# DGDC Meeting Minutes
# February 12, 2015

**Attendance List:**

Bruce Allen ........................DelDOT
Mark Biddle ........................DNREC
Bryan Block ........................DNREC
Dave Braig ........................JMT
Don Burris ........................DelaSoft
Kim Cloud..........................DTI
Dan Cook ..........................DTI
Jim Galvin ........................Dover-Kent MPO
Lisa Gavani ........................DSHA
Jay Gerner ........................DelDOT
Bernie Gilbert ....................DelDOT
Alice Guerrant ....................DCHA
John Inkster ......................DNREC
Matthew Laick ...................DSHS
Danielle Lamborn ...............Kent County
Mike Mahaffie ....................GIC
Ben Mearns .......................UD
Noemi Mendez-Eliason ......Census
Nicole Minni........................UD-WRA
Megan Nehrbas.................Sussex County
Rick Perkins ......................DPH
Miriam Pomilio....................OSPC
Brooke Santiago.................City of Wilmington
Jason Sealy .......................ESRI
William Seybold .................DDA/Forestry
Rick Sherwood ..................DEMA
Brittany Sturgis ...................DNREC
Debbie Sullivan ..................DTI
Mike Townshend ...............DTI
Art Walker .........................USDA-NRCS
Lillian Wang ......................UD/DGS
Greg Wilson ......................DNREC
Despina Wilson ..................DOE
George Yocher .................DPH

## Welcome & Introductions

Miriam Pomilio started the meeting at 9:05 am.  She welcomed everyone to the meeting and introductions were made.

## Approval of November 2014 Meeting Minutes

Mike Townshend made a motion to approve the **November 13, 2014 meeting minutes (PDF).**  James Galvin seconded the motion and it passed unanimously.

## FirstMap Presentation

Miriam Pomilio did a presentation (attached) about FirstMap; what it is and how to use the system.  She also detailed what data is available in the Public side of the database.  Kim Cloud followed with a presentation (attached) regarding how data owners can update and connect to the database. Discussion followed regarding other data users wish to see in the database, other services to provide users, training needs, and ideas for improvement.

**Data Needs**

The following datasets were mentioned as additions to FirstMap during the meeting:

Ag & Forestry Lands
Ag Easements
Ag Leases
Polygon Subdivisions
DEM of the LiDAR

Miriam noted that DDA has been given the connection instructions and will be uploading data very soon. It was also noted that the Subdivisions are already available through FirstMap – and even though what we have displayed is just the "Name" the underlying data is polygon based.

**Other Services**

FirstMap is working on creating a geo-coding service using Delaware's authoritative address data.  In addition, FirstMap is working to set up an Open Data site to provide users the ability to download data in a variety of formats.  It is anticipated both of these services will be available by April 2015.

Meeting attendees also asked for the following services from FirstMap:  Spatial analysis, Network Analysis and 3-D.  Mike Townshend indicated these are all available under the ELA and DTI will look into activating these for the end users.

**Training for FirstMap and ArcGIS Online**

Ben Mearns of UD showed how he has prepared some simple training videos, which are posted on the UD GIS website.  FirstMap may consider doing similar quick easy tutorial videos and post for users as well.

Additional training was discussed and there are several online courses that are available for ArcGIS Online, some are free, others are fee based.  The State ELA provides for Virtual Campus class credits. To take a virtual campus course, contact Kim Cloud to get the registration code.  You can access the class schedule at:  http://training.esri.com/gateway/index.cfm?fa=aul.premiumCourses.

**Keeping Up with FirstMap**

Miriam encouraged users to like FirstMap on Facebook and follow us on Twitter (@FirstMap).  Mike Townshend challenged the group to get 100 Likes on Facebook, so spread the word!

FirstMap also created an account through the State's Blackboard account. Anyone wishing to subscribe to get updates regarding FirstMap can do so at: https://denotificationservices.bbcportal.com/  (Then under Manage Subscriptions, select FirstMap).

## Aerial Imagery Discussion

Matt Laick from DSHS announced that his agency has procured a contract with Pictometry, through INTRADO, to fly statewide aerial imagery. This contract can only extend to the Public Safety community. The imagery that DSHS has contracted is 9-inch for the suburban areas with 3-inch resolution for the urban areas. It includes the Pictometry on-line delivery system, tiles, and oblique imagery for the entire state.

Pictometry has provided pricing to OSPC to extend the use to the remainder of the State, county and municipal agencies.  Miriam will be meeting with the Aerial Imagery sub-committee in the next few weeks to discuss further.

## Federal Update

**USGS** – Roger Barlow was not at the meeting but sent an update on the LiDAR data status.  USGS National Geospatial Technical Operations Center (NGTOC) approved all contractor deliverables for this project.  It is estimated to take about 30 days to tile the data. Contributing partners may expect to receive copies of the data in the first week of March.  Miriam contacted Roger after the meeting to get

Haslet Armory
122 Martin Luther King Jr. Blvd. South
Dover, DE 19901

stateplanning.delaware.gov/dgdc
twitter.com/DelawareGIS
2

an update on the Bathymetric LiDAR data that NOAA was working on in conjunction with this project. Roger has since reported the NOAA project has delays. The original delivery date (January 15) has been pushed back to March 15, 2015. The reason for the delay is the topographic/bathymetry data needs more interpretation. The National Geodetic Survey (NGS) will be looking closely at the data before a final product is released.

**Census** – Noemi Mendez reported that the American Community Survey 3-year estimates will be eliminated in FY16. Only the 1 and 5-year estimates will continue in the future.

## Academia Update

**University of Delaware**
**Ben Mearns** with the RDMS group at UD announced that he will be leaving UD in May. His position will be posted before he departs to allow knowledge transfer. Ben will email the posting and Miriam will make sure it gets out to the DGDC.

**Lillian Wang** noted the Delaware Geological Survey (DGS) is working on a Collector application to assist their field workers. She also noted the DGS is hosting its Second Geological Research Symposium at UD Perkins Center on Tuesday April 14, 2015. Registration is now open and the fee is $25. Attendance will provide CEU's for professional geologists in Delaware.

**Nicole Minni** reported the Surf Mapping application has been updated.

## Open Comment Period

**Alice Guerrant**, Historic and Cultural Affairs, reported that the new CHRIS application is being launched on Monday February 16, 2016. Kim Cloud and Miriam Pomilio both attended an overview of the new application and were very impressed.

**Jason Sealy**, Esri, noted the Federal UC is just wrapping up in DC this week and that the Esri Developers Summit is coming up March 10-13 in Palm Springs CA. He also wanted to let users know there are several Esri links that might be of interest: Trust.arcgis.com – provides information on data security, Video.esri.com – has a host of videos on Esri products and events.

**Miriam Pomilio**, OSPC, noted the following conferences were coming up: NSGIC Mid-Year late February; TUGIS is being held March 17; Esri User Conference in San Diego is July 20-24.

**John Inkster**, DNREC, announced there is a Tax Ditch Application coming soon. It will assist land owners and real estate professionals about Tax Ditch laws and locations.

**Debbie Sullivan**, DTI, announced the next Delaware User Group (DUG) meeting will be May and she is looking for content. If you have something to present, please contact Debbie Sullivan or Danielle Lamborn.

**Nicole Minni**, UD/IPA/WRA, reported that the GIS Day was a big success this year and the group was able, through sponsorship, to provide a nice donation to the Dover Air Mobility Command Museum. The museum has graciously provided a location for the past 7 years without charging for the use.

**Haslet Armory**
**122 Martin Luther King Jr. Blvd. South**
**Dover, DE 19901**

**stateplanning.delaware.gov/dgdc**
**twitter.com/DelawareGIS**
**3**

**Brooke Santiago**, City of Wilmington and Chair of the Geo-Education subcommittee, reported the sub-committee put in for a Grant from Esri to provide workshops for teachers on the use of ArcGIS Online, through Esri's ConnectED program.  She will hear in early March if the grant was awarded.

## Next Meeting

The next DGDC Quarterly meeting is set for May 14, 2015.  It will begin at 9 am and be held in the Kent County Administrative Complex, Room 220.

## Adjournment

Matt Laick made a motion to adjourn the meeting and it was seconded by Mike Townshend.  The meeting was adjourned at 11:35 am.

**Haslet Armory**
**122 Martin Luther King Jr. Blvd. South**
**Dover, DE 19901**

**stateplanning.delaware.gov/dgdc**
**twitter.com/DelawareGIS**
**4**

# DGDC Meeting

# Overview

- What is FirstMap

- What Data is Available

- How to use FirstMap

- Next Steps

FIRSTMAP

# What is FirstMap

- Delaware's Single location for access to all geospatial data
  - County Data
  - State Agency data
  - Academia data
- Web and Feature Service Access
- Security for sensitive data
- Ability to easily create maps and applications for our constituents

FIRSTMAP

# What's available today?

- Map Services
- Image Services
- Feature Services
- [ArcGIS Online](#) for Organizations
  - Online Mapping access
  - Online Application access
  - Online Story Map access
  - Data Access
- [Website](#)
  - Instructions
  - Data Information
  - Story Map Gallery

FIRSTMAP

# Data Organization

- Data is organized by ISO categories
  - BaseMap
  - Boundaries
  - DE_Imagery
  - Elevation
  - Environmental
  - Geology
  - Hydrology
  - Location
  - Planning/Cadastre
  - Society
  - Transportation

FIRSTMAP

# What Data is Available

- BaseMap
  - DTI put together a nice Base Map showing Roads, Railroads, water, municipalities, outdoor recreation, boundaries, and contours

- Boundaries
  - County and State
  - Senate and Representative Districts
    - With Census Data included
    - With Legislative Session information
  - Municipalities
  - School Districts
  - Spray Block Map

FIRSTMAP

# Data (continued)

- DE_Imagery
  - Aerial Imagery (2102, 2007, 2002, 1997, 1992, 1968, 1961, 1954, 1937)
- Elevation
  - Contours – Map Service available includes all contours
- Environmental
  - Sea Level Rise (map and feature services)
  - Well Head Protection Areas
- Geology
  - Groundwater Recharge Areas
  - Delaware Soils – newest ones from the NRCS

FIRSTMAP

# Data (continued)

- Hydrology
  - FIRM (Flood Insurance Risk Maps)
  - Tax Ditches
  - Water
  - Wetlands
- Location
  - Communities (from Counties)
  - Geographic Names (GNIS)
  - Wetlands Map Index

FIRSTMAP

# Data (continued)

- Planning Cadastre
  - 2010 State Strategies
  - Downtown Development Districts
  - Impervious Surface ( 2012 and 2007)
  - Land Use/Land Cover (2012, 2007 Revised, 2007)
  - Parcels (from Counties)
  - PLUS

# Data (continued)

- Society
  - Adopt-A-Wetland
  - Historic Places
  - Libraries
  - Natural Areas
  - Outdoor Recreation
  - Park Facilities
  - Public Protected Lands
  - Schools
  - Sports Hunger

FIRSTMAP

# Data (continued)

- Transportation
  - Aeronautics
  - Bike
  - Bridges
  - Centerline
  - Evacuation Routes
  - Intersections
  - Paving
  - Private/Proposed Streets
  - Railroad
  - Road Inventory
  - Roadside Obstructions
  - Roundabouts/Traffic Circles
  - Routes
  - Traffic Counts
  - Trails and Pathways

FIRSTMAP

# How to Use FirstMap

- ArcGIS Desktop
- ArcGIS Online
  - http://delaware.maps.arcgis.com/home/
- Services
  - http://firstmap.gis.delaware.gov/arcgis/rest/services

FIRSTMAP

# What's coming next?

- Metadata
  - Small working group investigating GeoPortal by Esri as the metadata Solution for FirstMap
- Open Data – Esri product to allow discovery and download of data
  - Work in progress
- Geo-coder
  - Work in progress.

FIRSTMAP

# Questions?
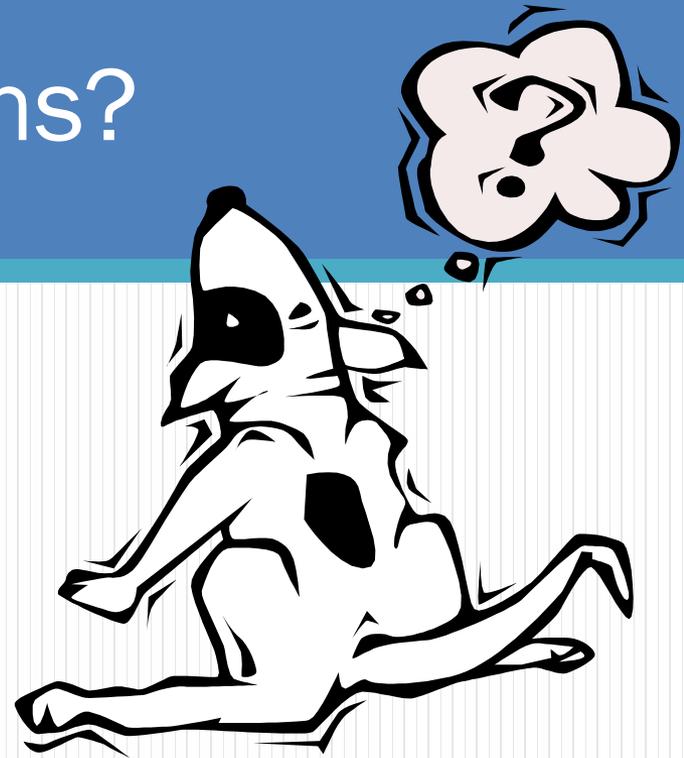
Contacts:
FirstMap@state.de.us

Miriam Pomilio, OSPC
Miriam.Pomilio@state.de.us

FIRSTMAP

# Technical Overview for Data Owners

Delaware Geographic Data Committee

February 2015

# Agenda

- Data Owners
- Adding Data
- Creating Services
- Data Update Workflow
- FirstMap Team Support
- Data Owner Resources
- What's Coming
- Wrap-Up / Q&A

# Data Owners

- Who are the Data Owners?
  - Anyone who creates and maintains data.
  - Authoritative source.
  - Primary and a backup.
- Can directly connect to the Private (State-only) FirstMap database.
- Can create and edit data directly in the FirstMap private database through ArcGIS Desktop.

# Data Owners

▸ System Requirements for Connecting:
- ◦ Need a static IP address.
- ◦ Firewall rule is required for access to the database.
- ◦ Oracle Client must be installed on the user's desktop.
- ◦ Must have ArcGIS Desktop 10.2+
- ◦ Database connection files for the FirstMap Private database.

# Adding Data

- To add data, connect directly to the private database through ArcGIS Desktop.
  - Database Connections ->
    - ⊞ 🗄 prod_EGISPRIVP_ospc_owner

- Create new feature classes or datasets.
- Notify DTI of new data to be pushed to public.

# Adding Data

▸ Sample ArcCatalog Database View

| | |
|---|---|
| DELDOT_OWNER.NPDES | SDE Feature Dataset |
| DELDOT_OWNER.Rail_Features | |
| DELDOT_OWNER.Real_Estate | |
| DELDOT_OWNER.Roadside_Obstructions | |
| DELDOT_OWNER.Roadways | |
| DELDOT_OWNER.Traffic_Counts | |
| DELDOT_OWNER.Traffic_Devices | |
| DELDOT_OWNER.Transportation_Map | |
| DELDOT_OWNER.Transportation_Projects | |
| EGIS_OWNER.Parcels | |
| EGIS_OWNER.Tax_Parcels | |
| OSPC_OWNER.AIS_LULC_2007_REV | |
| OSPC_OWNER.AIS_LULC_2012 | |
| OSPC_OWNER.AIS_LULC_COMPOSITE_07_12 | |
| OSPC_OWNER.DE_Libraries | |
| OSPC_OWNER.DE_STATE_BND_NEWCNTYBN | |
| OSPC_OWNER.DOE_PRIVATE_SCHOOLS | |
| OSPC_OWNER.DOE_PUBLIC_SCHOOLS | |
| OSPC_OWNER.DOE_SCHOOL_DISTRICTS | |
| OSPC_OWNER.DOE_VOTECH_DISTRICTS | |
| OSPC_OWNER.DowntownDevelDistricts | |

| | |
|---|---|
| DELDOT_OWNER.Transportation_Projects | SDE Feature Dataset |
| EGIS_OWNER.Parcels | SDE Feature Dataset |
| EGIS_OWNER.Tax_Parcels | SDE Feature Dataset |
| DNREC_OWNER.All_Protected_Lands | SDE Feature Class |
| DNREC_OWNER.CH_PCSWatershedBoundary | SDE Feature Class |
| DNREC_OWNER.CH_PNS3Buffer | SDE Feature Class |
| DNREC_OWNER.CH_PSNTidalSWMP | SDE Feature Class |
| DNREC_OWNER.CH_TidalWater | SDE Feature Class |
| DNREC_OWNER.DE_AIR | SDE Feature Class |
| DNREC_OWNER.DE_ALLWELLS | SDE Feature Class |
| DNREC_OWNER.DE_ASTFACILITY | SDE Feature Class |
| DNREC_OWNER.DE_BROWNFIELDS | SDE Feature Class |
| DNREC_OWNER.DE_ENFACTION | SDE Feature Class |
| DNREC_OWNER.DE_FACILITIES | SDE Feature Class |
| DNREC_OWNER.DE_INSPECTIONS | SDE Feature Class |
| DNREC_OWNER.DE_LUSTNFALETTERS | SDE Feature Class |
| DNREC_OWNER.DE_MosquitoSprayBlocks | SDE Feature Class |
| DNREC_OWNER.DE_NPDES | SDE Feature Class |
| DNREC_OWNER.DE_PERMITS_RECENT | SDE Feature Class |
| DNREC_OWNER.DE_SIRB | SDE Feature Class |
| DNREC_OWNER.DE_TMBFACILITIESWITHLEAK | SDE Feature Class |
| DNREC_OWNER.DE_UST | SDE Feature Class |
| DNREC_OWNER.DE_WASTE | SDE Feature Class |

# Creating Services

- Services are created by publishing an MXD.
- Any data in the database can be included in a service.
- Connect as the 'egis_viewer' user in ArcMap.


prod_EGISPRIVP_egis_viewer

- Add data to an MXD and set the desired symbology and scale dependencies.
- Send to DTI for publishing.
- DTI can provide assistance optimizing the data and MXD for publishing.

# ← Creating Services

▸ After a service is created, it can be added to ArcGIS Online.

**BaseMap/DE_Basemap (MapServer)**

**View In:** ArcGIS JavaScript   ArcGIS.com Map   Google E

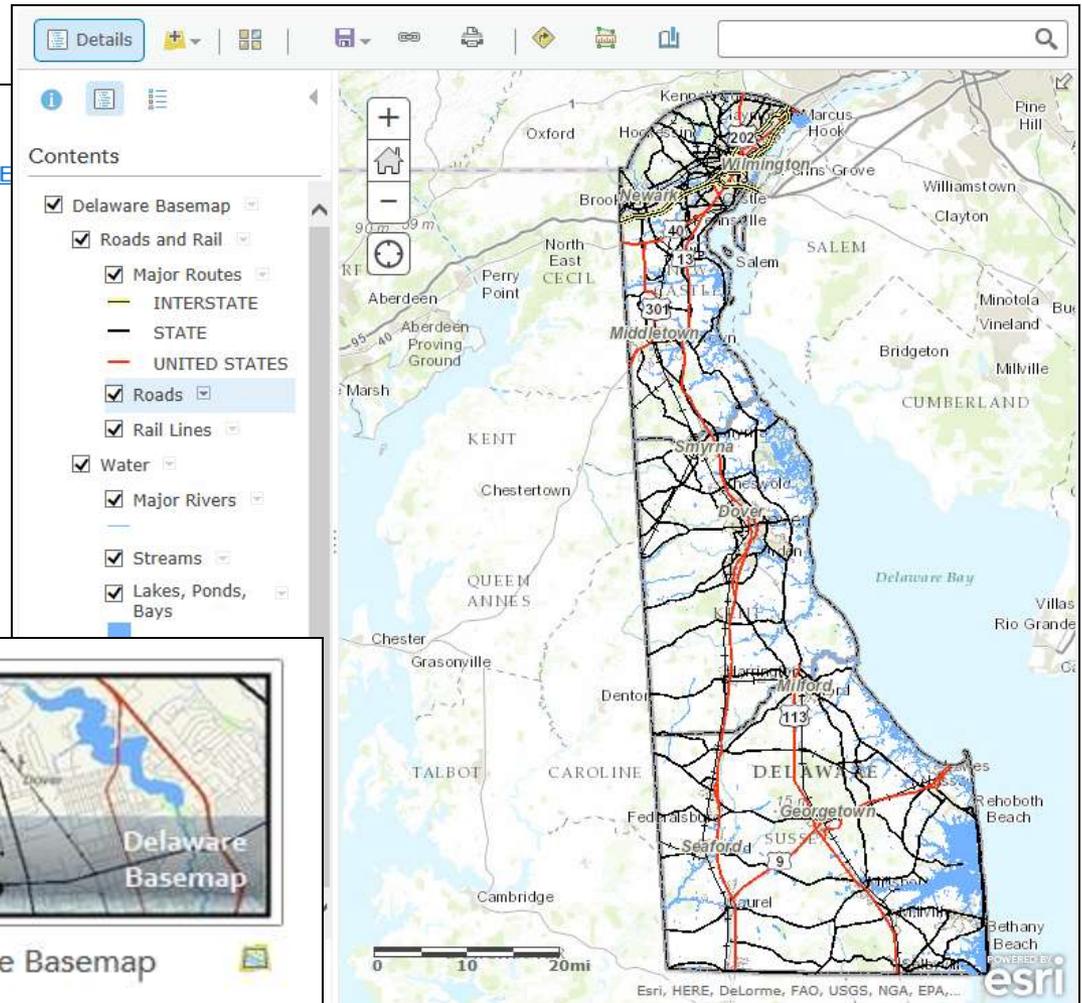**View Footprint In:** ArcGIS.com Map

**Service Description:**

**Map Name:** Layers

Legend

All Layers and Tables

**Layers:**

- Roads and Rail (0)
  - Major Routes (1)
  - Roads (2)
  - Rail Lines (3)
- Water (4)
  - Major Rivers (5)
  - Streams (6)
  - Lakes, Ponds, Bays (7)
- Contours (8)
- Municipalities (9)
- Geographic Names (10)
- Communites (11)
  - Sussex Community (12)
  - Kent Community (13)
  - New Castle Community (14)
- Outdoor Recreation (15)
- Boundaries State County (16)



Details

Contents

☑ Delaware Basemap
  ☑ Roads and Rail
    ☑ Major Routes
      — INTERSTATE
      — STATE
      — UNITED STATES
    ☑ Roads
    ☑ Rail Lines
  ☑ Water
    ☑ Major Rivers
    ☑ Streams
    ☑ Lakes, Ponds, Bays

Service

Delaware Basemap

*FIRST MAP*

Delaware Basemap

# Data Update Workflow

- Updates to data in the Private database have to be synchronized with the Public database by DTI Admins.
- If edits are made directly in the database, DTI can set up replication so you can synchronize your own data.
- If data is copied to FirstMap from another source, DTI has to do the synchronization.
  ◦ Typical turnaround time is less than 1 business day from the time we receive a request.

# Data Owner Resources

▸ Information Sheet for Connected Data Owners

▸ Prepare an MXD for Publishing

▸ FirstMap Getting Started Page
  ◦ https://firstmap.gis.delaware.gov/started.shtml

# FirstMap Team Support

▸ The FirstMap Team can provide a wide range of support:
  ◦ Configuring data owner workstations
  ◦ Connecting to the data
  ◦ Adding new data
  ◦ Pushing updates to the public database
  ◦ Optimizing data for services
  ◦ Optimizing symbology and MXD settings for services
  ◦ Modifying existing services

# FirstMap Team Support

▸ **Support, cont'd**
- ◦ Using ArcGIS Online
- ◦ Creating ArcGIS Online accounts
- ◦ Data sharing agreements
- ◦ Registering services with OpenData
- ◦ Creating metadata
- ◦ ESRI Virtual Campus training

# What's coming next?

- April 2015
  - Geocoding service
  - Statewide Centerline
  - Statewide Parcels
  - Statewide Point Addressing
  - OpenData announcement
- Spring 2015
  - Migration of data from the Delaware Geospatial Data Exchange into FirstMap & OpenData
- Summer 2015
  - Decommission of the Geospatial Data Exchange

# ←Wrap-Up

- Questions

- Discussion

FirstMap Team
FirstMap@state.de.us

Kim Cloud, GISP
Dept. of Technology & Information
Kim.Cloud@state.de.us
(302)739-9611