

2013 SCAUG Conference

Breaking Down Barriers for GIS Use –

**New and Innovative Tools for
Enterprise-Wide Enablement and Integration**

Table of Contents

1 Introduction

2 Understanding Organizational Barriers

Enterprise, Integrated, and Scalable Solutions for Your Organization

-
- Browser Based Applications – Vantage Points
 - Cloud Based Software – ArcGIS Online
 - Mobile Solutions
-

4 One-Stop Shop for Geographic Intelligence – Case Studies

5 Conclusion

- Key Success Factors
-

Table of Contents

1 Introduction

2 Understanding Organizational Barriers

Enterprise, Integrated, and Scalable Solutions for Your Organization

-
- Browser Based Applications – Vantage Points
 - Cloud Based Software – ArcGIS Online
 - Mobile Solutions
-

4 One-Stop Shop for Geographic Intelligence – Case Studies

5 Conclusion

- Key Success Factors
-

Introduction

Strategic Planning Clients

City of Dayton, Ohio; Population—141,527
County of Brant, Ontario CN ; Population—34,415
City of Hoover, AL; Population—81,619
City of Goose Creek, SC; Population—35,938
City of West Sacramento, CA; Population—48,744
City of Winston-Salem, NC; Population—229,617
Forsyth County, NC; Population—350,670
City of Virginia Beach, VA; Population—437,994
Campbell County, WY; Population—46,133
Town of Davie, FL; Population—91,922
Calvert County, MD; Population—88,737
Orange County, CA; Population—3,010,232
City of Casper, Wyoming; Population—55,316
City of Chesapeake, VA; Population—222,209
City of Gillette, Wyoming; Population—29,087
Yuma County, Arizona; Population— 77,515
City of Carlsbad, CA; Population—105,325
Campbell County, Wyoming; Population—46,133
Town of Windsor, CA; Population—26,801
City of Titusville, FL; Population—43,761
City of Salisbury, MD; Population—30,343
Wicomico County, MD; Population—98,733
City of Valdez, Alaska; Population—3,976
Town of Branford, Connecticut; Population— 5,819
City of Hagerstown, MD; Population—39,662
City of Blue Springs, MO; Population—52, 575
San Luis Obispo County, CA; Population—269,637
City of Boynton Beach, FL; Population—66,714
City of Unalaska, AK; Population—4,376
City of Fort Pierce, FL; Population—41,000
City of Goldsboro, NC; Population—37,597
City of Champaign, IL; Population—81,055
City of Midland, MI; Population—41,863
City of West University Place, TX; Population—14,211
City of Cocoa, FL; Population—17,140
City of La Porte, TX; Population—31,880



David Holdstock

Mr. David Holdstock has over twenty years of experience in the use and management of Geographic Information Systems (GIS) for state, federal, and local governments.

- Owner and CEO of Geographic Technologies Group (GTG)
- Twenty years of GIS experience
- Extensive experience in GIS for Public Works, Utilities and Engineering
- Worked on over 100 GIS Strategic Implementation Plans
- Former GIS Cost Center Manager for worlds leading Transportation Engineering Company – PPQD, NY
- Extensive publications and presentations on GIS for local government
- Certified GIS and GPS trainer
- Project Manager on eight GIS based Hazard Mitigation Plans

Table of Contents

1 Introduction

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-
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-

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Understanding Organizational Barriers

Organizational Barriers to An Enterprise-Wide GIS Deployment

What are the Barriers and what do you need to do?

- **STRATEGIC PLAN** - Develop GIS Strategic Plan
- **A VISION** - Create a vision for your Organization
- **GOALS AND OBJECTIVES** - Develop goals and objectives
- **RETURN ON INVESTMENT (ROI)** - Present the benefits and costs of GIS
- **MEASURABLE RESULTS** - Show measurable and attainable successes
- **BUY-IN** - Secure buy-in from officials and management
- **FUNDING** - Identify funding and investment strategies
- **GOVERNANCE** - Improve the management, coordination and governance of your GIS
- **INVESTMENT** - Make better GIS investment decisions
- **INTEGRATION** - Optimize and maximize the use of GIS
- **DATA ACCURACY** - eliminate data inaccuracies, redundancies, and duplication
- **EDUCATION** - Educate and inform your organization
- **MANAGEMENT TECHNIQUES** - Remove all obstacles to success
- **COMPLICATED** - Make GIS easy to use and indispensable
- **UNSTRUCTURED** - Develop Data Standards and protocols
- **Enterprise, Integrated, and Scalable Solutions for Your Organization**

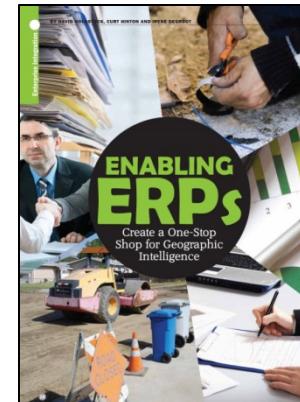
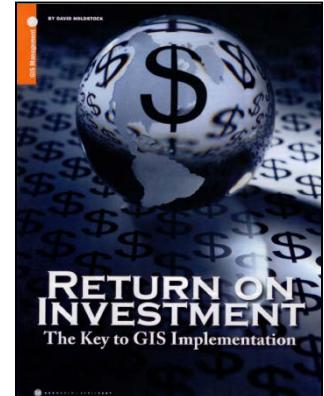


Table of Contents

1 Introduction

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Enterprise, Integrated, and Scalable Solutions for Your Organization

-
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 - Cloud Based Software – ArcGIS Online
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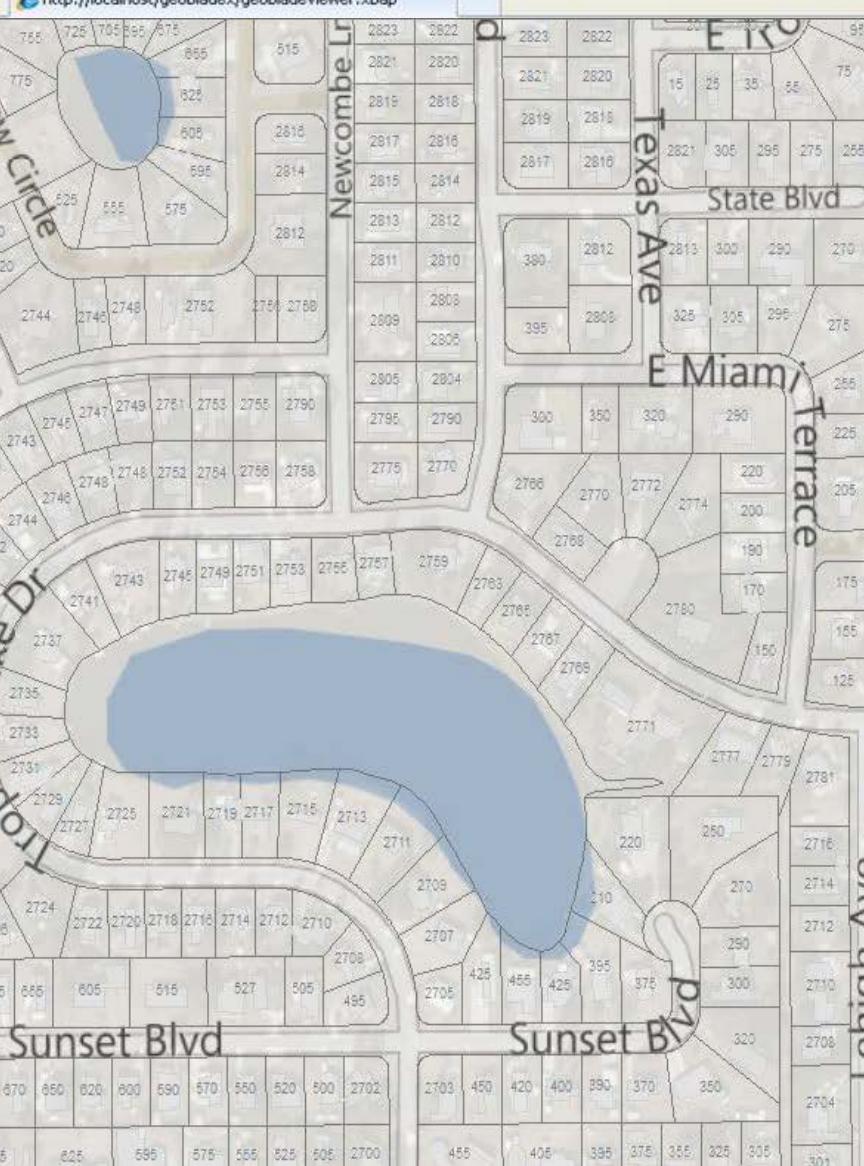
Enterprise Integrated and Scalable Solutions for Your Organization

Browser Based Applications – Vantage Points



Map Tips and Transparency Tools

1



Map Tips & Transparency Tools

Active Tool: Map Tips

Owner	EVERETT HARRY M
Use Description	RESTAURANT
Subdivision	
Street Number	2754
Street	ORANGE BLOSSOM
Value	
Associated Work Orders	WF0001112; WF0001049; WF0001304; WF0001042; WF0001303; WF0001046
Associated Work Order Description	CLEN; TRAF; BUIL; SEWR
Associated Work Order Remarks	Polish Floors; Street light out, pole #113, corner of 25th & CHAT: bats in the bellfry; A/C - Filter Change; sewer break
Associated Code Enf. Violations	WEED; ABVH; ILCV
Associated Code Enf. Name	
Congress Member	Ric Keller
Congressional District ID	1208
Flood Zone	X
Flood Zone In/Out Status	OUT
Flood Zone Risk	Not Flood Zone
Area Code	321-407

Heat Maps

2

File Edit View Go To Favorites Help

SnagIt

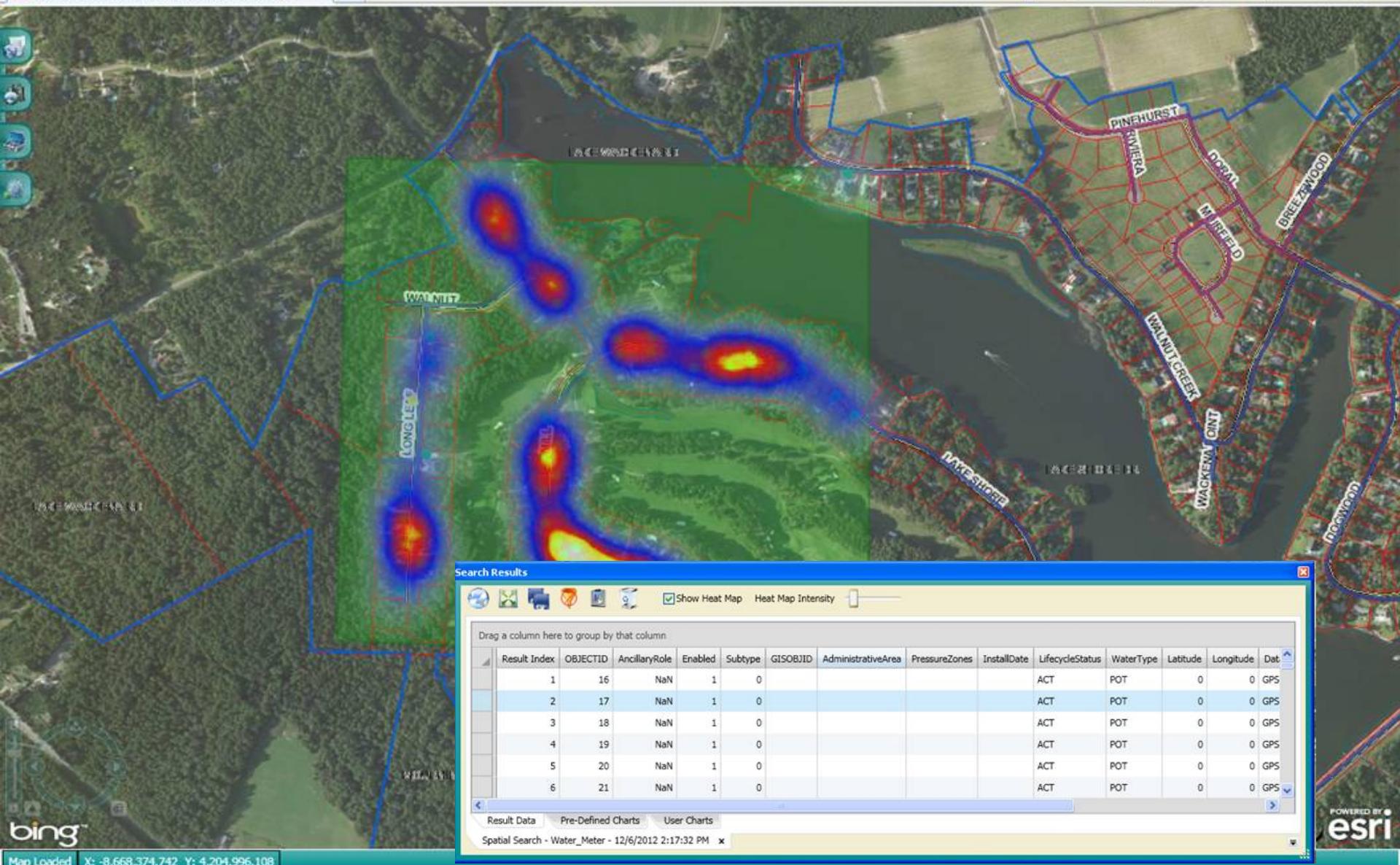
Favorites

Suggested Sites Web Slice Gallery

http://localhost/geoblade/geobladeviewer.xbap

Page Safety Tools ?

Heat Maps



Executive Dashboard and Executive Summary Configuration (on-the-fly)

3



Executive Dashboard and Executive Summary Configuration (on-the-fly)



Multi-Criteria Search Capability

4

Multi-Layer Search

http://localhost/geoblade/geobladeviewer.xap - Windows Internet Explorer

File Edit View Go To Favorites Help

Spatial Searches Defined Searches Map Tips Find Locations Show Search Results

Select Search Layer: System Valve

Select Buffer Distance: 50 Feet

Search by Point Click
Search by Line
Search by Freehand Line
Search by Rectangle
Search by Polygon

Search by Result Set: Spatial Search - Hydrant - 12/6/2012 3:32:22 PM

Run Result Search

Search Results

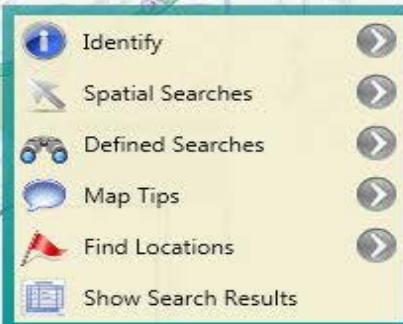
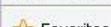
Show Heat Map Heat Map Intensity

Result Index	OBJECTID	AncillaryRole	Enabled	Subtype	GISOBJID	AdministrativeArea	PressureZones	InstallDate	LifecycleStatus	WaterType	Latitude	Longitude	Date
1	40	NaN	1	4					ACT	POT	NaN	NaN	WC_
2	41	NaN	1	4					ACT	POT	NaN	NaN	WC_
3	42	NaN	1	4					ACT	POT	NaN	NaN	WC_
4	89	NaN	1	4					ACT	POT	NaN	NaN	WC_
5	90	NaN	1	4					ACT	POT	NaN	NaN	WC_
6	93	NaN	1	4					ACT	POT	NaN	NaN	WC_

Result Data Pre-Defined Charts User Charts

Spatial Search - Hydrant - 12/6/2012 3:32:22 PM x Spatial Search - System Valve - 12/6/2012 3:33:18 PM x

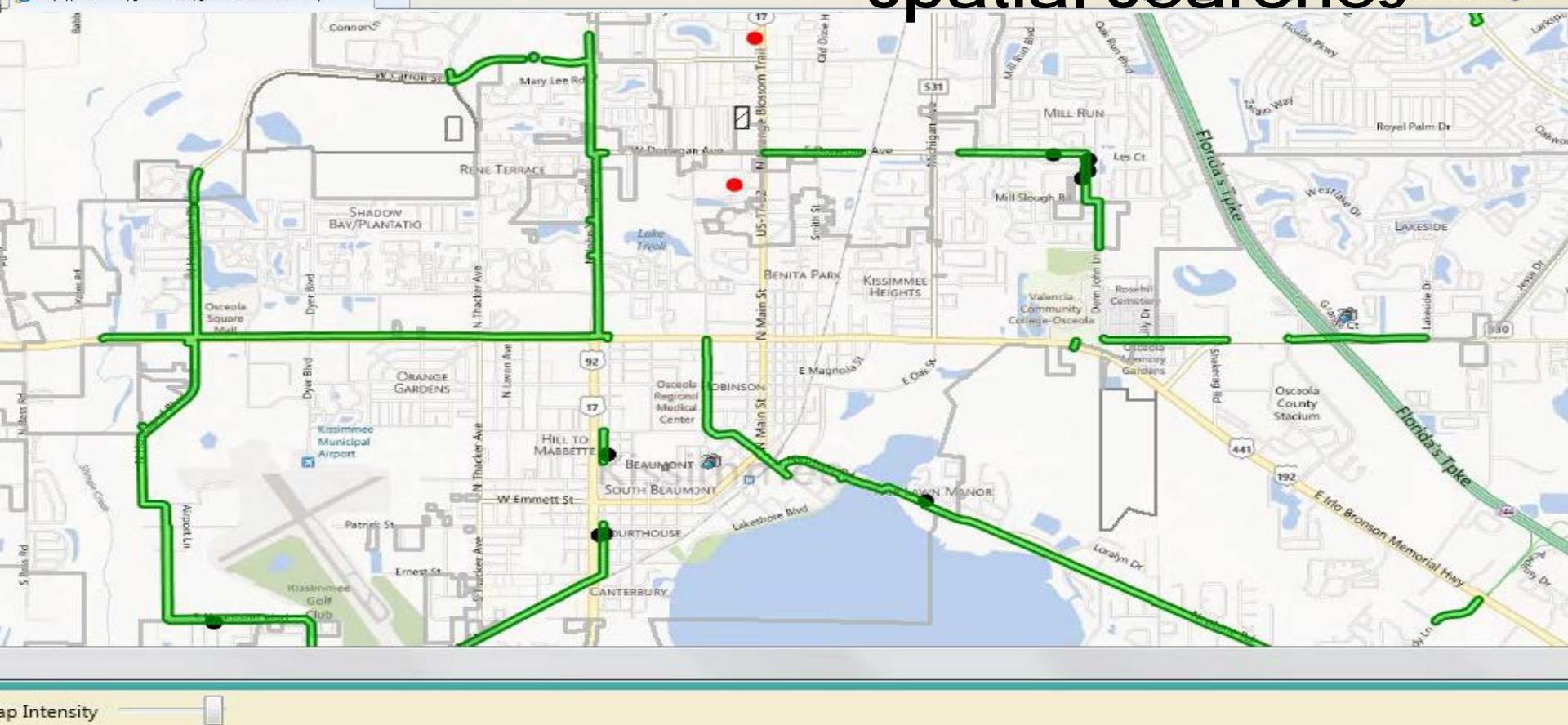
Map Loaded X: -8,668,746.893 Y: 4,206,101.638



Attributes and Spatial Searches

- Search for Code Enforcement Violations by Type and Officer
- Search for Code Enforcement Violations by ID
- Search for Building Permits by Permit Type
- Search for Building Permits by Amount Greater Than X
- Find Code Enforcement Locations in City Limits
- Search for Building Permits by City Limits
- Search for Utility Accounts in a Subdivision
- Search for Subdivision for Utility Accounts, Waterlines, and Owner
- Search for Work Orders and Utility Accounts Along a Waterline
- Find Sex Offenders 1/2 Mile from Area Schools
- Search Addresses in a Flood Zone
- Search for Roads with MicroPaver Photos by Road Name
- Search for Waterlines by Size and Material and Associated Work Orders
- Search for Code Enforcement Violations by District for City Clean-Up Project
- Search for Addresses in a Garbage Pickup Zone for Notifications
- Search for Addresses and Crimes by User Defined Line
- Search for Addresses 500' from a Parcel for Zoning Notifications

Attributes and Spatial Searches



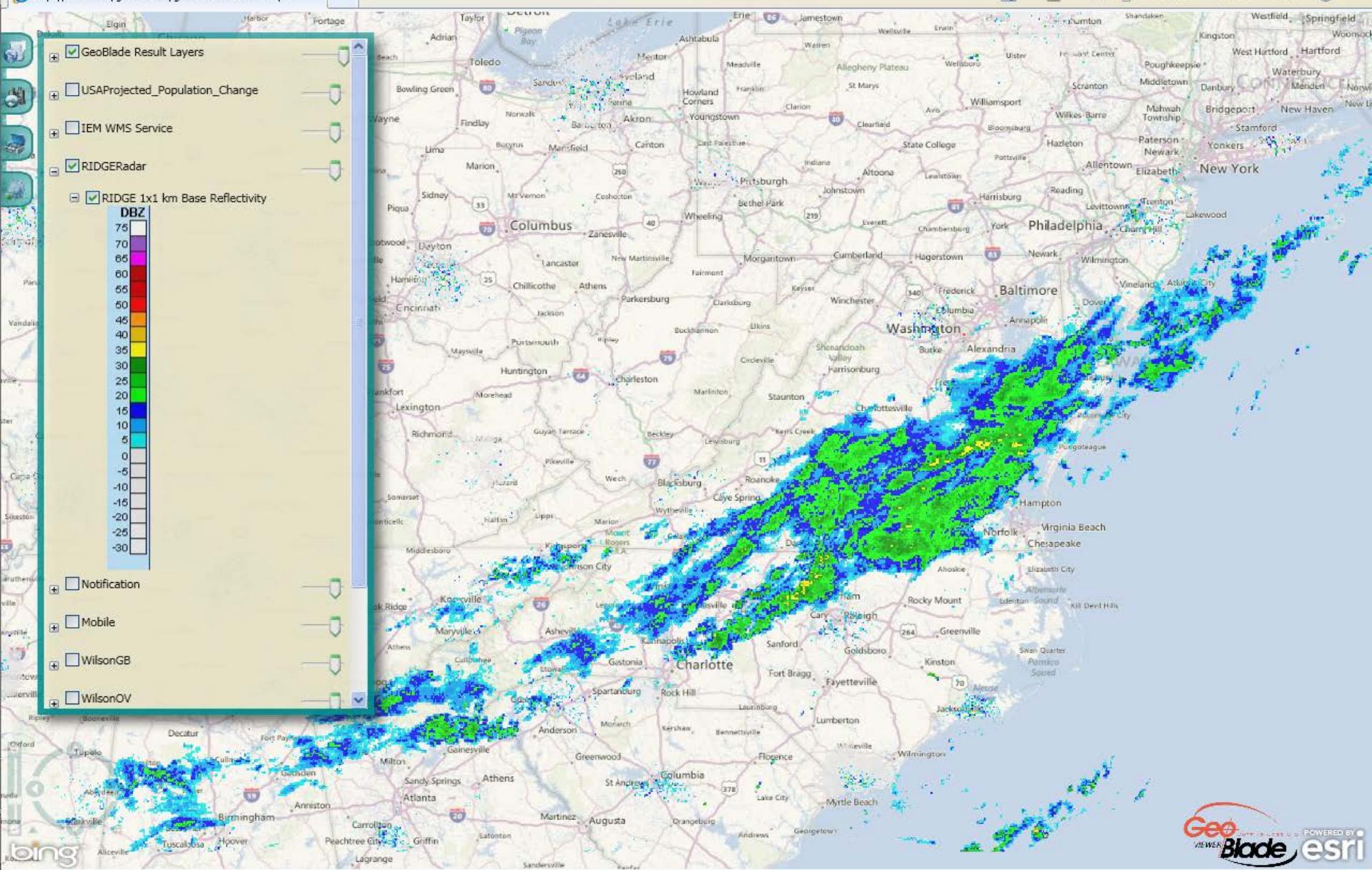
WK_STATUS	WO_CODE	ABAMNB	ABATCD	WO_CDE	ABA7NB	LOC_AREA	DESC	REMARKS	DATE	ABAACD	PERSON2
SC		251			156950		MS	Final Read	950718	CCP	MUNDEN, KATHERINE
SC		251			156950		MS	Customer Investigation	950718	CCP	MUNDEN, KATHERINE
SC		155			156950		MS	TESTING OF NEW OCCUPANT	950718	CCP	WIEBELT, BERTHA
SC		241			156980		MS	Final Read	950717	CCP	MASTERS CONDO ASSOCIATION
RTN		241			156980		GP	Stop Service	950717	CCP	MASTERS CONDO ASSOCIATION

Vantage Points – Dynamic Visualization

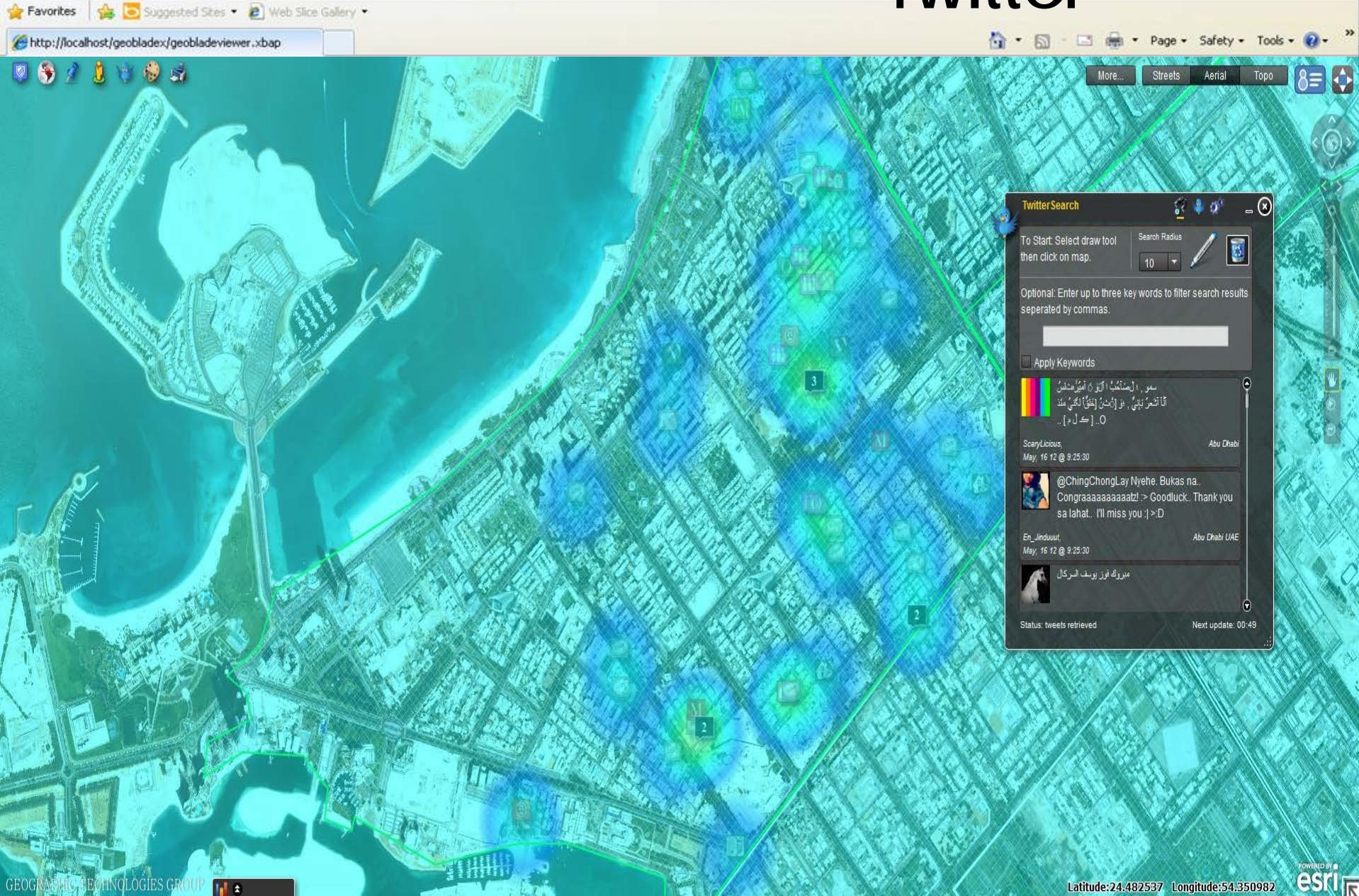
of data feeds from external sources

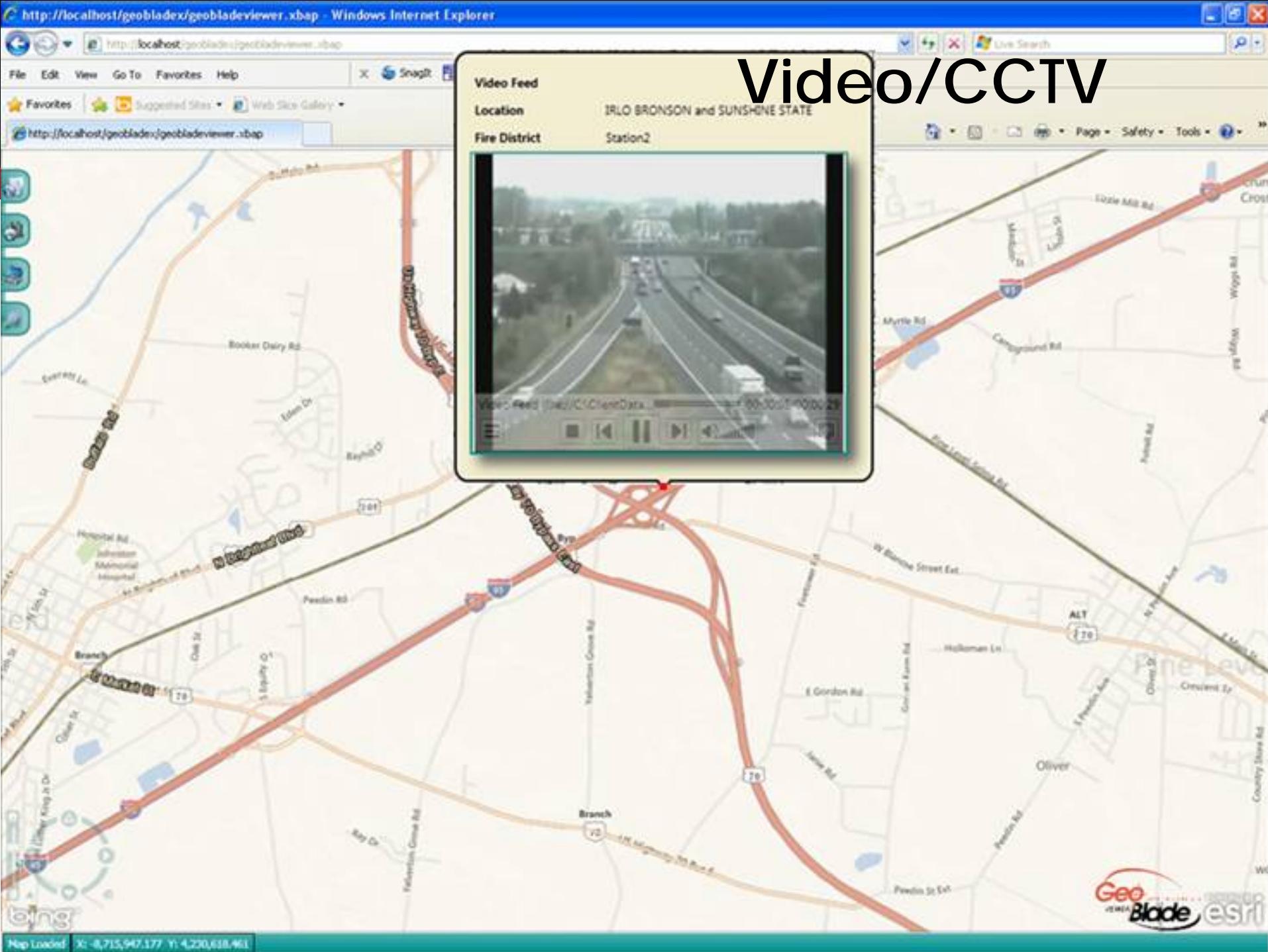
5

Weather



Twitter





Video/CCTV

Video Feed

Location

IRLO BRONSON and SUNSHINE STATE

Fire District

Station2

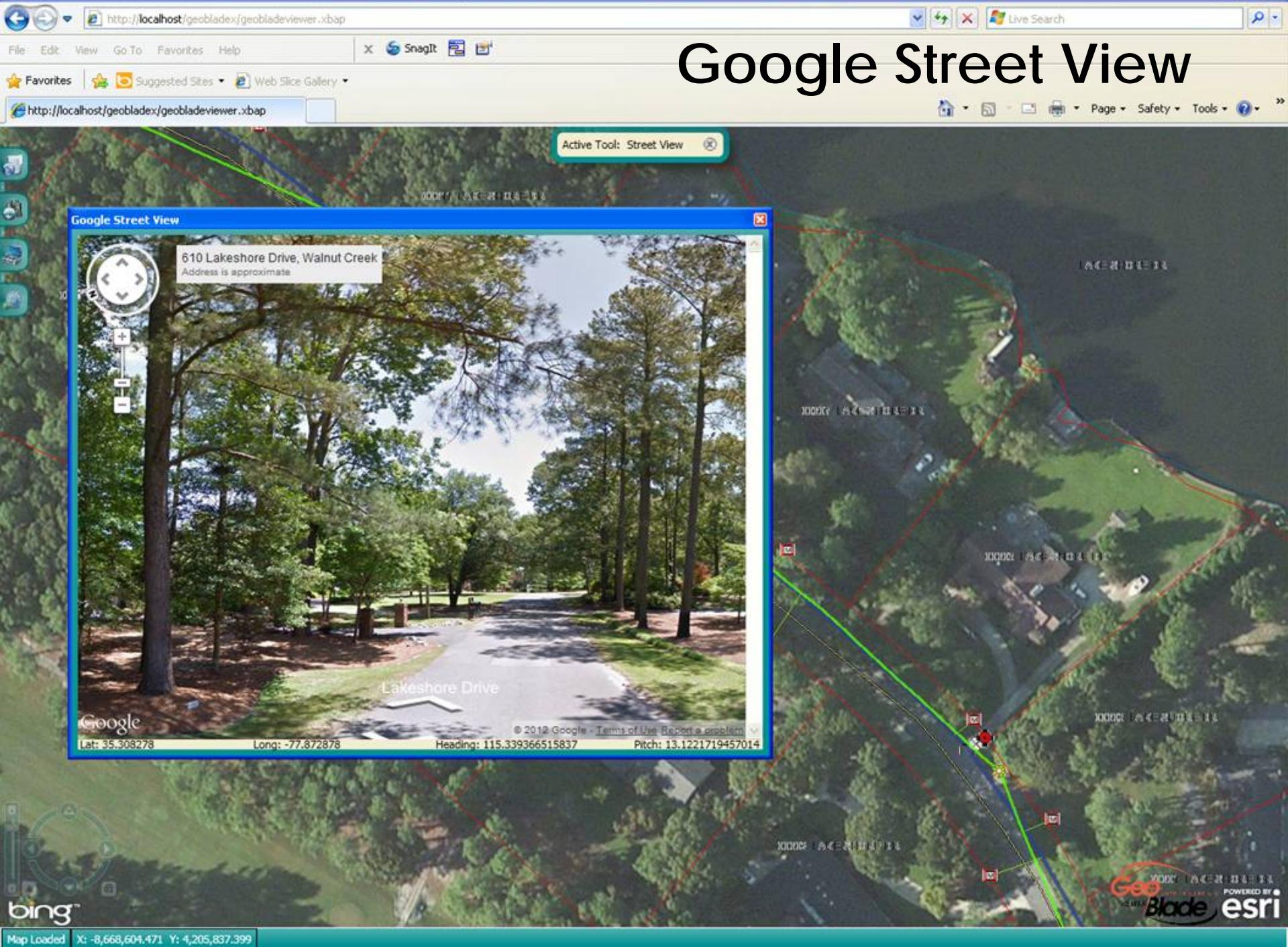


Geo
Blade

VIEWER

EDITOR

esri



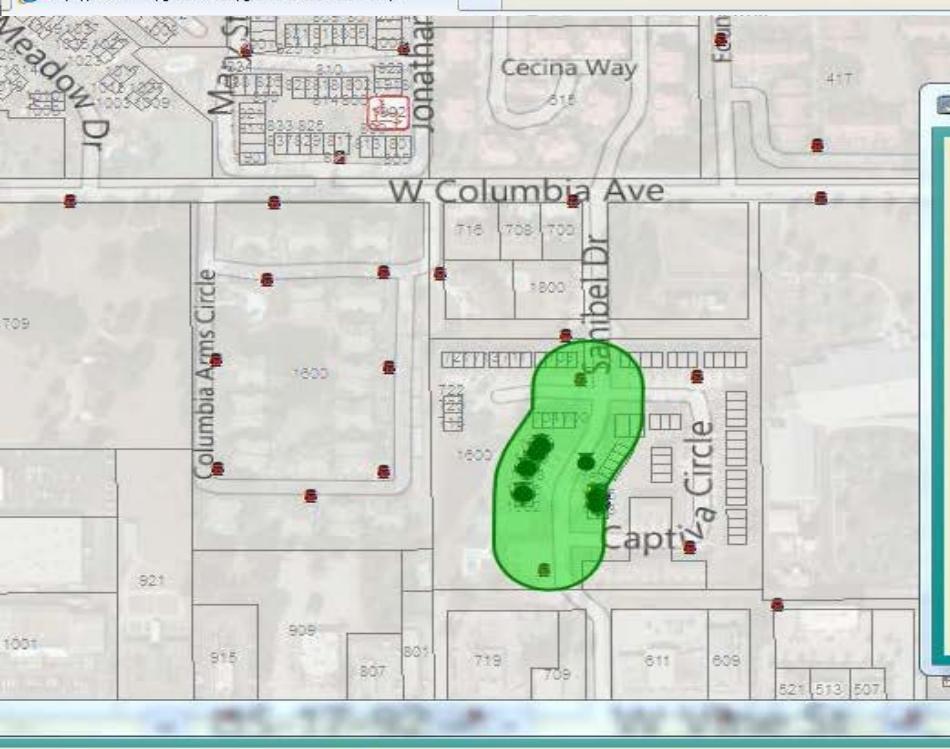
Advanced Reporting

6

File Edit View Go To Favorites Help

Favorites Suggested Sites Web Slice Gallery

http://localhost/geoblade/geobladeviewer.xbap



Reporting

Reports

Select a report to run:

Work Order Report

Work Order Report



City of Kissimmee, FL
101 North Church St.
Kissimmee, FL 34741

WORK ORDER NUMBER	REMARKS	TYPE	STATUS	CATEGORY
WF0000694	Meter Set	UT	QAED	ELEC
WF0001241	Deliver Bin	UT	QHTE	GA
WF0000813	Deliver Bin	UT	QLCL	GA
WT0000812	Meter Set	UT	QLCL	MTSH
WT0000910	Final Read	UT	QLCL	MTSH
WF0000814	Meter Set	UT	QLCL	MTSH
WF0000939	Billing Recheck	UT	QLCL	MTSH
WF0000908	Final Read	UT	QLCL	MTSH
WF0000819	Deliver Bin	UT	QLCL	GA
WF0000820	Meter Set	UT	QLCL	MTSH
WF0000818	Meter Set	UT	QLCL	MTSH
WF0000825	Deliver Bin	UT	QLCL	GA

12/5/2012 8:22:54 AM

Page 1 of 2

ABC9NB	ABDANB	WK_STATUS	WO_CODE	ABAMNB	ABATCD	WO_CDE	ABA7NB	LOC_AREA	DESC	REMARKS	DATE	ABAACD	PERSON2	ABAECID	ABACCD
0	0	SC		574			500501		MS	Meter Set	950121	CTCP	Cecily Robie	CS	MD
0	0	RTN		135			99900001		GP	Deliver Bin	950825	CCP	JOHNSON, CHARLES T	MD	0
0	0	RTN		652			500697	DIST1	GP	Deliver Bin	950309	CCP	LINDGREN, CARL	MD	0
0	0	RTN		652			500697	DIST1	MS	Meter Set	950309	CCP	LINDGREN, CARL	MD	0
0	0	RTN		652			500697	DIST1	MS	Final Read	950313	CCP	LINDGREN, CARL	MD	0
0	0	RTN		652			500697	DIST1	MS	Meter Set	950309	CCP	LINDGREN, CARL	MD	0

Charts

Along a Waterline - Work Order Locations - 12/5/2012 8:26:23 AM

Search for Work Orders and Utility Accounts Along a Waterline - Utility Locations - 12/5/2012 8:26:23 AM

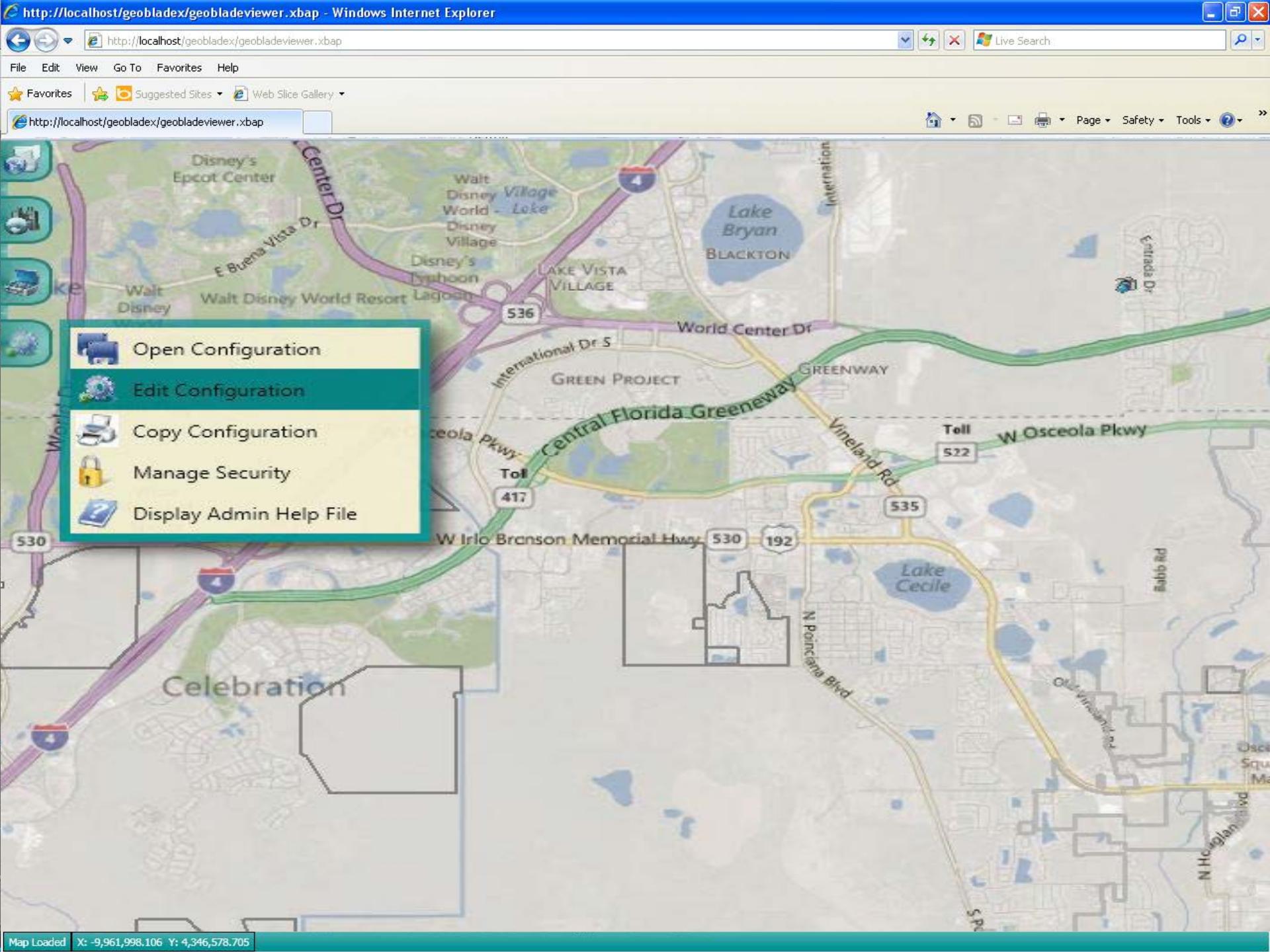
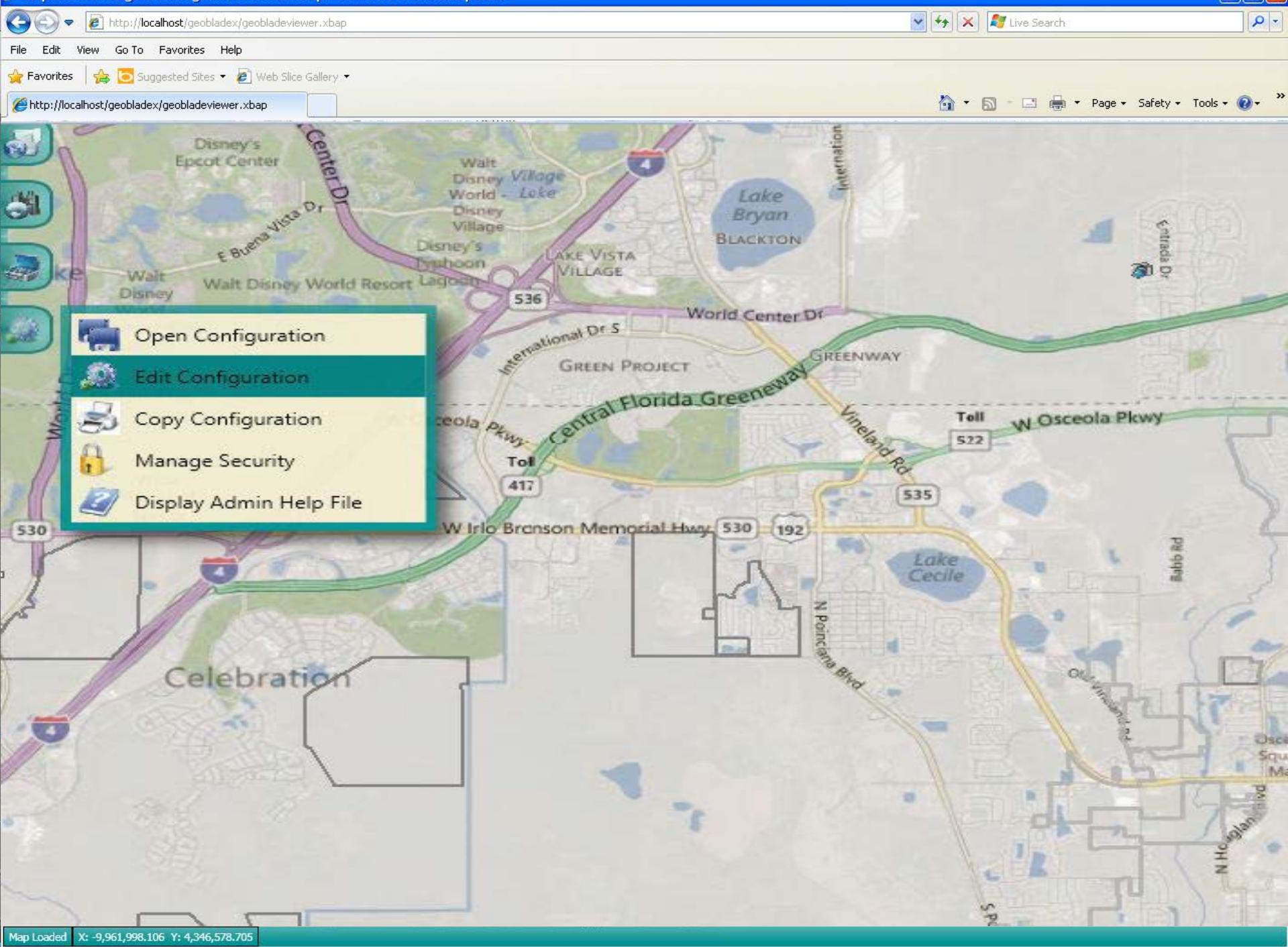
User Defined Tools



Vantage Points - Configuration

Administrative Toolkit for integration,
customization, and configuration

7



http://localhost/geoblade/geobladeviewer.xbap - Windows Internet Explorer

File Edit View Go To Favorites Help

Favorites Suggested Sites Web Slice Gallery

http://localhost/geoblade/geobladeviewer.xbap

Map Configuration Admin

Initial Extent: 3295665 Set to Current View

-9081414 -9040527

3277947

Search Result Color (All): Point/Line Fill

Search Result Color (Selected):

Services:

Service Name	URL	Type	Opacity
IEM WMS Service	http://mesonet.agron.iastate.edu/cgi-bin/wms/nexrad/n0r.cgi	WMS	20
LinkData2	http://SalesServer-1/arcgis/rest/services/Kissimmee/LinkData2/M	AGS_Dynam	20
Kissimmee_DemoWPF2	http://SalesServer-1/arcgis/rest/services/Kissimmee/Kissimmee_C	AGS_Dynam	20
Kissimmee_DemoWPF_PS	http://SalesServer-1/arcgis/rest/services/Kissimmee/Kissimmee_C	AGS_Dynam	20

Add Service Edit Service Remove Service Move Up Move Down

General Settings Searches Map Tips Location Tools Charts Reports

Publish Publish and Close Close

Lake Buena Vista
Lake Bryan
BLACKTON
LAKE VISTA VILLAGE
World Center
GREEN PROJECT
Central Florida Greenway
Memorial Hwy 530
International Dr
US 17
Toll 417
Central Florida Greenway
Town Center Blvd
Town Trail S
Landslide Rd
527
Toll 417
192
441
County Stadium
Kissimmee
N Holland Ave
N Thacker Ave
CANTERBURY
Map Loaded X: -9,961,998.106 Y: 4,346,578.705

http://localhost/geoblade/geobladeviewer.xbap - Windows Internet Explorer

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Favorites Suggested Sites Web Slice Gallery

http://localhost/geoblade/geobladeviewer.xbap

Map Configuration Admin

Initial Extent: 3295665 Set to Current View
-9081414 -9040527 3277947

Search Result Color (All): Point Line Fill
Search Result Color (Selected):

Services:

Service Name	URL	Type	Opacity
IEM WMS Service	http://mesonet.agron.iastate.edu/cgi-bin/wms/nexrad/n0r.cgi	WMS	20
LinkData2	http://SalesServer-1/arcgis/rest/services/Kissimmee/LinkData2/M	AGS_Dynamic	20
Kissimmee_DemoWPF2	http://SalesServer-1/arcgis/rest/services/Kissimmee/Kissimmee_C	AGS_Dynamic	20
Kissimmee_DemoWPF_PS	http://SalesServer-1/arcgis/rest/services/Kissimmee/Kissimmee_C	AGS_Dynamic	20

Add Service Edit Service Remove Service Move Up Move Down

General Settings Searches Map Tips Location Tools Charts Reports

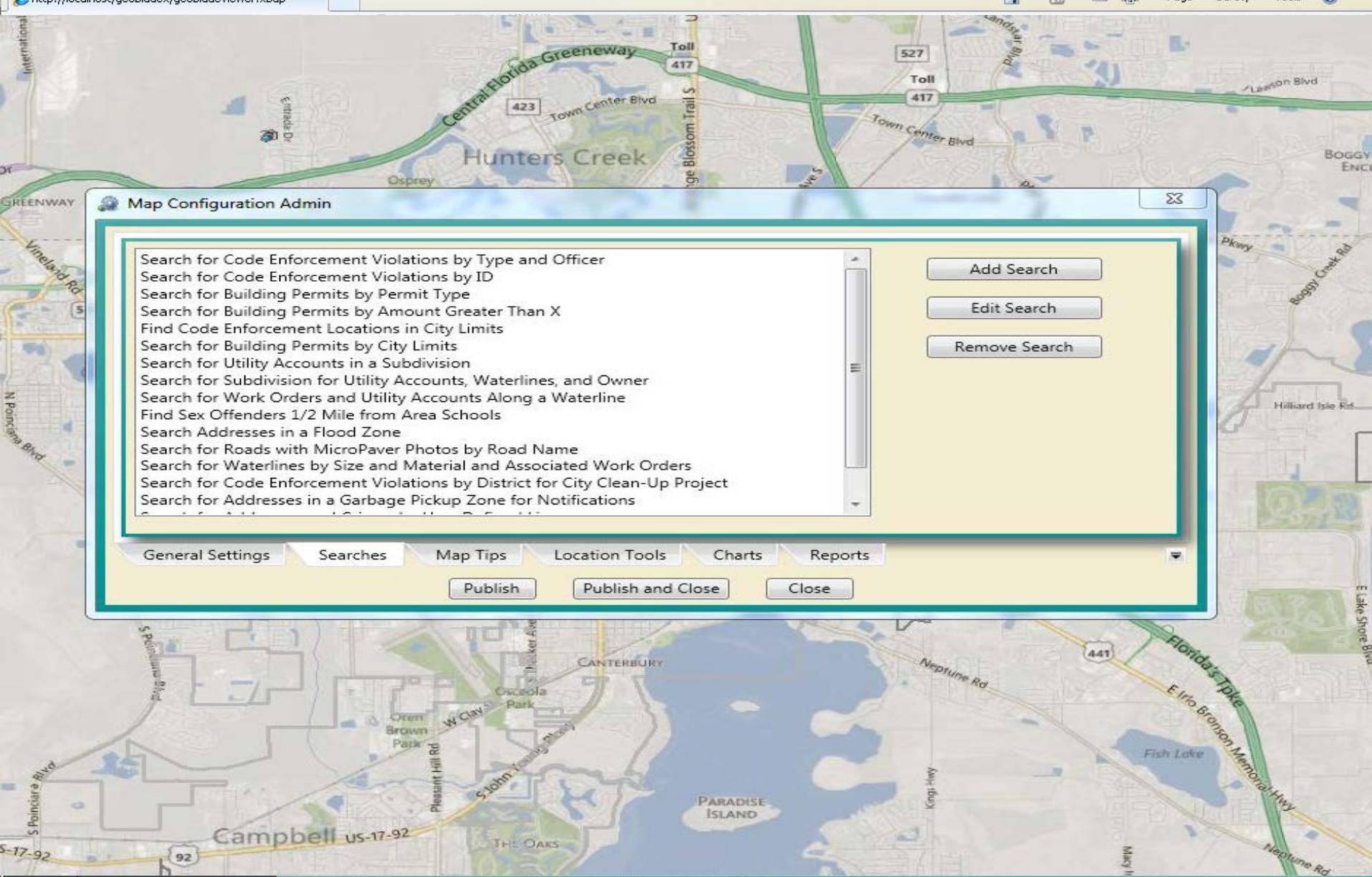
Publish Publish and Close Close

Add Service

Bing Streets
Bing Aerials
Bing Hybrid
WMS Service
ArcGIS Online Service
ArcGIS Server Service

Select Service Save Cancel

Central Florida Greenway
Town Center Blvd
Toll 417
Town Center Blvd
Lakewood Blvd
Central Florida Greenway
Lake Nona South
Kissimmee
CANTERBURY
Neptune Rd
Stadium
192
441
Florida's Turnpike
E. Info. Bronson M
Lake Shore Blvd
Oren Brown Park
W. Clay Rd
Osceola Park
Osceola Square Mall
N. Holland Blvd
N. Thacker Ave
17
CANTERBURY
Map Loaded X: -9,961,998.106 Y: 4,346,578.705



http://localhost/geoblade/geobladeviewer.xbap - Windows Internet Explorer

File Edit View Go To Favorites Help

Favorites Suggested Sites Web Slice Gallery

http://localhost/geoblade/geobladeviewer.xbap

Live Search

Map Configuration Admin

Add Search Edit Search Remove Search

Search for Building Permits by Permit Type
Search for Building Permits by Amount Greater Than X
Find Code Enforcement Locations in City Limits
Search for Building Permits by City Limits
Search for Utility Accounts in a Subdivision
Search for Subdivision for Utility Accounts, Waterlines, and Owner
Search for Work Orders and Utility Accounts Along a Waterline
Find Sex Offenders 1/2 Mile from Area Schools
Search Addresses in a Flood Zone
Search for Roads with MicroPaver Photos by Road Name
Search for Waterlines by Size and Material and Associated Work Orders
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Search for Addresses in a Garbage Pickup Zone for Notifications
Search for Addresses and Crimes by User Defined Line
Search for Addresses 500' from a Parcel for Zoning Notifications

General Settings Searches Map Tips Location Tools Charts Reports

Published Publish and Close Close

Search Properties

Search Name: Search for Waterlines by Size and Material and Associated Work Orders

User Geometry Type: None

User Geometry Instructions:

Search Steps:
Step 1: Waterpipes (attribute filter)
Step 2: Work Order Locations (spatial filter on prior step results)

Add Step Edit Step Remove Step

Save Cancel

Map Loaded X: -9,961,998.106 Y: 4,346,578.705

File Edit View Go To Favorites Help

Favorites Suggested Sites Web Slice Gallery

http://localhost/geoblade/geobladeviewer.xbap

Map Tip Properties

Map Tip Name: Parcel Information

Map Tip Lines:

- Owner
- Use Description
- Subdivision
- Street Number
- Street
- Value
- Associated Work Orders
- Associated Work Order Description
- Associated Work Order Remarks
- Associated Code Enf. Violations
- Associated Code Enf. Name
- Congress Member

Add Line Edit Line Remove Line

Save Cancel

Map Configuration Admin

Parcel Information
Parcel Links- All
Firehouse Data
Utilities Information
Code Enforcement Information
Parcel Variance Map
Micropaver Photos
Building Permit Information
Work Order Information
Hwy 5 Video Link
Parcel- 3D Information

Add MapTip Edit MapTip Remove MapTip

General Settings Searches Map Tips Location Tools Charts Reports

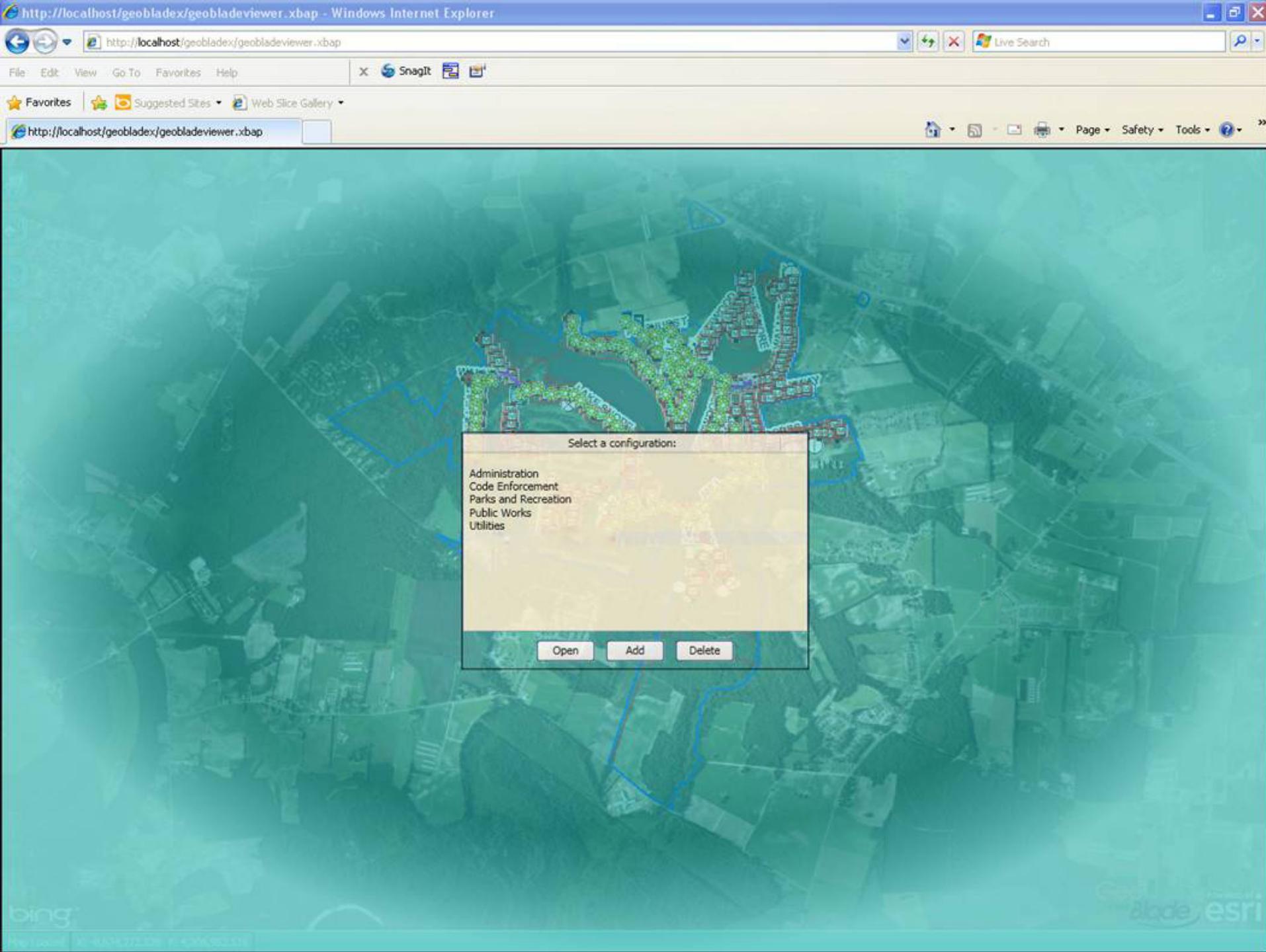
Publish Publish and Close Close

Map Loaded X: -9,961,998.106 Y: 4,346,578.705

Vantage Points – Tailoring

Configuration for Users and Departments
with task specific needs

8



Vantage Points - SAF

Security Access Functionality

9



Select a configuration:

Administration

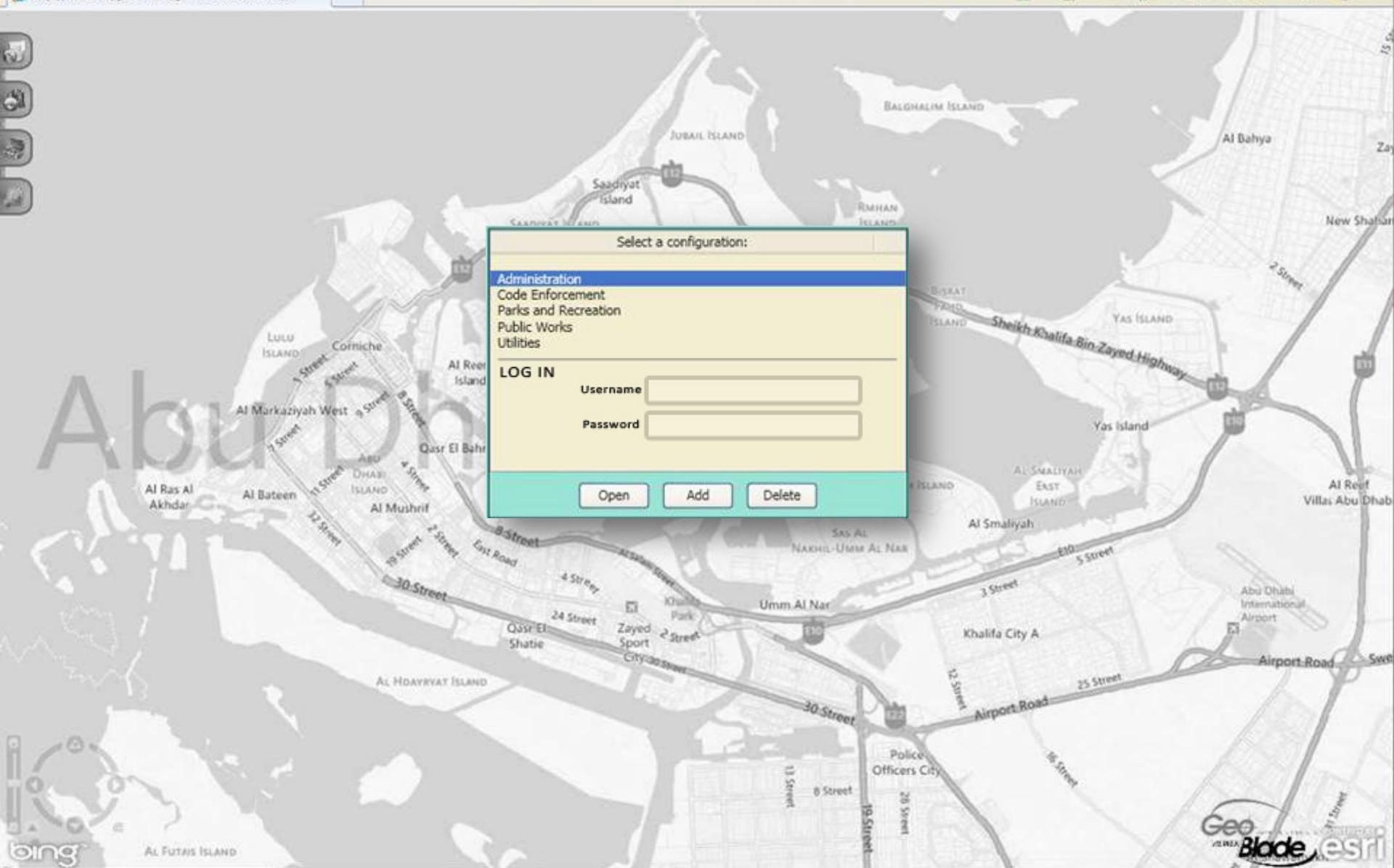
- Code Enforcement
- Parks and Recreation
- Public Works
- Utilities

LOG IN

Username

Password

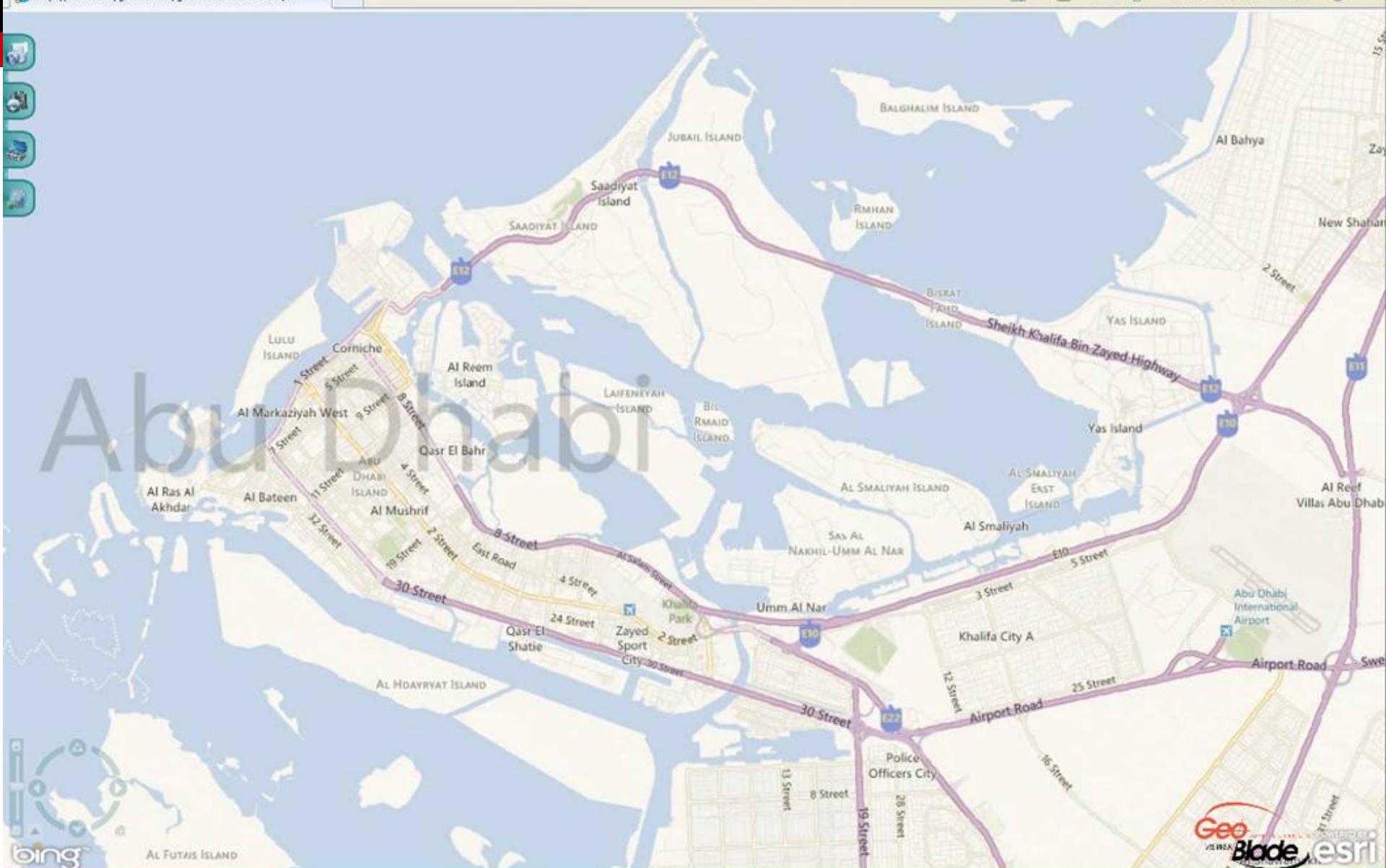
Open Add Delete



Multiple Base-Map Options

10

Multiple Base-map Options





http://localhost/geoblade/geobladeviewer.xbap

File Edit View Go To Favorites Help

X SnagIt

Favorites

Suggested Sites Web Slice Gallery

http://localhost/geoblade/geobladeviewer.xbap

Multiple Base-map Options



Geoblade
POWERED BY
esri

bing

Map Loaded X: 6,087,160.703 Y: 2,815,521.942

Table of Contents

1 Introduction

2 Understanding Organizational Barriers

Enterprise, Integrated, and Scalable Solutions for Your Organization

-
- ## 3
- Browser Based Applications – Vantage Points
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 - Mobile Solutions
-

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Enterprise Integrated and Scalable Solutions for Your Organization

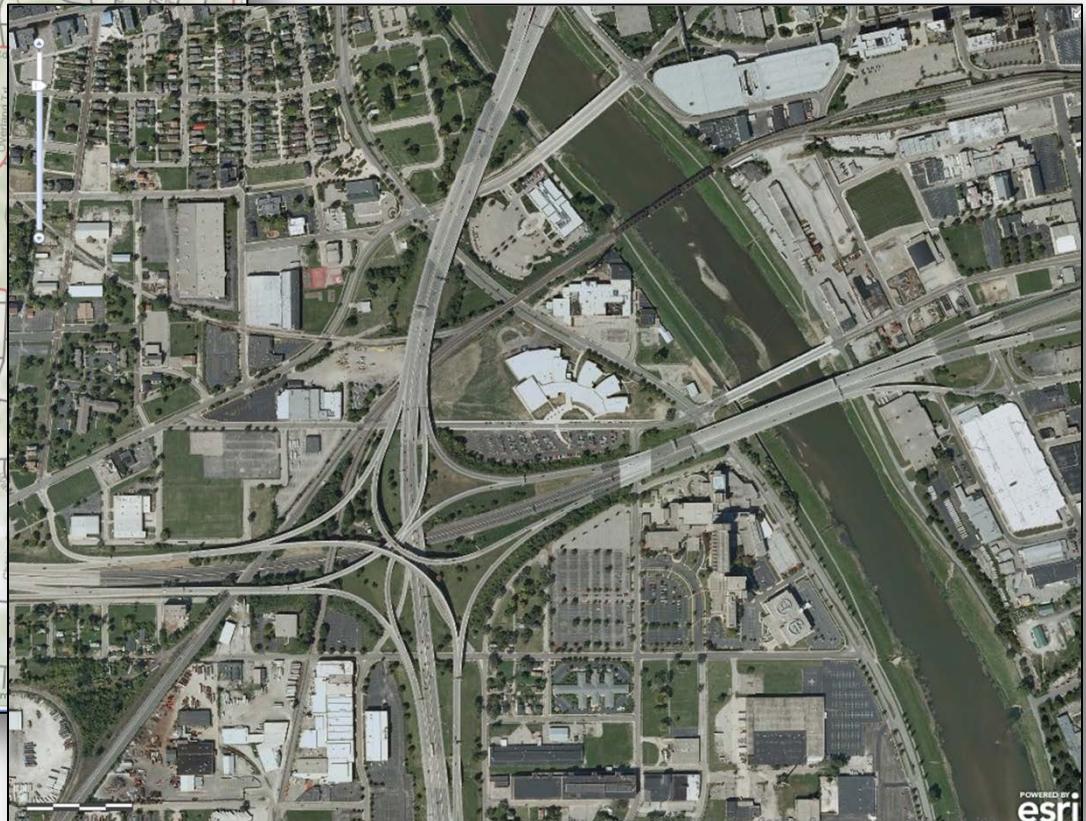
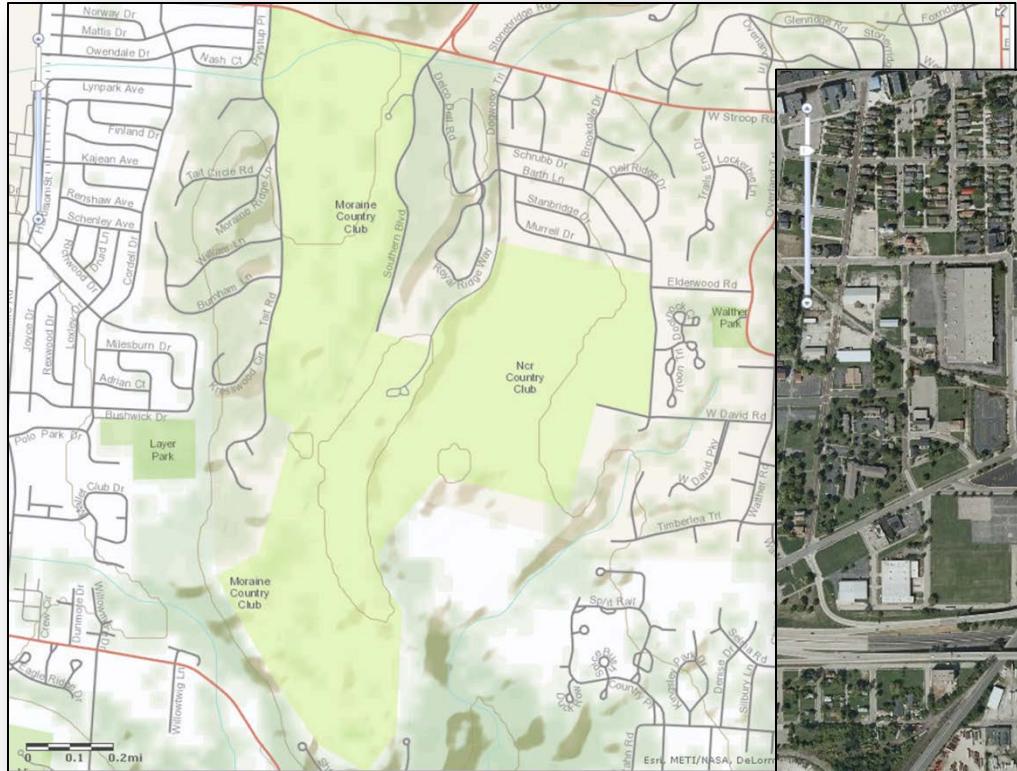
Cloud Based Software – ArcGIS Online

The screenshot displays three main sections of the ArcGIS Online interface:

- Home:** Shows the "The Mapping Platform for Your Organization" landing page with a "30-DAY FREE TRIAL" button and a preview of various map and app interfaces.
- Gallery:** Shows a grid of maps and apps, including "Casselberry FL," "Utilities Water System," "Parks and Recreation," "Building and Code Enforcement," "Utilities Water System 2," "Utilities Sewer System," "Environmental Health," and "Utilities Electric."
- Groups:** Shows the "My Groups" page where the user is a member of four groups: "Damage Assessment," "Parks and Recreation," "Public Works," and "Wayne County, NC."

Enterprise Integrated and Scalable Solutions for Your Organization

Cloud Based Software – ArcGIS Online



Enterprise Integrated and Scalable Solutions for Your Organization

Cloud Based Software – ArcGIS Online

The image displays two screenshots of ArcGIS Online applications. The left screenshot shows a search interface for industrial land in Savannah, Georgia. The interface includes a search bar, filters for Industrial, Office, and Land, and a detailed search form for Size & Access Requirements, Maximum Distance To, and Property Information. The map shows major roads like I-95, I-16, and I-17, along with the Savannah River and various neighborhoods. The right screenshot shows a map titled "All Permits" with a legend for different permit types: Building Permits (blue), Non-Permits (green), Building Inspections (orange), MPO permits (red), Medical Permits (purple), Mechanical Permits (black), and SEPA Permits (grey). The map shows a dense distribution of these permits across a city area.

Enterprise Integrated and Scalable Solutions for Your Organization

Cloud Based Software – ArcGIS Online

Tax Increment Financing Districts

BURLINVILLE

Legend

- TIF_Districts
 - Central Business District
 - Vista Street
 - West End
- Greenville Base Layers
 - Buildings
 - Property Boundaries
 - Greenville City Limits

Burlington Parks and Rec Map PM_ON

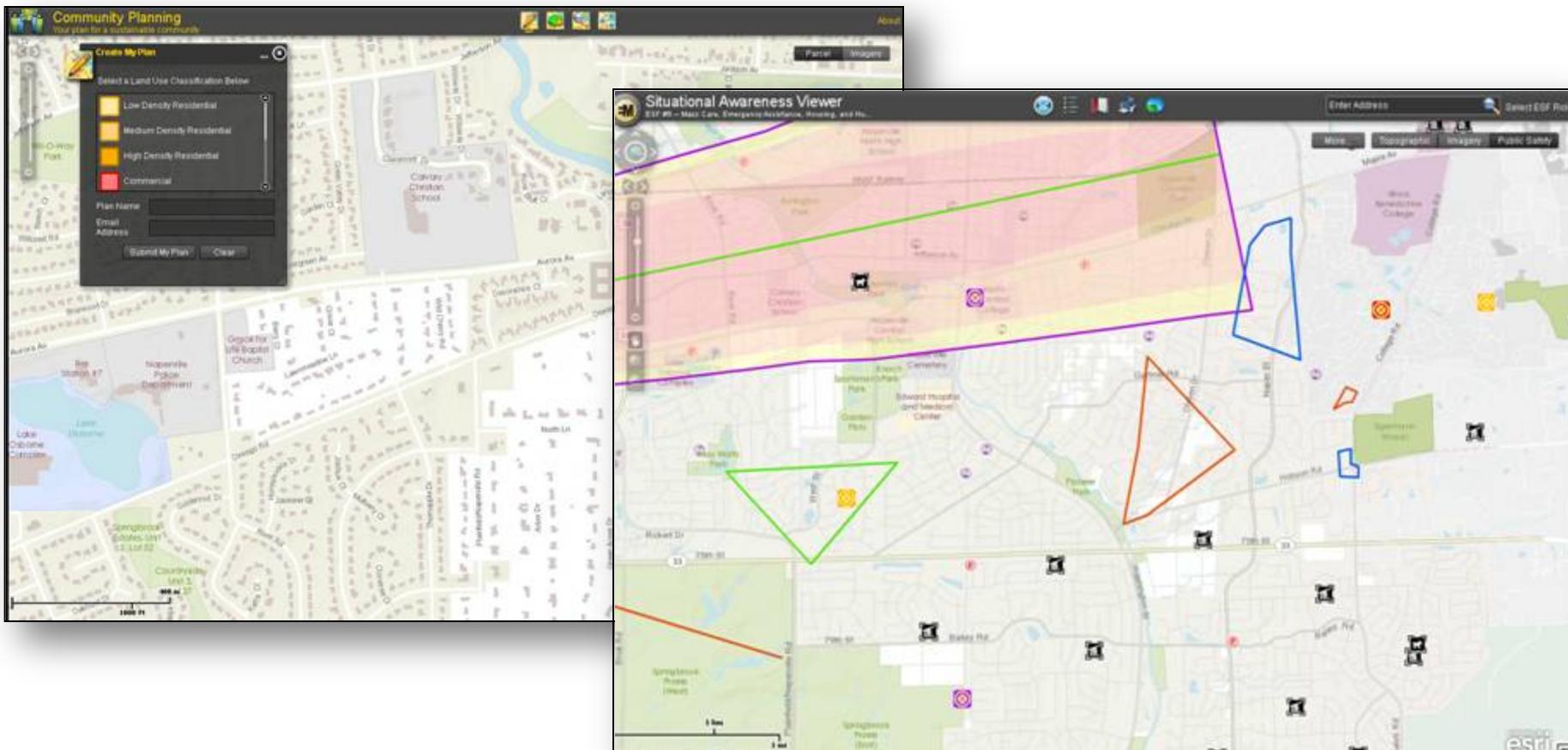
Parks

Location Name	Address	Ward	Classification	Latitude	Parking (Y/N)	Washrooms (Y/N)	Playground (Y/N)	URL	Image
Driftwood Park	3123 Driftwood Drive	3	Neighbourhood	-79.84	N	N	Y	More info	More info

Map data © OpenStreetMap contributors. Esri

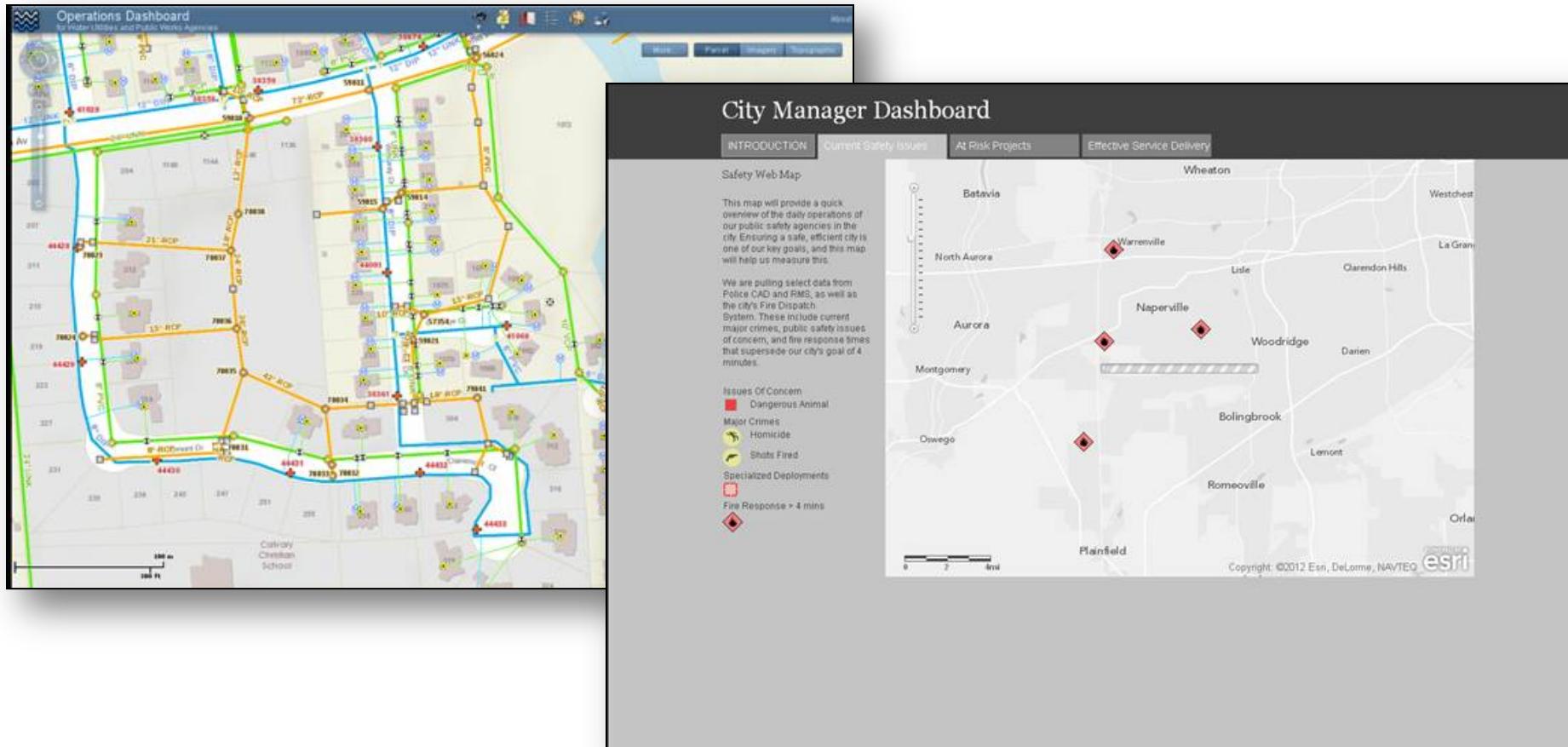
Enterprise Integrated and Scalable Solutions for Your Organization

Cloud Based Software – ArcGIS Online



Enterprise Integrated and Scalable Solutions for Your Organization

Cloud Based Software - ArcGIS Online



ArcGIS Online Solutions

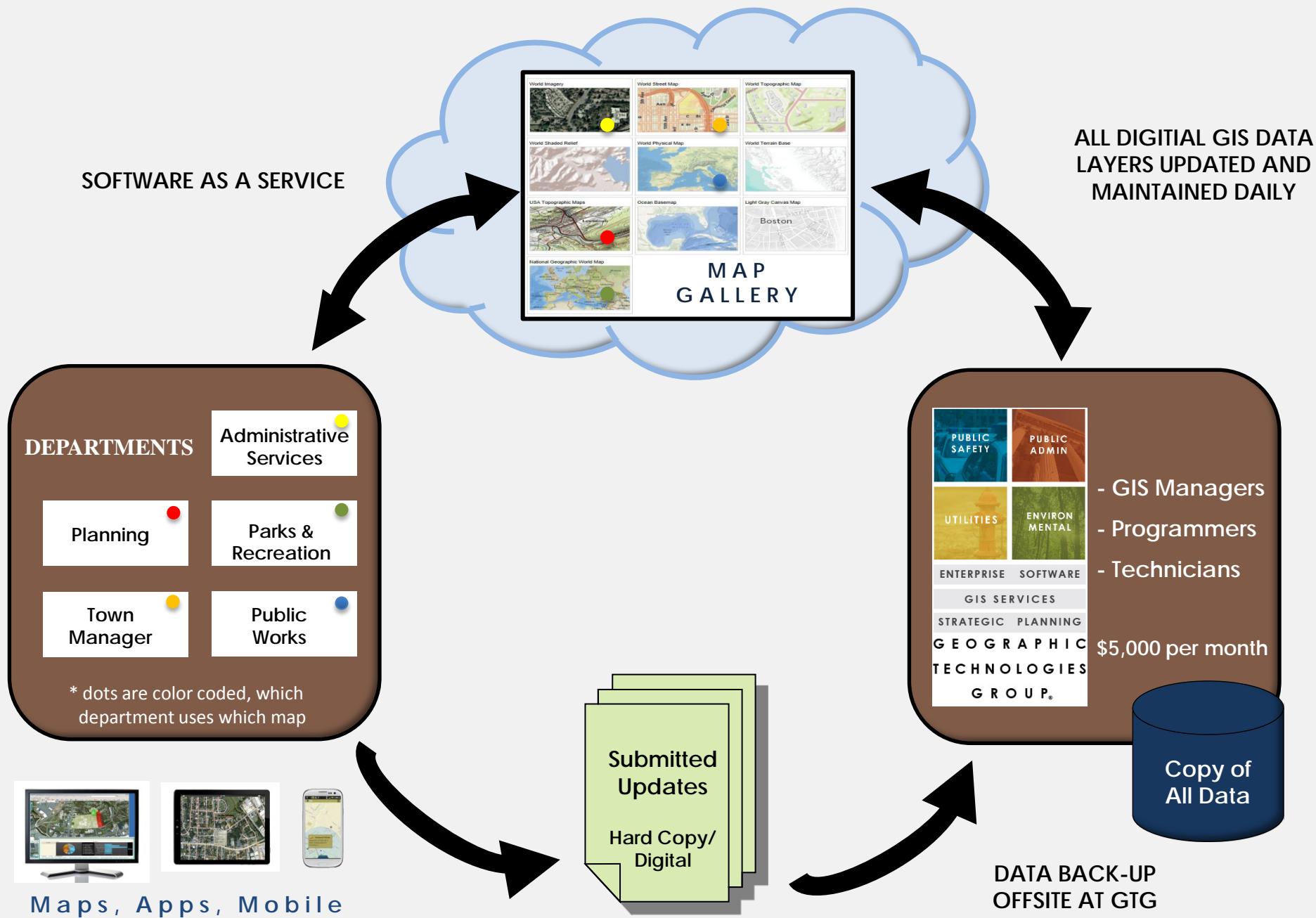


Table of Contents

1 Introduction

2 Understanding Organizational Barriers

Enterprise, Integrated, and Scalable Solutions for Your Organization

-
- ## 3
- Browser Based Applications – Vantage Points
 - Cloud Based Software – ArcGIS Online
 - [Mobile Solutions](#)
-

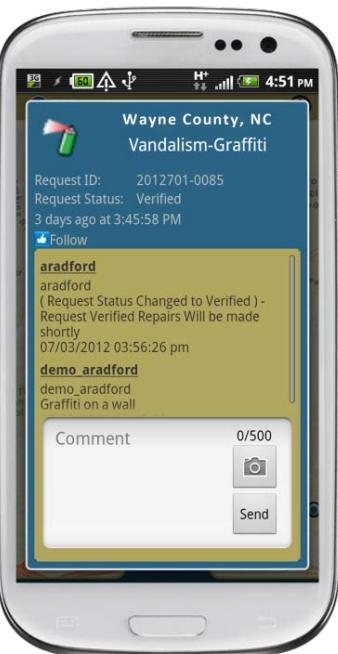
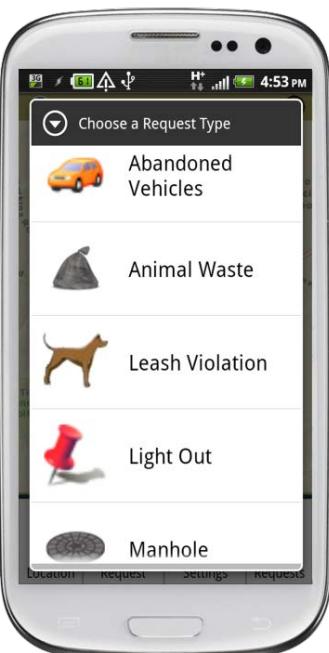
4 One-Stop Shop for Geographic Intelligence – Case Studies

5 Conclusion

- Key Success Factors

Enterprise Integrated and Scalable Solutions for Your Organization

Mobile Solutions – 311GIS





GIS

SEE A PROBLEM REPORT A PROBLEM

matte (Log out / Edit)

Heat Map

CURTISTOWN POT HOLES

Request ID: 2012801-0153
Request Status: Pending Approval
Created on 08/15/2012 - 9 Days ago at
10:25:19 AM

Show All 1 Comments

demo_aradford Pot hole on center street.
08/15/2012 10:25:19 AM

CURTISTOWN MANHOLE

Request ID: 2012801-0152
Request Status: Pending Approval
Created on 08/15/2012 - 9 Days ago at
9:45:50 AM

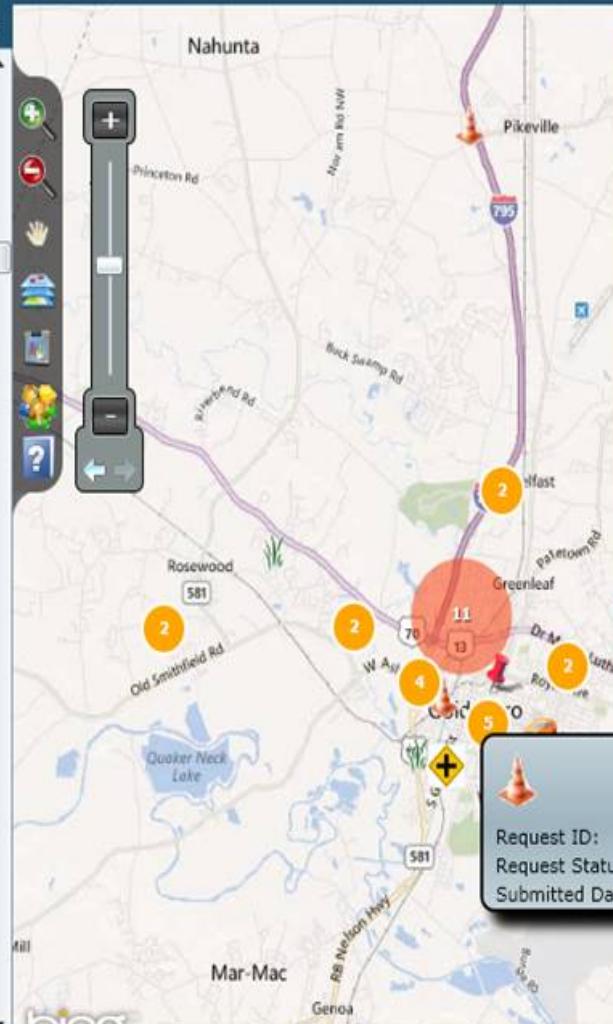
Show All 4 Comments

matte (Request Status Changed to Scheduled)
- Repairs will be made Monday
08/15/2012 1:44:16 PM

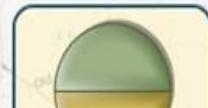
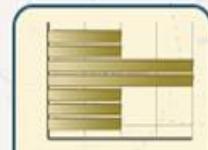
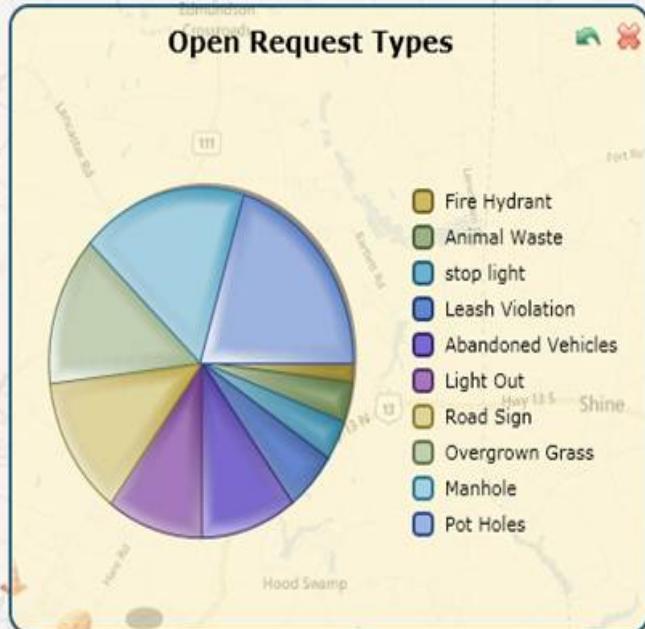
demo_aradford Manhole Cover is Missing
08/15/2012 1:39:36 PM

matte The request 2012801-0151 was merged
into this request.
08/15/2012 9:46:52 AM

demo_aradford Manhole Cover is Missing
08/15/2012 9:45:50 AM



**CURTISTOWN
POT HOLES**
Request ID: 2012801-0153
Request Status: Pending Approval
Submitted Date: 08/15/2012 10:25:19 AM



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GIS

SEE A PROBLEM
REPORT A PROBLEM

wayneadmin (Log out / Edit)

Heat Map

WAYNE COUNTY OVERGROWN GRASS

Request ID: 20121101-0131

Request Status: Pending Approval

Created on 11/29/2012 - 7 Days ago at 8:21:41 AM

Show All 1 Comments

demo_awradford This grass is becoming an issue it needs to be taken care of
11/29/2012 8:21:41 AM

WAYNE COUNTY POTHOLE

Request ID: 20121101-0130

Request Status: Pending Approval

Created on 11/27/2012 - 9 Days ago at 9:30:33 AM

Show All 1 Comments

demo_awradford Large pothole in the road
11/27/2012 9:30:33 AM

WAYNE COUNTY POTHOLE

Request ID: 20121101-0129

Request Status: Started

Created on 11/27/2012 - 9 Days ago at 8:43:53 AM

Show All 4 Comments

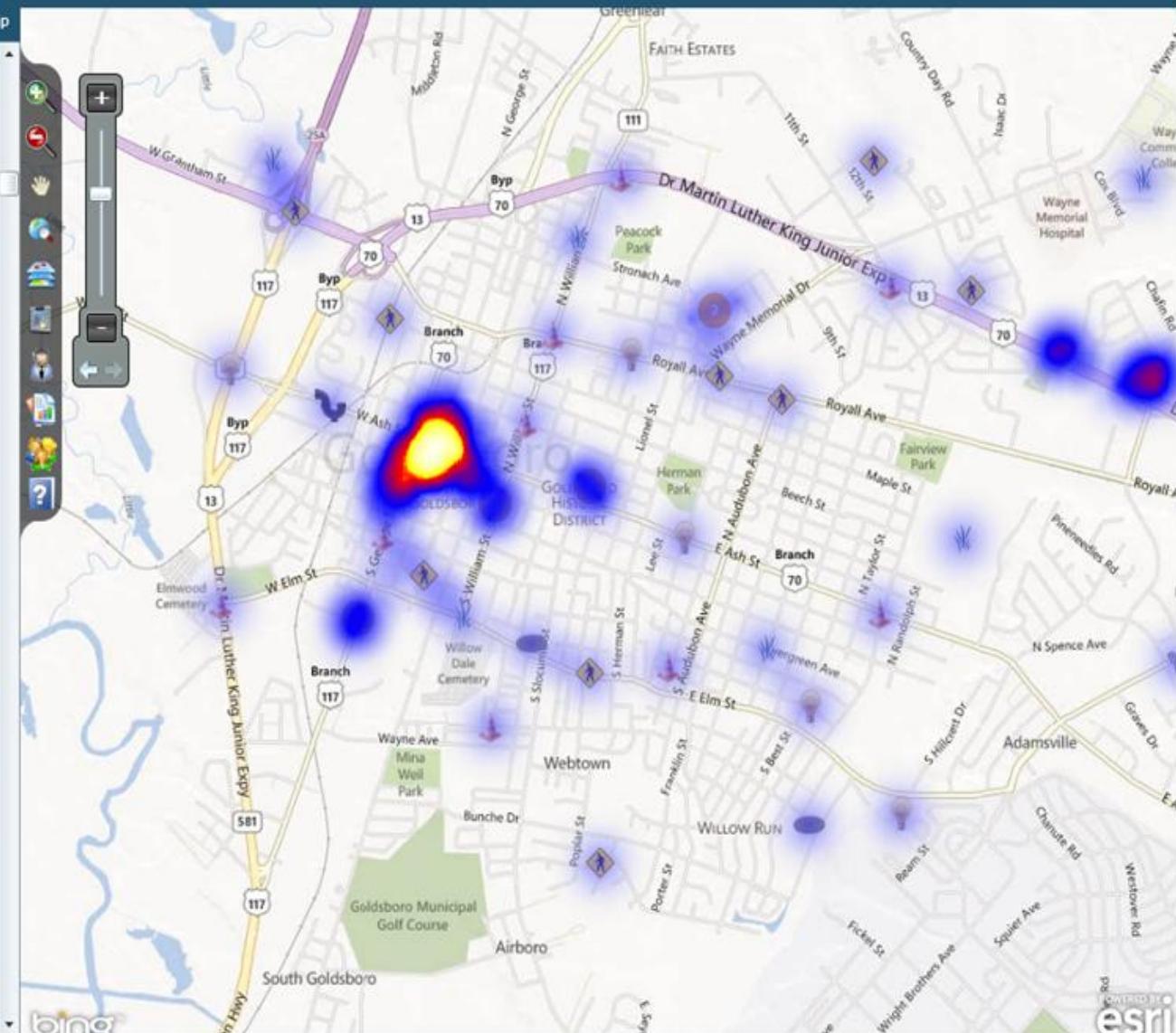
wayneadmin Repairs will be made Thursday instead.
11/27/2012 8:53:08 AM

wayneadmin John please fix this.
11/27/2012 8:52:31 AM

wayneadmin (Request Status Changed to Pending Approval) - Repairs will be made Friday.
11/27/2012 8:51:13 AM

demo_awradford There is a large pothole here it is

Last Updated: 3:14 PM



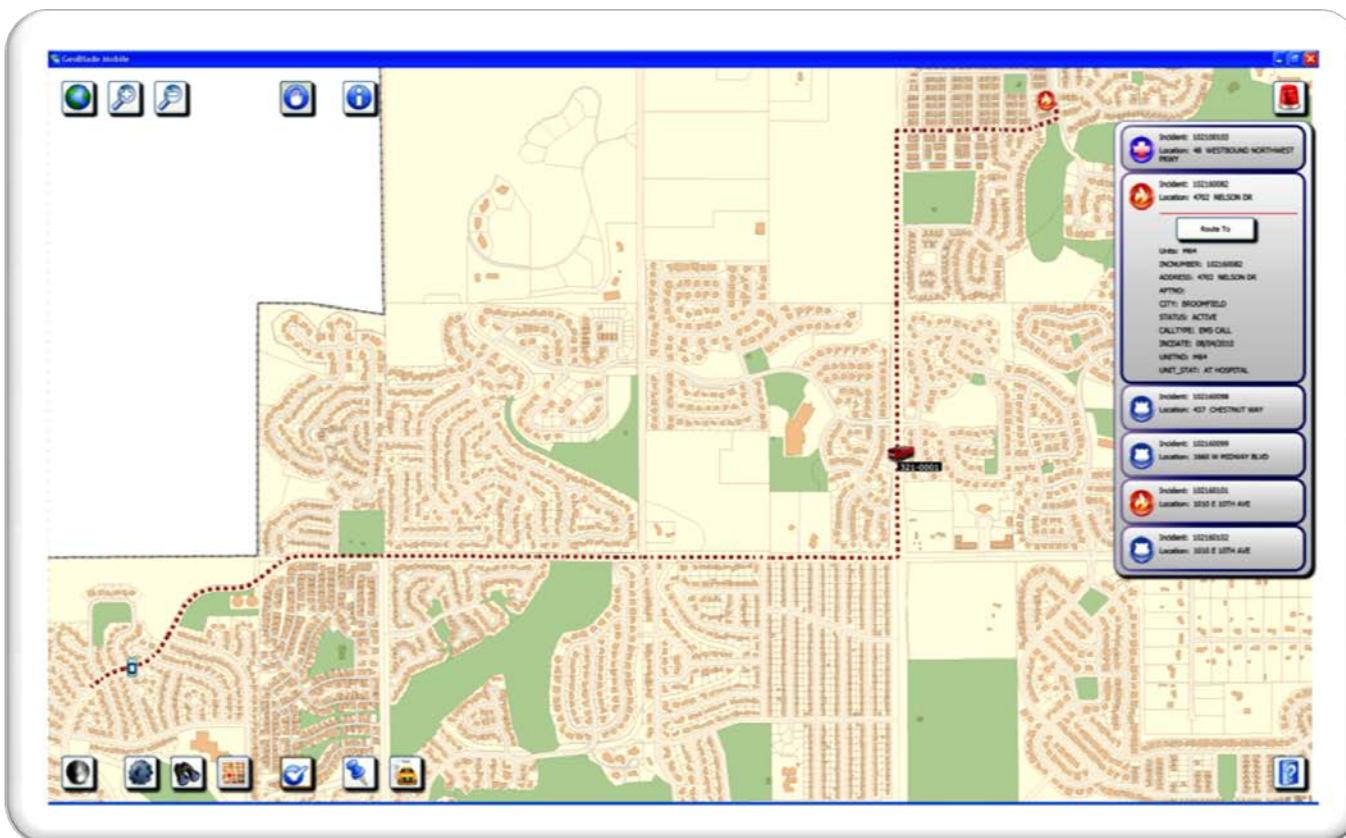
Enterprise Integrated and Scalable Solutions for Your Organization

Mobile Solutions – GeoBlade Mobile



Enterprise Integrated and Scalable Solutions for Your Organization

Mobile Solutions – GeoBlade Mobile



Enterprise Integrated and Scalable Solutions for Your Organization

Mobile Solutions – Community Watch

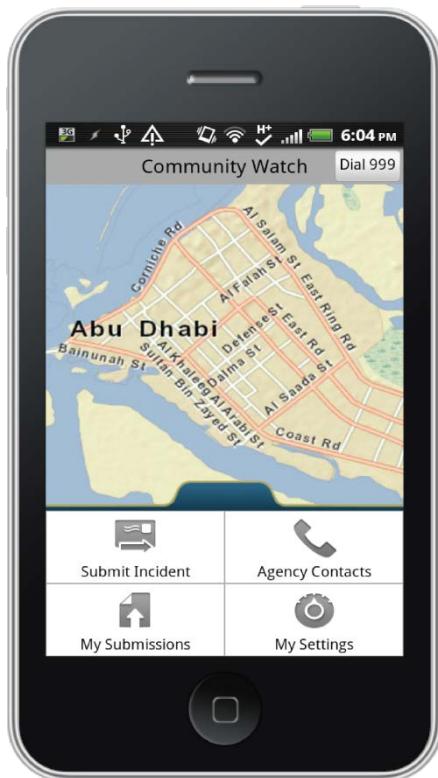


Table of Contents

1 Introduction

2 Understanding Organizational Barriers

Enterprise, Integrated, and Scalable Solutions for Your Organization

-
- Browser Based Applications – Vantage Points
 - Cloud Based Software – ArcGIS Online
 - Mobile Solutions
-

4 One-Stop Shop for Geographic Intelligence – Case Studies

5 Conclusion

- Key Success Factors
-

One-Stop Shop for Geographic Intelligence – Case Studies

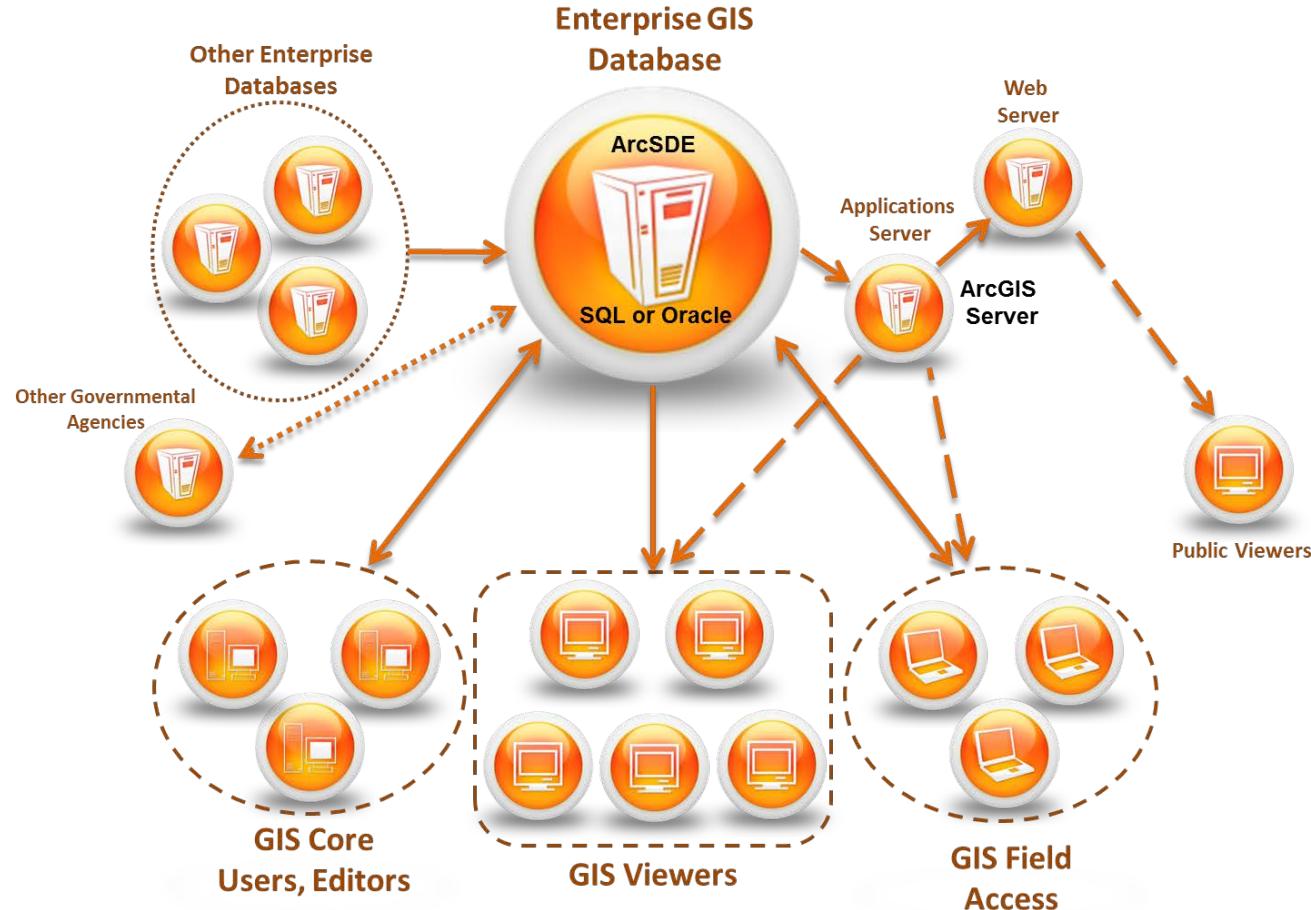


Table of Contents

1 Introduction

2 Understanding Organizational Barriers

Enterprise, Integrated, and Scalable Solutions for Your Organization

-
- ## 3
- Browser Based Applications – Vantage Points
 - Cloud Based Software – ArcGIS Online
 - Mobile Solutions
-

4 One-Stop Shop for Geographic Intelligence – Case Studies

5 Conclusion

- Key Success Factors
-

Table of Contents

1 Introduction

2 Understanding Organizational Barriers

Enterprise, Integrated, and Scalable Solutions for Your Organization

-
- Browser Based Applications – Vantage Points
 - Cloud Based Software – ArcGIS Online
 - Mobile Solutions
-

4 One-Stop Shop for Geographic Intelligence – Case Studies

5 Conclusion

- Key Success Factors
-

Conclusion

Key Success Factors

- No. 1:** Immediate and Informative Map Display
- No. 2:** Initiating Events and Bi-Directional Functionality
- No. 3:** Data Maintenance and Address - Synchronization
- No. 4:** The Spatial Analytical Toolbox
- No. 5:** Mobile GIS
- No. 6:** The Public Portal
- No. 7:** Quantifying Value and Return on Investment