



Please Enter your: **name – agency**  
When calling in, right click on list to change

# DC GIS Steering Committee

February 12, 2015



10:00 AM – 12:00 PM  
200 I Street SE, 5<sup>th</sup> Floor  
Washington, DC 20003  
Conference Room: 5009



# Agenda

- Introductions and Establish Quorum
- Approve Minutes 11/9/2014
- DC GIS News
- OCTO GIS News
- Systems Update
- Data Report
- Training Report
- Development Report
- Agency Roundtable
- Adjourned



# Meeting called to Order

Introductions

Establish a Quorum

Approve Minutes



# Quorum – 8 of 16

1. District Department of Transportation
2. Office of the Chief Technology Officer
3. Office of the City Administrator
4. Office of Planning
5. Department of Consumer and Regulatory Affairs
6. Department of Health
7. Department of Public Works
8. District Department of the Environment
9. Department of Fire and Emergency Medical Services
10. Homeland Security and Emergency Management Agency
11. Metropolitan Police Department
12. Office of the Deputy Mayor for Planning and Economic Development
13. Office of Tax and Revenue
14. Office of Unified Communications
15. Office of Zoning
16. DC Water and Sewer Authority

**Approve Minutes [11/9/2014](#)**



# DC GIS News

Tim Abdella



<https://public.govdelivery.com/accounts/DCWASH/subscriber/new?qsp=1784>



# 2015 Sensor Flight

- High Precision multispectral data (3 inch pixel raster)
  - True Ortho on Downtown, IR full city
- Oblique Imagery
- LiDAR – **L**ight **D**etection **A**nd **R**anging
  - Captured at 8 points per meter
- New 1:100 Planimetric Mapping
- Vendor Selected / Flight Waiver in-process

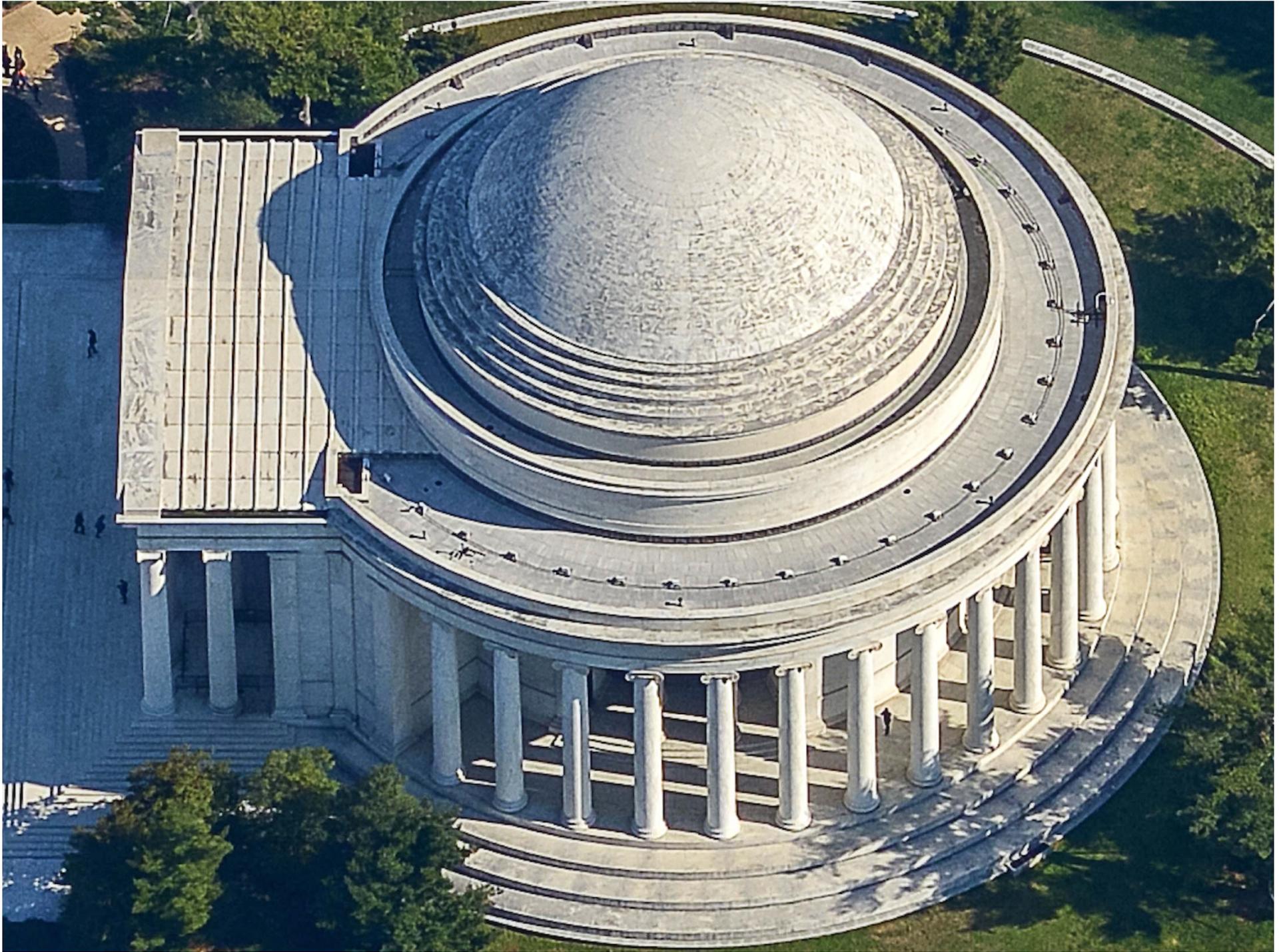




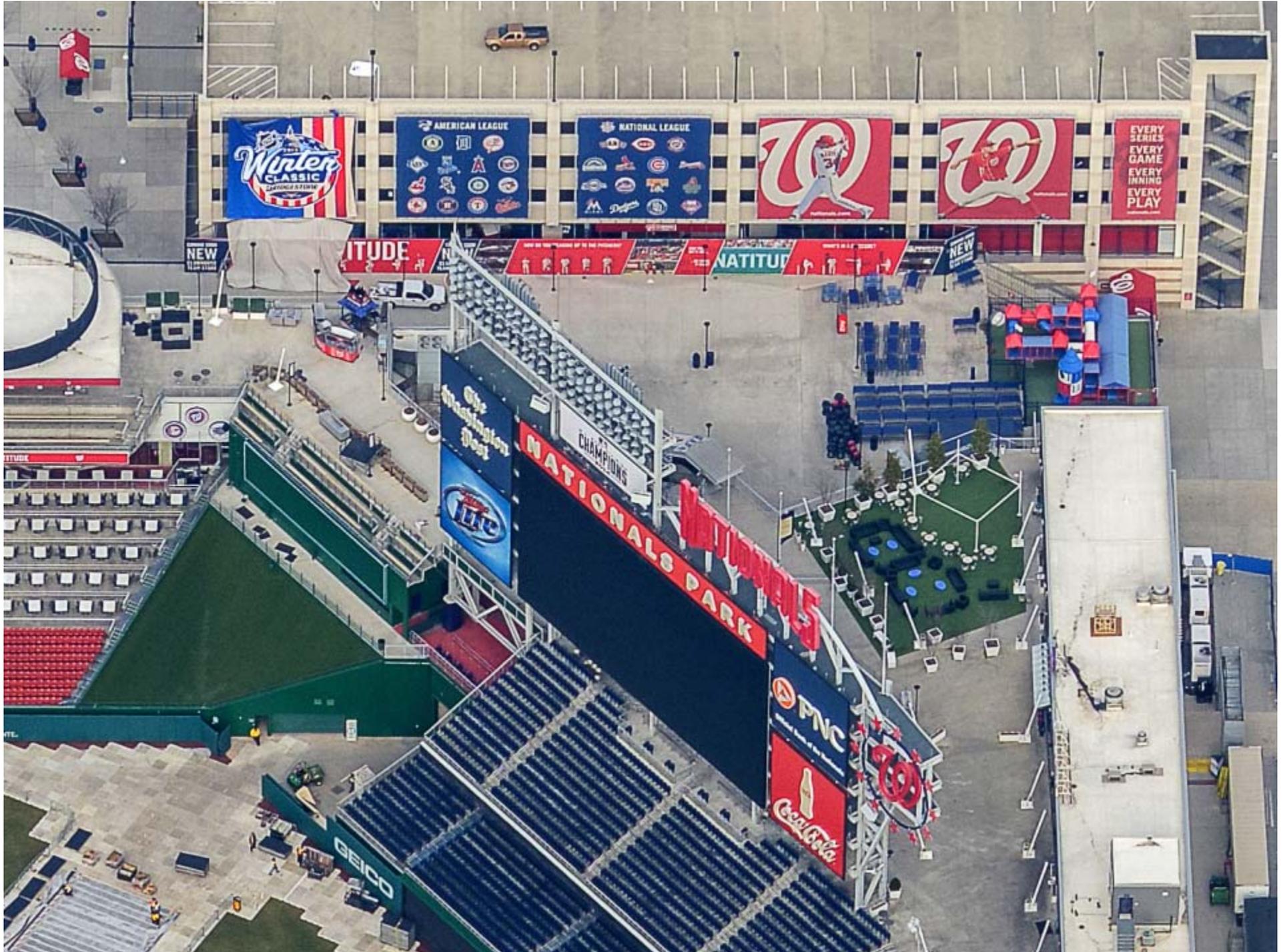
# Fall 2014 Oblique Flight

- Sanborn Map Company Captured
- 2.5” resolution imagery
- Data to be delivered to District, public domain
- Waiting on USSS to finish redaction process
- Software includes tools and API
- Images will have “Sanborn” Watermark





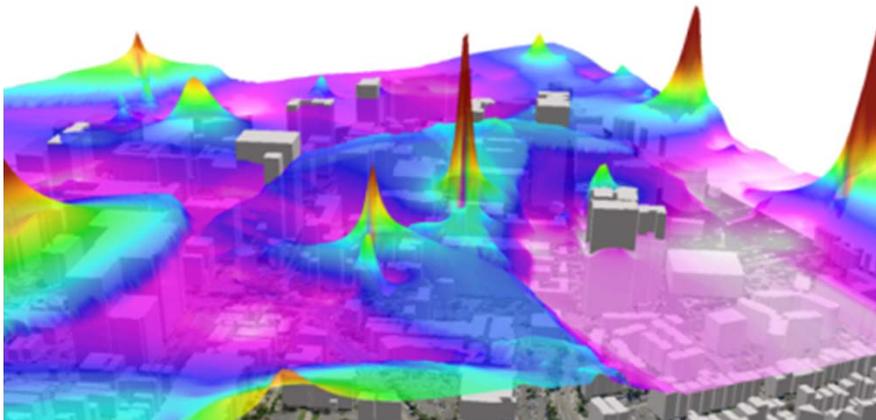






# VALARM – Kick off March 3<sup>rd</sup>

- Air Quality Index data
  - Presence and concentration of Volatile Organic Compounds as a group
  - Temperature, Humidity, Barometric Pressure
  - CO2 concentration



<http://www.valarm.net>



# Data Catalog

- <http://Data.dc.gov>
- Esri ArcGIS for Open Data Portal
- Single Data Catalog for City
- Working with Esri to improve functionality

The screenshot shows the District of Columbia Open Data website. At the top, there is a navigation bar with the DC.gov logo and the text "District of Columbia Open Data". Below this is a search bar with the text "Search for open data" and a "SEARCH WITH MAP" option. A map of the District of Columbia is displayed, showing various neighborhoods and landmarks. Below the map, there is a list of data categories under the heading "DATA".

**DATA**

- Administrative and Other Boundaries
- Business and Economic Development
- Cultural and Society
- Demographic
- Education
- Elevation
- Environment

**Search. Discover. Use.**

We want to ensure the District's data is as open, discoverable and usable as possible in hopes of fostering greater participation and collaboration. Search the site's datasets by topic, or explore featured datasets or review the [full list of DC Data sets](#).

**A Growing Site**

This new site is a work in progress. We are working diligently to add new data sets, improve usability and bring forward some of the legacy datasets that did not make the initial launch. If you don't see a dataset you need, please contact us and we'll get it added to our catalog.



# Central Database Review

- Esri in House December 10-11
- Industry experts reviewing current production
  - Performance tuning
- Recommendations for future
  - Maintenance workflows
- Working on ETL Model:
  - Production → ArcGIS for Local Government Info Model



# ArcGIS for Local Government

- Leverage Esri Templates / Maps / Apps
- <http://solutions.arcgis.com/local-government/>



# Quantifying Infrastructure Risk from Climate Change

- **Case Study: Army Corps of Engineers Naval Station Norfolk**
- Presentation from the team leader on a recently released US Army Corps of Engineers [case study analysis](#) for Norfolk, VA Naval Station which has potential applicability to the National Capital Region.
- The study is helping the Navy protect infrastructure by mapping interdependencies (energy, water, communications, buildings, and other assets) and analyzing impacts from coastal storms, sea level rise, precipitation and resulting groundwater levels and flood elevations.



# OCTO GIS News

Tim Abdella



# Staffing Updates

- FTE Updates - 3 positions posted and closed:
  - Public Safety Liaison
  - GIS Analyst
  - GIS UX Designer
- Contractor updates:
  - Srikanth Avirneni – ETL Specialist
  - Dave Cook – Public Safety Coordinator
  - Project Coordinator – Interviewing
  - Planning & Economic Dev coordinator / PM



# OCTO GIS FY'15 Projects

- 2015 Derived LiDAR Products
- 3D Building Update
- DC Info USA Business Data Maintenance
- Regional Routable Centerline data
- ArcGIS Server Architecture
- Google "Stack" Project
- OpenGeo Stack
- Hadoop or similar big data
- Strategic / Business Plan refresh
- dcgis.dc.gov website design
- Street Level Imagery Integration
- 3D Design Review application
- Central Database modeling effort
- VPM update – Migration
- MAR 2.0\* History, R&H, Geocoder
- Establish Source Code Control dimensions
- Data maintenance tools
- Valarm environmental data
- AGO for DCPS and Charter Schools



# Highlights: OCTO GIS Team to Cover

## Migrations / updates:

- Systems
- Development
- Data
- Training



# Systems Report

Frank Wang



# GIS Server Updates

- Finalizing System Architecture
- Continuing the Migration to New Oracle Grid
- Migrating all servers running Windows Server 2003 servers to Windows Server 2012 R2
- Updating ArcGIS License Server to 10.3
- Improving ArcGIS Server Security
- Installing ESRI System Testing and Monitoring tools



# Citrix Updates

- Deployment of ArcGIS 10.2.2, 10.3 and ArcGIS Pro on the Staging Citrix test farm .
- Deployment of upgraded DCGISToolbar on Citrix staging test farm on both 10.2.2 and 10.3.
- Planning for Citrix XenApp 7.6 upgrade.
- Updated Citrix Farm data stores on both production and test to support Replication across data centers



# Development Report

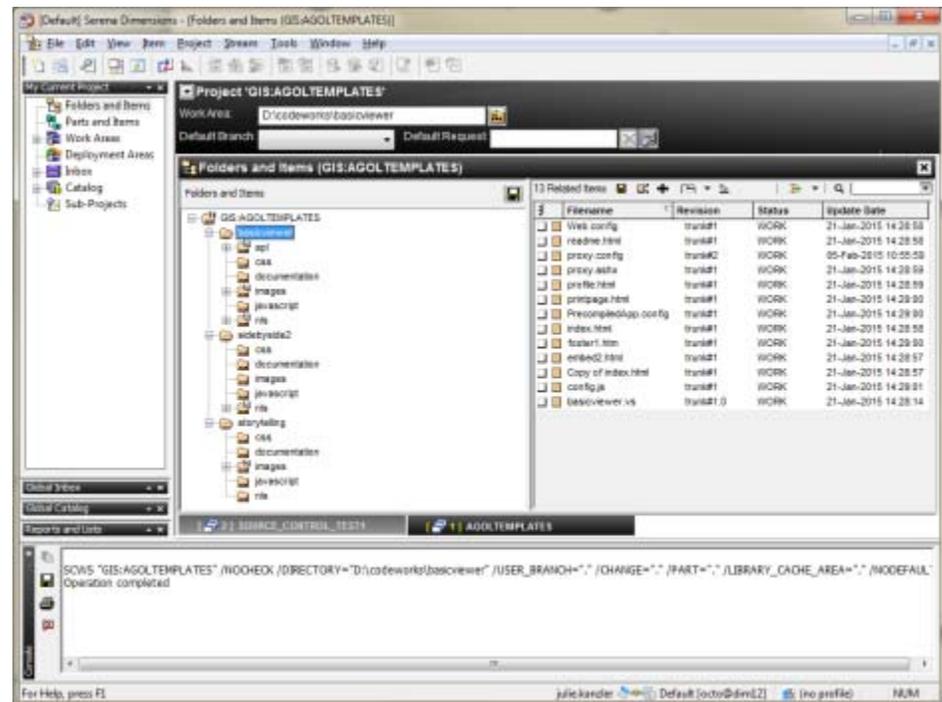
(migrations, migrations, migrations)

Julie Kanzler



# Source Control Migration

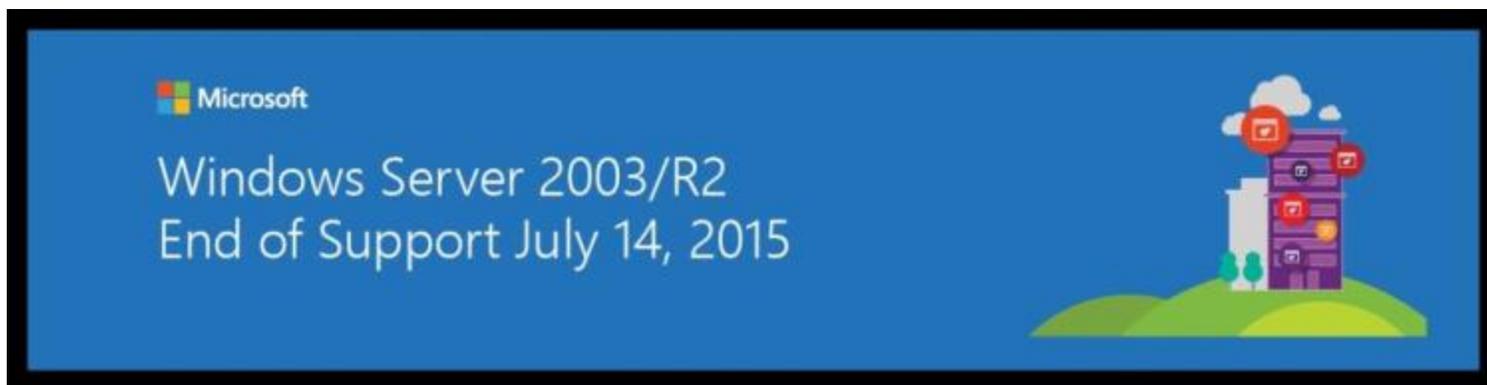
- Priority #1, here's why...
  - Protects applications resources
  - Change tracking
  - Easy rollback
  - Increases productivity
  - Supports a collaborative coding model
- The facts
  - Serena Dimensions
  - 85% complete
    - Still some issues to resolve



*Next step - Automated deployment!*



# Web Apps Server Migration

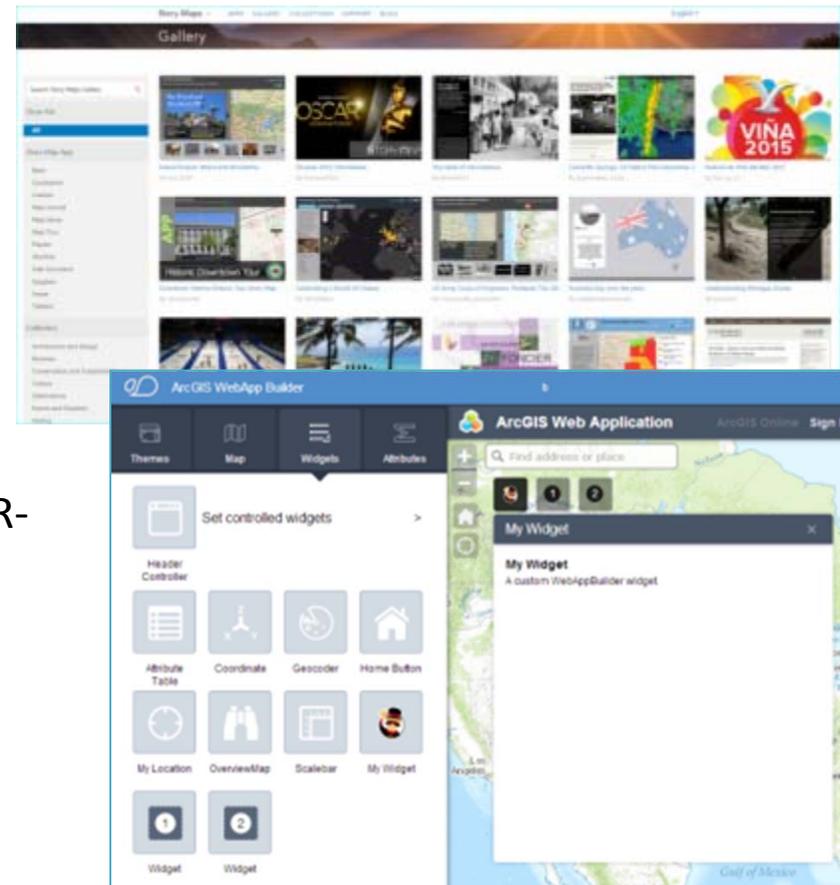


- ^^ !
- Win 2012 R2 / IIS 8.5 test server is ready to receive automated deployments
- Staging will follow after test passes internal testing and vulnerability scans
- Developing project document for ECIS, working with Frank on security and other systems considerations
- Target date for rollout is now April, but depends upon several factors not yet fully accounted for



# Application Platform Migration

- Why?
  - Distribute application deployment and configuration to agencies
  - Common look and feel
  - Economies of scale
  - Collaborative model
- ArcGIS Online Platform-based application deployment model
  - Full-featured templates with DC-specific data and capabilities
  - e.g., Detailed DC basemap and MAR-based address searching
- Individual widgets & themes
  - Extending WebApp Builder
  - E.g., MAR Geocoder
- Progress – 5% complete
- Your input, please





# Documentation & Help

- Help, for sustainability and usability
  - Sharable Product Documentation
    - Dependencies and process flow
      - Participating in OCTO-wide Application Topology project to discover, map, and document system interdependencies
    - Targets – managers, developers and technologists
  - Assistance for implementers, power users, developers
    - New web site pages, shared documentation (^ ^), one-on-one as needed
  - UI-integrated help and strong UI/UX design for end users



# Other

- Yes, CORS enabled for \* on open web services is on its way, but need to wait for robust architecture to support it
- Esri DevSummitDC – well attended by OCTO developers and agency developers (over 10 total)
  - Anyone interested in attending our follow up meeting?



# Data Report

Mario Field



# Updated Datasets

- Bank
- Bicycle Lane
- Boys and Girls Club
- *Business (60k)*
- *CAMA – Residential (GBA)*
- *CAMA – Commercial*
- *CAMA – Condo*
- DC Agency
- Federal Office
- Gas Station
- Golf Course
- Great Street
- *ITSPE\_FACTS*
- *ITSPE\_VACANT\_PROPERTY*
- *ITSPE\_PROPERTY\_SALES*
- Hospital
- *Hospital Grounds*
- Military
- *Neighborhood Planning Area (DDOT)*
- Notary Public
- Single Member District
- *Street Tree (automate)*
- *Street Centerline ((automate)*
- *Street Segment ((automate)*
- *Street Light ((automate)*
- Trail
- *Triangle and Median (DDOT)*
- Ward



# ITSPE Summary Tables

- **ITSPE\_FACTS** – Shorter, more lite version of ITSPE
- **ITSPE\_VACANT\_PROPERTY** – records for vacant properties
- **ITSPE\_PROPERTY\_SALES** – records for property sales where sales price is not NULL



# Data Catalog

The screenshot shows the Microsoft Access interface for a database named 'DCGIS\_DataCatalog\_GISData\_CDW'. The 'All Access Objects' pane on the left shows the 'Tables' section with 'DCGIS\_DataCatalog' selected. The main window displays a table with the following fields:

Field Name	Data Type	Description
DCGIS_COREID	Number	
DCGIS_FEATURECLASS	Text	
DCGIS_FEATUREDATASET	Text	
DCGIS_NAME	Text	
DCGIS_OTHERFILENAME	Text	
DCGIS_DESCRIPTION	Text	
DCGIS_TYPE	Text	
DCGIS_LIMITATIONS	Text	
DCGIS_STATUS	Text	
DCGIS_METADATA	Text	
DCGIS_DCSOVDATA	Text	
DCGIS_PROVIDER	Text	
DCGIS_ORIGINATOR	Text	
DCGIS_UPDATEFREQ	Text	
DCGIS_COMMENTS	Text	
DCGIS_DATERECEIVED	Date/Time	
DCGIS_FILETYPE	Text	
DCGIS_DISTRIBUTION	Text	

The 'Field Properties' pane at the bottom shows the 'General' tab for the selected field, with the following properties:

Property	Value
Field Size	Long Integer
Format	
Decimal Places	Auto
Input Mask	
Caption	
Default Value	
Validation Rule	
Validation Text	
Required	No
Indexed	Yes (Duplicates OK)
Smart Tags	
Text Align	General

- 1,512 total records
- Work in Progress
- Two parts – data catalog - online catalog
- Links [opendata.dc.gov](http://opendata.dc.gov) to data source



# Next Data Load

- **Basemap Annotation**
- **Basemap Cartographic Layer(s)**
- **Business**
- **Certificate of Occupancy**
- **Critical Facility (Group layer)**
- **Recreation Facility**
- **DPR Park**
- **Street Centerline**
- **Street Roadway Segment**
- **UFA Tree**
- **Street Light**



# Training Report

Eva Stern



# CLD Courses

- Overview (ArcGIS), ArcGIS, Google DC
- Phasing out Google DC course
- Workshops



# ArcGIS Online - New

- 3-hour seminar w/ hands-on experience
- December and January classes
- Next class: February 18<sup>th</sup> (Full)



# Round Table

Open Forum



# Round Table

- FedUC 2015:
  - Majority – 92 .dc.gov
  - 12 to Dev Summit
    - 550 total
  - 350 from State and Local
  - 4,300 total
  - Plenary recordings on-line
    - O'Malley killed it
  - Young Professional Group – New
    - Look for more in the future (less than 5 years exp)



# Round Table

- FedUC 2015:
  - Feedback – [apuzzo@esri.com](mailto:apuzzo@esri.com)
  - Julie – Please keep doing it! – Dev Summit
  - Dito from others
  - Gov hard travel approval
  - Fei needs a machine to replicate himself
  - Dev summit content will go online from Palm Springs
  - Would like to see cross pollination with TRB.....
    - Target the September GIS spin-off



# Round Table

- FedUC 2015:
  - Emergent summits great
    - National Security
  - Plenary good
    - Great presentations
  - Streamline dev sessions from day 1 & 2
  - PRO 1.0 out, PRO 1.1 soon with SDK
    - SDK will do what Charlie needs...
    - PRO 64 BIT OS... 8 GB RAM
  - Mansor Raad - presentations are great



# Round Table

- MOOC coming – Free
  - Early March
- TUGIS Preconference Workshop
  - March 16<sup>th</sup>
  - Conference is the 17<sup>th</sup> - \$60.00



# Round Table

- Follow-ups
  - GRID Migration
  - COO permit data
  - Updated OTR Data
  - Air Rights Lots?
    - Data incomplete? – Lindsley to work with Rasheed
  - 3D Design review application...
    - Need sub committee, Create.io
  - CORS enabled



# Round Table

- Charlie
  - CORS Clarification
  - Julie – internal test server
  - \*.dc.gov host externally
  - End goal is world wide CORS
  - Frank working towards architecture
  - Need approval from CWITS (working towards this)
  - Timeframe: September 30, 2015..... (goal)



# Round Table

- David
  - DDOT requires visitor parking verified with MAR
  - A few new units a week
  - DDOT has website, if no MAR, then to MAR unit submission → David Fix
  - <http://Vpp.ddot.dc.gov>
  - Manly rental units, need to validate “legality”
    - Illegal should not get a VPP
    - COO could be used to validate this



# Round Table

- Roger
  - MD DOE conversation
  - 2,400 scale NHD
  - DDOE is looking at 2,400 – maybe 1,200
  - MoCo funded 26 million for BMP's – DC?
  - Sandy Supplemental LiDAR
    - Collection Finished December 2014
    - November 2015 for delivery – mid Atlantic
    - One single release (Greater COG)
    - Lessons learned from re-work (overpasses, bridges)



# Round Table

- Kate
  - DCRA efforts:
  - Office of Data Innovation (ie Kate)
  - Request data
    - Mario ALL!
  - Kate needs data need priority
  - Innovation – how tied to policy
    - If not collecting data, should we be
  - Outreach with institutes
    - Urban institute and Apple Seed
    - McCort School – Georgetown
    - Public policy schools working with DMPED
    - AU focused on Public policy, data and Health
    - Reach out to GW....



# Round Table

- Benito
  - Research branch (park, planning)
    - Data WiKi for traffic studies
    - Centralize data to remove duplication
    - Neighborhood parking plans
      - Dupont, Georgetown
      - Using Cyclomedia, Google
    - Refine Parking to the block level
    - RPP vehicles registered to which blocks
    - Start at desktop → moving to field verification



# Adjourned

Thank you

Links to past DC GIS Steering Committee Meeting Agendas and Presentations are available at: <http://dcgis.dc.gov> click on [DC GIS Steering Committee Link](#) on the bottom of the page.