<div align="center">

eGIS Steering Committee
Meeting Minutes
September 7th, 2023
1:30pm – 2:33pm
Facilitator – Jamie Munro, GIS Manager

</div>

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
Jeremy Waugh – Office of Asset Management - ABSENT

Attendees

Smita Ambadi – Planning	Emilly Baechle – Parks
Thuyen Buendia – Business Technology Services/eGIS	Jeremy Capes – Utilities
Jason Clemis – BTS/eGIS	Kelly Dickie – Business Technology Service/eGIS
Jamie Frank – Public Works	Allison Goldberg – Business Technology Services/eGIS
Edin Grimaldo - Office of Asset Management	Belinda Huggins – Business Technology Services
Terry Jiang – Business Technology Services/eGIS	April Klimkoski – BTS/eGIS
Susan Leverette – Office of Asset Management	Jamie Munro - Business Technology Services/eGIS
Curt Nielsen – Property Appraiser Office	Gregg Obarski – Business Technology Services/eGIS
Jared Phillips – Public Works	Morgan Pyle – Safety & Emergency Services
Jeff Rohrs – Business Technology Services	Oladapo Satiregun – Business Technology Services/eGIS
Alan Shellhorn – Planning	Matthew Smith – City of Tarpon Springs
Toni Smith - Business Technology Services/eGIS	Nicole Sokolowski – Supervisor of Elections
Jacob Stephen – Supervisor of Elections	Scott Stillwell – Public Works
Tasha Thomas – Human Services	Anna Williams – Parks
Bryan Zumwalt – Business Technology Services	

Agenda

1. Call to Order
2. Welcome and Introductions
3. Citizens to be Heard
4. Approval of Minutes from the March 23rd, 2023, meeting
5. Working Group Presentation
   a. GIS Contracts Overview
      i. Aerial/LIDAR Status
      ii. StreetMap Premium Status
   b. GIS Projects Overview
      i. ESRI Software Upgrades
      ii. 3D Project - **DEMO**
   c. Hurricane Idalia Support Recap
   d. ESRI Conference Trends
6. Open Discussion
7. Adjournment

Call to Order

The meeting was called to order at 1:30 pm 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 March 23rd, 2023, meeting.
Motion to approve from Marc Gillette, seconded by Jason Malpass, all in favor. Minutes approved.

Working Group Presentation

GIS Contracts Overview

Aerials Status –

- A new certified copy of the 2023 aerials were received in August and have been updated in the database and a service has been created for usage as well which is encouraged to be used.
- For the Regional Project for the 2023 Aerials with SWFWMD, anticipated delivery is scheduled for mid/late September.
- The 2024 to 2029 Aerial RFP has been advertised and scored.

LIDAR Status –

- Continuation of the collaboration effort with Hillsborough and Pasco counties with the USGS.
- Next step is going before the County Commissioners in September to approve the budget.

StreetMap Premium - Status

This is an ARPA funded project which has a budget of $900,000 and needs to get started before December 2024. Working on releasing an RFP/Bid to purchase and develop. Safety and Emergency Services are currently using a version of this, but it has some limitations.

IT Fiber Management - Status

This is an ARPA funded project which has a budget of $330,000. It is scheduled for BCC approval on 10/17/2023 and the vendor will be 3GIS Inc.

GIS Projects Overview

The projects overview was shown currently with 2 projects on the list.

ESRI Software Upgrades –

- Enterprise GIS upgraded from 10.8.1 to 10.9.1 & 11.1 was completed in July.
- Pinellas County Sheriff's Office upgraded from 10.8.1 to 10.9.1 was completed in May. Will look to upgrade to 11.1 sometime this winter.
- Enterprise Asset Management upgrade from 10.8.1 to newer version will be planned after the Cityworks upgrade. Currently ESRI is at the latest version supported by Cityworks.
- Pinellas County Property Appraiser's Office will be planning upgrade of desktop software, servers are currently at 10.8.1 version.
- Safety and Emergency Services are upgrading from 10.6.1 to 10.9.1 this fall.
- PRIME new environment is setup using ESRI 11/1 version.

ESRI Software Deprecations –

- July 2024 – Web Application Builder Developer and Java Script 3.x API. There are less than 12 applications affected by this, such as Know Your Zone, WebGIS, Crimeviewer.
- Q4 2025 – Web Application Builder. There are 300 plus applications currently in ArcGIS Online affected by this, such as All-In-One Flood Viewer, Pavement Preservation, My Flood Risk. Two ESRI instructor led classes are scheduled in October to help with this transition.

3D Project – DEMO

April Klimkoski from the eGIS team gave a demo on the 3D Building project. April began by giving some background on the project with the source data being the 2016 LIDAR and the county building footprints. From there, ESRI created the 3D data of over 350,000 3D buildings. April demonstrated how to bring the 3D data into an Arc Scene and show the data with different special effects. The next step for this data is to help the stakeholders leverage the data, adding attributes to the data (such as parcel ID), integrate Property Appraiser data, incorporating other layers with Z-height components (such as Utilities, Trees), 3D Mesh, and mass updating new buildings.

ESRI Conference Trends

This year's ESRI User Conference in San Diego saw a total of 16 attendees. Of those that attended here are some highlights:

- AGOL Recycle Bin
- Oriented Imagery Viewer
- New X-Ray Tool
- Administrative Tags
- ArcGIS for Microsoft 365
- New Application Solutions
- 3D
- ArcGIS Reality Engine
- SARCOP Local (Search and Rescue Common Operating Platform) which uses QuickCapture, Dashboard and Viewers
- Waze for Cities Crisis Response
- Dashboards and Experience Builder
- Utility Network and ArcGIS Pro + AutoCAD Civil 3D Integration
- Indoors

Hurricane Idalia Support Recap

Support for the past Hurricane Idalia spread into many different departments as some application used were shown. Public Works and Utilities have their own Operations dashboards they utilize during storms. Department of Administrative Services created a new dashboard this year for county building inspections after a storm. The Sheriff's department integrated a dashboard with their Virtual Command Center. Know Your Zone, Damage Assessment and Pelican were being utilized by Emergency Management and the public.

Open Discussion
Mike Twitty thanked all for the take aways from the conference and is excited to see the movement in GIS in the years to come.

Remaining Meeting Schedule for 2023

Working Group Meetings: September 14th, October 12th, November 9th and December 14th.

Steering Committee Meetings: December 7th in person at the Pinellas County Extension – 12520 Ulmerton Rd, Largo – Magnolia Room.

Adjournment
Meeting adjourned at 2:33pm.

Slide 1

Pinellas County
Enterprise GIS

GIS Steering Committee Meeting
September 7, 2023

Slide 2

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- Call to Order
- Welcome & Introductions
- Citizens to be Heard
- Approval of minutes from the March 3rd, 2023 Meeting

- Working Group Presentation
  - a. GIS Contracts Overview
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Slide 4

GIS Contracts - Aerial Status

- **2023 Aerials – County Project**
  - **New certified files published in August**
  - 3" Ortho + Oblique
  - https://egis.pinellas.gov/gis/rest/services/Aerials/Aerials2023/ImageServer
- **2023 Aerials – Regional Project with SWFWMD**
  - Anticipated Mid/Late September Delivery
  - 6" Orth with CIR
- **2024 to 2029 Aerial RFP**
  - Advertised 5/12 to 6/13
  - RFP Scored: GPI, Dewberry, Pictometry, Sanborn
  - Review Committee: Curt Nielsen, Jared Phillips, Greg Duque, Joe Borries, Jamie Munro

Slide 5

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 50% (USGS Specification)
- Minimum 20-24 points per sq meter

Timeline:
- ~~**March 23** – GIS Steering Committee Support~~
- ~~**April 17** – BTS Board Support~~
- **September** – County Commissioners Approve Budget
- **October** – USGS Award Grants
- **December** – LiDAR Data Collection Begins

Slide 6

GIS Contracts – Esri StreetMap Premium

- ARPA Funded Project
- Budget: $900,000
- Status:
  - Routing Software - Releasing a RFP/Bid to purchase Esri StreetMap Premium (<$100k)
  - Realtime Data – Working to developing RFP/Bid to purchase service

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 critical spatial data. Enforcement access to critical spatial data.

Slide 7

GIS Contracts – IT Fiber Management

- ARPA Funded Project
- Budget: $330,000
- Vendor: 3GIS Inc.
- Status: Scheduled for BCC Approval on 10/17/2023

Slide 8

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Project Updates – Overview

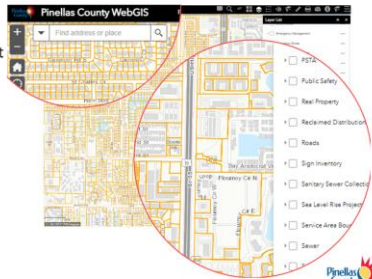- https://pinellasgov.sharepoint.com/sites/ebas-egis

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Project Updates – Esri 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 will be completed in July.
- 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 completed in May. Will look to upgrade to 11.1 sometime this Fall/Winter in order to leverage newer Esri Crime Solutions.
- Property Appraiser's Office
  - Planning upgrade of desktop software, servers are at 10.8.1 version.
- Safety & Emergency Services
  - Upgrading from 10.6.1 to 10.9.1 this Fall.
- PRIME
  - New environment setup using Esri 11.1 version.

Project Updates – Esri Software Deprecation

- **July 2024** - Web Application Builder Developer & JavaScript 3.x API
  - Less than 12 Applications
  - KYZ, WebGIS, PCU GIS, Crime Viewer
- **Q4 2025** - Web Application Builder
  - 300+ Applications in AGOL
  - All-In-One Flood Viewer, Pavement Preservation, My Flood Risk, Red Tide Monitoring
- **Training** – Esri Instructor Led Experience Builder Class (30)
  - October 2/3 & October 25/26

Esri User Conference & Developer Summit

3D Project – Background

- Source Data was 2016 LiDAR & County building footprints
- Project Level of Detail (LOD) 2.5

	Total Buildings	New Buildings	County Footprint No Cleanup	County Footprint Cleanup	LiDAR No Cleanup	LiDAR Cleanup	3D with No Cleanup	3D with Cleanup
Less than 2,000 sq ft	99,972	30,233	X		X		X	
2,000 to 5,000 sq ft	178,018	16,778	X	X	X	X	X	
Greater than 5,000	25,065	1,491	X	X	X	X	X	X

3D Project – DEMO

3D Project – The Road Ahead…

- Help County GIS stakeholders leverage this building data in their applications
- Adding attributes to the 3D data
- Build sustainable workflows to maintain the building data
- Integrate PAO building condominium data with countywide data
- Incorporating other layers with Z-height components (Utilities, Trees, Bridges, Storm Surge, ext.)
- 3D Mesh
- Look to mass update buildings using data from upcoming LiDAR project using ESRI's 3D Solution

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Slide 1 — GIS Conferences
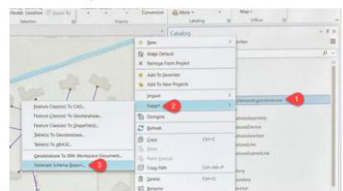
GIS Conferences

- Esri Safety & Security Summit (2)
  - July 8 to 9
  - San Diego CA
- Esri User Conference (16)
  - July 10 to 14
  - San Diego CA
- Esri Infrastructure Management Conference (2)
  - October 10 to 12
  - Palm Springs CA

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Slide 2 — Esri UC 2023 – New GIS Stuff

Esri UC 2023 – New GIS Stuff

- AGOL Recycle Bin
- Oriented Imagery Viewer
- New X-Ray Tool

AGOL Recycle Bin

Oriented Imagery Viewer Widget

Support planned for JS API v4.28 and 11.2 Enterprise

- 360 Imagery
- Video data
- Local Imagery (local drive storage)
- Auto-Switch Mode
- Enable Pop-Ups
- Date Filter
- Digitizing and Editing Features

Future support planned for the integration

- Support for Scene Viewer
- Support for enhanced measurement tools
- Support in Experience Builder, QuickCapture & Excalibur
- …and more

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Slide 3 — Esri UC 2023 – Governance

Esri UC 2023 – Governance

WaTech — Washington Technology Solutions — IMPLEMENTATION

GeoPortal 2.0 — The Solution
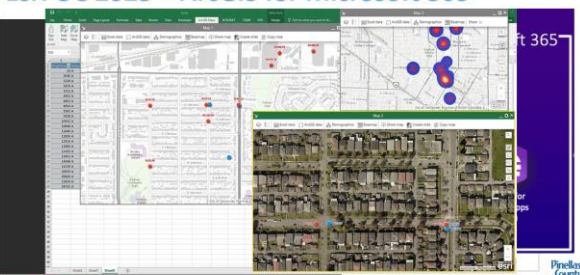
Administrative Tags

--gp2-org-share

--gp2-org-unshare

--gp2-{dnr}-agency-share

--gp2-{group-name}-share

Sharing data to GeoPortal 2.0 shouldn't require GIS administrators from other agencies to have accounts.

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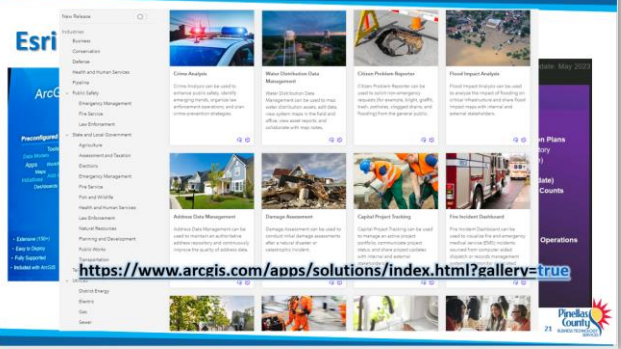## Slide 4 — Esri UC 2023 – ArcGIS for Microsoft 365

Esri UC 2023 – ArcGIS for Microsoft 365

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Slide 5 — Esri (Solutions)

Esri

ArcGIS

Crime Analysis
Water Distribution Data Management
Citizen Problem Reporter
Flood Impact Analysis

Address Data Management
Damage Assessment
Capital Project Tracking
Fire Incident Dashboard

https://www.arcgis.com/apps/solutions/index.html?gallery=true

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Slide 6 — Esri UC 2023 - 3D is the future

Esri UC 2023 - 3D is the future

ArcGIS

3D Capabilities

- Visualizing
- Emergency Evacuations & Storm Surge Risks
- Asset Management
- Operations
- Building Review
- Mapping mesh and design

- 3D Basemaps
- Animated Symbols (3D-OFL)
- Line of Sight
- Floor Awareness
- Heat Maps
- Flood simulation
- Vegetation

- ArcUrban
- Planning
- Land-Use/Zoning
- LIDAR

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Slide 7 — Esri UC 2023 - ArcGIS Reality – Reality Engine

Esri UC 2023 - ArcGIS Reality – Reality Engine

Reality Mapping
Create accurate digital representations of the world

Generate Foundational Content

Accurate and Analysis Ready

Build an Intuitive 3D GIS

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Slide 8 — Esri UC 2023 – SARCOP Local

Esri UC 2023 – SARCOP Local (Search And Rescue Common Operating Platform)

SARCOP Local can be used to geo-enable first responders in the earliest phases of response and for more frequent small-scale incidents.

The **SAR Common Operating Platform** (SARCOP) is used by the National US&R System and hosted centrally for disaster response - hurricanes, floods, tornadoes, earthquakes, and large building collapse incidents.

https://storymaps.arcgis.com/stories/21c9ffe8c4794b739eb74875f1102b2c

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Esri UC 2023 – SARCOP Local Applications

- QuickCapture
  - Allows **first responders** to capture search, damage, hazards, and incident support information. With a few quick taps, information is sent back to the command post for systematic planning and decision-making.
- Dashboard
  - The SARCOP Dashboard allows those in the **Incident Command Post** to quickly scan incoming field data and generate situation reports. With near real-time access to accurate information, decision makers can be more proactive in planning and coordinating rescue efforts.
- Web Map Viewer
  - The Web Map Viewer allows you to quickly view and edit data **(GIS Analyst)** coming in from the field. The web map viewer can also be used to create your own web mapping applications as needed.

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Esri UC 2023 - Waze for Cities Crisis Response

Crisis Response team provides support for crisis events that have had, or are expected to have a significant negative impact on traffic and drivers

- How Waze helps?
  - The team make critical information accessible on the waze map: road closures, emergency shelters and evacuation zones.
  - Sharing of information in advance on Waze templates for road closures (done), shelters and evacuation zones
- Handling Crisis in real time
  - Communication with waze crisis team to activate and share information
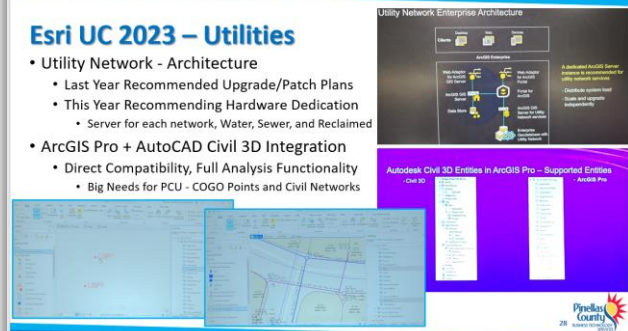

Esri UC 2023 – Solid Waste

- Main goal - The exploration of the Dashboards, Experience Builder and StoryMaps applications due to demand within our department for possible future use.
  - ✓ Takeaway – Dashboard and Experience Builder could possibly be folded into the same application but powerful, nonetheless. Between these applications and others such as Insights and Cityworks Respond we have a solid toolset to analyze and disseminate information in the EAM world.

Experience – The immersion into all things GIS and the incubation of ideas that goes on during the UC is priceless. Even outside of the conference itself, for the whole week everywhere you go in the city you are interacting with GIS professionals constantly. It was an incredible experience and I'm very thankful for the opportunity.
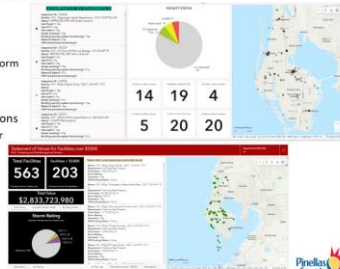
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Esri UC 2023 – Utilities

- Utility Network - Architecture
  - Last Year Recommended Upgrade/Patch Plans
  - This Year Recommending Hardware Dedication
    - Server for each network, Water, Sewer, and Reclaimed
- ArcGIS Pro + AutoCAD Civil 3D Integration
  - Direct Compatibility, Full Analysis Functionality
    - Big Needs for PCU - COGO Points and Civil Networks
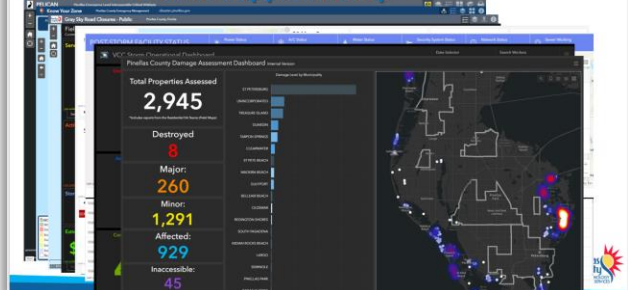
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Esri UC 2023 – DAS Facilities

- Post-storm Assessments
  - Emergency managements sessions
    - DAS currently working on Facility post-storm inspections
      - CW mobile app and report results in a Dashboard
  - Dashboards and Experience Builder sessions
    - Working towards creating risk models for different asset classes
- Indoors
  - Indoors and IPS sessions
    - Pilot project
    - Continue working with Building & Design to improve CAD standards

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Hurricane Idalia Support Recap

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Next Meeting/Adjournment

Working Group Meetings:
- September 14, 2023
- October 12, 2023
- November 9, 2023
- December 14, 2023

Steering Committee Meetings:
- September 7, 2023
- December 7, 2023

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