

# eGIS Steering Committee

## Meeting Minutes

September 5<sup>th</sup>, 2024

1:30pm – 2:25pm

Facilitator – Jamie Munro, GIS Manager

### In Attendance

#### Committee Members

Mike Twitty – Chair – Pinellas County Property Appraiser  
Jason Malpass – Vice Chair - Pinellas County Sheriff's Office  
Marc Gillette – Supervisor of Elections  
Tom Almonte – Assistant County Administrator – ABSENT  
Robert Mills – Office of Resiliency and Asset Management

#### Attendees - Internal

Steven Alston – Office of Asset Management  
Joe Borries – Emergency Management  
Rob Burnes – Public Works  
Steve Clark – Business Technology Service/eGIS  
Marcia Colby – Public Works  
Jamie Frank – Public Works  
Meilin Haidl – Department of Admin Services  
Belinda Huggins – Business Technology Services  
Susan Leverette – Office of Asset Management  
Jamie Munro - Business Technology Services/eGIS  
Kevin O'Hara – Supervisor of Elections  
Morgan Pyle – Safety & Emergency Services/911  
Jeff Rohrs – Business Technology Services  
Alan Shellhorn – Planning  
Scott Stillwell – Public Works

Emilly Baechle – Parks  
Thuyen Buendia – Business Technology Services/eGIS  
Tim Burns – Human Services  
Jason Clemis – Business Technology Services/eGIS  
Renee Duffey – Emergency Management  
Edin Grimaldo - Office of Asset Management  
Michael Howsare – Development Review Services  
April Klimkoski – Business Technology Services/eGIS  
James McDermott – Department of Admin Services  
Dayne Morris – Development Review Services  
Eric Pieniak – Utilities  
Allison Reinbolt – Business Technology Services/eGIS  
Dapo Satiregun – Business Technology Services/eGIS  
Toni Smith – Business Technology Services/eGIS  
Tasha Thomas – Human Services

#### Attendees - External

Paul Harkins – City of Largo  
Thomas Mahony – City of Clearwater  
Matt Smith – City of Tarpon Springs  
Matt Woloschek – City of Clearwater

Billie Kirkpatrick – City of Clearwater  
Daniel Mayer – City of Clearwater  
David Pearson – City of Clearwater

## Agenda

1. Call to Order
2. Welcome and Introductions
  - a. BCC Member Change
3. Citizens to be Heard
4. Approval of Minutes from the March 7<sup>th</sup>, 2024, meeting
5. Working Group Presentation
  - a. Contracts Overview
    - i. Esri Amendment
    - ii. LIDAR Status
    - iii. ARPA Initiatives
    - iv. City of Clearwater GIS Infrastructure
  - b. GIS Projects
    - i. Road Ahead for GIS Websites
    - ii. GIS Deprecation of ArcMap Desktop
    - iii. Municipal Data Sharing Update
  - c. Esri User Conference Highlights
6. Open Discussion
7. Upcoming Meetings
8. Adjournment

## Call to Order

The meeting was called to order at 1:30pm by Mike Twitty.

## Welcome and Introductions

It was announced by Mike Twitty that the previous committee member spot occupied by Jeremy Waugh has now been filled with Robert Mills, Director of Office of Resiliency and Asset Management. Welcome Robert to the eGIS Steering Committee.

## Citizens to be Heard

No citizens were in attendance.

## Approval of Minutes

Mike Twitty asked for motion to approve the minutes for the March 7<sup>th</sup>, 2024, meeting. Motion to approve from Marc Gillette, seconded by Jason Malpass, all in favor. Minutes approved.

## Working Group Presentation

### Contracts Overview

#### Esri Contract Renewal

Information on the amendment to renew the Esri contract expiring in April of 2025 was presented. The new annual fee will be \$1,200,000. On premise server licensing will reduce. ArcGIS Online (AGOL) user licensing will increase as we move user licensing from our on-premises Portal servers to the Esri ArcGIS Online SaaS product. However, the Sheriff users will continue to leverage their Portal server instead of moving their users to AGOL. In addition to adding about 1,400 users to AGOL, the new contract will also include a dedicated data storage service. This Esri M4 Premium Data Store service alone accounts for \$100k in the annual fee increase.

#### Aerial & LiDAR Updates

The 2024 Aerials were delivered in late July and eGIS is working through some issues publishing on the image server to get make them available. Property Appraiser has already updated their basemaps with the new 2024 imagery.

The 2025 USGS flight for LiDAR has been approved with a BTS budget of \$400,000. The data collection will likely begin in the Wintertime.

#### ARPA Initiatives

Esri StreetMap Premium contract has been signed by Esri and currently pending County signatures. The budget for this initiative was \$900,000 with \$125,575 spent on the purchase of StreetMap premium in January 2024. This leaves \$775,145 remaining in the budget. bringing the anticipated total spend to \$895,000. This initiative will support Hexagon with licenses for PRIME and Safety and Emergency Services to maintain street network through 2030.

Network Fiber Management initiative budget was \$330,000. The Project is with the 3GIS vendor and anticipated spending is at \$320,000. The project is almost complete with data migration and configuration of application.

#### City of Clearwater GIS Infrastructure

Jeff Rohrs, Director of Business Technology Services for Pinellas County, mentioned that the City of Clearwater has requested assistance to host their GIS systems and leverage existing investments and expertise that has been developed for the County's Enterprise GIS program. The agreement will go before the BTS Board later this month and will include managing the City's GIS environment, including cloud server and infrastructure, and providing GIS to the City as a hosted service. It will not include administration of GIS software, City data management, or technical support for the Esri platform.

Mike Twitty asked if this would have any impact on County Services. Jamie responded that it would not because the work would be done in a separate environment and the work aligns with County's future state architecture. So, it won't distract eGIS staff because any work done to create the City architecture could be reused for the County architecture (or vice versa). Mike then asks the committee members for a vote of support on this effort.

## Vote of Support for City of Clearwater GIS Infrastructure

Motion: Marc Gillette motioned to support the hosting and providing platform for the City of Clearwater GIS Infrastructure request.

Motion seconded by: Jason Malpass

All in Favor.

## GIS Projects

The current 5 eGIS Projects were shown with percentage completed. The PCSO New Infrastructure and Software Upgrade project is almost completed and will give the PCSO a more robust environment. The eGIS/PGIS to ArcGIS Online project is currently working to get the data from our database into ArcGIS Online and then be able to build new applications using those services.

## Road Ahead for GIS Websites

April Klimkoski mentioned that Esri will be deprecating their Web AppBuilder application which means any current Web AppBuilder applications need to be either migrated to Experience Builder or the new Instant Apps. The eGIS team has reviewed applications under their ownership and have determined that 53 could be converted to Instant Apps and 12 need to be moved to Experience Builder. With that said, there are still over 200 Web AppBuilder applications owned by other ArcGIS Online users that will need to be migrated to either an Instant App or Experience Builder. eGIS is working on a plan to help the ArcGIS Online users with this initiative. Instant Apps have premade templates depending on what is needing to be conveyed. Experience Builder will be used for specialized widgets/tools. The advantage of using Experience Builder is that you can customize the app for desktop, tablet and mobile, for a better user experience, especially being more mobile friendly. April gave a brief demo of an Instant App and the new Know Your Zone in Experience Builder. eGIS has currently moved the Public WebGIS and Know Your Zone to Experience Builder and the Storm Surge Risk Viewer to an Instant App. Dapo Satiregun then gave a brief demo of the rough draft Experience Builder replacement for the current Crime Viewer application. eGIS will be meeting with PCSO soon on how to update and/or modernize it.

It was also mentioned that the primary Know Your Zone application is in ArcGIS Online using Esri Saas. eGIS has created a backup version in AWS to stand up in case there are issues with ArcGIS Online. Intense load testing was performed on this AWS version with successful results (150,000 users per hour).

It was also mentioned that with Know Your Zone, eGIS was able to identify that over 50% of the users were accessing the application using tablet and/or mobile devices.

## GIS Deprecation of ArcMap Desktop

In preparation for the new licenses being applied in April 2025 that considers the deprecation of ArcMap, eGIS is in the process of working with the desktop team to start uninstalling old ArcMap software from computers. There will be some exceptions (Utilities/Public Works users) that will still need ArcMap usage for a time after that. Property Appraiser is also working on moving their users from Desktop before April 2025 and they are using some Esri credits for help with the Esri Parcel Fabric implementation that could support the migration from ArcMap to ArcGIS Pro.

eGIS will also be upgrading the ArcGIS Pro deployment to the newer version, from 2.9.1 and 3.0.1 to 3.3 or newer. With this move from Desktop to ArcGIS Pro will come the need for ArcGIS Online user accounts to assign the Pro licenses. The eGIS team plans to reconcile these new user accounts against the requested department needs that were used to negotiate the Esri contract amendment.

### **Municipal Data Sharing Update**

The County obtained some municipality data (water, sewer, reclaimed and stormwater) back in 2019. There is an initiative to update this data by collaborating with the municipalities to share data between them and the county by leveraging technology solutions for current data. This initiative will be worked on through the working group.

### **ESRI User Conference Highlights**

The ESRI User Conference was July 15-19, and 11 county employees were able to attend in person, with more having some digital access. Some conference highlights included new tools with LiDAR, GIS Data Maintenance Process, ArcGIS Server Resource Tuning, GeoAI Models, Microsoft Fabric, and many other new tools.

The next upcoming Esri conference is the Esri Infrastructure Management Conference in Palm Springs, California, on October 22-24. Currently only 1 county employee is attending this conference.

### **Open Discussion**

Mike Twitty asked Robert Mills to formally introduce himself. Robert has been with the County for 7/8 years in Solid Waste, previously worked for Leon County government as Assistant Public Works Director and as a Plant Manager for Honda. He would like to get some one-on-one time with others to get caught up on eGIS directives.

Mike Twitty also asked about the 3D basemap status. Jamie referred to April Klimkoski and she mentioned that they are currently in ArcGIS Online as a service. Some discussion will need to happen on the opportunity for a 3D dataset to be made public for external usage/viewing.

Jamie went over the upcoming 2024 Steering Committee meetings. The next meeting is scheduled for December 5<sup>th</sup> but it was suggested to have this meeting in person to finish out the year. More to come on the plans for this as it could be a combination of the Working Group and Steering Committee meeting.


### **Adjournment**

Meeting adjourned at 2:25pm. Jason Malpass motioned to adjourn; Robert Mills seconded.

# PowerPoint Presentation

## Pinellas County Enterprise GIS


GIS Steering Committee Meeting  
September 5, 2024



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- Call to Order
- Welcome & Introductions
  - BCC Member Change
- Citizens to be Heard
- Approval of minutes from the March 7, 2024 Meeting


- Working Group Presentations
  - a. Contracts Overview
    - i. Esri Amendment
    - ii. LIDAR Status
    - iii. ARPA
    - iv. City of Clearwater GIS Infrastructure
  - b. GIS Projects
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### GIS Contracts – Esri Amendment

Item	2020 Contract	2025 Contract	Comments
Term	5 years	5 years	
Fee	\$945,000 annually	\$1,200,000 annually	
Desktop Licenses	Uncapped	46 Pro Standard 40 Pro Advanced	
Server Licenses	Uncapped	Decrease	
Enterprise Portal	Uncapped Viewer 2,500 Creator	Uncapped Viewer  977 PCSO 101 PAO 412 Enterprise	Movement to SaaS
ArcGIS Online Subscription	250 Mobile 250 Creator	1,240 Viewers 67 Editors 264 Mobile 232 Creator	Movement to SaaS
ArcGIS Online Premium Data Store	Annual Purchase not included in contract.	Included	M4 instead of M1



### GIS Contracts - Aerial Status



- 2024 Flight Capture Complete
  - Early Access Through EagleView available
  - Delivered late July

### GIS Contracts - LiDAR Status

- Agreement Established with USGS
- Collaboration with Hillsborough
- Acquisition Cost Estimated \$308,100
- BTS Budget Request \$400,000
- USGS Cost Share (maybe) about 30%
- Minimum 20-24 points per sq meter

+ **FY24 3DNTM Data Collaboration Announcement**  
USGS manages the project - Geospatial Products and Services Contracts (GPSC)

### GIS Contracts – Esri StreetMap Premium

- ARPA Funded Project
- Budget: \$900,000
- Anticipated Spend: \$895,000
- Status:
  - \$120,575.34 Esri StreetMap Premium purchase in January 2024
  - Establishing contract with Esri for \$775,145.21 purchase. Currently signed by Esri, pending County signatures.



CAD & GIS Integration Project

Develop improved data management tools and real-time traffic routing specific to emergency response needs to improve operational awareness and expand current routing functionality.



CAD & GIS Data Project

Normalize data across many of the County local municipalities and support a data collaborative to improve 911 and law enforcement access to critical spatial data.



### GIS Contracts – Network Fiber Management

- ARPA Funded Project
- Budget: \$330,000
- Anticipated Spend: \$320,000
- Vendor: 3GIS Inc.
- Status: Nearly Complete

## GIS Contracts – City of Clearwater

- City of Clearwater has requested assistance from BTS to **host** their GIS systems, leveraging existing investments and expertise that the Pinellas County has developed as part of its Enterprise GIS program.
- Provide hosting services for CITY's GIS systems, including but not limited to hardware and cloud infrastructure, software maintenance for the ESRI GIS platform, system updates, and technical support.



- The agreement **would NOT** include administration of GIS software, city data management or technical support for the ESRI platform.
- The agreement **would** include managing the City's GIS environment (cloud servers, infrastructure) and providing GIS to the City as a hosted service.



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## GIS Projects

• Click to add text

Number	Project Name	Planned end date	Percent complete
PRJ0083294	eGIS 2024 Department Support	09/27/2024 05:00:00 PM	84%
PRJ0078889	PCSO New Infrastructure and Software Upgrade and Hurricane Prep 2024	09/27/2024 05:00:00 PM	71.33%
PRJ0052621	SES GIS Servers Virtualize & Migrate on HCI	09/30/2024 05:00:00 PM	87.12%
PRJ0074738	3GIS Fiber Analysis	10/18/2024 05:00:00 PM	89.86%
PRJ0101375	GIS - eGIS/PGIS to ArcGIS Online	11/01/2024 05:00:00 PM	12.79%



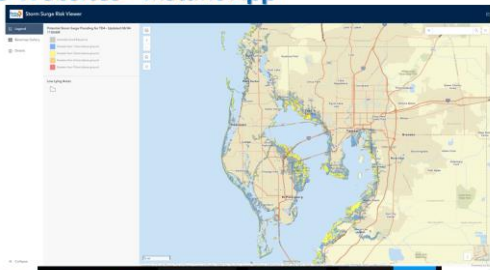
## Road Ahead for GIS Websites

- Web AppBuilder Deprecation
- Esri ArcGIS API for JavaScript 3.x Deprecation (July 24')
- EGIS team working on migration process

The infographic details the migration of various ArcGIS web applications. It lists key actions for each: Instant Apps (check usage, migrate to ArcGIS Online), Dashboards (add metadata, migrate to ArcGIS Online), StoryMaps (transform to ArcGIS Online, create metadata), and Experience Builder (create metadata, migrate to ArcGIS Online). It also notes that ArcGIS API for JavaScript 3.x is deprecated as of July 24, 2024.



## GIS Websites - Instant App



## GIS Websites – Experience Builder



## Road Ahead for GIS Websites

- Storm Surge Risk Viewer - Complete
- Public Web GIS - Complete
- Know You Zone - Complete
- Crime Viewer – Pending
- Web AppBuilder Applications – (275+50 Total)
  - 53 eGIS Owned to Instant App
  - 12 eGIS Owned to Experience Builder



## Desktop/ArcGIS Pro

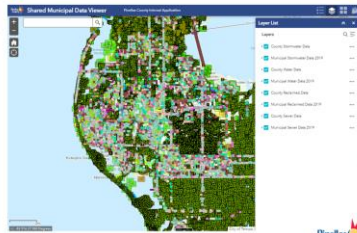
- **Uninstall Old Software**
  - Remove ALL ArcMap – (10 total licenses effective April 2025)
    - Except 5 Utilities Editors
    - Except 5 Public Works
    - Except Property Appraiser's Office (will remove by April 2025)
- **Upgrade ArcGIS Pro**
  - 3.0.1 and 2.9.1 to 3.3 or newer
- **Assigning ArcGIS Pro Licenses**





## Municipal Data Update/Data Sharing Technology

- Update Water, Sewer, Reclaimed, and Stormwater infrastructure data
- Leverage technology solutions to link to data instead of using static copies
- Current ArcGIS Online project to make County data available



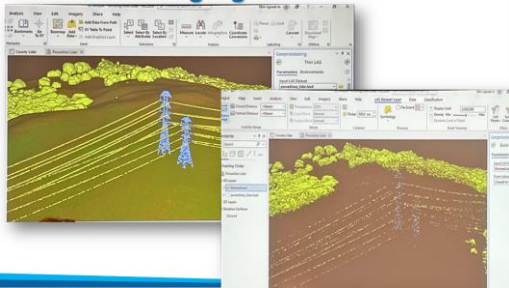
## Esri UC 2024

- eGIS
  - April Klimkoski
  - Jason Clemis
  - Jamie Munro
- Solid Waste
  - Jared Ritch
- SES
  - Morgan Pyle
- Utilities
  - Shane Gendron
  - Matt Miller
  - Gunner Mitchell
  - Veronica De Bernardo
  - Alyssa Thompson
- PCSO
  - Samantha Mendenhall



## Esri User Conference Highlights

- Lidar



## Esri User Conference Highlights

- Lots of Cool Tools!
- GIS Data Maintenance Process
- ArcGIS Server Resource Tuning
- GeoAI Models
- Microsoft Fabric



## GIS Conferences - Upcoming

- Esri Infrastructure Management Conference (1)
  - Palms Springs CA, from October 22-24



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## Open Discussion



## Next Meeting/Adjournment



### Working Group Meetings:

- September 26, 2024
- October 24, 2024
- November 21, 2024
- December 19, 2024
- January 23, 2025

### Steering Committee Meetings:

- September 5, 2024
- December 5, 2024
- March 6, 2025
- June 5, 2025