



**District of Columbia
Geographic Information System
Steering Committee
January 21, 2010**

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Introductions & Quorum



Minutes from last meeting

<http://dcgis.dc.gov>



New Reporting and
Documentation Capabilities
Alexander Salvatierra



DC GIS NEWS

- FGDC Cooperative Agreement Program proposal submitted
- Spring 2010 photogrammetric update
- CTO meetings with ESRI in Redlands
- Organizational Changes
 - City Administrator's IT Staff Consolidation Memo
 - Discussion: what does it mean for GIS?



DC GIS NEWS

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- CTO meetings with ESRI in Redlands
- New content switch will make web services more available
- [Survey and mapping procurement](#)
- Better data update process



VMP Updates

- Data Loading of Vector Property data to DC Central is now WEEKLY
- Previous VPM data loading process was manual
- Issues: User locks, copying of ~1m features via Catalog is not “fun”, VPM maintenance process prevented ESRI Replication.
- Now automated 2 distinct processes
 1. Copy (via SDEEXPORT/SDEIMPORT) to Staging schema, if ok, then move to Production, set user privileges etc.
 2. Build OwnerPly from VPM features and latest ITS public extract file weekly
- Benefits: Faster, Lock issue becomes minimal, hands-free maintenance, quicker community access to most current VPM data.



Gov-Delivery Notifications

District of Columbia | MAYOR FENTY | DC GUIDE | RESIDENTS | BUSINESS | VISITORS | GOVERNMENT | FOR KIDS

Geographic Information System

Kids

District of Columbia Geographic Information System

DC GIS HOME
About DCGIS
How To Reach Us
Ask the Project Manager
FOIA Requests
News Room
FAQs
Sitemap

Services

DCGIS NEWS

Sign up for DC GIS Updates

District of Columbia

DC Geographic Information System

A Quick Subscribe Page for Items categorized as "DC Geographic Information System" Items

District of Columbia offers updates on the topics below. Subscribe by checking the boxes; unsubscribe by unchecking the boxes.

Access your [subscriber preferences](#) to update your subscriptions or modify your password or e-mail address without adding subscriptions.

- DC Geographic Information System**
 - DC GIS Program Information & News (Recommended)
 - GIS Data Updates (MAR, VPM and All Other)
 - Web Map Services
 - Web Services (Non-map for DC Guide and MAR)

[Help](#) - [Privacy Policy](#)

New, Enhanced Detailed District Topography
Topography for the District is now available for download from the [Full Text](#)

Updates for December 2009
Maintenance and enhancement program to keep data current and GIS layers. Data updates for December include grates, snow [Full Text](#)

Website Promotes DC to Retailers
Query more than 280 retail opportunities by size, neighborhood, [Text](#)

Google (Earth) DC and GIS Manage DC Fire
Video coverage to find out how the technology is used. [Full Text](#)

[Home](#) - [Accessibility](#) - [Privacy & Security](#) - [Terms & Conditions](#)



Tools for you to use

Geographic Information System

- OCTO HOME
- DC GIS HOME
- SERVICES
- INFORMATION
 - DC GIS Program
 - Steering Committee
 - Master Address Repository
 - Google Earth for DC Strategic Plan
 - VPM Guide
 - DC Atlas
 - DC Guide
 - Glossary
 - GIS Links
 - DC GIS Standards
- ONLINE SERVICE REQUESTS

DC GIS Web Services for Web Development

This section of the site is geared towards website developers and includes useful information for implementing the DC GIS geospatial web services for web development. Learn how to make and retrieve on-line maps and data about Washington DC via web-services. Please feel free to integrate these web services into your website(s). Using these will save time, money and the uncertainty of having the most current data.

Support for these services are available to District of Columbia agencies and their contractors only. If for some reason the services are interrupted or unavailable a notice is posted through the [DC GIS subscription service](#).

Topics:

- [Reasons to Use](#)
- [How to Guides](#)



Web Data Services:

Name	Description
MAR Location Verifier	Verify or find a DC address, intersection, block, square suffix lot and place name
Basic Map	Generate a jpeg map with user defined parameters including map width, height and layers
Category Contents	View category information based on Category ID
Category Features	A point-to-polygon service using Category ID and Maryland State Plane Coordinate System
Feature Details	Query a feature based on Feature ID
Point Area Report	Returns results based on Maryland State Plane Coordinate System and Category ID
Political Area Report	Query political area information
Political Area Summary	Get all political area information based on Maryland State Plane Coordinate System
Coordinate Converter	Converts Maryland State Plane Coordinate System to United States National Grid or Latitude/Longitude

Web Map Services:

Name	Sample View	Description
Basemap in Maryland State Plane	View	View
Basemap in Web Mercator	View	View
Green Map Server	View	View
Aerial Photography 2007	View	View
Right of Way Scans	View	View
Zoning Map Server	View	View



Training Class Schedule FY 2010



Pending approval from WDA

- ~~November~~
 - ~~Overview 11/04~~
 - ~~Google (Earth) DC 11/10~~
 - ~~ArcGIS 11/17 to 11/19~~
- ~~December~~
 - ~~Overview 12/02~~
 - ~~Google (Earth) DC 12/09~~
 - ~~ArcGIS 12/15 to 12/17~~
- January
 - Overview 01/06
 - Google (Earth) DC 01/13
 - ArcGIS 01/19 to 01/21
- February
 - Overview 02/03
 - Google (Earth) DC 02/10
 - ArcGIS 02/16 to 02/19
- March
 - Overview 03/03
 - ArcGIS 03/16 to 03/18
 - Google (Earth) DC 03/24
- April
 - Overview 04/06
 - Google (Earth) DC 04/14
 - ArcGIS 04/20 to 04/22



Training Class Schedule FY10

Pending approval from WDA



- May
 - Overview 05/04
 - Google (Earth) DC 05/12
 - ArcGIS 05/18 to 05/20
- June
 - Overview 06/02
 - Google (Earth) DC 06/09
 - ArcGIS 06/15 to 06/17
- July
 - Overview 07/07
 - Google (Earth) DC 07/14
 - ArcGIS 07/20 to 07/22
- August
 - Overview 08/03
 - Google (Earth) DC 08/11
 - ArcGIS 08/17 to 08/19
- September
 - Overview 09/01
 - Google (Earth) DC 09/08
 - ArcGIS 09/14 to 09/16



Data Report
Mario Field



Updated Datasets



- AM Radio Station Transmitter
- FM Radio Station Transmitter
- Camera
- CAMA comm, condo, residential
- Cellular Tower
- Cemetery
- Grate
- Green Site and Resources
- Intersection (MAR)
- Impervious Surface - 2008
- Land Mobile Broadcast Service Transmitter
- Land Mobile Commercial Service Transmitter
- Land Mobile Private Service Transmitter
- Leaf Boundary
- Liquor License
- Notary Public
- Ortho 2009 (1 foot resolution – Pictometry)
- Ortho 2009 (1 foot resolution – Pictometry)
- Other Bus Line (Circulator)
- Other Bus Stop
- Planned Unit Development
- Public Library
- Recreation Facility
- SMD 2002 (added rep information)
- Snow – partial light plow route
- Snow Area
- Snow Zone
- Snow Route
- Stairs
- Swimming Pool
- Transfer of Development Rights
- TV Digital Transmitter
- Topography – 2 foot contours
- Topography – Spot elevation points
- Topography – Break lines
- Zoning



Next Update



- **NAIP 1 meter imagery – summer/fall 2009 collection**
- **10 foot Contour**
- **20 foot Contour**
- **Liquor License**
- **Street Car Route**
- **Street Light**
- **DDOT parking meter database**
- **DC Agency Location**



Retiring Datasets



Old Layer

- Snow Contractor Route
- Snow Park Route
- Snow Priority Hill
- Topo Line – 5 m contour
- Topo Line – 10m contour
- SewerPly
- StructPly

New Layer

- Street and Ramp Snow Routes
- Street and Ramp Snow Routes
- Street and Ramp Snow Routes
- Topo Line – 10 foot contour
- Topo Line – 20 foot contour
- GratePt
- StairsPly



State Broadband Data and Development Grant Program

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NOFA Summary



- Grant eligibility limited to states or designates
- NTIA will award up to approximately \$240 million in matching grants to states, territories and the District of Columbia.
- Mapping-related awards expected to range between \$1.9 million and \$3.8 million per state.
- Planning-related awards may be up to \$500,000 per state.
- Grant recipients required to contribute at least 20% non-federal matching funds toward total project cost.
- Matching funds can be in the form of in-kind contributions
- October 26, DC Awarded \$993K for mapping and 500K for planning



NOFA Deliverables (and changes Clarification 1)



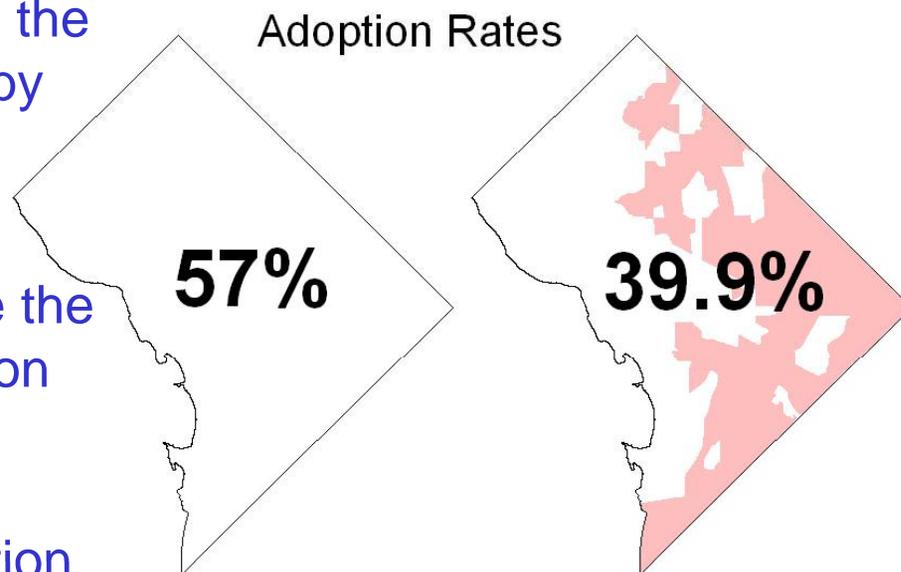
- Availability of broadband service at the ~~address~~ **Census Block** level
- Advertised and “expected actual” speeds of broadband service
- Technology used to deliver broadband service (e.g., Cable, DSL, Fiber-to home, WiMax)
- ~~Average Revenue Per User (ARPU)*~~
- Location and capability of middle-mile and ~~last-mile~~ broadband-related infrastructure*
- Spectrum used by wireless broadband service providers
- Broadband service availability at community anchor institutions (public schools, libraries, hospitals, colleges and universities and all public buildings owned or leased by agencies or instrumentalities of the states or municipalities or other subdivisions of the states and their respective agencies or instrumentalities).

* Confidential



Mapping Our Digital Divide

- Pursuant to the letters sent by the Public Service Commission, all major fixed line facilities and all but one major wireless provider voluntarily contributed form 477 data.
- 99% of the residential broadband connections in the District come from the three largest providers.
- The data from large providers was aggregated by census tract to determine the total number of broadband connections by tract.
- Comparison with demographic data reveals a stark digital divide. As a whole the District has a citywide broadband adoption rate of 57.87%. This statistic masks the near-100% adoption rates in the more affluent neighborhoods, as well as adoption rates below 40% in large lower income areas.





OCTO's Commitments



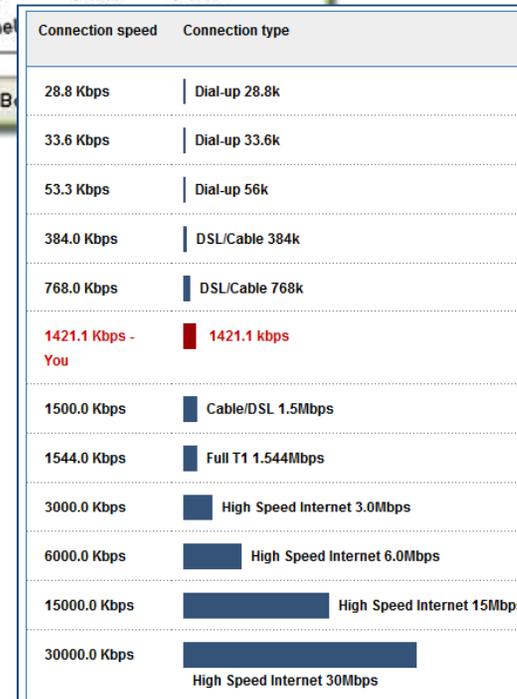
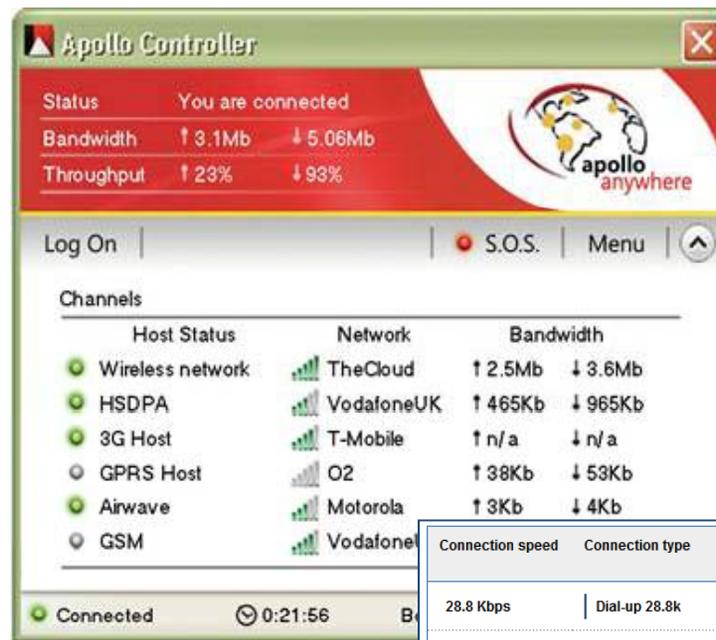
- Meeting all deliverables and schedules established by NTIA, thereby fully contributing to the national broadband map. Focus is on availability.
- Forming lasting partnerships with private sector providers and non-governmental organizations so that data is collected efficiently and distributed in an equitable manner.
- Going beyond NTIA deliverable requirements and developing detailed geographic and demographic data on the adoption of broadband.
- Disseminating the data to NTIA and as appropriate to the public with online mapping and data feeds.
- Establishing processes for and funding repeated data updating over five **two** years.



Data Sources



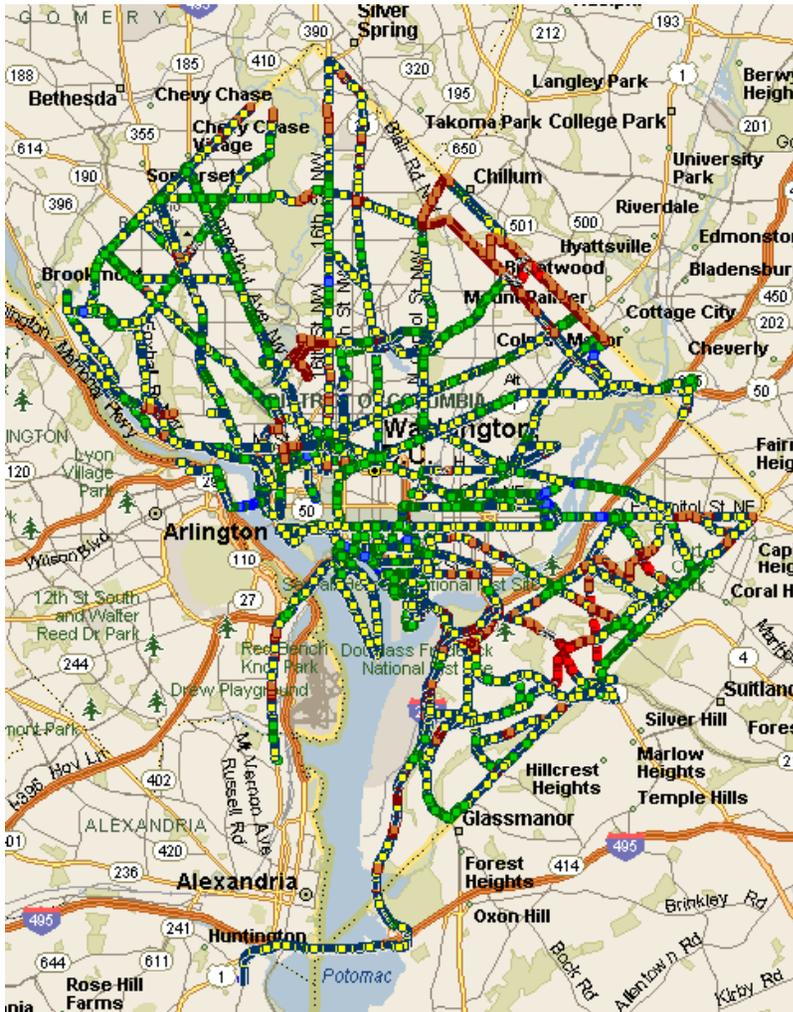
- Provider submissions
- Provider Web Sites
- Field data collection
 - Wire line
 - Wireless
- Broadband Test Web Application (crowd sourcing)
 - DC employees check from home
 - Public
- DC GIS Processing
- Existing Federal or DC Records
- Statistical Survey





Wireless Drive Testing

- Upload and download field



Apollo Controller

Status: You are connected

Bandwidth: ↑ 3.1Mb ↓ 5.06Mb

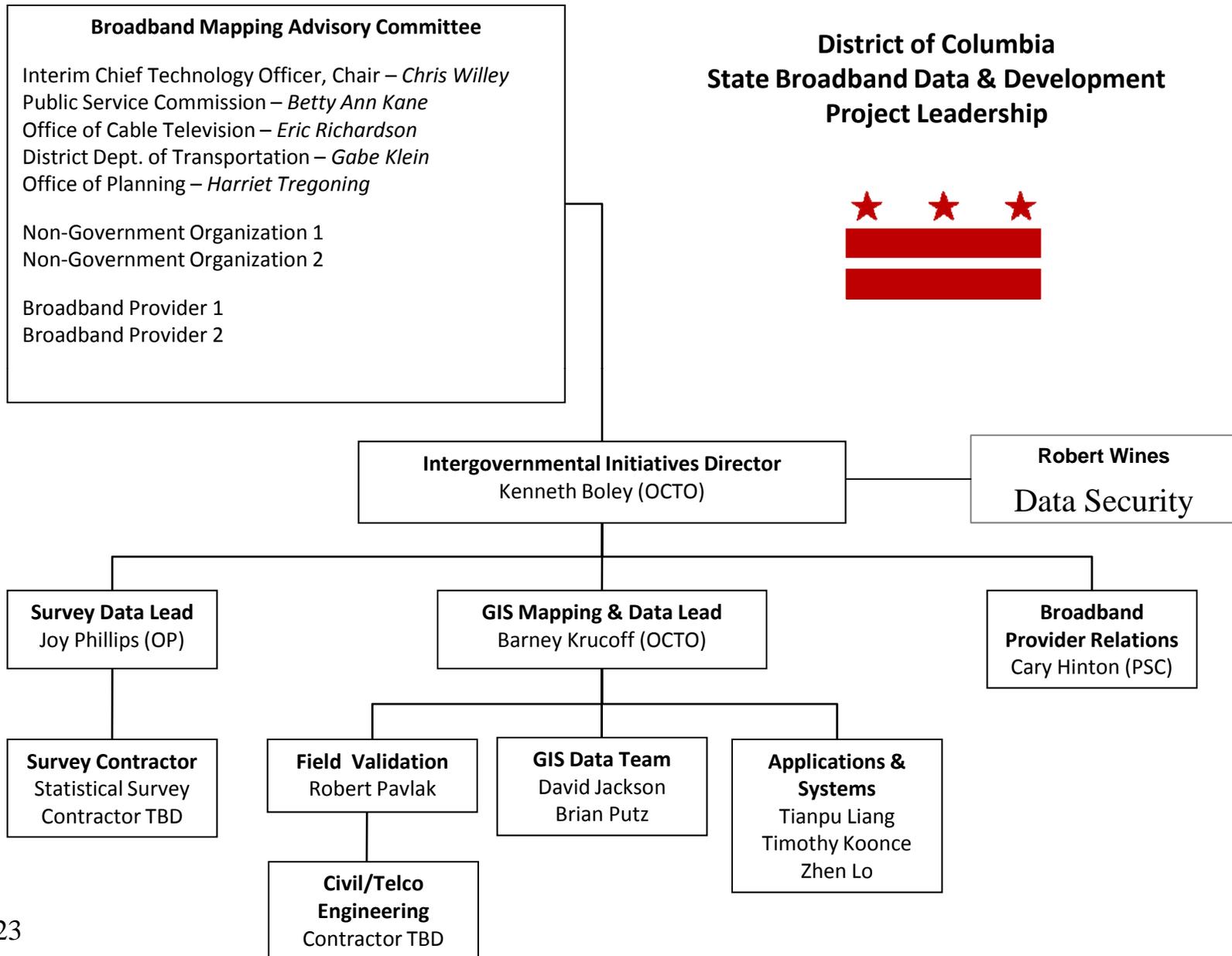
Throughput: ↑ 23% ↓ 93%

Log On | S.O.S. | Menu

Host Status	Network	Bandwidth	
● Wireless network	📶 TheCloud	↑ 2.5Mb	↓ 3.6Mb
● HSDPA	📶 VodafoneUK	↑ 465Kb	↓ 965Kb
● 3G Host	📶 T-Mobile	↑ n/a	↓ n/a
● GPRS Host	📶 O2	↑ 38Kb	↓ 53Kb
● Airwave	📶 Motorola	↑ 3Kb	↓ 4Kb
● GSM	📶 VodafoneUK	↑ n/a	↓ n/a

● Connected | ⌚ 0:21:56 | Bonded channels: 4 | ● GPS

Project Team





Significant Procurements



- Up to two ITSA GIS Analysts
- One Part time ITSA project manager
- Market Research/Survey Firm/non profit - a qualified consultant with expertise in planning and executing public surveys. The contractor will be capable of designing and conducting a survey of District residents with minimal supervision. Selection criteria will include:
 - expertise in statistics
 - experience conducting market research, with previous experience with broadband market research a plus
 - the resources to mobilize and meet NTIA deadlines
 - price
- Engineering Validation Firm - The District will hire a qualified consultant with expertise in civil and telecommunications/network engineering. The contractor's primary duties will be to validate provider data in the field. Selection criteria will include:
 - telecommunications engineering experience
 - a successful track record of working with various providers, but independence from providers as a business entity
 - survey and mapping experience
 - the resources to mobilize and meet NTIA deadlines
 - price



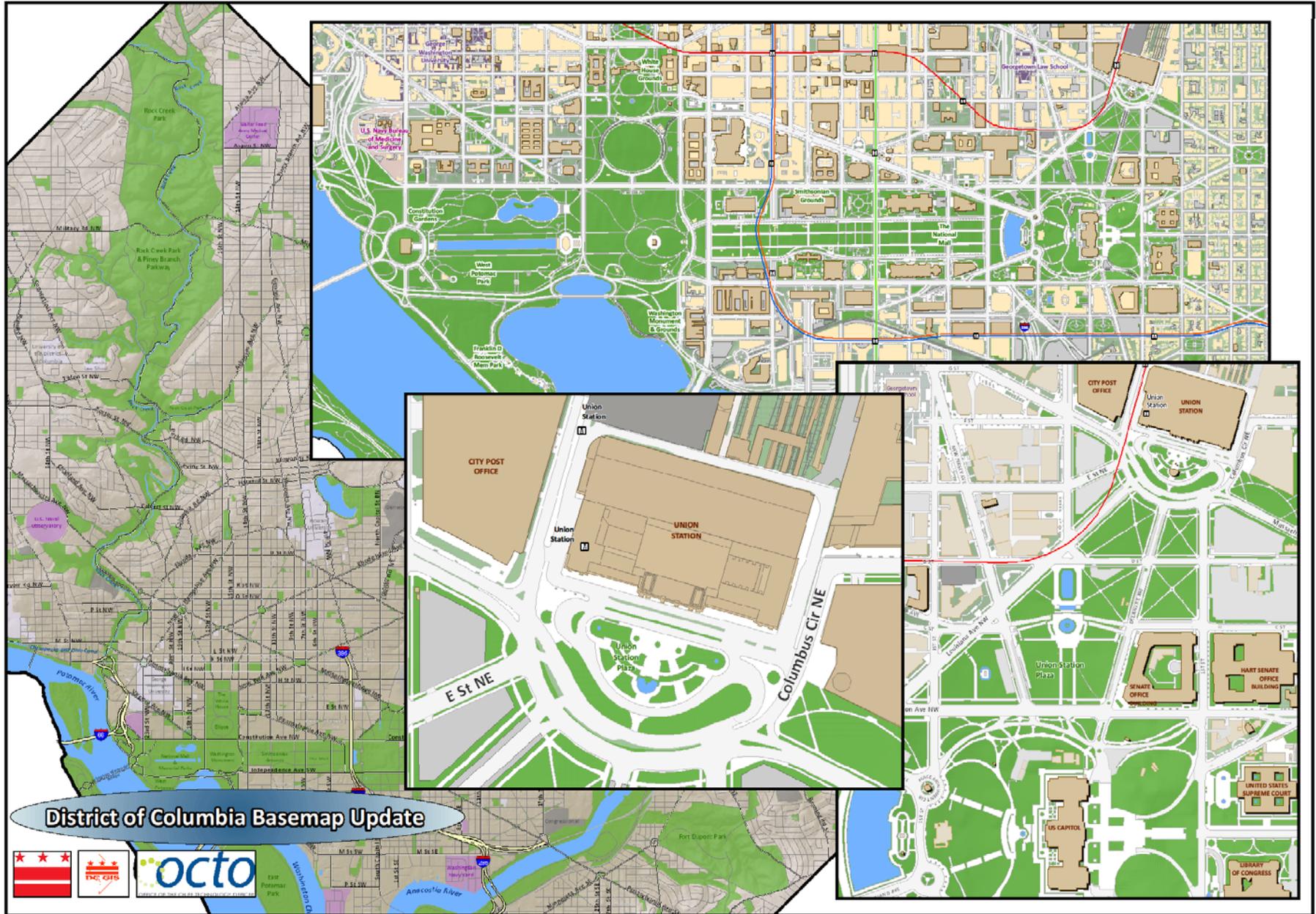
ESRI/CTO Meeting



- Two major areas of discussion
 - “Model City” projects
 - Enterprise License Agreement
- Model City Project
 - Showcase ArcGIS X technology
 - Map Services
 - Silverlight and Flex viewers
 - Development of reusable templates with similar look and feel across departments
 - Emphasis on usability and cartography
 - Emphasis on mobile



New Base Map Service





ArcGIS X Templates



- Agencies
 - help develop requirements
- Templates
 - General services finder (hIn1, libraries, council people, etc)
 - Polling Place, Elections Result
 - School finder and report card
 - Broadband (pay for)
 - Crime map
 - Event Calendar
 - Council feedback
 - Trees
 - 1 Other

Mobile

- DPW work tracking



OCTO Objectives

ELA or GSA Buys



- Agencies have as much ESRI software as they can put to practical use
- Collectively DC does not acquire more software than it needs or can afford to support
- No charge backs to agencies (if they can be avoided)
- Procurement process is simplified
- Additional products available
 - Demographic data (Census and licensed)
 - ArcLogistics
 - Better network routing data (limited to roads at this point)
- ESRI Enterprise Advantage Program
 - Easier access to technical support and training



Discussion



- Model city projects
- ELA