eGIS Steering Committee
Meeting Minutes
December 7th, 2023
1:30pm – 2:56pm
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

Jared Austin – Forward Pinellas
Rachel Blank – Utilities
Jason Clemis – Business Technology Services/eGIS
Allison Goldberg – Business Technology Services/eGIS
Jordan Hudzicki – Public Works
Joshua Kirchmann – Solid Waste
Susan Leverette – Office of Asset Management
Jackie Newell – Utilities
Jeff Rohrs – Business Technology Services
Matt Smith – Tarpon Springs
Annette Zarucki – Public Works

Emilly Baechle – Parks & Conservation
Thuyen Buendia – Business Technology Services/eGIS
Kelly Dickie – Business Technology Service/eGIS
Edin Grimaldo - Office of Asset Management
Terry Jiang – Business Technology Services/eGIS
April Klimkoski – Business Technology Services/eGIS
Jamie Munro - Business Technology Services/eGIS
Gregg Obarski – Business Technology Services/eGIS
Dapo Satiregun – Business Technology Services/eGIS
Anna Williams – Parks & Conservation

Agenda

1. Call to Order
2. Welcome and Introductions
3. Citizens to be Heard
4. Approval of Minutes from the September 7th, 2023, meeting
5. Working Group Presentation
   a. GIS Projects Overview
      i. 2023 Year in Review
   b. GIS Contracts Overview
      i. Esri Amendment - DISCUSSION
      ii. Aerial Status
      iii. LIDAR Status
      iv. StreetMap Premium Status
      v. Network Fiber Management

6. Open Discussion
7. 2024 Meeting Schedule
8. Adjournment

Call to Order
The meeting was called to order at 1:41pm by Mike Twitty.

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 September 7th, 2023, meeting.
Motion to approve from Jason Malpass, seconded by Jeremy Waugh, all in favor. Minutes approved.

Working Group Presentation
GIS Projects Overview

Jamie Munro announced Jeremy Capes is no longer with the county. Jared Austin is new chair for the working group committee. Jamie proceeded with the year in review highlights and the year ahead look.

Year in review:
- Esri GIS Software Upgrades
- Kudos to the team involved in SES upgrade.
- 3D deliverables – countywide 3D buildings
- Esri engagements – used credits to kick off some initiatives.
    - ArcGIS Urban
    - Utility Network
    - GIS architecture - SME from Esri came in to look at SES/Sheriff's Office infrastructure.
    - Indoors - pilot project with CJC wrapping up.
- Esri insights – there were two classes, trained about 30 county staff across the board on how to use the tool. More to come next year.
- Storm Management – Emergency Management, Facilities, Utilities, Public Works, Sheriff's Office
- Sheriff's Office Applications – building dashboards for special events such as Valspar, Quickapp and Crime Fighter moved off older technology to new technology, VCC Storm Project Workforce
- Address management solution – EGIS worked with SES and adopted the Esri management solution. This was presented at the Esri southeast UC to present our work there and lessons learned.

The year ahead:
- Deprecate old ArcMap desktop software
- Move applications to Experience Builder
- Prepare organization move to ArcGIS Online
- Esri + Microsoft Products - Last 18 months – lots of Microsoft / Esri integration stuff at UC
- New for next year – LiDAR data collection, Fiber Mapping, Computer Aided Dispatch, Know Your Zone, CrimeViewer

Jamie asked if anyone had any questions or anything else to bring up. Jeremy Waugh asked about integration between Microsoft BI and Esri Insights and how that is going. Jamie responded that they are two different tools, and there is a use for each in certain situations.

GIS Contracts Overview

Esri Amendment

Jamie went over contract amendment with current contract. The 5-year contract is set to expire April 2025, which had an annual fee of $945k. Even though Desktop license says uncapped for quantity, it's based on 90 users. As a whole, the county probably has 400 to 500 GIS desktop installations of the software. We are currently running an analysis on the usage and working with the different departments to see who are actually using the software. The Enterprise Portal has 2500 users, whereas ArcGIS Online has a limit of 500 users.

In looking at the SaaS & Cloud Approach, we could be shifting user licenses from on premise to Esri hosted ArcGIS Online. This offers up to 99.9% uptime and will reduce our enterprise servers and licensing because less servers will need to be maintained. The anticipation for this shift is to see the cost come down on server licensing and infrastructure cost. Most of the remaining servers would then be moved to the cloud. Jackie Newell asked if this would remove the need for remote desktops. Jamie replied yes are possibilities to leverage technologies such as AppStream2 that would host a virtual desktop through AWS that streams just the ArcGIS Pro application to your computer. But, before we get there, we have to get our servers into the cloud.

Innovative solutions – Esri will handle the upgrades and has the schedules. Always running the latest version. ArcGIS Online has our biggest datasets. This is an 18 month – 2-year goal but is the direction we're heading.

Jamie went over the contract amendment comparison. For Data storage we have purchased a dedicated storage (M1 current) which is faster than ArcGIS Online. Looking to try and incorporate the M4 data storage into the next contract so we have the best available performance and more room for the extra data that we'll be putting up in ArcGIS Online too. Looking to do a 5-7-year contract and we are trying to prevent annual costs exceeding $1M. Desktop licenses are moving to a named user licensing model. Server licenses will decrease as we reduce our on-premises footprint. There will be a significant increase in ArcGIS Online subscriptions as we move users from on-premises servers to the Esri SaaS offering. Some A la carte pricing for the Esri enterprise advantage program is being requested in case any department would like additional dedicated support from Esri. Next steps will be getting deployment reports to Esri and negotiating a contract amendment using those numbers. The plan is to be back in front of committee in March with that contract and asking for support as the FY25 budget talks are happening.

AERIAL STATUS

The 2023 3" orthos and obliques are published on the County GIS servers now.   It is recommended to use the following URL in your projects (instead of the file geodatabase on the County network drive):
        https://egis.pinellas.gov/gis/rest/services/Aerials/Aerials2023/ImageServer
The 6" orthos with CIR coming from SWFMD have been delivered and are being published.

The 2024 to 2029 Aerial RFP is moving forward with the vendor GPI. It is a 5-year contract anticipating about $250k annually. This RFP is scheduled for the BCC meeting on 1/16/24 for approval. The $197k orthos that we got did not comply, but these new ones do comply with for (the price of inflation).

LiDAR Status

On November 30th, the USGS had recommended the Pinellas County project funding. There is still a need to establish an agreement between Pinellas County and USGS. We want to fly during this wintertime, but we don't have the contract in our hands yet. There is a road ahead but not sure if we can meet that window. This is a collaboration effort with Hillsborough and Pasco counties. Jeremy Waugh asked for Jamie to explain the numbers on LiDAR status slide. Jamie went over the BTS budget original request. We may be paying about 60% or 70% of the estimated $308k since USGS will be doing a cost share. It's difficult to know the exact cost share because USGS typically shares 50/50 for a lower resolution deliverable (not the high resolution the County needs).

Esri Streetmap Premium

This is no longer an ARPA project, took those funds and put that into the SES budget. Only interest is the $100k for the software.

Network fiber management

This is still an ARPA funded project. It was approved by the BCC in October of 2023. A kickoff meeting will be scheduled shortly between BTS, Public Works, and the software vendor 3GIS to commence work on the project. The project cost is about $180k and the remaining $150k is scoped as owner directed to support the project.

Open Discussion

Jamie went over upcoming GIS conferences and asked everyone to send a list of who each department would like to go to the different conferences in 2024. Jeremy Waugh asked if the passes to conference are written in the contracts and will the 2025 contract be more evenly distributed between all the different conferences. Jeremy thought more people should go to the Infrastructure Management conference instead of the UC. Mike Twitty asked if the credit allocations can be distributed differently and be more flexible with this. Jamie said we get 200 credits every year, and they usually go first to kickstart projects for the different departments. We use credits for training classes, such as the Migration to ArcGIS Pro and Insights training. There was a lengthy conversation about credits usage and Jason Malpass would like to see in new contract some flexibility with the credit usage for conferences.

Emilly Baechle asked about the portal, since everyone was asked to use that more, are we pulling back on that and going back to ArcGIS Online? Currently we will continue to develop applications using the Enterprise Portal because that is where most of our user licensing exists. The County has tools that assist with moving content between the Enterprise Portal and ArcGIS Online. So, when we get more licensing in ArcGIS Online, we will be able to move the users and the content too.

Meeting Schedule for 2024

The 2024 Steering Committee meetings will be March 7th, June 6th, September 5th, and December 5th. Invites will be sent out soon.

Adjournment

Meeting adjourned at 2:56pm. Mike Twitty motioned to adjourn; Jason Malpass seconded.

Slide 1:

Pinellas County
Enterprise GIS

GIS Steering Committee Meeting
December 7, 2023

Pinellas County (logo)

Slide 2:

Agenda

- Call to Order
- Welcome & Introductions
- Citizens to be Heard
- Approval of minutes from the September 7th, 2023, Meeting

- Working Group Presentation
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    - i. 2023 Year in Review
  - b. GIS Contracts Overview
    - i. Esri Amendment - DISCUSSION
    - ii. Aerial Status
    - iii. LIDAR Status
    - iv. StreetMap Premium Status
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Slide 3:

Agenda

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Slide 4:

Year in Review – Esri GIS Software Upgrades

Goal: Upgrade Esri environment to 10.9.1 or 11.1 Esri version.

- Enterprise GIS
  - Upgrade from 10.8.1 to 10.9.1 & 11.1
- Enterprise Asset Management
  - Upgrade from 10.8.1 to newer version will be planned after Cityworks is upgraded. Currently Esri is at latest version supported by Cityworks.
- Sheriff's Office
  - Upgraded from 10.8.1 to 10.9.1
  - Planning upgrade to 11.2
- Safety & Emergency Services
  - Upgraded from 10.6.1 to 10.9.1
  - **New servers and improved architecture too**
- Property Appraiser's Office
  - Planning upgrade of desktop software, servers are at 10.8.1 version
- PRIME
  - New environment upgraded from 11.1 to 11.2

Slide 5:

Year in Review – Countywide 3D Buildings

Slide 6:

Year in Review – Esri Engagements

ArcGIS Urban · Utility Network · GIS Architecture · Indoors

Slide 7:

Year in Review – Esri Insights

Slide 8:

Year in Review – Storm Management

Facilities · Sheriff's Office · Emergency Management · Public Works · Utilities

2,945

Slide 1: Year in Review – Sheriff's Office Applications

Valsper Operation Dashboard

Crime fighter Application

Quickapp

VCC Storm Project Workforce

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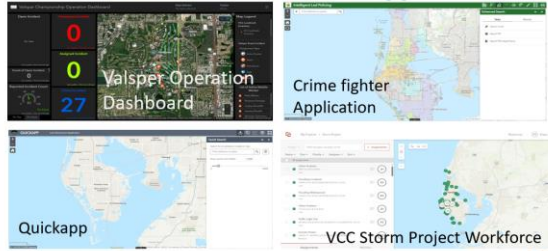
Slide 2: Year in Review – Address Management Solution

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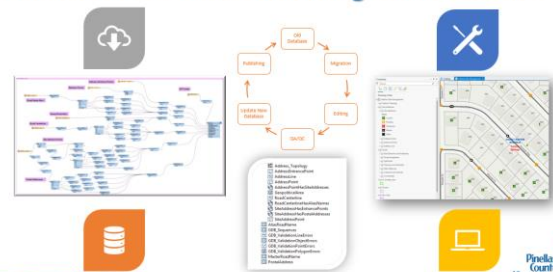
Slide 3: The Year Ahead...

- Move applications to Experience Builder platform
- **Prepare organization for movement to ArcGIS Online**
- Deprecate old ArcMap desktop software
- **Esri + Microsoft Products**
- New LiDAR data collection
- New Fiber Mapping
- New Computer Aided Dispatch
- New Know You Zone
- New Crime Viewer

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Slide 4: Agenda

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Slide 5: Esri Contract Amendment – Current Contract

- Term: April 24, 2020, to April 23, 2025 (5 years)
- Fee: $945,000 Annually

Item	Quantity	Comments
Desktop Licenses	Uncapped	Based on 90 Users
Server Licenses	Uncapped	
Enterprise Portal	Uncapped Viewer 2,500 Creator	
ArcGIS Online Subscription	250 Creator 250 Field Worker	
ArcGIS Online Premium Data Store	Purchased in 2023	
Esri Enterprise Advantage Program	One Annual Subscription	

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Slide 6: Esri Contract Amendment – SaaS & Cloud Approach

- Shift user licensing from on premise to Esri hosted ArcGIS Online (AGOL)… offers 99.9% uptime
- Reduce Enterprise Servers and licensing… less servers to maintain
- Move remaining Enterprise Servers to Cloud and leverage server scaling technologies… only pay for the resources that are need
- Leverage Cloud technologies to host GIS desktop software… run GIS on any computer and improved performance
- Innovative Solutions… always running the latest version allows the County to deploy the latest solutions

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Slide 7: Esri Contract Amendment – Comparison

Item	Existing Contract	Future	Comments
Term	5 years	5 or 7 years	
Fee	$945,000 annually	$xxx,000 annually	
Desktop Licenses	Uncapped	Name User	Calculation
Server Licenses	Uncapped	Decrease	Over 100 Servers today
Enterprise Portal	Uncapped Viewer 2,500 Creator	Significant Decrease	Movement to SaaS
ArcGIS Online Subscription	250 Creator 250 Field Worker	Significant Increase	Movement to SaaS
ArcGIS Online Premium Data Store	Annual Purchase not included in contract.	Included	M4 instead of M1
Esri Enterprise Advantage Program	One Annual Subscription	à la carte	Utilities & PCSO

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Slide 8: GIS Contracts - Aerial Status

- 2023 Aerials – County Project
  - Published to Server in August
  - 3" Ortho + Oblique
  - https://egis.pinellas.gov/gis/rest/services/Aerials/Aerials2023/ImageServer
- 2023 Aerials – Regional Project with SWFWMD
  - Delivered and eGIS Team Publishing Service
  - 6" Orth with CIR
- 2024 to 2029 Aerial RFP
  - Vendor: GPI
  - 5 Year Contract (anticipate $249,000 annually)
  - Scheduled for BCC Meeting on 1/16/2024

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GIS Contracts – GPI Contract

- 2024 to 2029 Aerial RFP
  - Vendor: GPI
  - 5 Year Contract (anticipate $249,000 annually)
  - Scheduled for BCC Meeting on 1/16/2024

- Contract Services (Ortho included CIR)
  - $249k – 3" Ortho & Oblique
  - $136k – 3" Ortho
  - $113k – 4" Ortho
  - $70k – 3D Mesh

LiDAR Status

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

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

Next Steps:
- **NEW** – On Nov 30, USGS has recommended the Pinellas County project funding
- Working to establish agreement with USGS

GIS Contracts – Esri StreetMap Premium

- No Longer ARPA Funded Project
- Budget: $900,000
- Status:
  - Routing Software – Esri was the only respondent to RFP for StreetMap Premium. Although, we may not need the RFP since this is no longer an ARPA project and the software can be acquired under the existing Esri contract. Currently working to obtain ArcGIS server requirements to support the Hexagon application.
  - Realtime Data – Need to understand Hexagon application workflows to see if this is even something of interest.
  - Routing Data Updates – Not being pursued at this time.

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
- Vendor: 3GIS Inc.
- Status: Approved by BCC 10/17/2023. Looking to schedule kickoff meeting soon.

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GIS Conferences

- Esri Developer Summit
  - Palm Springs CA, from March 12-15
- Esri Southeast User Conference
  - West Palm Beach FL, from April 3-4
- Esri Safety & Security Summit
  - San Diego CA, from July 13-16
- Esri User Conference
  - San Diego CA, from July 15-19
- Esri Infrastructure Management Conference
  - Palms Springs CA, from October 22-24

Open Discussion

Next Meeting/Adjournment

Working Group Meetings:
- January 11, 2024
- February 8, 2024
- March 14, 2024
- April 11, 2024
- May 2, 2024
- June 13, 2024

Steering Committee Meetings:
- March7, 2024
- June 6, 2024
- September 5, 2024
- December 5, 2024