# eGIS Steering Committee Meeting Minutes March 23<sup>rd</sup> 2023

10:31am – 11:38am 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 Jeremy Waugh – Office of Asset Management Marc Gillette – Supervisor of Elections - ABSENT Tom Almonte – Assistant County Administrator – ABSENT

### **Attendees**

Joe Borries - Emergency Management Jeremy Capes - Utilities Marcia Colby – Public Works Renee Duffey - Emergency Management Allison Goldberg - Business Technology Services/eGIS Edin Grimaldo - Office of Asset Management Michael Howsare – Development Review Services Terry Jiang – Business Technology Services/eGIS April Klimkoski – BTS/eGIS James McDermott - Administrative Services Jamie Munro - Business Technology Services/eGIS Gregg Obarski – Business Technology Services/eGIS Jeff Rohrs – Business Technology Services Alan Shellhorn - Planning Arenee Smith - Public Works Bryan Zumwalt – Business Technology Services

Thuyen Buendia – Business Technology Services/eGIS
Jason Clemis – BTS/eGIS
Kelly Dickie – Business Technology Service/eGIS
Lisa Foster – Public Works
Joseph Goodell – Pinellas County Sheriff's Office
Meilin Haidl – Administrative Services
Belinda Huggins – Business Technology Services
Alvan Karlin – Dewberry PMS
Susan Leverette – Office of Asset Management
Dayne Morris – Development Review Services
Curt Nielsen – Property Appraiser Office
Morgan Pyle – Safety & Emergency Services
Dapo Satiregun – Business Technology Services/eGIS
Nicole Sokolowski – Supervisor of Elections
Toni Smith - Business Technology Services/eGIS

# Agenda

- 1. Call to Order
- 2. Welcome and Introductions
- 3. Citizens to be Heard
- 4. Approval of Minutes from the June 2<sup>nd</sup>, 2022 meeting
- 5. Working Group Presentation
  - a. Aerial Status
  - b. LIDAR Decision Package VOTING ITEM
  - c. GIS Project Overview
  - d. ESRI Engagement Overview
  - e. Esri Conferences & Training
- 6. Open Discussion
- 7. Adjournment

# Call to Order

The meeting was called to order at 10:31am by Mike Twitty. There is a quorum today.

### Citizens to be Heard

The opportunity was offered for citizens to make comments. None were present.

### Approval of Minutes

Mike Twitty asked for motion to approve the minutes for the June 2<sup>nd</sup>, 2022, meeting.

Motion to approve from Jason Malpass, seconded by Jeremy Waugh, all in favor. Minutes approved.

## **Working Group Presentation**

### **Aerial Status**

The 2023 aerials were captured mostly during the month of January, no delivery date as of yet. For the new 2024-2029 aerial contract, a subset of individuals from the EGIS Working Group is working on finalizing the RFP for release through Purchasing.

# LiDAR Decision Package - VOTING ITEM

The goal is to acquire updated LiDAR for the county. LiDAR, which is Light Detection and Ranging, is a remote sensing method that uses light in the form of a pulsed laser to measure ranges (variable distances) to the Earth. There are many uses for this data around the county, from Floodplain, Stormwater, Coastal, Urban Forestry and Watershed Management to 3D Buildings. Jamie gave some background on the previous LiDAR flown for the County. The most recent projects being from 2016 and 2019. The 2016 data was County sponsored with very detailed LiDAR capture, using cutting edge technology at the time. Although SWFWMD has concerns with the positional accuracy, the County stakeholders prefer this older data over the newer 2019 Statewide data. The 2019 Statewide project collected fewer measurements per square meter and the County prefers to use the older 2016 information whenever possible because the older data provides a greater level of detail due to the much denser point capture.

Lisa Foster, Floodplain Manager from Pinellas County, spoke about the importance of update LiDAR is for many county projects especially the Watershed Management Plan and Floodplain Management, which helps the county with the Community Rating System and the discounts county residents can receive on insurance.

The County discussed a potential 2024 LiDAR for our area with SWFWMD and they indicated both Hillsborough and Pasco Counties may be interested in a similar project. eGIS then reached out to Hillsborough County and found they were working with Dewberry to submit for a USGS grant opportunity for the LiDAR project. The County reached out to Pasco County but has not found interest (which may be due to not finding the right stakeholder). So, at this time, the County would like to pursue a Tampa Bay area LiDAR project that includes both Hillsborough and Pinellas Counties. BTS has had conversations with both Hillsborough and Dewberry (the contractor helping Hillsborough with the USGS grant application). Alvan Karlin from Dewberry was present during the meeting and answered some questions about the USGS grant program. Alvan explained in the meeting how they help with aligning with the USGS funding opportunity. Alvan also gave some information on the 2016 LiDAR flight compared to the 2019 Statewide and USGS LiDAR requirements. Dewberry provided a \$400,000 estimate for a countywide LiDAR project that had the accuracy requirements of the Statewide project and the detail of the 2016 County project. If USGS participates with the grant it could reduce that amount by around \$80,000. In addition to contributing funds, USGS would perform the QC on most of the LiDAR deliverable and would host the data making it publicly available. The question was raised as if this new LiDAR data would have all the information as the 2016 and the answer was yes, but that some of the data would be the county's responsibility for QC. The eGIS Working Group is seeking the recommendation of a budget request to support a LiDAR project today, that recommendation would then go to the BTS Board on April 17<sup>th</sup> for review, and possibly onto the County Commissioners in September for budgetary approval. USGS awards these grants in October and LiDAR collection could begin as early as December 2024.

### Pinellas County GIS FY2024 LiDAR Procurement – Vote

Motion: Jeremy Waugh motioned for recommendation to update the County LiDAR data with a total project cost not to exceed \$400,000 to be included in the BTS FY2024 budget request.

Motion seconded by: Jason Malpass

All in Favor.

# **GIS Projects Overview**

Emergency Management projects for Hurricane Preparedness and Damage Assessment were highlighted, as well as deprecating and updating some Pinellas County Sheriff applications. eGIS is working on a plan to upgrade the Server Software to hopefully be completed this summer.

### **ESRI** Engagements

Utility Network – Working closely with Utilities to replace the Geometric Network and leverage the Utility Network, therefore moving to ArcGIS PRO. Also engaging with Public Works Stormwater on data readiness for the Utility Network.

ArcGIS Indoors – Working with Department of Administrative Services, creating a Pilot Space Planner Project for Criminal Justice Center.

ESRI Architecture Review – Workshops have already been held to review the enterprise GIS server/data architecture. Currently, workshops are being held with PAO to review their GIS architecture.

GIS Monitoring Server – Setting up Esri monitoring software to become more proactive of detecting issues with GIS servers and services. April/May time completion.

ArcGIS Urban – Working with Housing and Community Development and Forward Pinellas on the use of this GIS planning tool for the departments. Possible future initiatives may include crowdsourcing interactions with the public.

# **ESRI Conferences & Training**

ESRI Developer Summit was held earlier this month and one team member from eGIS attended.

The ESRI Southeast User Conference is in Atlanta on April 18<sup>th</sup> & 19<sup>th</sup>. The County receives 10 complimentary passes from Esri for this conference. All passes have been allocated. Jason Clemis (eGIS) and Morgan Pyle (SES) may be presenting the County implementation of the Esri Address Management Solution.

The ESRI Annual User Conference is in San Diego from July  $10^{th} - 14^{th}$ . So far, 16 of the 25 complimentary passes have been assigned so there are more available if somebody wanted to attend this conference.

A new conference which could be beneficial to some of the asset management departments is the ESRI Infrastructure Management conference in Palm Springs October 10<sup>th</sup> -12<sup>th</sup>.

An instructor led Migration to ArcGIS PRO class is being held virtually on April 4<sup>th</sup> & 5<sup>th</sup> with 15 county attendees. This is the fifth time (likely the last) hosting this class in preparation for migration to ArcGIS PRO.

Also, an instructor led Location Analytics using ArcGIS Insights class is scheduled for April 17<sup>th</sup> & 18<sup>th</sup>, which is ESRI's version of Microsoft PowerBI, with 15 county attendees. This is the second time county has hosted this class.

# **Open Discussion**

Mike Twitty asked the committee members and attendees how they felt about having some of the upcoming meetings in person instead of virtual. Jeremy Waugh said they have currently been utilizing a hybrid approach of every other meeting being held in person, which has been working great. Jeremy Capes also said that they are looking to do working group meetings in person every other month or so.

# Remaining Meeting Schedule for 2023

Working Group Meetings: April 13<sup>th</sup>, May 11<sup>th</sup>, June 8<sup>th</sup>, July 13<sup>th</sup> (most likely cancel or reschedule due to ESRI conference), August 10<sup>th</sup>.

Steering Committee Meetings: June 1st – will be in person, September 7<sup>th</sup> (tbd), December 7<sup>th</sup> (tbd).

# Adjournment

Meeting adjourned at 11:38am. Jeremy Waugh motioned to adjourn; Mike Twitty seconded. The next meeting is scheduled for June 1st and will be in person, location to be determined.

# **PowerPoint Presentation**

# **Pinellas County Enterprise GIS**

GIS Steering Committee Meeting March 23, 2023



### **Agenda**

- Call to Order
- Welcome & Introductions
- Citizens to be Heard
- · Approval of minutes from the June 2<sup>nd</sup>, 2022 Meeting
- Working Group Presentation
  - GIS Projects Overview (Munro)
  - · Esri Engagement Overview (Munro)
  - Aerial Status (Munro)
  - LiDAR Decision Package VOTING ITEM (Munro/Capes)
  - Esri Conferences & Training
- Open Discussion
- Adjournment



### **Agenda**

### Proposed reordering of remaining agenda...

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### **Aerial Status Update**

- 2023 Aerials
  - January Capture Complete
  - February/March Touch Ups Complete
- 2024 Aerial RFP
- Curt Nielsen, Jared Phillips Greg Duque, Terry Jiang, April Klimkoski, Daniela McDougall, Renee Duffey, and Joe Borries
- · Finalize RFP Release with Purchasing



### **LIDAR Overview**

Lidar, which stands for Light Detection and Ranging, is a remote sensing method that uses light in the form of a pulsed laser to measure ranges (variable distances) to the Earth.



Floodplain Management Stormwater Management Coastal Management Urban Forest Management Watershed Management Countywide DEM

Compliance with USGS 7 Year Req. Compliance with SWFWMD Req. Assist 3D Building Basemap Updates Assist 3D Condominimum Updates Future Fusion with Terrestrial LiDAR Other...

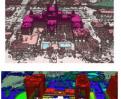
# **LIDAR - Previous Projects**

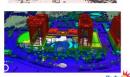
2007 - Previous Countywide LiDAR project.

2016 – County sponsored project with detailed LiDAR capture. Have had troubles using with SWFWMD despite the data being better than other available data.

<u>2019</u> – Statewide project with less detailed LiDAR (USGS requirements). While the data is newer, it does not depict as accurately as the 2016 project.

<u>2020</u> – Additional derivatives were created by SWFWMD from the 2019 Statewide project.

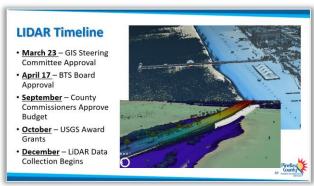




LIDAR - County 2016 Project



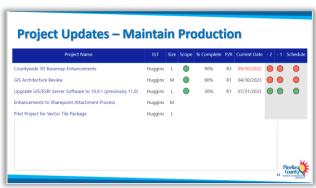


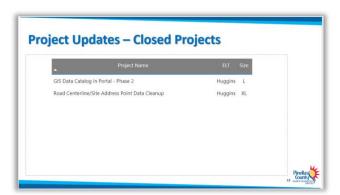


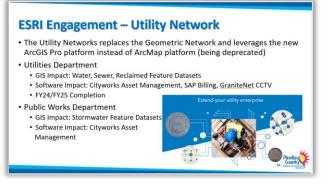












# **Esri Engagement - ArcGIS Indoors**

- ArcGIS Indoors location technology provides visibility into asset locations, patterns of use, and analytics to understand spaces and find smarter ways to interact with our built environments.
  - Space Planner
  - · Workspace reservation functionality
  - Maps Indoors kiosk web man
  - Indoors viewer web app
     Indoors mobile for IOS and Android

  - Adds "blue dot" location to the Indoors mobile app for IOS, Android, Field Maps, and Runtime apps



- DAS/Facilities Pilot Space Planner of Criminal Justice Center
- Emergency Management Pilot for Shelter Management



### **ESRI Engagement – Architecture**

- The Esri GIS System Architecture engagement reviews current system architecture and makes recommendations for future architecture based on the County roadmap.
- Enterprise Review Project
  - Scope: All Enterprise Architecture, Safety & Emergency Services, Sheriff
- · PAO Review Project
  - · Scope: Property Appraiser's Office Architecture, and Some Enterprise Architecture Overlaps





## **ESRI Engagement – GIS Monitoring Server**

- Dedicated GIS Server
- · Proactive detection of issues
- · Monitoring of the GIS servers and services beyond typical server monitoring tools
- · Analyze GIS performance over time and tune configuration
- Status: April/May Completion





### **ESRI Engagement – ArcGIS Urban**

- Issues like housing availability, sustainability goals, and economic changes are compelling cities to better plan for the future. ArcGIS Urban enables planners and design professionals to collaborate across teams with a web-based 3D application that supports scenario planning and impact assessment. impact assessment
- Housing and Community Development
- Forward Pinellas
- Scope: ArcGIS Urban Initial Operating Capability and Additional Ad Hoc Consulting
- Status: Ongoing Ad Hoc Consulting



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    • Esri Conferences & Training
- Open Discussion Adjournment
- Pinellas County

### **GIS Conference Awareness**

- Esri Developer Summit
  - . This Month!
  - Palm Spring CA
- · Esri Southeast User Conference
  - April 18 to 19
  - · Atlanta GA
- Esri User Conference
  - July 10 to 14 • San Diego CA
- Esri Infrastructure Management Conference
  - October 10 to 12
- Palm Springs CA





### GIS Conference Awareness – By the Numbers

- Esri Developer Summit
  - BTS 1
- · Esri Southeast User Conference
  - BTS (2/3)
  - Public Works (5/8)
  - Utilities (1/1)
  - Property Appraiser's (2/2) • Emergency Management (0/1)
  - Safety & Emergency Services (1/1)







### GIS Conference Awareness – By the Numbers

- Esri User Conference 16 of 25 Passes
  - · BTS (5)

  - · Solid Waste (1) • DAS (1)
  - . OAM (1)
  - Utilities (5) · SES (1)
- · PCSO (1)



- Esri Infrastructure Management Conference









