



Web-ex users please enter your: **name – agency**

When calling in, right click on list to change

DC GIS Steering Committee

May 20, 2015



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



Agenda

- Introductions and Establish Quorum
- Approve Minutes 02/12/2015
- 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 [02/12/2015](#)



DC GIS News



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

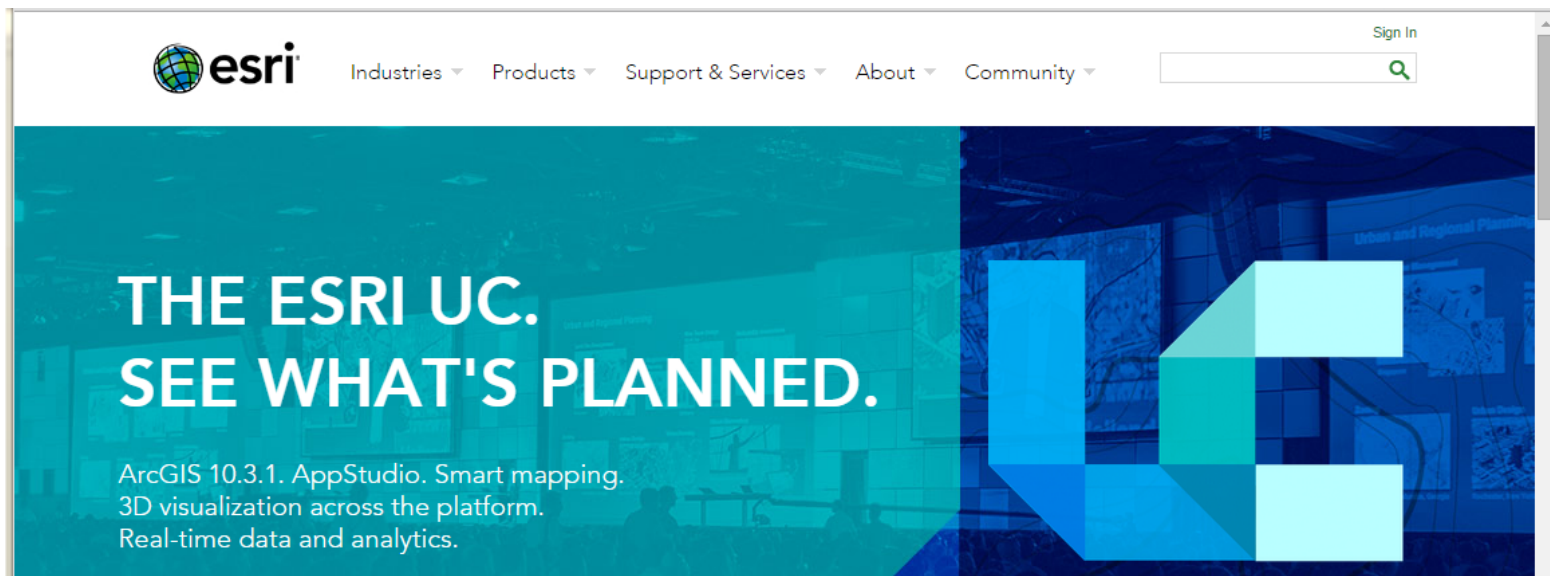
<http://dcgis.dc.gov>

<http://dcgis.in.dc.gov>



Esri UC 2015

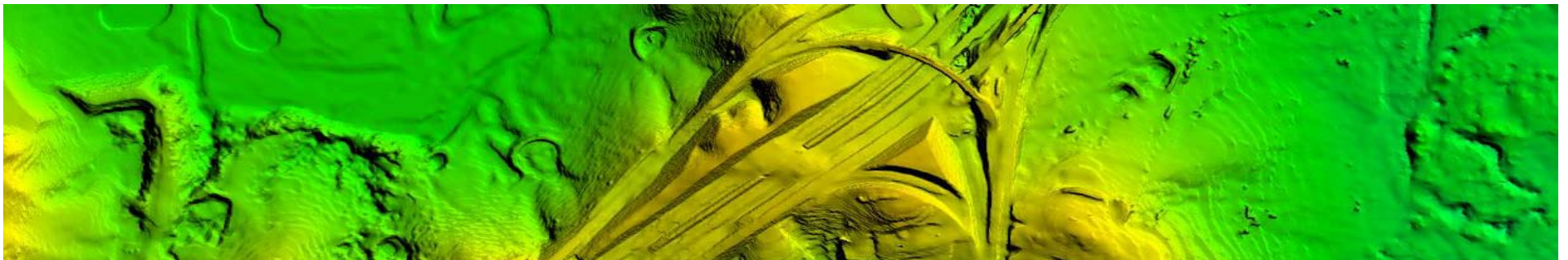
- July 19-24, San Diego, CA
- Papers / Presentations:
 - OCTO: Josh, Eva, Frank, Julie, Rasheed
 - DDOT: Earl, James
 - Others?



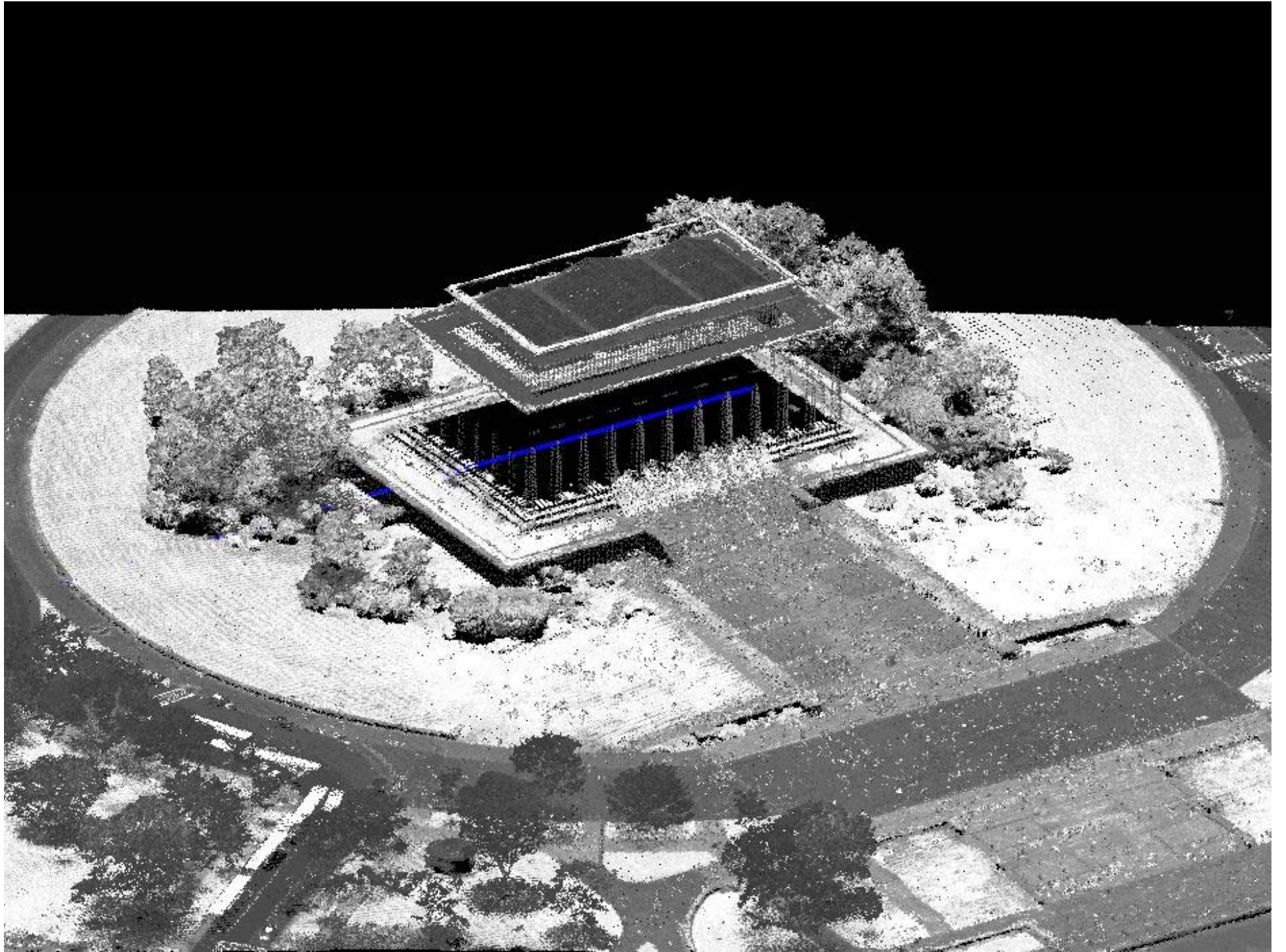


2015 Sensor Flight

- 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
- Flight Complete, Pilot early June











Fall 2014 Oblique Flight

http://oblique.sanborn.com/washington_dc/


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




+ Pan and Zoom -

Hold down and drag to pan, scroll wheel to zoom in and out


Selected Location from above




from the north



from the east



from the south



13th Street Northwest

US 29

US 1

US 50

K Street

I Street Northwest

Chinatown

Gallery Place - Chinatown

Metro Center

F Street Northwest

E Street Northwest

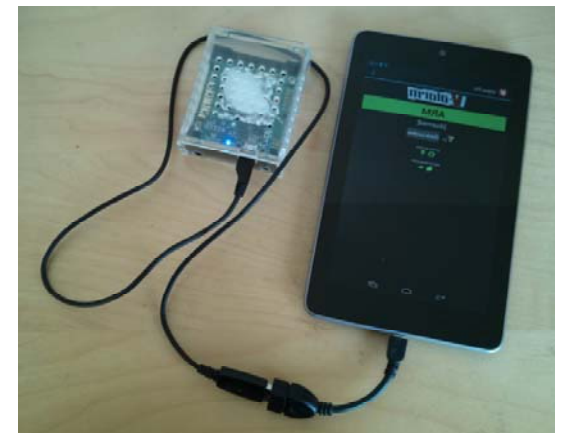
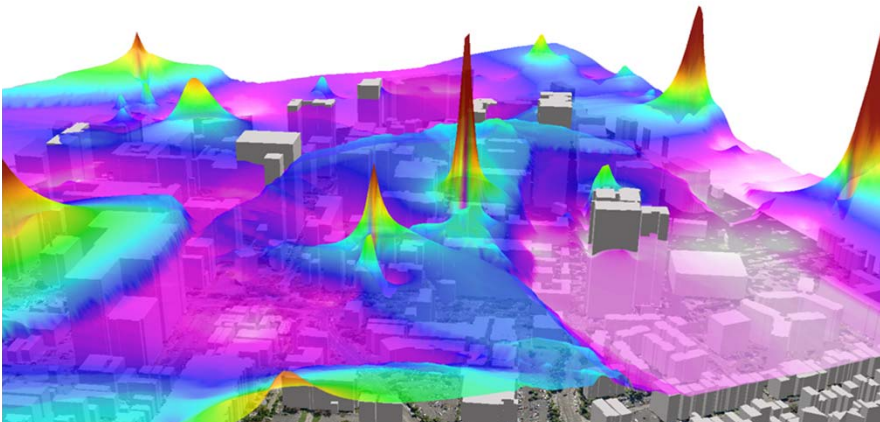
Leaflet | © OpenStreetMap contributors





VALARM – Kicked off March 3rd

- PM – Capital City Fellow Akaii.Lineberger@dc.gov
- Air Quality Index data
 - Presence and concentration of Volatile Organic Compounds as a group
 - Temperature, Humidity, Barometric Pressure
 - CO2 concentration



<http://www.valarm.net>



VALARM Status



- Partnership with DDOE, VALARM LLC, and OCTO DC GIS to collect real-time geo-tagged air quality data
 - VALARM Blog:
<http://www.valarm.net/blog/real-time-geo-enabled-mobile-environmental-monitoring-in-washington-d-c/>
 - VALARM Video:
https://youtu.be/fGUz_20buMc?list=PLPMrl9k1876s2P9tMStVttNvumvQUuSXG
- Developing a methodology for determining the margin of error of the VALARM equipment
- Developing a listing of pollutants that both the VALARM sensors and DDOE's air quality monitoring systems can detect



VALARM - Science

- Can VALARM equipment differentiate pollutants in the VOC data
- Determining whether there is a correlation or trending pattern between the VOCs
- Investigating whether the air quality monitoring data collected is useful to the District and can one day meet EPA collection standards—Federal Reference Method or Federal Equivalent Method



Business Data and Tech Innovation Project

- Coordinating with Key partners to develop a business data portal and digital marketing application within five Great Streets Corridors
- Digital Inclusion Initiative: Exploring Free Wi-Fi for selected Great Street Corridors
- Developing a research-based methodology to data collection and tech tool development



DC ArcGIS Online

- Membership rising
- Gallery & Application Templates coming soon.
- Recent Projects & Updates

The screenshot shows the DC ArcGIS Online gallery interface. At the top left is the DC.gov logo with three stars and the text 'The District of Columbia'. To the right is a 'Website' button. Below the header is a navigation bar with 'Gallery' on the left, a search box, 'Sort by', and 'Sign In' with an external link icon. The main content area is divided into two columns. The left column has a section titled 'About this Gallery' with a paragraph: 'The District of Columbia offers several custom online mapping applications. Some of these are built for DC agency specific goals and business processes while others are focused on serving DC residents and the public in general.' The right column lists three applications, each with a thumbnail icon, title, type, and description:

- Permit Status Map Viewer (DDOT)**
Web Mapping Application
The Permit Status application helps citizens locate a permit and obtain information about permitted activities in their community from their smart phone, tablet or PC.
- Transportation Online Permitting System (TOPS)**
Web Mapping Application
TOPS makes it easy to apply for the type of permit you want - just follow the prompts and instructions.
- Seasonal Leaf Collection**
Web Mapping Application
View leaf collection progress in your neighborhood



Data Catalog

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

DC.gov District of Columbia Open Data Website

OPEN DC DATA CATALOG HELP

Search for open data SEARCH WITHIN MAP SEARCH SHARE

Map showing various DC neighborhoods including Arcola, Chantilly, Falls Church, Washington, and others.

DATA

- Administrative and Other Boundaries
- Business and Economic Development
- Cultural and Society
- Demographic
- Education
- Elevation
- Environment
- Health and 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 do not see a dataset you need, please let us know and we will add it to our list.



OCTO GIS News

Tim Abdella



Program Updates

- FTE Update - 3 positions pulled; 1 to repost:
 - Public Safety Liaison
- FY'16 Proposed Budget:
 - Operating reduced by 50K
 - No new Capital - small amount left in current
 - No Assessment
 - Will need agency support / MOU
 - <http://cfo.dc.gov/page/annual-operating-budget-and-capital-plan>



FY'15 Procurements

- Update GIS Strategic and Business Plans
 - Currently out for bid / BAFO
- Sensor Flight QA\QC support
 - Out for BID, Proposals due soon
- Safe FME Server & Desktop
 - Ready for posting
- Derived LiDAR & Cool Heat Map
 - SOW underway



FY'16 Forecast

- **Annual Esri ELA & EEAP**
- **NG-911** – [Next Generation 911](#)
- **AGOL for DC Schools** – [ConnectEd initiative](#) (kick off 2015)
- **3D Building Data** – Photo realistic 3D building dataset
- **3D Immersive digital environment** – beyond <http://create.io>
- **Indoor Mapping** – mapping interior space of buildings, underground infrastructure
- **Spring Flight (LiDAR, Ortho)** – no planimetrics (\$)
- **Open Geo Stack** – OGC Open Source GIS Infrastructure
- **MAR 2.0** – NG 911, 3D and Historical
- **Emerging** - Drones, IoT, Smart Cities, etc....

- **GIS Big Data** – Technology is rapidly changing, users expectations of performance is evolving; OCTO GIS must revolutionize the back-end systems and services to meet user expectations. Using Technologies like Hadoop and elasticSearch OCTO GIS will dramatically increase the performance and reliability of hundreds of GIS applications across the District. – kick off 2015 – Mansur Raad to host working sessions



Highlights: OCTO GIS Team to Cover

Migrations / Updates:

- Data
- Development
- Systems
- Training



Data Report

Mario Field



Updated Datasets

- Bank
- Bicycle Lane
- Boys and Girls Club
- Business Point
- *Camera Enforcement*
- *Capital Projects- 2014*
- *Capital Project - Overall*
- Cemetery
- Charter School
- Check Cashing
- *Clean Team Service Area*
- *Critical Facilities*
- *CRS_SFHA*
- DC Agency
- Federal Office
- *Fire Hydrant with Flow Data*
- Gas Station
- Golf Course
- Great Street
- Historic District
- Historic Landmark Element
- Historic Landmark
- Historic Landmark Point
- *Homeless Shelter*
- Hospital
- *Hospital Area*
- *Neighborhood Name Label Points*
- *Neighborhood Planning Area (DDOT)*
- Notary Public
- Non-depository Location
- Park Poly
- Recreation Area
- Recreation Point
- Signed Bike Route
- Street Tree
- Street Centerline
- Street Segment
- Street Light
- Trail
- *Triangle Park and Median*



Next Data Load

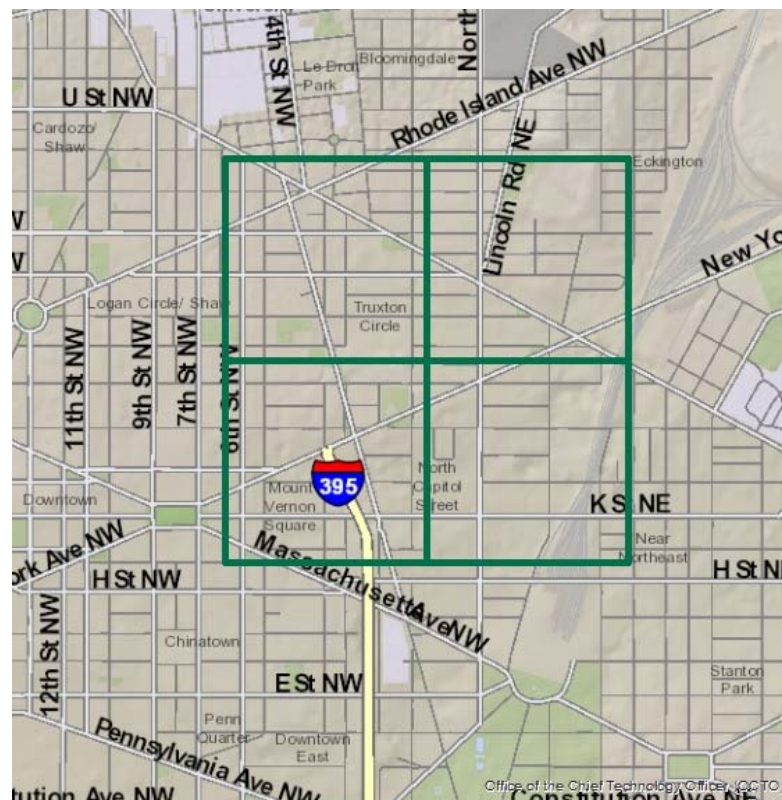
- ATM locations
- Credit Union,
- DC government property
- Notary Public
- Recreation areas to include Dog parks
- Reservoir Areas
- Water Facilities
- Wells
- Wifi Hot Spots



Sensor Flight - 2015

- All imagery collected by April 22
- Currently Mapping Pilot Area
- Sample Ortho and Oblique Images
- Key Dates
 - Pilot – 1st week June
 - LiDAR – end-Summer
 - Obliques – mid-Summer
 - Ortho – end-September
 - Planimetrics – mid-December

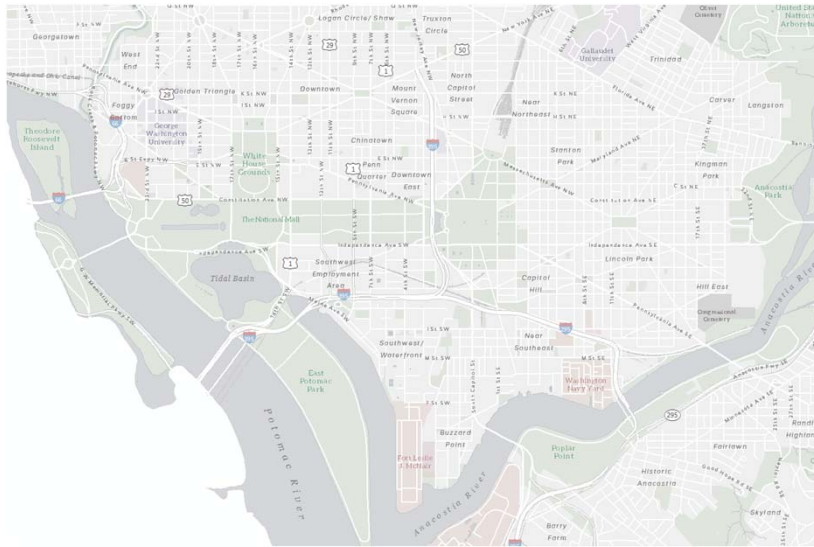
Pilot Area



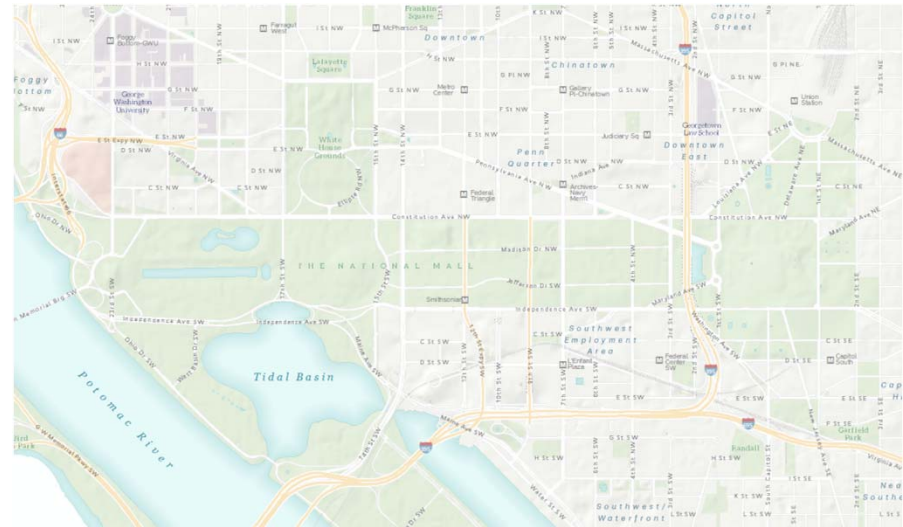


Basemaps

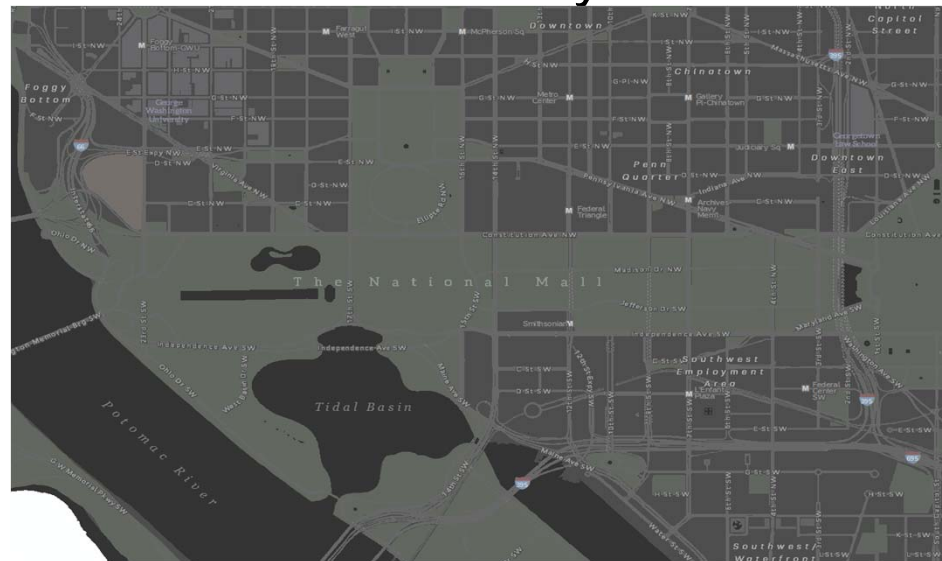
Light Gray



Standard



Dark Gray





Central Database Review

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



Systems Report

Frank Wang

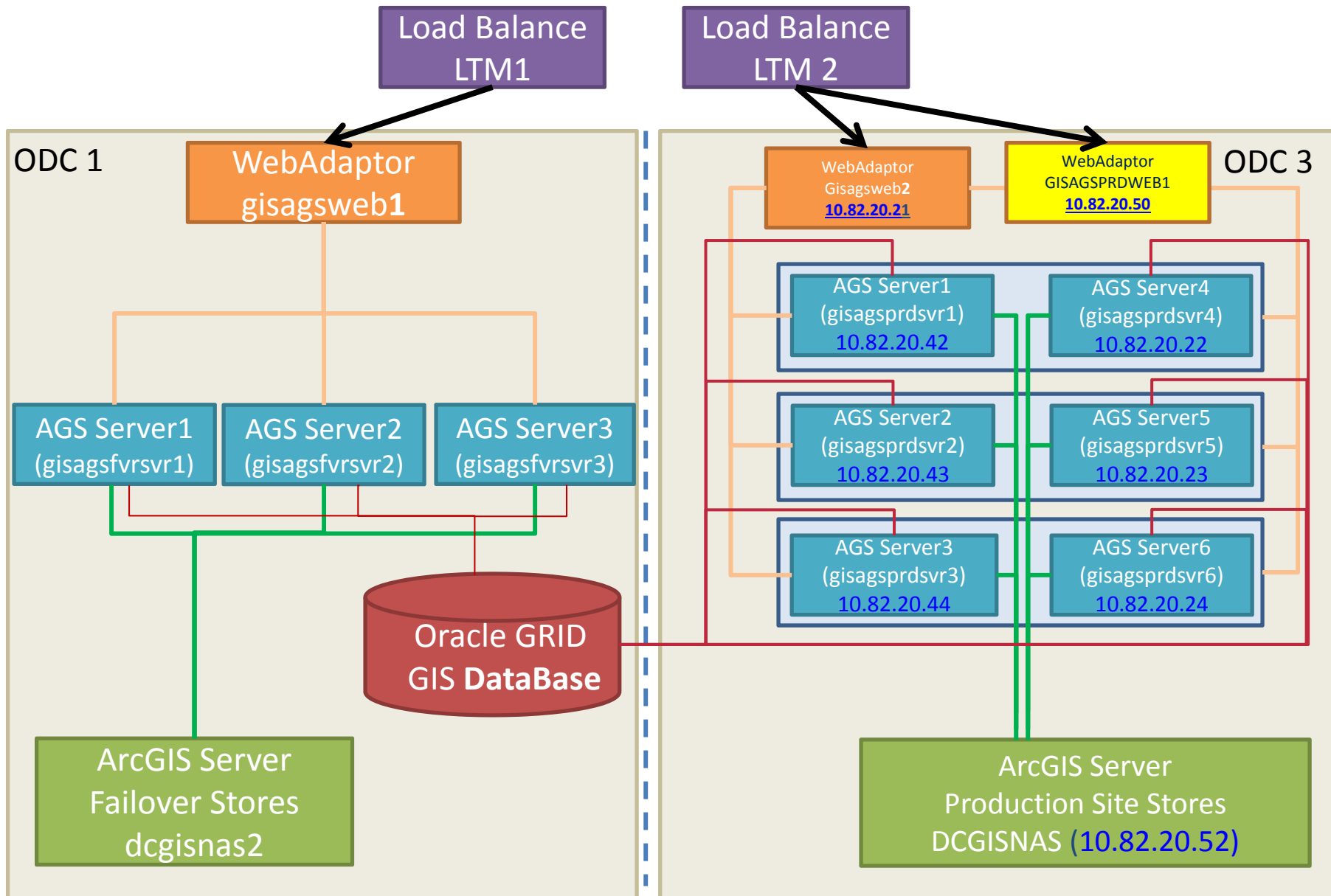


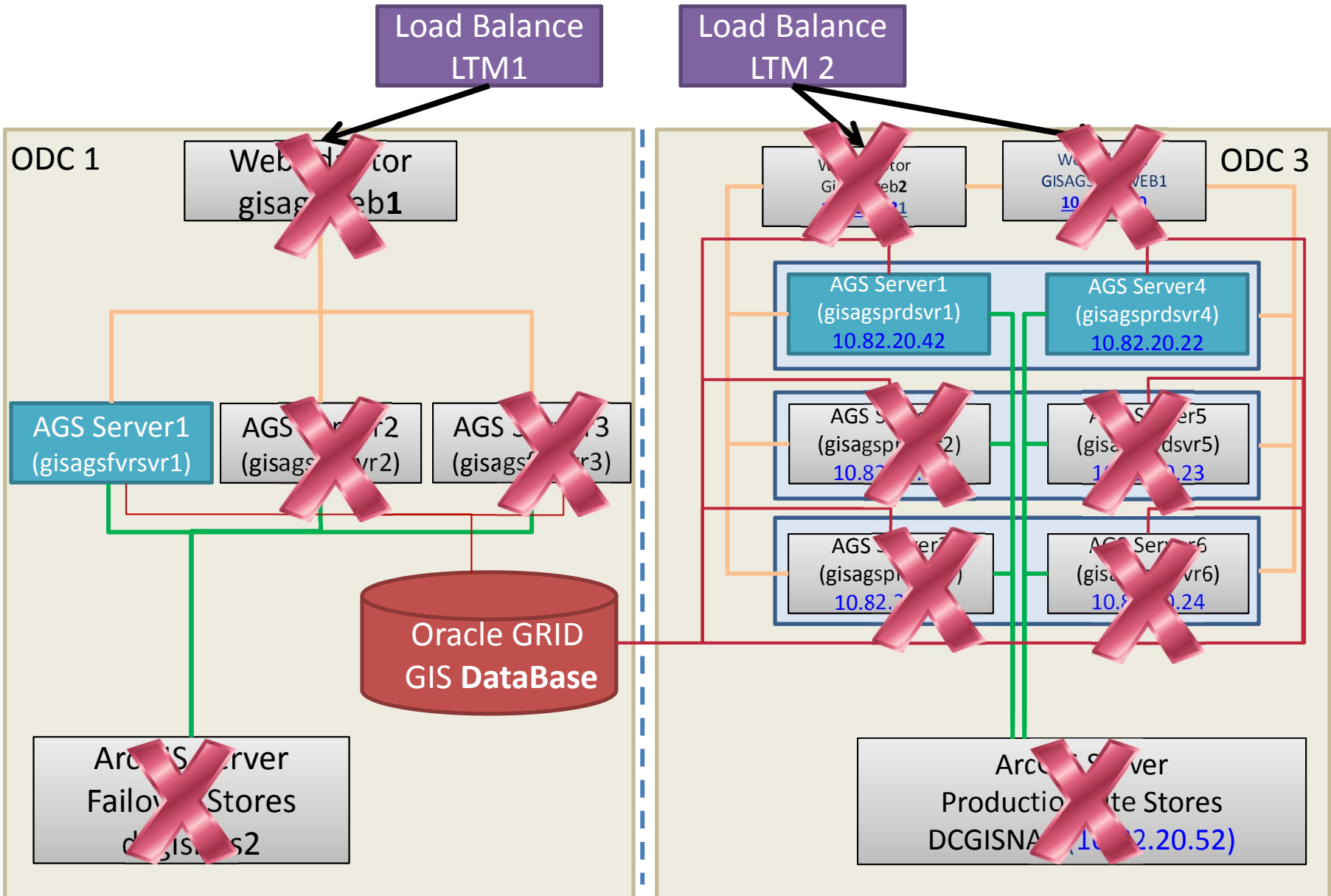
GIS Server Updates

- New ArcGIS System Architecture
- Updated ArcGIS License Server to 10.3.1
- Installed ArcGIS Server System Monitoring tools
- Server Migration to 2012 R2
- Oracle GRID Migration – TNS Names Change!



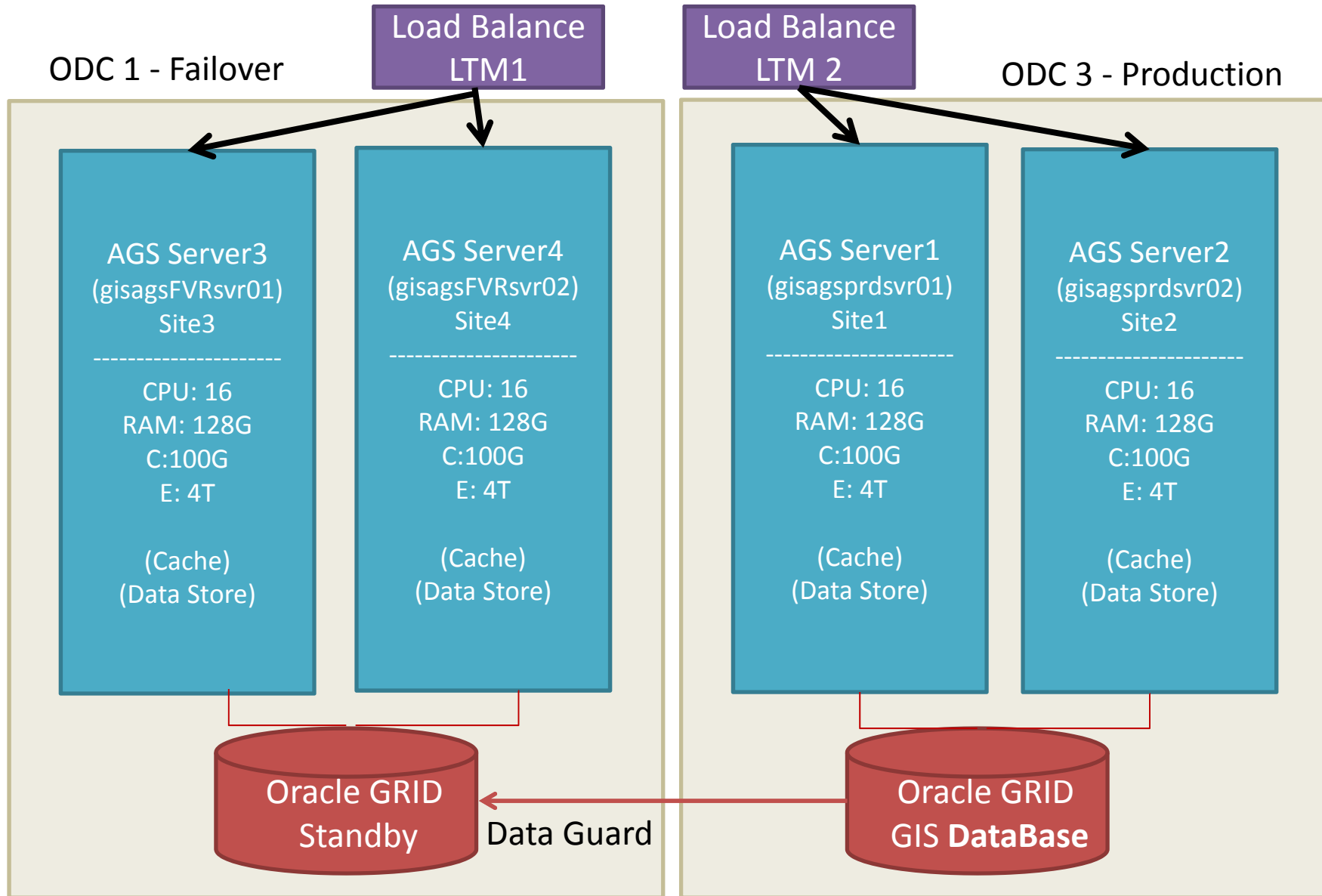
Existing Architecture







New Architecture





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

Julie Kanzler



Responsive ArcGIS Online Templates

1 New Gallery Template

Instant DC.gov branding

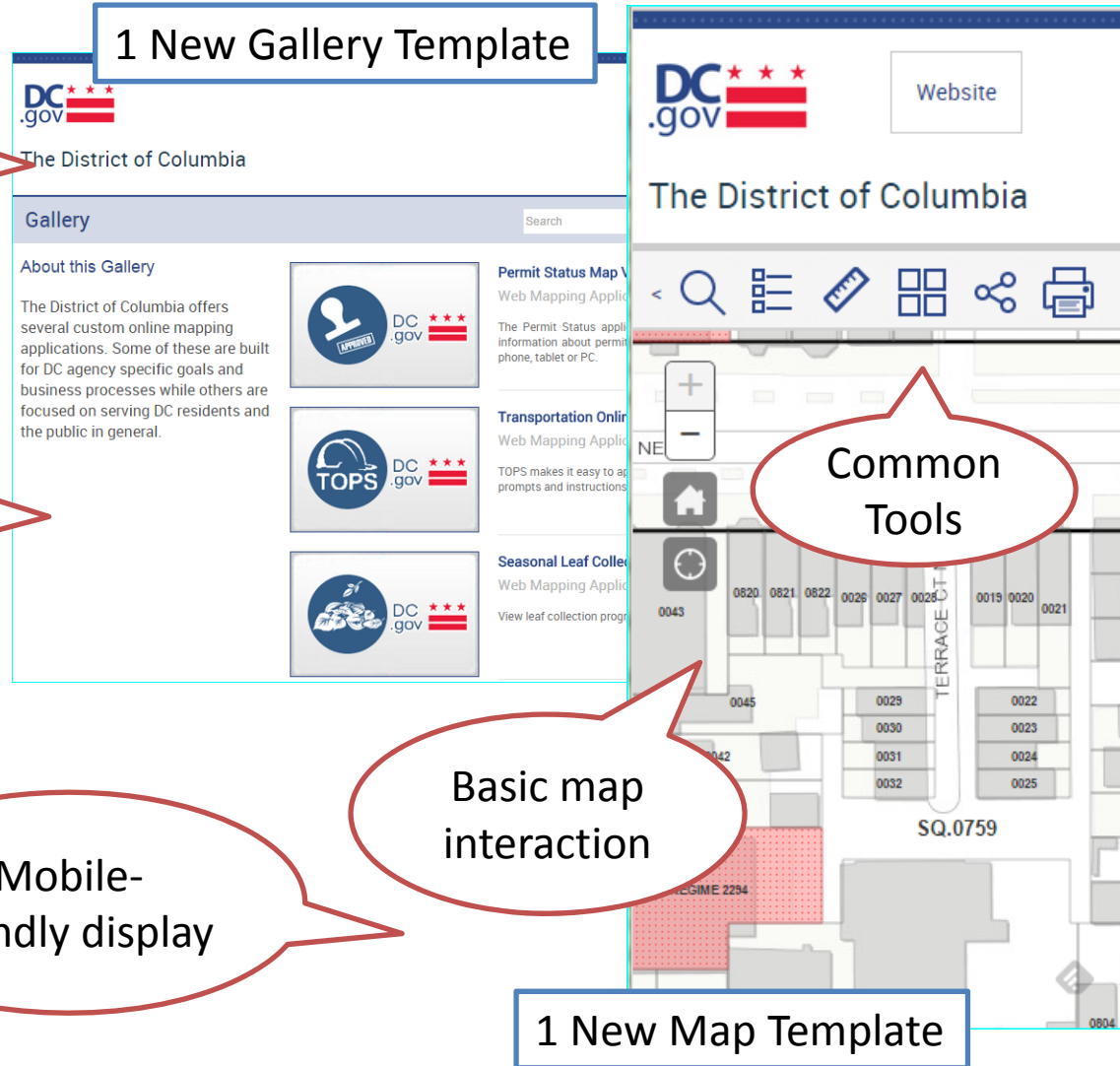
Clean, modern look and feel

Mobile-friendly display

Basic map interaction

1 New Map Template

Common Tools





AGOL Templates, Cont'd

- To be published by Tuesday 5/26
- Will notify user community with directions on how to use
- As always, thoughts, ideas, feedback to julie.kanzler@dc.gov



Web Application Consolidation

- Currently underway, templates lay groundwork
- Curbing application proliferation
- Grouping similar applications around archetypes to be bound to templates and/or otherwise managed centrally
- Replaces application development with configuration

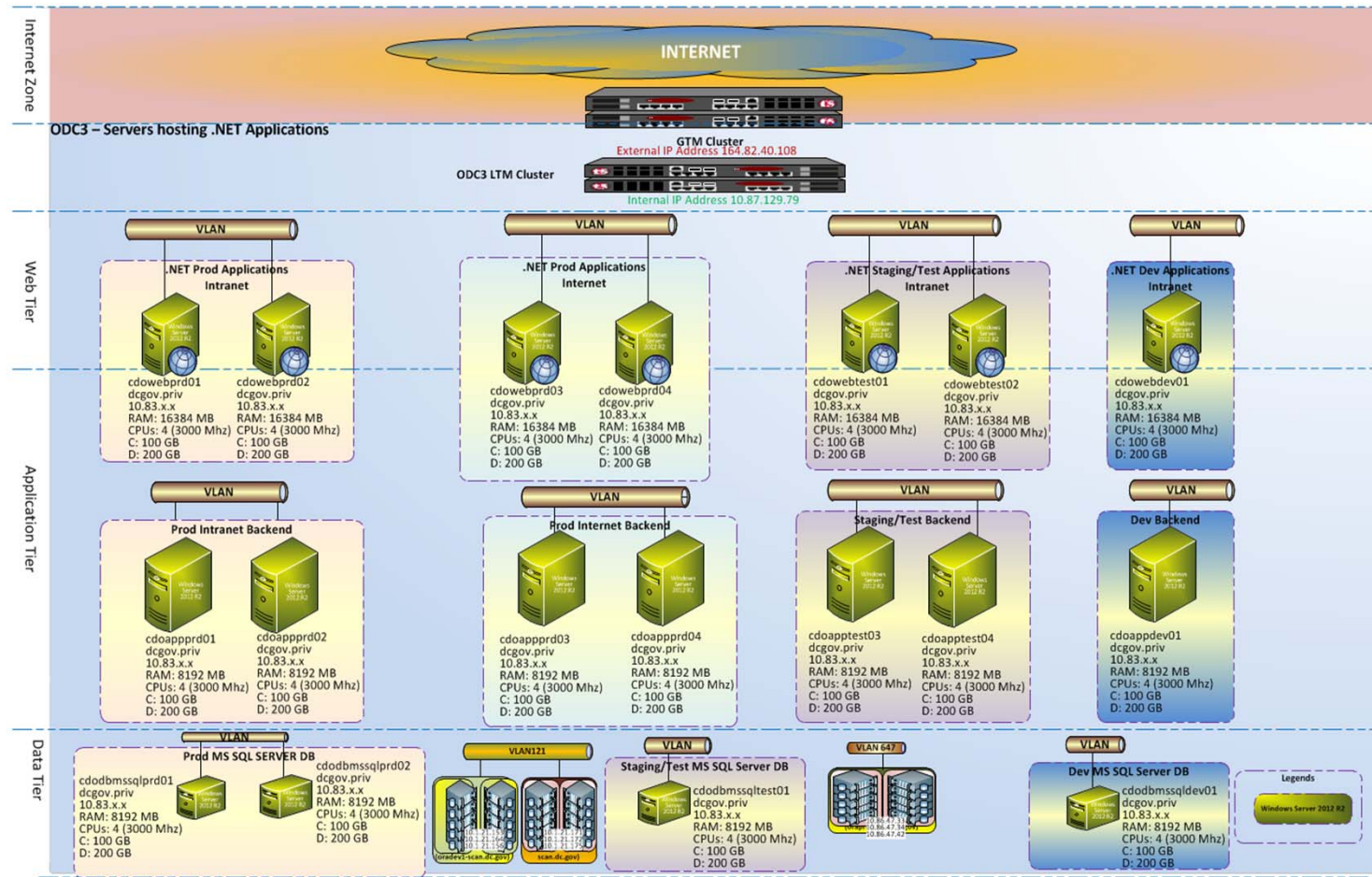


Sample Archetypes

Archetype	Sample applications
Find all, find my nearest	Tech Locator, FEMS locator, Notary search
Area drilldown & status	Leaf Collection, Recycling, PSA Finder
Data vis and analytics	Crime map, Snow response map



Server Migration status



Scheduled completion end of June 2015



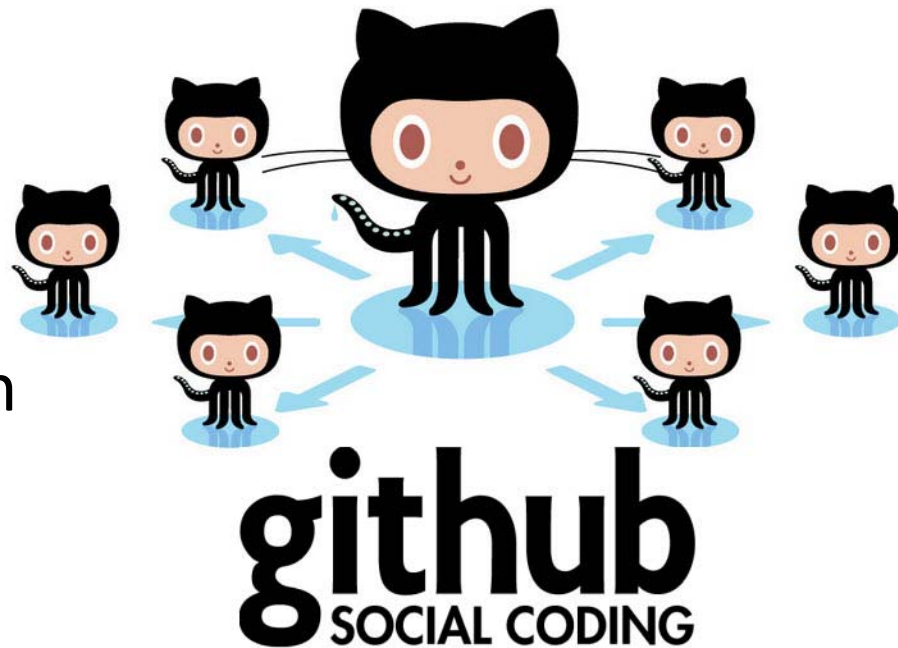
Server Migration status cont'd

- All windows 2012 R2
- Consolidation with our Citywide data warehouse to move towards integrated data access & analytics applications
- Deployment to be automated using Dimensions (source control) agent



Github presence

- Starting with a set of guides and samples designed to help users consume our .Net web services and our data!
- And then...
 - Participation in open source projects!!
 - Creating our own open source project repo!!!





Github presence cont'd

- Samples to be deployed coincident with opening CORS on *, enabling direct access by numerous clients
- Sample integrations
 - Mapping clients: Esri, leaflet, mapbox, cartoDB
 - CitySDK (live census data)
 - D3
 - Other ideas???





Etc...

- Developer webex – quarterly?
- Working on Vector Property Management
 - Next year, geocoding 😊
- Quickbase – GIS enterprise integration
- SYEP - Usability Testing this summer(?)





Training Report

Eva Stern



Round Table

Open Forum



Round Table

- Last Meeting Summary:
 - FedUC 2015, TUGIS, MOOC
 - 3D Application – Sub Committee?
 - CORS
 - COO
 - NHD – USGS, DDOE, DC Water
 - DCRA Office of Data and Innovation
 - DDOT Parking and RPP
 - Esri UC 2015



Round Table

- Topic....



Adjourned

Thank you

Save the Date – 8/27/2015

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.