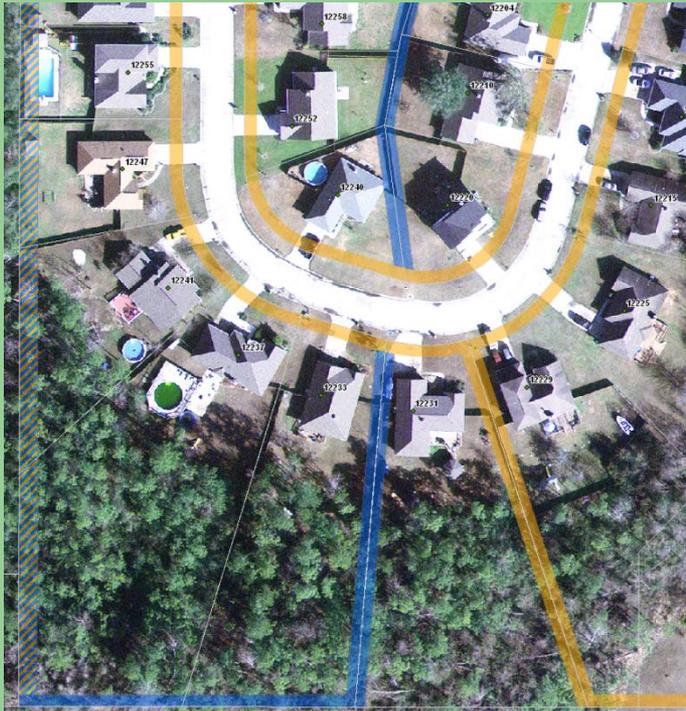




Gulfport GIS Committee



January 30, 2008

Introduction

- GIS Defined
 - Components
 - Uses
- Organization
 - Personnel
 - Software
 - Policy
- Data Catalog
 - Data Sources
 - Imagery Data Sets
 - Spatial Database Engine
- Current Supported Applications
 - ArcMap, ArcExplorer, CityWorks, Crimeview, CIMS, IMS, Hurrevac, MUNIS Maplink*

GIS Defined

- Geographic Information System
 - Comprised of five main components
 - Data, Software, Hardware, Methods and People
 - Used to Correlate Information Spatially
 - Links together data sets by location
 - Any data set with an address or parcel number can be mapped

Organization

- Personnel
 - 2 GIS Analysts, 1 Sr GIS Analyst
 - Over 16 years experience
- Software
 - ArcGIS 9.1, IMS, SDE, ArcPad, ArcExplorer
 - *ESRI based* – CityWorks, Crimeview, MUNIS Maplink*
 - Almost 50 full licenses – General Admin, Urban Development, Public Works, Police
 - Using ArcExplorer – Fire, General Admin, General Finance, Water
 - Gulfport On-Line Atlas (GOLA)
 - Hurrevac – Hurricane Tracking and Evacuation Timing
 - CIMS - Cemetery Information Management System
- Policy
 - Harrison County Digital Plat Submission Policy

Data Catalog

- Federal Agencies
 - FEMA, U.S. Census, NWI, USGS, NRCS
 - DFIRM, ABFE, Census, Wetlands, LIDAR
- State and County
 - Harrison County Tax Assessor's Office, MDEQ
 - Parcels, Lots, Planimetric Maps, Environmental Models, Imagery
- In House
 - Division of GIS
 - Street Centerline, Address Points, Zoning, Water, Sewer, Drainage, Hydrology, Impervious Surfaces, Edge of Pavement, Building Footprints, Police Districts, Fire Response Zones, Voting Precincts, School Districts, Political Boundaries, and Much More
 - Many other data sets developed as needed

Imagery

- 6" Color Ortho February 2007
 - Primary imagery set used
- 2' Color Ortho March 2007
 - Spatially inexact by 3'
- 6" B&W Ortho Dec 2001
 - Many data sets developed from (i.e. Building Footprints and Edge of Pavement)
- 2" Color Ortho March 2006
 - Port and Harbor Only

Spatial Database Engine (SDE)

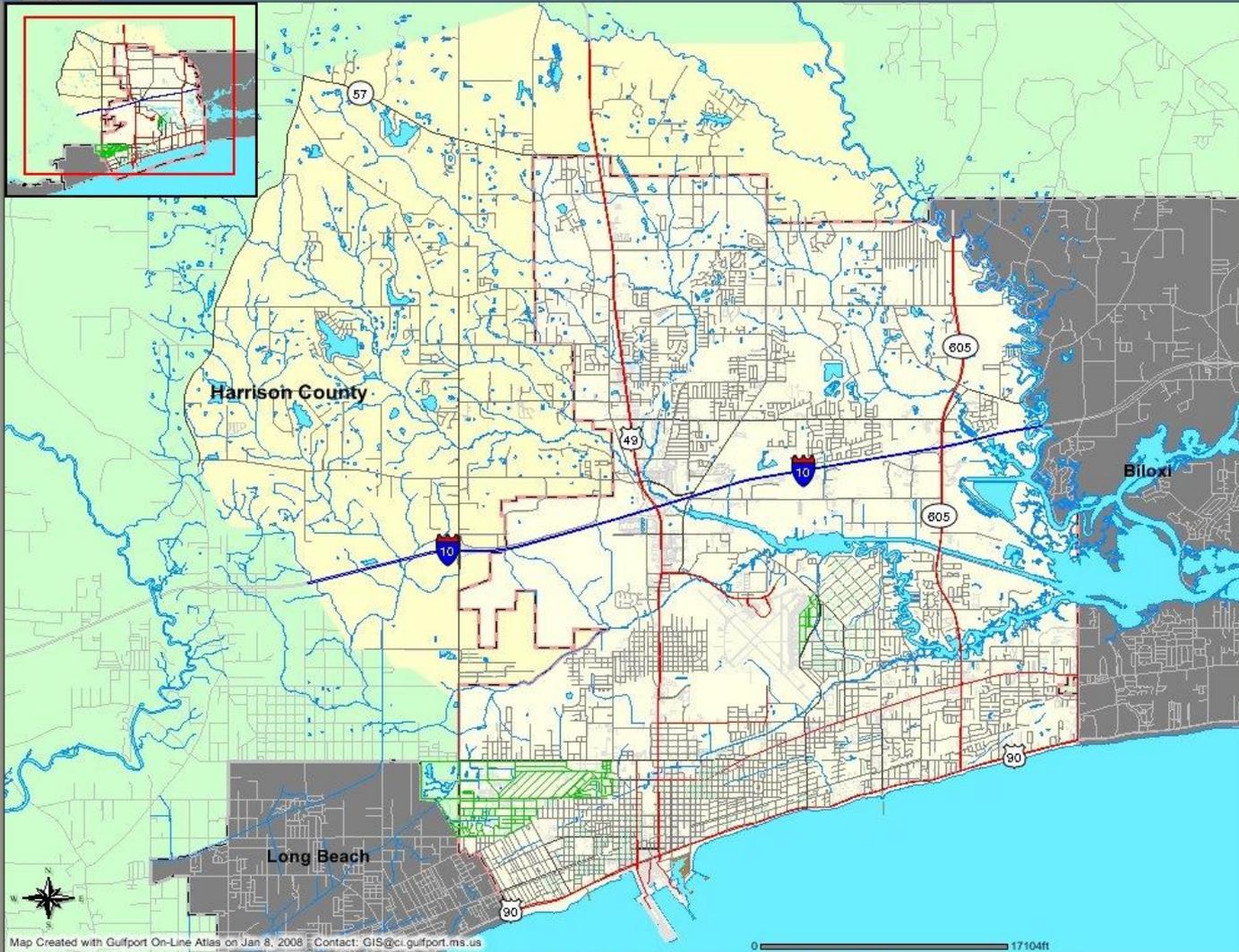
- Implemented February 2007
- Central Location For Data
- High Performance (Vector & Imagery)
- Multi-User

Gulfport Online Atlas



The City of Gulfport
Mississippi

Gulfport Online Atlas : **GOLA**



- Groups**
- All Layers
 - Base Info
 - Addresses
 - Airport
 - Buildings
 - Streets
 - Tax Parcels
 - Sixteenth Section
 - Zoning
 - Gulfport Services
 - Watershed
 - Schools
 - Voting

Refresh Map

Auto Refresh



About...

Search For:

In

Addresses

FIND IT

Map Created with Gulfport On-Line Atlas on Jan 8, 2008 | Contact: GIS@ci.gulfport.ms.us

0 17104ft



GOLA - Gulfport On-Line Atlas

- Allows anyone with an internet connection to browse GIS data with only a browser
- New tools (buffer & full extent) and new layers (Elevation, NRCS Soil, etc.)

*New version will be On-Line within a few weeks

Buffer Tool

The City of Gulfport
Gulfport Online Atlas : GOLA

Map Created with Gulfport On-Line Atlas on Jan 23, 2008 Contact: GIS@ci.gulfport.ms.us

http://216.77.51.132/website/gola08/buffer.htm - Windows Internet Explorer

http://216.77.51.132/website/gola08/buffer.htm

Buffer

Highlight features from **Tax Parcels** within a distance of **150** FEET around the selected features of Tax Parcels

Create Buffer Display Attributes

Done

Buffer Results - Windows Internet Explorer

http://216.77.51.132/servlet/com.esri.esrimap.Esrimap?serviceName=gola08&CustomService=Query&ClientVer:

Tax Parcels

Rec	PARCEL NUMBER	OWNER	OWNER ADDRESS	OWNER ADDRESS 2	PROPE ADDRE
1	0811K-03-009.000	POLOVICH LILLIAN CATHERINE ET AL	1421 24TH AVE		1423 24T
2	0811K-03-006.000	1ST UNITED METHODIST CHURCH GPT	2301 15TH ST		0
3	0811K-03-001.000	1ST UNITED METHODIST CHURCH GPT	2301 15TH ST		0
4	0811K-01-020.000	GULFPORT CITY OF	P O BOX 1780		1422 23R
5	0811F-04-008.000	SIXTEEN HUNDRED CORP	P O BOX 508	1600 24TH AVE	1600 24T
6	0811F-04-007.000	GULF SOUTH PIPELINE COMPANY LP	ATTN: PROPERTY TAX DEPT	P O BOX 829	0 23RD A
7	0811F-03-015.000	SEASHORE DISTRICT OF MS CONFER	UNITED METHODIST CHURCH	P O BOX 2782	1509 24T
8	0811F-04-014.000	SOUTHERN SHORES RENTALS INC	496 HWY 675		1607 24T
9	0811F-03-012.000	GULFPORT CITY OF	P O BOX 1780		0 15TH S
10	0811F-03-013.000	GULFPORT CITY OF	P O BOX 1780		0 15TH S
11	0811F-03-018.000	MISS GULF COAST YOUTH FOR CHRIST	P O BOX 6264		1501 24T
12	0811K-03-007.000	WEATHERLY WILLIAM B	P O BOX 4077		0 24TH A
13	0811F-03-014.000	CLAY GUY JR & SUSAN	13517 WOODLAND DR		1513 24T

Print Table

Cityworks

- Public Works' GIS-based Asset Maintenance Management System
- Manages infrastructure with tools for creating and tracking maintenance activities associated to assets and/or addresses



Current Public Works GIS Projects

- Development of a sewer geometric network
- Development of a water geometric network
- Development of a complex drainage model
- GPS data collection for traffic signs

GPS Improvements

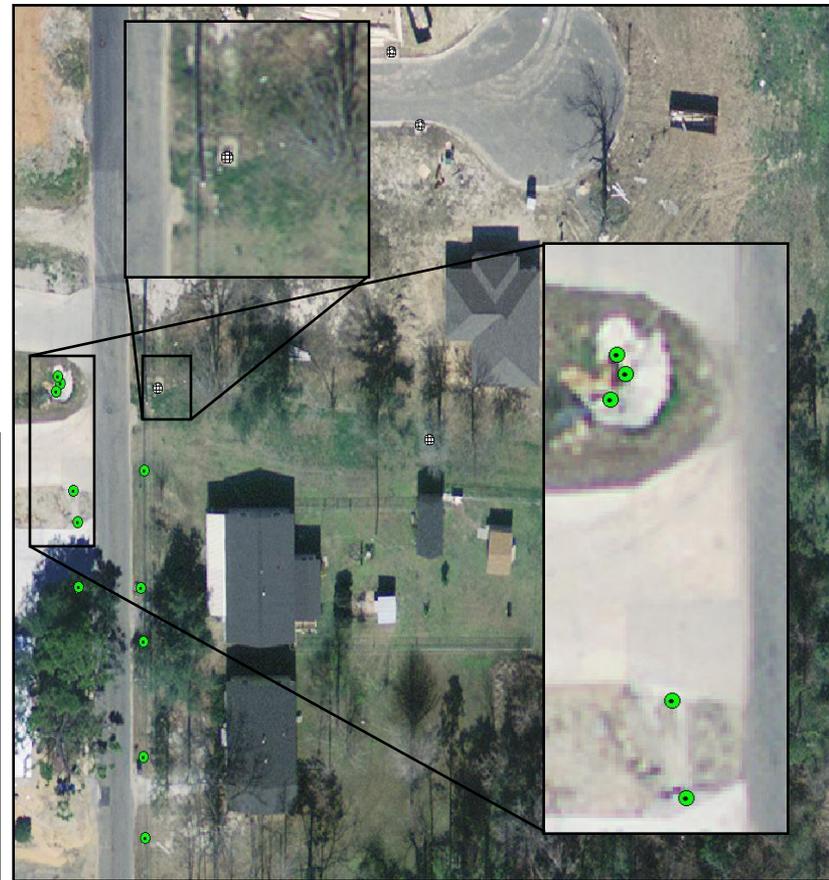
- All our network development involves GPS verification
- Recent hardware and software upgrades have increased the accuracy of our data collection



GPS Improvements



Before GPS Upgrades



After GPS Upgrades

CIMS

- Leisure Services' Cemetery Management Software
- Self Contained GIS



MUNIS Maplink*

- MUNIS MapLink enables MUNIS Users to view data stored in the City's (GIS) database

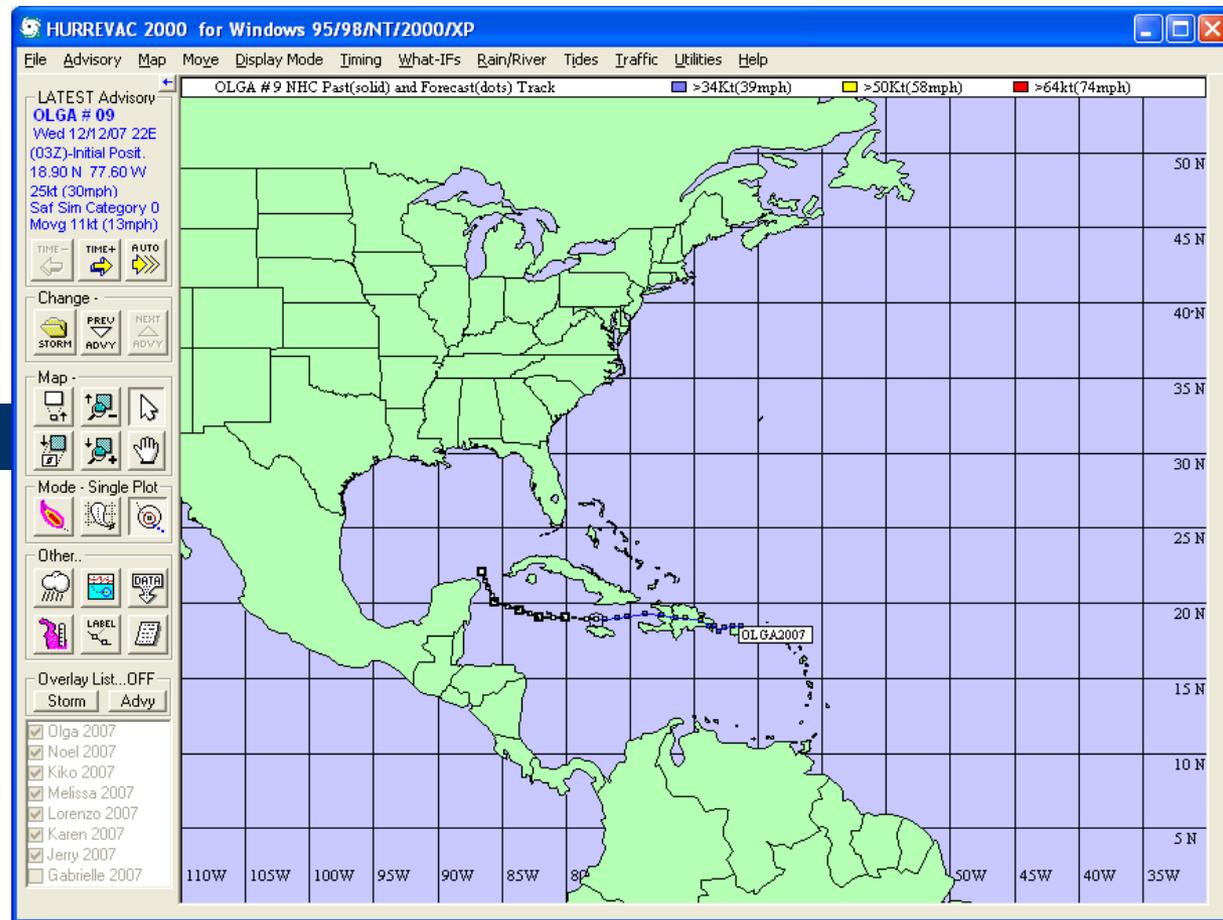
*Coming Soon

Hurrevac

- Mirrors the County EOC

- Provides interactive hurricane evacuation timing

- Uses latest National Weather Service data



Dialogic

- Provides automated mass calling that allows the City of Gulfport to communicate with the community in the event that Public Works repairs that may require a break in service

VisionCAD / GeoLynx



- Dispatch for Fire and Police
- Automatically maps incoming information from CAD

GeoLynx 9-1-1

Views

- Saved View: Airport
- Saved View: Raceway
- District: Fairfield
- District: Varina
- City: Tuckahoe
- District: Brookland

Markups

AVL

HazMat

Routing

Layers

Locator

Search Advanced

- AEDs
- airport
- AVL
- AVL_units
- boundaries
- Buildings
- CAD
- cell_I
- centerlines
- ENS_911
- ENS_Whitepages

Call Information

GeoComm
been there.

GeoLynx 9-1-1
Dispatch GIS
Version 7.0.0

POSITION	DATE/TIME	TYPE	PHONE#	CALLER	ADDRESS	COMMUNITY	ESN	LAW	FIRE
302	5/14/2007 10:31:00 PM	Phase 2	(555) 555-1116	AT&T WIRELESS	2207 CLEARY RD	FAIRFIELD DISTRICT	104	PD 31	FD 07
302	5/14/2007 10:31:00 PM	Phase 2	(555) 555-1116	AT&T WIRELESS	2206 CLEARY RD	FAIRFIELD DISTRICT	104	PD 31	FD 07
202	5/14/2007 10:31:00 PM	Phase 2	(555) 555-1116	AT&T WIRELESS	2205 CLEARY RD	FAIRFIELD DISTRICT	104	PD 31	FD 07
202	5/14/2007 10:31:00 PM	Phase 2	(555) 555-1116	AT&T WIRELESS	2204 CLEARY RD	FAIRFIELD DISTRICT	104	PD 31	FD 07
113	5/14/2007 10:31:00 PM	Phase 2	(555) 555-1116	AT&T WIRELESS	2202 CLEARY RD	FAIRFIELD DISTRICT	104	PD 31	FD 07
102	5/7/2007 7:43:00 PM	VOIP	(555) 555-1100	DAVID KLOBARIUS	2308 APOLLO RD	EAST HIGHLAND PARK	104	PD 31	FD 07

0.27 mi
Tuckahoe, VA 23180

2302 CLEARY RD

555-555-1116

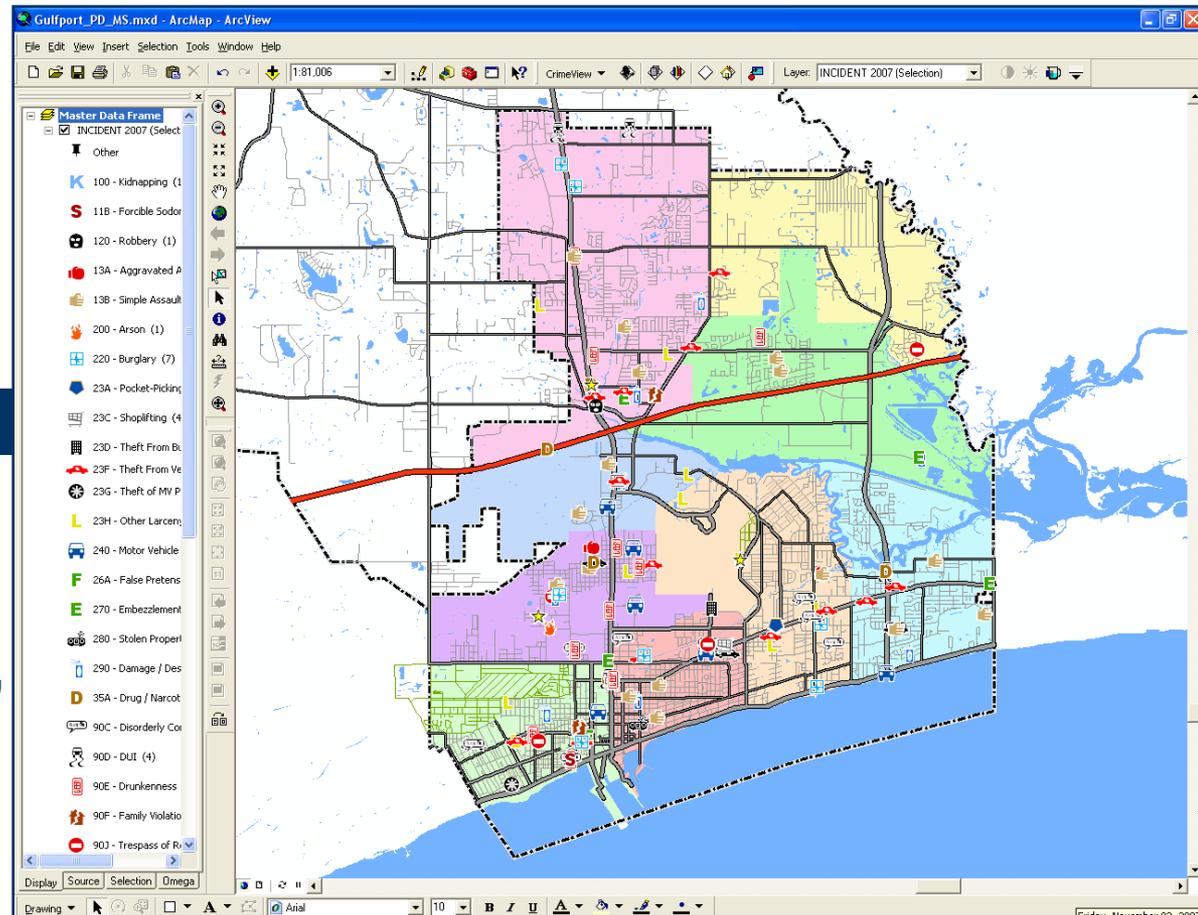
ESN: 104

FAST RESP AND PERS

Home Computer

Crimeview

- Uses Police Dispatch, RMS, DOC Data



- Tracks Crime Incidents
- Predicts Trends
- Automatic Notification System

Future Developments

- Enterprise License Agreement
 - ArcGIS Desktop
 - ArcView
 - ArcEditor
 - ArcInfo
 - All extensions
 - ArcGIS Server (Enterprise and Standard) and all extensions
 - ArcIMS
 - ArcGIS Engine
 - Includes online training and support credits

*Gulfport will be one of the first local governments to adopt ELA

Future Developments

- Unlike Microsoft Office not everyone will need ArcMap, but it will be available to everyone that does at no further cost
- ArcExplorer will be replaced with ArcMap, expanding the capabilities of those already accessing GIS information
- Departments that use third party softwares (like Crimeview and Cityworks) that require an ArcMap license for their mapping component will no longer be required to pay this extra expense per seat

Thank you!



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