharing among state and local governments is still more difficult and misunderstood than needs be among trusted partners.*

*At this late date, and in spite of myriad examples and models from other states, we still have few specific coordination goals nor plans in place with resources to accomplish them.*

# DATA TASK FORCE WORKSHOP

## Communications

*The purpose of the GeoBoard is to understand opportunities and build messaging that attracts resources to accelerate those opportunities. Simple templates and branding will make the messaging easier to transport and share. The dataset libraries will provide depth where needed.*

*GeoBoard members will be active in promoting PA BaseMap 2030, and recruit others to participate in working groups and projects.*

*We will build upon successes by documenting them and learning from them. We may need a Communications workgroup to help get our causes, voice, needs, etc. beyond the members.*

# DATA TASK FORCE WORKSHOP

## Communications (cont'd)

*Simple templates and branding will make the messaging easier to transport and share.*

*The dataset libraries will provide depth where needed.*

*We will build upon successes by documenting them and learning from them.*

*Quarterly contact each member*

*Improved use of Sharepoint for collaboration*

*Support from Enterprise Data Office very helpful*

*Plan draft by August GeoBoard meeting*



# REMOTE SENSING OPPORTUNITY BRIEF

VERSION 2



# Remote Sensing Stewardship Exploring Alternatives to Current Practice

PA GeoBoard Elevation Working Group  
May 2023

Elevation Working Group Leadership Team includes:

- *Gale Blackmer, DCNR Bureau of Geological Survey*
- *Eliza Gross, USGS National Geospatial Program*
- *Scott Drzyzga, Shippensburg University*
- *Joe Petroski, DCNR Bureau of Forestry*
- *Steve Kocsis, Cambria County*
- *Scott Dane, PASDA*
- *Eric Jespersen, PA GeoBoard*

*"Pennsylvania has benefited from at least two previously executed coordinated data programs. The PAMAP Program was conceived in 2001 and collected statewide lidar and photography between 2005 and 2008, at which point funding dissipated. The PEMA 911 Program responded to a stated desire of local governments for consistent statewide imagery with their program starting in 2018... **expected end after this year's collection**"*

*Lessons learned from these initiatives as well as current need are drivers for the elements of a coordinated framework ... as an alternative to current ad hoc methods."*



**PAMAP  
Collection  
Regions**

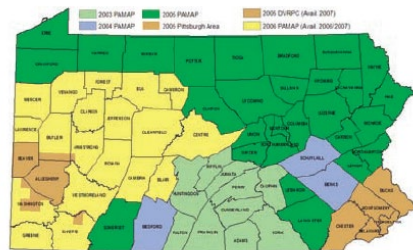
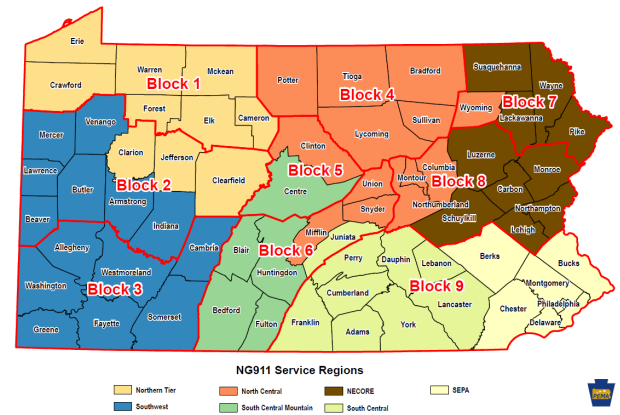


Figure 1. "Gerrymandered" effect of early project design



Figure 2. Proposed three year update acquisition plan to begin in 2007.

**PENNSYLVANIA AERIAL IMAGERY PROGRAM  
IMAGERY COLLECTION BLOCKS**



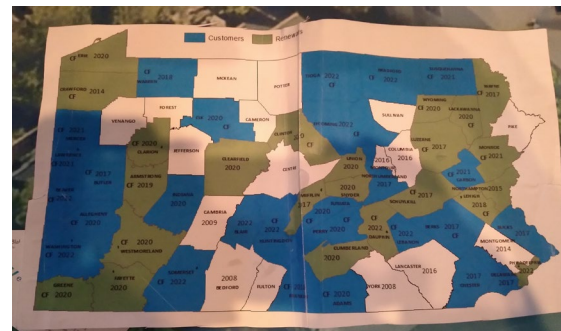
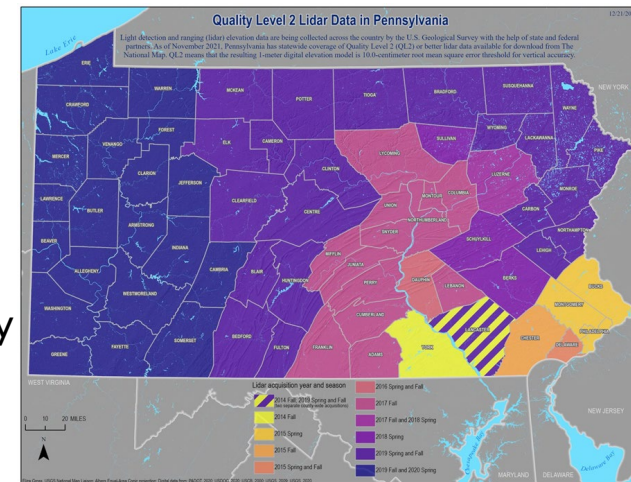
# Results of Current Practice

## Positive Aspects

- We have rich, frequent imagery and robust lidar
- We have talent in public, private, and academic sectors
- Expect huge advancements in data management and data analytics

## Negative outcomes from having no ongoing program

- Overlapping contracts/overlapping coverage
- Unsynchronized lidar and imagery
- Multiple tiling schemes
- Inconsistent deliverables
- Mix of services and on-premise data with mixed availability
- Incomplete inventory/catalog
- Uncoordinated purchasing power
- Multiple procurement efforts
- Varied specifications
- Varied contract terms and conditions
- Uncertainty
- Variable technology uptake



Oblique Imagery Contracts by Counties





## Report Outline

*Background and Current Practice*  
*Exploring Alternatives*

- *Governance*
- *Acquisition*
- *Data Management*
- *Sustained Funding*

*Outcomes*

*Recommendations*

*Appendix A – Other States’ Imagery Programs*

*Appendix B – USGS 3D Nation and its Pertinence  
to Pennsylvania*

“Without more intentional coordination we will continue the disconnected specification and procurement that is current practice, wasting money and missing opportunities for shared applications and concerted action.”



## Call for Action Discussion

What do we want to do about this?

What is the role of GeoBoard members in promotion?

What other opportunities are ripe or ripening?

“In an environment where a national cooperative project (3DNTM) is evolving into a permanent, scientifically rigorous, and technically innovative program it seems logical that Pennsylvania also establishes a permanent approach to funding and data management”



# MEMBER FORUM

# MEMBER FORUM

Themes for today:

- Communications
- Member engagement
- Opportunity focus
- Complex opportunities
- Geospatial positioning in the EDO

# MEMBER FORUM

New Business Topic submitted by Cheryl Cook:

*"Could members of the GeoBoard whose agencies already have done some mapping around the Norfolk Southern train derailment for their own purposes create an integrated view for everyone's consumption, including the Governor's Office?"*

... led to discussions on the role of the GeoBoard and how to best to meet its mission.

# NEW BUSINESS

## ➤ **Expanding Data Sharing Workshop**

- July 13 Joint Task Force Meeting
- Goal: Review successes, constraints and needs related to sharing of geospatial data among state and county partners in PA, with the intent of expanding data sharing for mutual benefit.

## ➤ **Topics for August 10 meeting**

- Datum-related Official Position
- Member Forum
- Opportunity Brief
- Communications Plan

# FUTURE MEETINGS

- August 10, 2023
- November 16, 2023

## LOCATION

Virtual Conference and 1 Technology Park-  
Commonwealth Technology Center (CTC) , Harrisburg,  
PA 17110

*Reminder: new business agenda topics are finalized  
five (5) weeks prior to Board meetings.*