

eGIS Steering Committee

Meeting Minutes

June 2nd, 2022

1:32pm – 3:08pm

Facilitator – Jamie Munro, GIS Manager

In Attendance

Committee Members

Mike Twitty – Chair – Pinellas County Property Appraiser

Jason Malpass – Pinellas County Sheriff's Office

Marc Gillette – Supervisor of Elections

Tom Almonte – Assistant County Administrator – Absent

Jeremy Waugh – Office of Asset Management – (Newly Appointed)

Attendees

Jared Austin – Forward Pinellas

Catherine Bosco – Public Works

Jeremy Capes – Utilities

Jill DeGood – Pinellas County Sheriff's Office

Renee Duffey – Emergency Management

Tom Lancto – Pinellas County Sheriff's Office

Daniela McDougall – Utilities

Jamie Munro - Business Technology Services/eGIS

Jared Phillips – Public Works

Dapo Satiregun – Business Technology Services/eGIS

Penny Simone – Public Works

Scott Stillwell – Public Works

Joe Borries – Emergency Management

Thuyen Buendia – Business Technology Services/eGIS

Marcia Colby – Public Works

Kelly Dickie – Business Technology Services/eGIS

Allison Goldberg – Business Technology Services/eGIS

Susan Leverette – Office of Asset Management

Daniel Mirabile – Public Works

Curt Nielsen – Property Appraiser Office

Jeff Rohrs – Business Technology Services

Alan Shellhorn – Planning

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 January 7th, 2022 meeting
5. eGIS Committee Members
 - a. Vacant Seat and Vice Chair
 - b. Documentation Cleanup
6. Working Group Presentation
 - a. GIS Projects Overview
 - b. Looking Ahead
 - c. Hurricane Response using GIS
7. Open Discussion
8. 2022 Meetings – September 1st and December 1st Issues

9. Adjournment

Call to Order

The meeting was called to order at 1:32pm by Mike Twitty. Since there was not a quorum of committee members on voting items at the time, it was suggested to move to the Working Group Presentation.

Working Group Presentation

GIS Projects Overview

Jamie Munro talked briefly about eGIS working with Emergency Management the last couple of months on several projects that have to do with hurricane preparedness. He said eGIS will be getting back into more of the departmental type projects once they wrap up the Emergency Management projects. Esri has sent over the countywide 3D final deliverables so there will be a 3D base map for the county that will have the additional details of the smaller buildings that were added. eGIS is currently working on the final QC of these deliverables.

Looking Ahead

Jamie Munro reminded everyone about the Esri conference coming up in July. The 25 complimentary passes have all almost been spoken for so there will be good representation from the different departments at the conference. Jamie then talked about the upgrade of the county's Esri software, going from 10.8.1 to the 10.9.1 version. This will introduce a couple more features that will be beneficial to the users.

Jamie said there will be some Esri credits that will have to be burned by end of the year. The credits haven't been spent due to COVID, and when the contract with Esri was renewed, we started accumulating more credits. So, by December 31st, we have about 200 credits that need to be used. Between January 1 and mid-April of 2023, we will have another 200 credits to use. These are professional service credits where we can bring Esri in to help with implementation and leverage their experience (knowledge transfers, training). Such engagement in the planning phases for these credits are ArcGIS Indoors, ArcGIS Urban, Utility Network, ArcGIS Monitor, and GIS Architectural Review of the Enterprise and Property Appraiser. Mike Twitty inquired about other departments/agencies requesting the use of these credits. Jamie said they can reach out to eGIS to discuss additional opportunities for using the credits.

With the quorum of committee members being met now, the meeting jumped back to the beginning of the agenda for voting issues.

Steering Committee

Vacant Seat and Vice Chair

Currently there is a vacant seat on the eGIS Steering Committee, formally held by Bryan Zumwalt. The County Administrator has recommended to appoint Jeremy Waugh, Director of Office of Asset Management, to this vacant seat. Mike Twitty asked for a motion.

Motion: Jason Malpass made a motion to approve the appointment.

Motion seconded by: Marc Gillette seconded.

All in favor. Welcome aboard, Jeremy.

Also, with Bryan Zumwalt leaving the committee, it left the Vice Chair open. Mike Twitty asked for any nominations. Mike Twitty discussed having Jason Malpass fill the vacant Vice Chair seat.

Motion: Marc Gillette motioned to nominate Jason Malpass to fill the Vice Chair seat.

Motion seconded by: Jeremy Waugh seconded.
All in favor. Jason accepted the Vice Chair position with honor.

Documentation Cleanup

Jamie Munro made a recommendation to remove the Policies and Standards document that is posted on the pinellascounty.org/egis site because it does not bring much value to where the county is at today. eGIS is working with the Working Group members to develop a governance that relates to GIS today that would incorporate some of these policies and standards. He recommended to remove the document from the site and replace it with the new one once that is complete. Jason Malpass asked if there is any other document superseding until Jamie gets the working instructions and governance established. He does not want to remove from the website until there is something else in place that makes it clear how we do go about that until it's established. It was decided to not remove the policies and standards document until the new one is in place.

Moving on to updating the Operating Guidelines. Jamie suggested to the group to replace actual members' names with just the department names so that the guidelines don't have to be updated every time changes in members. Mike Twitty and Jeremy Waugh agreed that it would be an improvement and made sense. Jamie made another recommendation for the Operating Guideline to remove two lines that reference the SLA and to retire the SLA document as it is redundant to the Operating Guidelines. Marc Gillette mentioned that this was created back with the inception of eGIS and since things have changed since then it is no longer needed. There were also questions concerning the term "Executive Committee" which is one in the same as the Steering Committee. Mike Twitty asked for some motions concerning the Operating Guidelines recommendations:

Motion: Marc Gillette made the motion to retire the existing SLA and to make the edits to the operating guidelines.

Motion seconded by: Jeremy Waugh seconded.

All in favor.

Motion: Jeremy Waugh made the motion to accept the recommendation for the language change.

Motion seconded by: Jason Malpass seconded.

All in favor.

Jeremy Waugh asked for a clarification on the business relationships. Jamie answered that there is a resolution that creates the Steering Committee, then the Steering Committee created the Working Group. Between the Steering Committee and Working Group they communicate on how to handle and prioritize the work. If the work is slated for more than 80 hours, it needs to go through the BTS Pipeline process and is presented to the Working Group too.

Working Group Presentation (continued)

Aerials Discussion

Jamie gave a detailed status of 2022 aerials. The 2022 aerials were received Friday last week via hard drive. eGIS is currently working on getting those files uploaded and creating the basemap caches. It was discussed that the 2022 aerials captured dates were from November 2021 through January 2022. The obliques were delivered on March 2nd, 2022. Mike Twitty mentioned that it helped the Property Appraiser's Office to get early access to the oblique in the way the PO was handled this past year. It was asked by Penny Simone on why there was a two-month delay on the orthos and the answer from the vendor was that it was taking longer than expected.

Moving on to the 2023 Ortho flight options Jamie showed the specs between SWFWMD and Pictometry, both would be additional requirements this year. He also posed the question of using a different vendor such as Nearmap for obliques. Penny Simone suggested meeting with Pictometry to see if the County could get their estimated cost down to make it more palatable to go with Pictometry or EagleView. After more discussion, Jamie said he would circle back with the group after he gets more details and numbers from Pictometry.

Jason Malpass asked for a reminder of the importance of the obliques and orthos to the different stakeholders since departments use them for different purposes. Jeremy Waugh also mentioned a vendor out there that drove the county with terrestrial LIDAR that could be beneficial. Jeremy was going research and get back with the committee on that.

Jumping back to the beginning of the agenda items.

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 January 7th, 2022, meeting. Motion to approve from Jason Malpass, seconded by Jeremy Waugh, all in favor. Minutes approved.

Remaining Meeting Schedule for 2022

Due to some schedule conflicts in the remainder of the year meetings, Mike Twitty proposed rescheduling both the September 1st and December 1st meetings. It was decided to move the September 1st meeting to September 8th at 10a.m. and the December 1st meeting to December 8th at 10a.m. Jamie Munro said that the Working Group meetings will have to be rescheduled due to this, but not a problem.

Working Group Presentation (continued)

Hurricane Response using GIS (Emergency Management)

Joe Borries, Response and Recovery Operations Manager for Emergency Management, started out by thanking his GIS analyst Renee Duffy as well as the eGIS Team on working hard to prepare for the upcoming Hurricane season. He went over the importance of geocoding, location services, parcel base and routing services. One of the major changes this year was the 2020/2021 Evacuation Zone Updates. He went over the programmatic approach that went into the analysis and the outcome was around 42,000 parcels that the evacuation zone changed, many went from B to a higher risk. The communication of these changes was handled by mail and a new hub site with information and applications, which is also updated during a storm event. These zone changes resulted in some plan adjustments for impacted shelters, health care facilities, and pump stations too.

There are many communication and outreach tools available such as Know Your Zone, voice response tools, Utility bills and Ready Pinellas. Emergency Management evaluates the best, mid and worse case storm scenarios using the MEOW (maximum envelopes of water) models. Emergency Management has both external and internal GIS viewers with this data that assists with public communication and impact analysis to the County.

Post storm, applications such as Storm Impressions gives the fire vehicles the ability to report damage, flooding and road conditions at an EMS Grid level. Also, if there is damage, County and Municipal staff work together

with the Damage Assessment application using Esri Field Map software to collect parcel level damage data. There is also an application for the citizens to self-report their own damage.

Looking ahead, work still needs to be done on the Special Needs application using routing services, cloud-based SMS for Know Your Zone, and updates to PELICAN with Experience Builder. There are also a few projects for enhancements in the planning stages. See the slides in the PowerPoint for more information on all topics in this discussion.

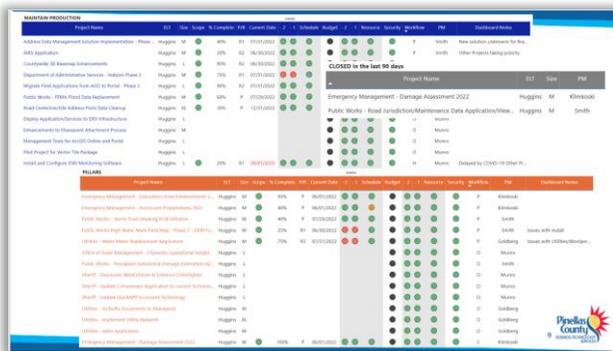
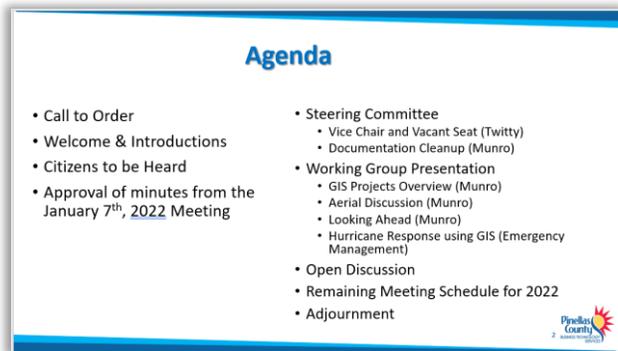
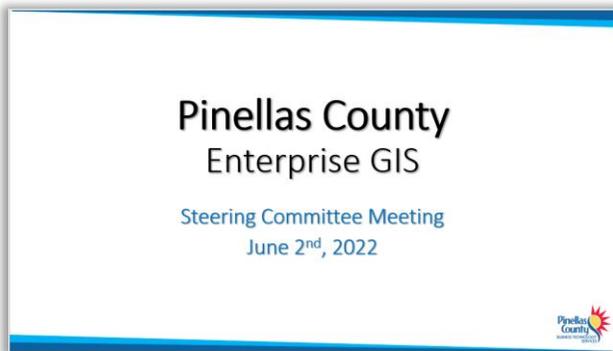
Jamie also mentioned that Public Works and Utilities have done some fantastic work with dashboards to pull in their Cityworks data, such as service requests and work orders. Utilities has also integrated Microsoft Teams with their dashboards for better communication and awareness.

Adjournment

Meeting adjourned at 3:08pm. The next meeting is scheduled for September 8th, 2022, followed by December 8th, 2022. The eGIS Working Group meetings are the second Thursday of every month.

PowerPoint Presentation

(Slides in order as meeting went, not necessarily as per the agenda format)



Steering Committee Representatives

- Committee Members**
- Property Appraiser - Mike Twitty - Chair
 - Pinellas County Sheriff's Office - Jason Malpass, IT Director
 - Supervisor of Elections - Marc Gillette, Chief Deputy
 - Assistant County Administrator - Tom Almonte
 - Vacant

- Appointment of Vice Chair
- Appointment of Vacant County Administration Seat
 - Jeremy Waugh, Director Office of Asset Management



Steering Committee Documentation

- Policy and Standards
- Operating Guidelines
- SLA

<https://pinellascounty.org/egis/>

Documents

- Resolution #10-01 Establishing EGIS Steering Committee
- EGIS Steering Committee Operating Guidelines
- EGIS Working Group Operating Guidelines
- EGIS Policies and Standards



Steering Committee Documentation

- Policy and Standards
 - Outdated Document
 - RECOMMEND: Removing Document



- Obtaining Access and Technical Support:**
- Access may be granted to the eGIS database, ArcGIS Online and/or specific GIS web based applications.
 - Requests for access, or for general technical support, can be made to Pinellas County Business Technology Services at (727) 453-HEIP, or support@pinellascounty.org.
- Passwords and Security:**
- Password strength and security shall adhere to the following requirements:
 - Minimum length of 8 characters (or otherwise the maximum allowed by the system)
 - Must contain both letters and numbers, along with symbols if the system permits
 - Must not be re-used unless at least 12 months has passed since the password was last used
 - Must not be "cyclical" or repeating such as "1a123", "98765", etc
 - Must not be stored in readable form in any electronic or paper format where unauthorized persons might discover them
 - Passwords shall be changed once every 90 days.



Steering Committee Documentation

- Operating Guidelines – Proposed Update

4.2 Composition

The Executive Committee will be comprised as follows:

- Property Appraiser (Mike Twitty)
- Supervisor of Elections - Deputy Supervisor of Elections (Marc Gillette)
- Sheriff's Office – Information Technology Director (Jason Malpass)
- Assistant County Administrator (Tom Almonte)
- Office of Technology and Innovation - Director (Bryan Zumwalt)

The Executive Committee will be comprised of members from the following offices:

- Property Appraiser
- Supervisor of Elections
- Sheriff
- County Administration
- County Administration

The list of individual members from each office will be maintained on the Pinellas County Enterprise GIS (EGIS) Steering Committee homepage.



Steering Committee Documentation

- Note reference to SLA near the end of the Executive Summary in the Steering Committee Operating Guidelines...

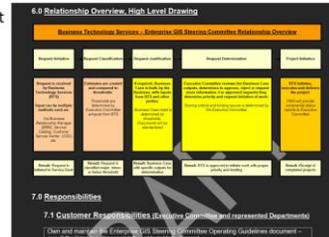
The Executive Committee will look to Business Technology Services as a major working partner for assistance with classification and justification of new initiatives, as well as for delivery of approved GIS solutions. **The business relationship between the Executive Committee and BTS will be defined in a separate Service Level Agreement.**

A high-level graphic of the working relationship is included both within the body of SLA and in the Procedures section of this document.



Steering Committee Documentation

- Service Level Agreement
 - Outdated Document
 - New Draft Discussion



Aerial Discussion – 2022 Status

- November 2021 to January 2022 – Image Capture
- January 6 - Connect Explorer "Early Access"
- March 2 – Oblique Files Delivered
- March 28 – Ortho ESTIMATED delivery late April
- May 16 – Ortho ESTIMATED delivery late May

Status Date	Percent Complete
Nov 3	10%
Nov 8	29%
Nov 15	46%
Dec 8	60%
Dec 14	76%
Dec 20	89%
Dec 27	100%
Jan 10	Touch Up Begin
Jan 21	Touch Up Complete

Once the Ortho files are delivered:

1. New base map caches will be created
2. Native files (including MrSID) will be made on file share
3. Update Applications to consume new aerials



Aerial Discussion – 2023 Ortho Flights Options

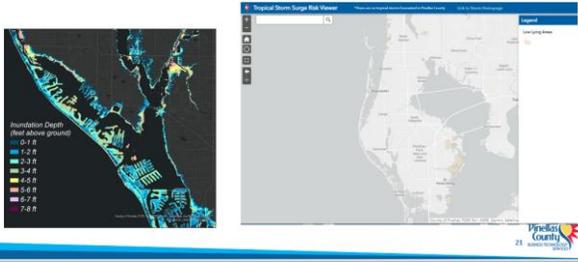
Aerial Project	Oblique Required?	Ortho Resolution	Ortho Products	Ortho Files	Ortho Ground Control	Ortho Transportation	Acquisition	Cost
Previous County Flights	Yes	6" older and 2" recent	True Color	GeoTiff & MrSID	Yes	No Additional Specifications	Dec 15 to Feb 27	\$42,390.09
Florida DOR with SWFWMD	Not Required	Minimum 6"	True Color and IR	GeoTiff	Double Previous Control	Additional Specifications	Oct 15 to March 15	\$16,063.62
Florida DOR with Pictometry	Yes	2"	True Color and IR	GeoTiff & MrSID	Double Previous Control	Additional Specifications	Dec 15 to Feb 27	\$60,000??? Waiting for proposal

- Obliques not part of DOR requirement
- Double ground control for next flight
- Additional transportation requirements for next flight



Storm Risk Map Viewer

- Communicating Risk and Actions



Healthcare Facilities

Healthcare Facility Surge Risk Viewer



Healthcare Facilities – Bay Pines



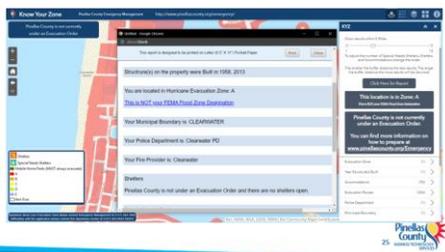
Development Review



Communication and Outreach Tools

Know Your Zone

- Official Evacuation Status
- Evacuation Zone Information
- Active Shelters Information



Communication and Outreach Tools

Communication and Outreach Tools

- New Ready Pinellas App
- Blue/Grey Sky information
- Real time information
- Integrated with Alert Pinellas and National Weather Service
- Push Notifications



Evacuation Analysis

Zone	Total Population at Risk	Public Shelter Need	Remaining Non-Evacuating Population	Shelter Evacuation Need	Percent Evacuating Population	Shelter Need for each level	Public Shelter Need for Evacuation Other	Shelter Spaces						
								Evacuation Level/Cat	Number Shelter Spaces Available	Number Shelter Spaces / Used for each Evac Level	All Shelter Spaces Available	20% w/ Capacity Remaining	15% w/ Capacity Remaining	
A	7676	1173	1173	0	0%	0	0	100	100	100	100	100	100	100
B	131,070	89,174	79,048	21,111	16%	141,174	141,174	100	100	100	100	100	100	100
C	87,702	62,747	62,747	0	0%	79,702	20,000	100	100	100	100	100	100	100
D	120,000	112,747	112,747	0	0%	112,747	112,747	100	100	100	100	100	100	100
E	1,000,000	888,889	888,889	111,111	11%	1,111,111	1,111,111	100	100	100	100	100	100	100
F	1,000,000	888,889	888,889	111,111	11%	1,111,111	1,111,111	100	100	100	100	100	100	100
G	1,000,000	888,889	888,889	111,111	11%	1,111,111	1,111,111	100	100	100	100	100	100	100
H	1,000,000	888,889	888,889	111,111	11%	1,111,111	1,111,111	100	100	100	100	100	100	100
I	1,000,000	888,889	888,889	111,111	11%	1,111,111	1,111,111	100	100	100	100	100	100	100
J	1,000,000	888,889	888,889	111,111	11%	1,111,111	1,111,111	100	100	100	100	100	100	100
K	1,000,000	888,889	888,889	111,111	11%	1,111,111	1,111,111	100	100	100	100	100	100	100
L	1,000,000	888,889	888,889	111,111	11%	1,111,111	1,111,111	100	100	100	100	100	100	100
M	1,000,000	888,889	888,889	111,111	11%	1,111,111	1,111,111	100	100	100	100	100	100	100
N	1,000,000	888,889	888,889	111,111	11%	1,111,111	1,111,111	100	100	100	100	100	100	100
O	1,000,000	888,889	888,889	111,111	11%	1,111,111	1,111,111	100	100	100	100	100	100	100
P	1,000,000	888,889	888,889	111,111	11%	1,111,111	1,111,111	100	100	100	100	100	100	100
Q	1,000,000	888,889	888,889	111,111	11%	1,111,111	1,111,111	100	100	100	100	100	100	100
R	1,000,000	888,889	888,889	111,111	11%	1,111,111	1,111,111	100	100	100	100	100	100	100
S	1,000,000	888,889	888,889	111,111	11%	1,111,111	1,111,111	100	100	100	100	100	100	100
T	1,000,000	888,889	888,889	111,111	11%	1,111,111	1,111,111	100	100	100	100	100	100	100
U	1,000,000	888,889	888,889	111,111	11%	1,111,111	1,111,111	100	100	100	100	100	100	100
V	1,000,000	888,889	888,889	111,111	11%	1,111,111	1,111,111	100	100	100	100	100	100	100
W	1,000,000	888,889	888,889	111,111	11%	1,111,111	1,111,111	100	100	100	100	100	100	100
X	1,000,000	888,889	888,889	111,111	11%	1,111,111	1,111,111	100	100	100	100	100	100	100
Y	1,000,000	888,889	888,889	111,111	11%	1,111,111	1,111,111	100	100	100	100	100	100	100
Z	1,000,000	888,889	888,889	111,111	11%	1,111,111	1,111,111	100	100	100	100	100	100	100



BMW

- Best, Mid and Worse Case Scenarios
- MEOWs

Cat 5 MOM

NW, Cat 5, 15 MPH - B/C

Storm Impressions

- Fire Vehicles Report Storm Impact
- Based on EMS Grid
- Identifies Areas to survey for Property Damage, Flooding, and Road Conditions

Residential Property Damage Assessments

- New app – ArcGIS Field Maps
- Works on Android and iOS devices
- Over 170 partners across the county trained

DA InfoHUB and other training resources

Damage Assessment Dashboard

- New Platform
- New Processing

Citizen Residential Damage Reporting

- Self-Reporting
- Damage not Seen from Street
- Helps County Receive Federal Aide

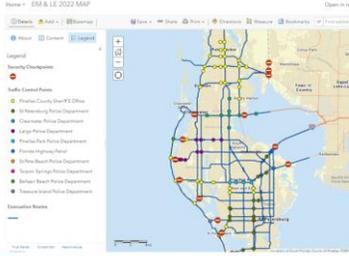
PELICAN

- Pinellas Emergency Level Interoperable Critical Analysis
- EM's All-in-One situational awareness app
- Internal access only
- Currently being redeveloped in Experience Builder
- More flexibility
- Layer grouping
- Quicker updates during an event

Road Closures

WebEOC

Security and Traffic Control



Looking Ahead: Hurricane Preparedness with GIS

- Special Needs App update – Routing Services
- Cloud based SMS Know Your Zone
- Updates to PELICAN – Experience Builder

Planning Stages

- Know Your Zone Major Update – Cloud Solution?
- Storm Surge Protector App – LiDAR app from Sustainability & Resiliency Program
- Road Closures
- AI – cloud data mart – better data intelligence (BMW, Resources)

Questions?

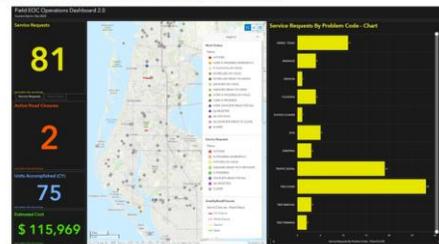
Thank you

Joe Borries
Response and Recovery
Operations Manager
727-464-3803

Renee Duffey
GIS and Data Analyst
727-464-3814

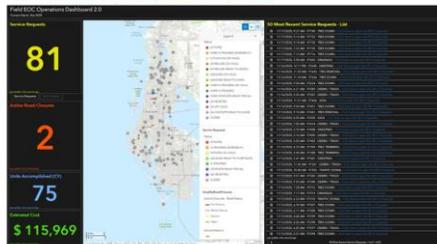
Public Works Field EOC Dashboard

- Service Requests



Public Works Field EOC Dashboard

- Work Orders



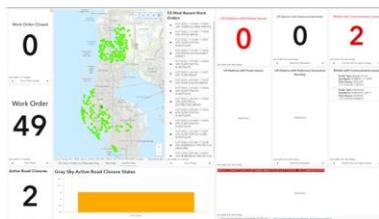
Public Works Field EOC Dashboard

- Cityworks



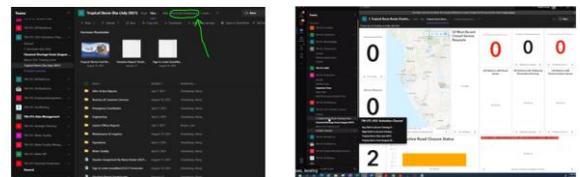
Utilities Operations Center (UOC)

- Cityworks
- Lift Station Power
- Lift Station Communication
- Generators Running
- Road Closures



Utilities – Microsoft Teams

- Integration with MS Teams for communication, awareness, and a one-stop shop



Open Discussion



Next Meeting/Adjournment



Working Group Meetings:

- June 9, 2022
- July 14, 2022
- August 11, 2022
- September 8, 2022
- October 13, 2022
- November 10, 2022
- December 8, 2022

Steering Committee Meetings:

- June 2, 2022
- September 1, 2022 (need to reschedule)
- December 1, 2022 (need to reschedule)

