

GIS Steering Committee Quarterly Meeting

February 21, 2017

10:00 AM – 12:00pm

Office of the Chief Technology Officer

200 I Street SE, Washington DC, 20003

Agenda

- **Welcome, Data Program News & Updates**
Barney Krucoff, Chief Data Officer, Office of the Chief Technology Officer
 - Operational News
 - New Hires
 - Presidential Inauguration - 2017
 - GIS Executive Committee Nominations
- **Esri Enterprise License Agreement**
Matthew Crossett, Project Manager, Office of the Chief Technology Officer
 - Additional and Sunset Products
 - EEAP Credit Usage and Balance
- **Imagery and LiDAR**
Matthew Crossett, Project Manager, Office of the Chief Technology Officer
 - How to Access
 - Pictometry
 - Photogrammetric Project
- **HistoryQuest DC and Historic Buildings**
Charlie Richman, Chief Information Officer, Office of Planning
 - Success Story
 - Challenges
 - Data Behind the Scenes
- **Data Report and Inventory Tools**
Mario Field, PM for Data Curation, Office of the Chief Technology Officer
 - New Layers
 - Enterprise Data Inventory Tool
- ~~DC GIS Training and Survey Results~~
~~Eva Stern, Training Coordinator, Office of the Chief Technology Officer~~
 - ~~New Courses~~
 - ~~Attendee Counts~~
 - ~~Training Survey Results~~

Meeting Notes

Capturing notable comments and questions from attendees.

Presenter: Barney Krucoff – Program News & Updates
DC Office of the Chief Technology Officer

- Introduction of data analysts for the business intelligence and development teams
- Business intelligence upgrade
 - 4 times the servers for tableau
 - There is no need for agencies to pay for services. OCTO now handles this
 - Microstrategy desktop software is now free. Training on march 21 or 22 and April.
 - Training will be mostly internal to octo to start. Eventually training will be offered via DCHR.
 - Octo will be working with agencies to optimize integrating visualizations in websites.
- Are the tableau servers internal facing?
 - Of the 32, 16 will be internal and the other half will be public.

Presenters: Open Forum – GISSC and Executive Committee

- Discussion over the GISSC versus the new Interagency Data Team
 - The interagency Data Team is not GIS focused. It is internal to DC agencies for now.
 - How will the GISSC meeting continue? Now, we are facing lack of leadership for the GISSC. Partly due to changes in OCTO program structure.
 - There is a lot of overlap between the two committees.
 - Attendees expressed a need for the GISSC to continue.
 - The GISSC is an established committee by Mayor's order.
 - GISSC may not be broad enough to focus solely on Data. But this does not mean it is not important.
 - We cover GIS in depth. The Interagency Data Team does not.
 - We now have a Chief Data Officer for the first time ever. As a result, we now have a new relationship from GIS program direct to the CDO
- Discussion over the GISS executive committee
 - This has some value to help what is covered in quarterly meeting.
 - The executive committee can better recognize and manage relationship between DCGIS and the OCTO GIS program.
 - GISSC has been a nice steward of the DCGIS. The Executive committee helps balance the OCTO 'agenda.'
 - It helps make sure the CTO understands the GISSC's importance.
- Nominations for the GISSC Executive Committee
 - Charlie Richman from the Office of Planning
 - Matthew Holden from the Office of Zoning
 - James Graham from the Department of Transportation
 - George Siaway from the Department of Health

Presenter: Barney Krucoff – Data Policy Update

DC Office of the Chief Technology Officer

- Will the new policy try to sell our data?
 - No there is no plan to begin selling our data. It will remain publicly distributed at no cost.
- Eventually this will be a mandated meeting by mayor's order.
- Data policy is currently at the attorney general's office and will soon be signed by mayor.
- Rundown of changes to data policy – order of definitions, addition of FOIA, and now the addition of required agreements for all levels of data (not just 3 and 4).
- In terms of required agreements, right now we have best practices in place, not policies. When we create visualizations in Tableau you must keep in mind the data that is behind this. Is it shareable as well.
- Definitions of data layers' have slightly changed

Presenter: Matthew Crossett – Enterprise Mapping Projects

DC Office of the Chief Technology Officer. Aerial Imagery and LiDAR.

- Oblique
 - Finished obliques in late January.
 - 3 inch resolution
 - You can access with an ArcGIS addin.
 - And marketplace app in ArcGIS Online
 - We enabled early access for OCTO and plan to roll out to others soon.
 - We will have information on our websites to get logins.
- Nearmap
 - This is a partnership with Department of Transportation
 - Successfully flew the city on November 8th.
 - DC will fly quarterly at 3" resolution
 - There will be similar access available as imagery service
 - Also available in ArcGIS Online marketplace:
<http://dcgis.maps.arcgis.com/home/group.html?id=96ea2e4dcc854d20b16401f24b0edb3>
 - Visit <http://octo.in.dc.gov/node/165505> to gain access. This is internal to DC gov
 - Next flight in March
- Are there any restrictions with Nearmap? Can we put on public facing application?
 - NearMap is a license imagery service, if you have specific questions about its use or restrictions, please contact us. NearMap cannot be used on public facing applications.
- Planimetric
 - The 5 year orthophotography, planimetric update and LiDAR capture contract vehicle is complete.
 - The first year was flown March 8, 2017
 - Years 1, 3 and 5 will be 3" ortho capture with updates to planimetrics

- Years 2 and 4 – will be LiDAR
 - QL2 acquisition, processing and derivatives including: raw point cloud, classified point cloud, bare earth surface, break lines, contours, intensity images, control with metadata.
- This locks in procurement and lessens risk of not being able to fly the projects
- There were a total of very good, competitive proposals
- Awarded to Furgo Geospatial Systems. The price was significantly less.
- Any opportunities to use cost savings for other projects?
 - The cost saving will be used to support qc/qa by a DC certified business enterprise.
 - Suggestion from the committee – some of the attribution in planimetrics could use better tweaking. This would make it more usable such as how sidewalks are coded.
- Does the DC Chief Technology Office (OCTO) have the infrastructure to store LiDAR data?
 - OCTO is currently involved in a test pilot with Amazon and with Esri to process and host LiDAR data. Derivative products will be shared as services via DC GIS's ArcGIS Server.
 - 2015 data is very dense and looks promising to store via amazon. We're also working to create space here to serve big data.
 - DC government received more than was requested. It is a blessing but at the same time difficult to manage. Future datasets will be better managed.

Presenter: Charlie Richman – HistoryQuestDC

DC Office of Planning. Historic building data for the District of Columbia.

- Example of a good implementation of DC's ArcGIS Online: <http://dcgis.maps.arcgis.com>.
- We have received major public support and good critiques. And, it was not terribly difficult to create.
 - <http://dc.curbed.com/2016/11/28/13763532/history-quest-dc-washington>
 - <https://ggwash.org/view/61696/this-great-tool-will-teach-you-about-historic-buildings>
- Color coding by when the building was built. Containing rich data such as the architect.
- We also threw in added layers like the national registry lists.
- This application is using the Esri ArcGIS Online out of the box Web App Builder
 - <http://doc.arcgis.com/en/web-appbuilder/>
- It is using the District of Columbia's custom basemap with data hosted on ArcGIS Online.
 - DC Basemap Gallery:
<http://dcgis.maps.arcgis.com/home/item.html?id=108f64619522406f88b7158480e74721>
- There is also a companion application that is a crowdsourcing app. People can comment and suggest edits to the data.
- All the data is shared and downloadable.
- Behind the scenes
 - Brian craft at JMT read microfilms. This was 10 years of research.
 - There are 170,000 building polygons with a gigabyte of attribution.
- Making it work
 - Office of Planning slimmed down the attribution

- Filtered unnecessary vertices
- Added a tile overlay
- Updates – the historic preservation staff are updating themselves. Edits are done using ArcGIS Desktop and pushed to DC's ArcGIS Online.
 - <https://planning.dc.gov/page/historic-preservation-office>

Questions and comments:

- What about buildings no longer there?
 - Yes, those are comments and questions we have received. We cut it out of active list by changing attribute which filters it out.
- Is there a historical layer to go back in time?
 - No, these are buildings as of 2015 or latest planimetric capture. We have records of buildings now gone but not geography records – spatially.
- What constitutes a new building? Are buildings that were demolished (except for façade) count as a new building or existing?
 - There is no clear definition yet.
- The dataset is also great for data analysts.
- This application has data that is more up to date and better than the Office of Tax and Revenue's Computer Aided Mass Appraisal data – ie. Eyb. Can the Office of Planning work with OTR to update CAMA?
 - http://opendata.dc.gov/datasets/c5fb3fbe4c694a59a6eef7bf5f8bc49a_25
 - Interesting question and unsure how this would work. Some data was sourced of the data was sourced by OTR. We would need to avoid overlap.

Presenter – Mario Field – Updates to DC's Open Data

DC Office of the Chief Technology Officer

- We are interested in creating an analytics project with the new InfoUSA business data. Perhaps the Deputy Mayor for Planning and Economic Development could look at businesses over time.
 - If other agencies or the public have ideas, let us know.
- The District's Purchase Orders are now published as live data feeds similar to 311 service requests
 - http://opendata.dc.gov/datasets?q=purchase+orders&sort_by=relevance
- Will purchase orders have contract numbers?
 - The information is very limited and is coming out of the Office of Contracting and Procurement's *Procurement Automated Support System (PASS)*
- Is Purchase Card data spatially enabled?
 - No, it is not.
- For the Floodplains, we are wondering if you are changing content on the existing service? Will current map service be updated so apps using it will update automatically?
 - The flood plain schema will stay the same.
- Can you talk about building permits and how they are being updated?

- The Department of Consumer and Regulatory Affairs moved this data to a new server. As a result, OCTO is working on a process to establish connection to the new server. We have asked DCRA for a static update to at least get us up and running with recent data.
- Is DCRA providing Certificate of occupancy?
 - No, they are not.
- Any layer that was an event theme will be moved to a feature class and via open data to improve performance. There will no longer be on the fly even themes. That should be done in the next three weeks.

Complete list of data posted:

- Camera Enforcement
- Camera
- Commission of Fine Arts Award
- DC Agency
- DC Property (DHCD properties)
- Enterprise Zone
- Hub Zone
- Main Street
- Metro Station
- Notary Public
- Recreation Area (DHCD properties)
- Single Member District (Contact)
- Supermarket Tax Credit
- Village Boundary (Office of Aging)
- Ward (Contact)
- Zip Code

Complete list of data coming soon:

- Business – 2017
- Business archive - 1997, 2002, 2007, 2013, 2014, and 2015
- DHCD
- DPW Trash and Recycling Tonnage by route
- Floodplain

- Great Street Grantee
- Green Building
- Historic Building
- Main Street (polygon)
- Moving Violation (thru 1/17)
- Museum
- Notary Public
- P-card
- Purchase Order (2016-17)
- Parking Violation (thru 1/17)
- Trash Day
- Wetland

Presenters: Open Forum – Esri FedGIS Conference

<http://www.esri.com/events/federal>

- How will DC government handle Big Data?
 - We're working with Esri and DDOT and have some use cases we are moving forward with. It is a major smart goal for the OCTO team. We are also piloting a project with Amazon.
- We just configured ArcGIS Server last year so why is DC government doing it again?
 - We are not going to reconfigure servers and will continue to use the "beast" servers that have proven to be reliable in uptime.
- Will DC government move to using Portal for ArcGIS? Seems clear that esri's business strategy is to have us use it more and more. <http://server.arcgis.com/en/portal/>
 - The committee should have a separate discussion on this

Meeting adjourned. Next meeting tentatively scheduled for June 2017