



Attendance List:

Jennifer Anderson-Reno.....DHCA
 Nathan Attard.....Del Transit
 Roger Barlow.....USGS
 Stephanie Belinske.....DHSS
 Lori Brown.....DNREC-NPS
 Luis Cetina-Tom.....self
 Kim Cloud.....DTI
 Daniel Cook.....DTI
 Adam Crosby.....Delaware Greenways
 Justin Cusick.....Esri
 Taryn Davidson.....Kent County
 Francesco DiPablo.....JMT
 Drew Faulhaber.....DNREC
 Sabrina Fite.....Sussex County
 Jay Hodny.....City of Newark
 James Hoff.....USAF/DAFB
 Ron Holmes.....New Castle County
 George Houck.....Kent County
 Danielle Hurlock.....Kent County
 Jason Inkster.....DNREC
 Kym Kelly.....Del Tech Community College
 Mark Kinnemon.....KCLC
 Jimmy Kroon.....Dept. of Agriculture
 Brian Laws.....City of Newark
 Thomas Match.....Town of Smyrna
 Dawn McCall.....self
 Morgan McGee-Soloman....DNREC
 Nicole Minni.....UD-IPA
 Mark Nowak.....City of Dover
 Miriam Pomilio.....OSPC
 Mark Prettyman.....DNREC
 Jason Sealy.....Cyclomedia
 William Seybold.....DE Forestry Service
 Sigrid Smith.....DE State University
 Debbie Sullivan.....DTI
 Doyle Tiller.....DE Facilities Management
 Mike Townshend.....DTI
 Helen Triff.....DE State University
 Sharon Ungerer.....NCC
 Seth VanAken.....ESRI
 Jason Vogel.....DelDOT
 Dan Warner.....DGS
 Anna Weigbreit.....Pennoni Associates
 Carl Yetter.....DNREC
 George Yocher.....DPH

DGDC Meeting Minutes - DRAFT
February 20, 2020

Welcome & Introductions

Miriam Pomilio started the meeting at 9:34 am. She welcomed everyone to the meeting and introductions were made.

November 14, 2019 Meeting Minutes

George Houck made a motion to approve the November 14, 2019 Meeting Minutes (PDF). The motion was seconded by Carl Yetter and it passed unanimously.

Geospatial Education Committee

Nicole Minni the chair of the Geospatial Education committee reported:

- They are working to align GeoInquires with Delaware State Standards so they can be used in schools.
- University of Delaware will be having a GIS Day Camp.
- Geo Mentor Survey are available on www.mygeoworld.org website.
- Three teachers were nominated for GIS Education award.
- GIS Day is on the road and will be at Clayton Elementary next.

We continue to need additional GeoMentors, if you're interested in volunteering some of your time to schools and/or special educational events, please contact [Nicole Minni](#).

Delmarva GIS Conference Update

Debbie Sullivan provided the following update:

- They now have 15 vendors now and there are more to come.

- The Conference will be held April 29 and April 30, 2020 in Dewey Beach.
- Registration is open now.
- There will be Pre-conference Workshops and a Post-Conference Drone Workshop
- GIS Service award and GIS in Education award nominations are open until late February, and there are already several nominations.

Data Discussion

Miriam handed out an overview of the time frames and costs for the three major datasets needed statewide (see attached). Data collection timeframes and costs were discussed by the committee. It was recommended that we revisit the data specifications to ensure we are covering the needs of the data users. It was further recommended that we gather information about how the agencies are using these data sets and what savings may be realized by updating these regularly. Mike Townshend suggested we re-visit the idea of a Revolving Fund as a mechanism for assuring we can purchase these products together. Miriam suggested we set up a sub-group to flesh out these items. Volunteers for this subcommittee are: Kim Cloud, Jimmy Kroon, Mike Townshend, Dan Warner, Carl Yetter (Bob Scarborough) and Roger Barlow. Miriam will coordinate a meeting. The following suggestions were also made:

- Roger said that with the amount of coast we have that we should get the tide coordinated LiDAR.
- Will need to submit to USGS by the end of October to be considered for early flight for LiDAR.
- More information is needed on the Governor's Clean Water Trust Grant
- Megan suggested a separate group to identify what that data is used for
- Roger mentioned with a second collection of LiDAR we can start to map trends

Land Use Land Cover Update – See below in Tech Advisory Notes

DeIDOT reports that the LULC Update is nearing completion. Anticipated delivery is no later than June. This LULC is based on the 2017 Aerial Imagery. The next time we fly aerial imagery we should ensure funding to also update the LULC so we aren't 3 years behind getting that data to be current as we did this time.

Routable Centerline Service

It was reported that the Routable Centerline Service is published on FirstMap, but still going through updates.

Census Complete Count Commission

Kim Cloud reported that Census 2020 has launched its ArcGIS Hub site. There are lots of maps and surveys for the public and Census Ambassadors. There will be a redistricting process after the census is complete.

www.census.delaware.gov will link to the hub

As always if you experience issues, please contact the team at FirstMap@state.de.us.

Presentation – FirstMap 2.0 – What you need to know & Tools to use

Mike Townshend presented on the launch of FirstMap 2.0 and provided information about tools that will make the transition easier for the users. See the attached presentation.

Federal Update

USGS – Roger Barlow reported:

- He will be continuing discussion on Lidar at NRCS building this afternoon with Art Walker
- Lower Eastern Shore of Maryland - LiDAR is funded
- Need LiDAR requirements put into Sea Sketch
- NHD Stewardship is still not taken care of.

Open Comment Period

Kim reported that the ESRI license expiring at end of February. The Fiscal office is still working on ELA terms and conditions, trying to finalize the RFP before the end of the month.

Justin reported the Federal User Conference videos are on YouTube. He further indicated that the MAC-URISA Conference will be held in Newark, Delaware at the Embassy Suites on June 4, 2020. If you are interested in presenting, contact Justin. The Fall meeting in Atlantic City is taking submissions

Miriam reported:

- State Strategy meetings to occur during late March early April and all draft maps are ready.
- The PLUS process is being updated and is waiting on FirstMap 2.0. It will be easier to do reviews and comments. There will be pre-screening tools and able to guide agencies to red flags. It will be approximately 6-8 months before it is deliverable.
- GIS Coordination is still on going. You can let Miriam know if you want to be contacted.

Next Quarterly Meeting

The next DGDC Quarterly Meeting will be on May 14, 2020 starting at 9:30 am and will be held at the Delaware Department of Agriculture. All meetings will have [Skype and/or Conference call accessibility](#).

Adjournment

Roger Barlow made a motion to adjourn the meeting and it was seconded by Jason Seeley. The meeting was adjourned at 11:30 am.

DRAFT

February 2020 Primary Data Sets Age, Update frequency, Cost Estimates

Age, Funding, & Update Frequency of Main Datasets

Year Acquired	Dataset	Funding Source	Update Frequency	Projected Update
Ortho Imagery (Aerials)	2017	Pass the hat (DelDOT, DNREC, DDA, Sussex County)	2 years	overdue
Land Use Land Cover	2012 - Updating to 2017 Imagery now	In 2012: Grant from WILMAPCO for 80%; passed the hat for remainder (DelDOT, DNREC, DDA) In 2017; DelDOT 100%	4 years	2021
LiDAR	2014	NOAA/USGS – Super Storm Sandy relief funds	8 years	2022

Cost Estimates:

Data Set	Estimated Cost	Notes
Ortho Imagery (Aerials)	\$105,000**	Based on 2017 acquisition
Land Use Land Cover (LULC)	\$110,000**	Based on DelDOT current contract
QL2 LiDAR – Tide Coordinated	\$574,780*	(\$290/sq. mile) – USGS estimate
QL2 LiDAR – NON-tide Coordinated	\$545,050*	(\$275/sq. mile) – USGS estimate

NOTES:

* For the typical BAA proposal, the state would bear 2/3 the cost, and the Feds would bear 1/3, so funds the State would need to commit by the time the proposal is sent in (end of October of any year) are approximately **\$383,000**. Note that the larger the share the state pays the more attractive the BAA proposal is for earlier selection and approval.

Through USGS we've obtained estimates for new QL2 LiDAR for the State (Feb. 2020). It is anticipated that we would apply for a Broad Agency Announcement (BAA) grant to help fund this acquisition. These estimates are based on the total sq. miles in Delaware – land and water of 1,982 sq. miles.

**Aerials and LULC costs are for a statewide dataset, there are options for agencies and partners to ask for upgrades at their own cost.

A stylized compass rose graphic is positioned behind the main title. It features a semi-circular scale with degree markings and a central needle pointing towards the top right. The letters "N" and "W" are written in a cursive font near the top and left of the compass respectively.

FIRSTMAP

DGDC – 2/20/20



AGENDA



- FIRSTMAP 2.0 OVERVIEW
- SERVICE CLEANUP/OPTIMIZATION
- URL CHANGES
- ARCGIS ONLINE UPDATES
- PROJECT MILESTONES



FIRSTMAP 2.0 OVERVIEW



- ARCHITECTURE
 - Complete redesign
 - Complete server and software upgrade
 - Collapsing Private & Public into one
- SEPARATION OF RESOURCES
 - Separate servers for Application, Enterprise, and Image Services
 - Restructure of Imagery storage
- ARCGIS ENTERPRISE INCLUDING PORTAL

FIRSTMAP 2.0 OVERVIEW



- HOW DOES THIS IMPACT ME?
 - **All URL's are going to change**
 - AGOL Items need to be updated
 - **HTTPS ONLY**
 - Re-structuring/cleanup of some services
 - New products available such as Portal, Collaboration, Sites (Hubs)
 - Easier access to State Plane services for non-State users
 - Share data securely with non-State users
 - Active Directory user logins for State users who use Portal

SERVICE CLEANUP



- SERVICE IMPROVEMENT/UPDATE GOALS
 - Reduce redundancy
 - Group similar features
 - Update data sources as needed
 - State Plane service requirements
 - Secured service requirements
- INVENTORY
 - Map of current services to FirstMap 2.0 will be provided

URL CHANGES



Current FirstMap URL's

Firstmap.dti.state.de.us/arcgis

- Private, State-only access
- State Plane
- Some restricted data

Firstmap.delaware.gov/arcgis

- Public access
- Commonly shared & Application services
- Web Mercator

Future FirstMap URL's

Portal.firstmap.delaware.gov/portal/

- State of Delaware Portal
- Secured access for editing, and private data
- Active Directory logins for State employees

Enterprise.firstmap.delaware.gov/arcgis/

Commonly shared services

Apps.firstmap.delaware.gov/apps/

Application services ONLY

Imagery.firstmap.delaware.gov/imagery/

All Image Services

URL CHANGES



- THIS DOCUMENT WILL BE AVAILABLE ON THE FIRSTMAP WEBSITE.

FirstMap 1.0			FirstMap 2.0		
Layer	Service Name	Service URL	Layer	Service Name	Service URL
State and County Boundary	DE_BoundariesCountyState	https://firstmap.gis.delaware.gov/arcgis/rest/services/Boundaries/DE_BoundariesCountyState/MapServer/0	State and County Boundarie	DE_Boundaries	https://enterprise.firstmap.delaware.gov/arcgis/rest/services/Boundaries/DE_Boundaries/M
Municipalities	DE_Municipalities	https://firstmap.gis.delaware.gov/arcgis/rest/services/Boundaries/DE_Municipalities/MapServer/0	Municipalities	DE_Boundaries	https://enterprise.firstmap.delaware.gov/arcgis/rest/services/Boundaries/DE_Boundaries/M
Communities	DE_Communities	https://firstmap.gis.delaware.gov/arcgis/rest/services/Boundaries/DE_Communities/MapServer/0	Communities	DE_Boundaries	https://enterprise.firstmap.delaware.gov/arcgis/rest/services/Boundaries/DE_Boundaries/M
Boudary Monument	DE_BoundaryMarkers	https://firstmap.gis.delaware.gov/arcgis/rest/services/Boundaries/De_BoundaryMarkers/MapServer/0	Boudary Monument	DE_Boundaries	https://enterprise.firstmap.delaware.gov/arcgis/rest/services/Boundaries/DE_Boundaries/M
USGS UTM GRID	DE_Indexes	https://firstmap.gis.delaware.gov/arcgis/rest/services/Boundaries/DE_Indexes/MapServer/0	USGS UTM GRID	DE_Index	https://enterprise.firstmap.delaware.gov/arcgis/rest/services/Boundaries/DE_Index/MapSer
TILE INDEX GRID	DE_Indexes	https://firstmap.gis.delaware.gov/arcgis/rest/services/Boundaries/DE_Indexes/MapServer/1	Tile Index Grid	DE_Index	https://enterprise.firstmap.delaware.gov/arcgis/rest/services/Boundaries/DE_Index/MapSer
			Zip Codes	DE_Index	https://enterprise.firstmap.delaware.gov/arcgis/rest/services/Boundaries/DE_Index/MapSer
			USGS Quarter Quad Index	DE_Index	https://enterprise.firstmap.delaware.gov/arcgis/rest/services/Boundaries/DE_Index/MapSer
HUC 2	DE_Watersheds	https://firstmap.gis.delaware.gov/arcgis/rest/services/Hydrology/DE_Watersheds/MapServer/0	HUC 2	DE_Watersheds	https://enterprise.firstmap.delaware.gov/arcgis/rest/services/Hydrology/DE_Watersheds/M
HUC 4	DE_Watersheds	https://firstmap.gis.delaware.gov/arcgis/rest/services/Hydrology/DE_Watersheds/MapServer/1	HUC 4	DE_Watersheds	https://enterprise.firstmap.delaware.gov/arcgis/rest/services/Hydrology/DE_Watersheds/M
HUC 6	DE_Watersheds	https://firstmap.gis.delaware.gov/arcgis/rest/services/Hydrology/DE_Watersheds/MapServer/2	HUC 6	DE_Watersheds	https://enterprise.firstmap.delaware.gov/arcgis/rest/services/Hydrology/DE_Watersheds/M
HUC 8	DE_Watersheds	https://firstmap.gis.delaware.gov/arcgis/rest/services/Hydrology/DE_Watersheds/MapServer/3	HUC 8	DE_Watersheds	https://enterprise.firstmap.delaware.gov/arcgis/rest/services/Hydrology/DE_Watersheds/M
HUC 10	DE_Watersheds	https://firstmap.gis.delaware.gov/arcgis/rest/services/Hydrology/DE_Watersheds/MapServer/4	HUC 10	DE_Watersheds	https://enterprise.firstmap.delaware.gov/arcgis/rest/services/Hydrology/DE_Watersheds/M
HUC 12	DE_Watersheds	https://firstmap.gis.delaware.gov/arcgis/rest/services/Hydrology/DE_Watersheds/MapServer/5	HUC 12	DE_Watersheds	https://enterprise.firstmap.delaware.gov/arcgis/rest/services/Hydrology/DE_Watersheds/M
OLD DNREC Watersheds	DE_Watersheds	https://firstmap.gis.delaware.gov/arcgis/rest/services/Hydrology/DE_Watersheds/MapServer/6	OLD DNREC Watersheds	DE_Watersheds	https://enterprise.firstmap.delaware.gov/arcgis/rest/services/Hydrology/DE_Watersheds/M
Public State Parcels	DE_State_Parcels	https://firstmap.gis.delaware.gov/arcgis/rest/services/PlanningCadastre/DE_State_Parcels/MapServer/0	State Parcels	DE_StateParcels	https://enterprise.firstmap.delaware.gov/arcgis/rest/services/PlanningCadastre/DE_StateP
			Parcel Centroids	DE_StateParcels	https://enterprise.firstmap.delaware.gov/arcgis/rest/services/PlanningCadastre/DE_StateP
Public Schools	DE_Schools	https://firstmap.gis.delaware.gov/arcgis/rest/services/Society/DE_Schools/MapServer/0	Public Schools	DE_Schools	https://enterprise.firstmap.delaware.gov/arcgis/rest/services/Society/DE_Schools/MapServ
Private Schools	DE_Schools	https://firstmap.gis.delaware.gov/arcgis/rest/services/Society/DE_Schools/MapServer/1	Private Schools	DE_Schools	https://enterprise.firstmap.delaware.gov/arcgis/rest/services/Society/DE_Schools/MapServ
DOE School Districts	DE_SchoolsDistricts	https://firstmap.gis.delaware.gov/arcgis/rest/services/Boundaries/DE_SchoolDistricts/MapServer/0	DOE School Districts	DE_Schools	https://enterprise.firstmap.delaware.gov/arcgis/rest/services/Society/DE_Schools/MapServ
DOE VoTech School Districts	DE_SchoolsDistricts	https://firstmap.gis.delaware.gov/arcgis/rest/services/Boundaries/DE_SchoolDistricts/MapServer/1	DOE VoTech School Districts	DE_Schools	https://enterprise.firstmap.delaware.gov/arcgis/rest/services/Society/DE_Schools/MapServ



ARCGIS ONLINE



- ARCGIS ONLINE REQUIRED UPDATES
 - Update URL's
 - Web map application updates
 - Restructure of services may impact Popups and Symbology in Web Maps
 - Cutover to **HTTPS ONLY**
- AGO ASSISTANT DEMO

PROJECT MILESTONES



- INFRASTRUCTURE SETUP – COMPLETE – GO-LIVE 2/27
- IDENTIFY AND PUBLISH CORE ENTERPRISE SERVICES – IN PROGRESS
- MIGRATE PILOT APPLICATION – IN PROGRESS
- MAP EXISTING SERVICES TO NEW SERVICES – IN PROGRESS
- DOCUMENT PROCEDURES – IN PROGRESS
- PUBLISH NEW SERVICES
- PORTAL BRANDING AND CONFIGURATION
- UPDATE CUSTOM APPLICATIONS AND ARCGIS ONLINE CONTENT
- RETIRE EXISTING FIRSTMAP INFRASTRUCTURE – LATE 2020



WRAP-UP



- E-MAIL US: FIRSTMAP@STATE.DE.US
- E-MAIL US (INTERNAL): DTI_GIS@STATE.DE.US
- TWITTER: @FIRSTMAP
- FACEBOOK: WWW.FACEBOOK.COM/FIRSTMAP

