GOVERNOR'S HURRICANE CONFERENCE®

Welcome to the 2024 GHC Training Session

- These sessions are available to attendees that have registered and are identifiable by the blue and purple name badge.
- Pre-enrolled attendees are guaranteed a seat. All others are first-come, first-serve if space permits.
- The Room Monitor will administer a sign-in sheet that you must sign. Pre-enrolled attendees: Please sign next to your name. Names are in alphabetical order by last name.
- If you are a walk-in (not pre-enrolled), print your name **legible** on the sign-in sheet.
- **You must attend and sign-in every day on multiple day sessions**.
- The sign-in sheet will be picked up 30 minutes after the session starts.
- A certificate will be provided at the completion of the session.

Manatee County

Public Safety Department

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Manatee County
FLORIDA

Hi.

Preparedness Phase

Emergency Services Activation:

Activate Emergency Operations Centers (EOCs) to manage real-time coordination.

Coordination:

Coordinate with local, state, and federal agencies, as well as emergency services and community organizations.

Community Preparation:

Distribute safety information, encourage evacuation, and ensure access to shelters.

Resource Allocation:

Stockpile supplies, prepare emergency equipment, and preposition resources like food, water, and medical aid.

Manatee County FLORIDA

DEBBY
RAIN

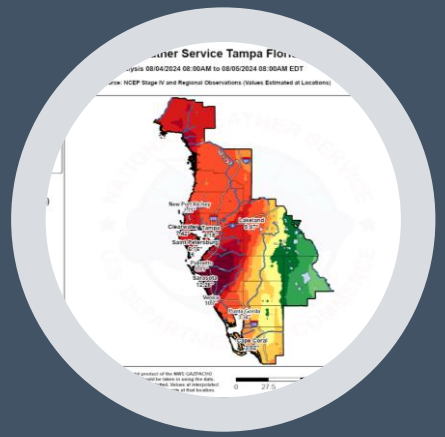
08/03/2024

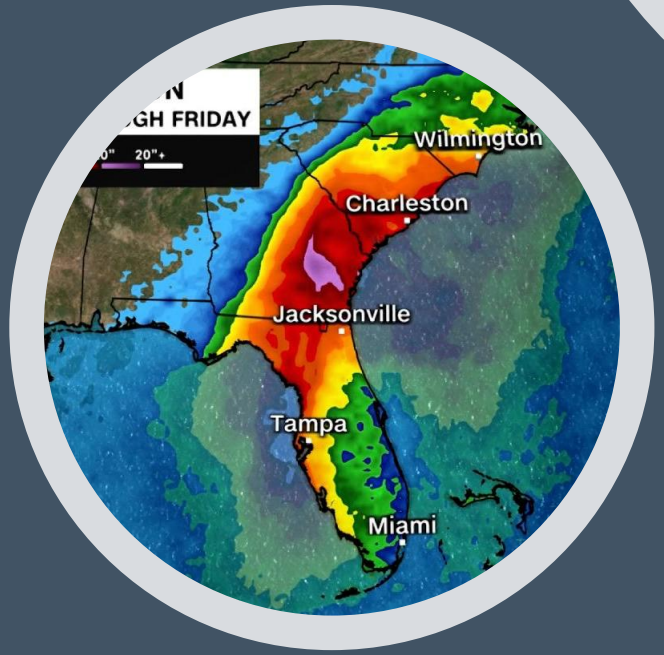
Rainfall totals - Manatee County experienced rainfall totals that were equivalent to 100- and 500-year events. The SRQ Airport weather station recorded nearly 12 inches of rain, a record daily rainfall. Rain gauges in the county recorded totals ranging from 4 inches in the east to over 14 inches in the southwest.

Flooding - Many areas experienced flooding for the first time, and some neighborhoods were still underwater days after the storm. The Centre Lake neighborhood was among those affected, with some residents using paddle boards to access their homes.

Damage - Manatee County officials estimated that Debby caused $56 million in residential and business damages.

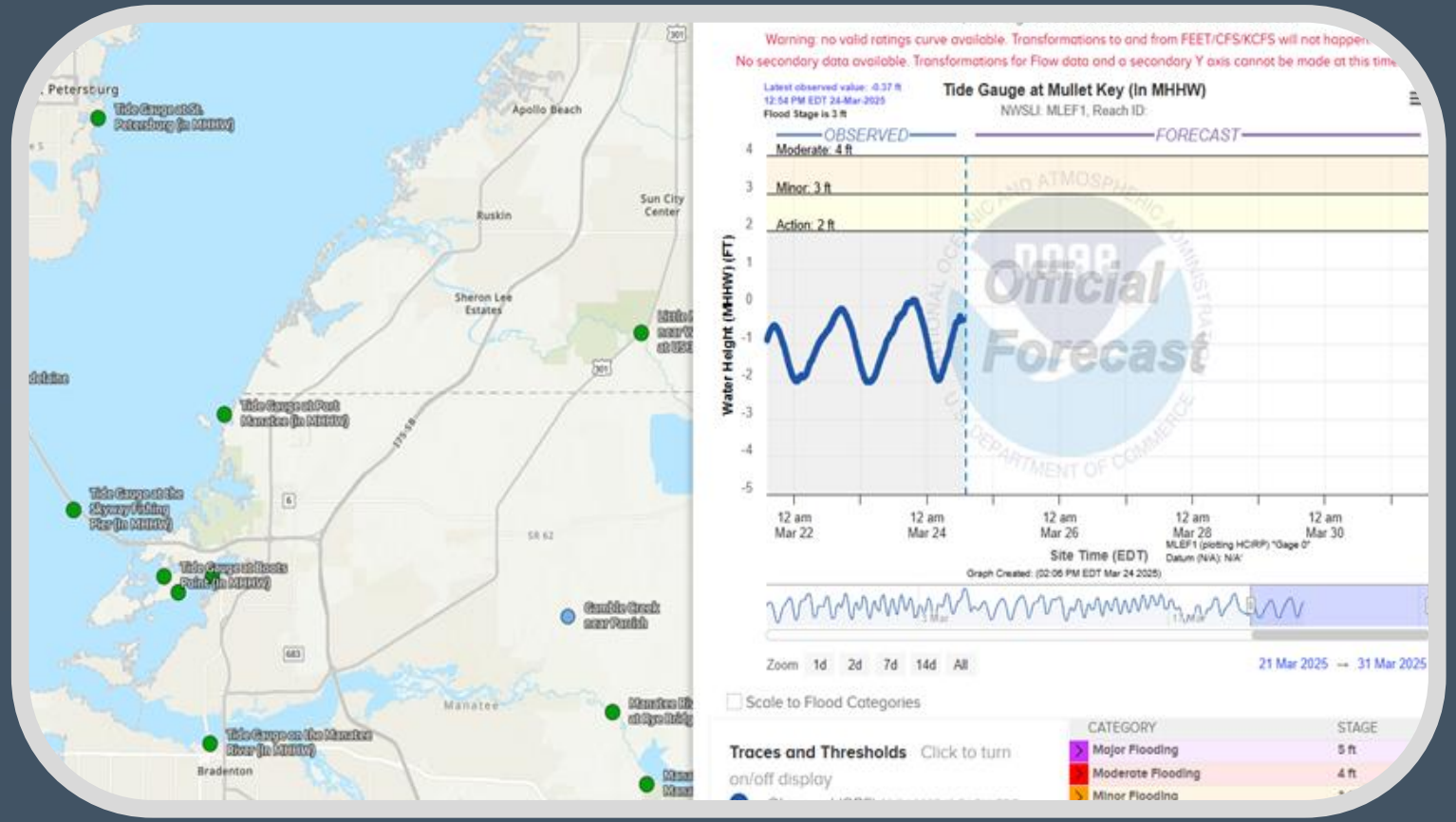
Water releases from Lake Manatee - To protect the dam and drinking water supply, Manatee County released approximately 15 billion gallons of water from Lake Manatee during the storm.

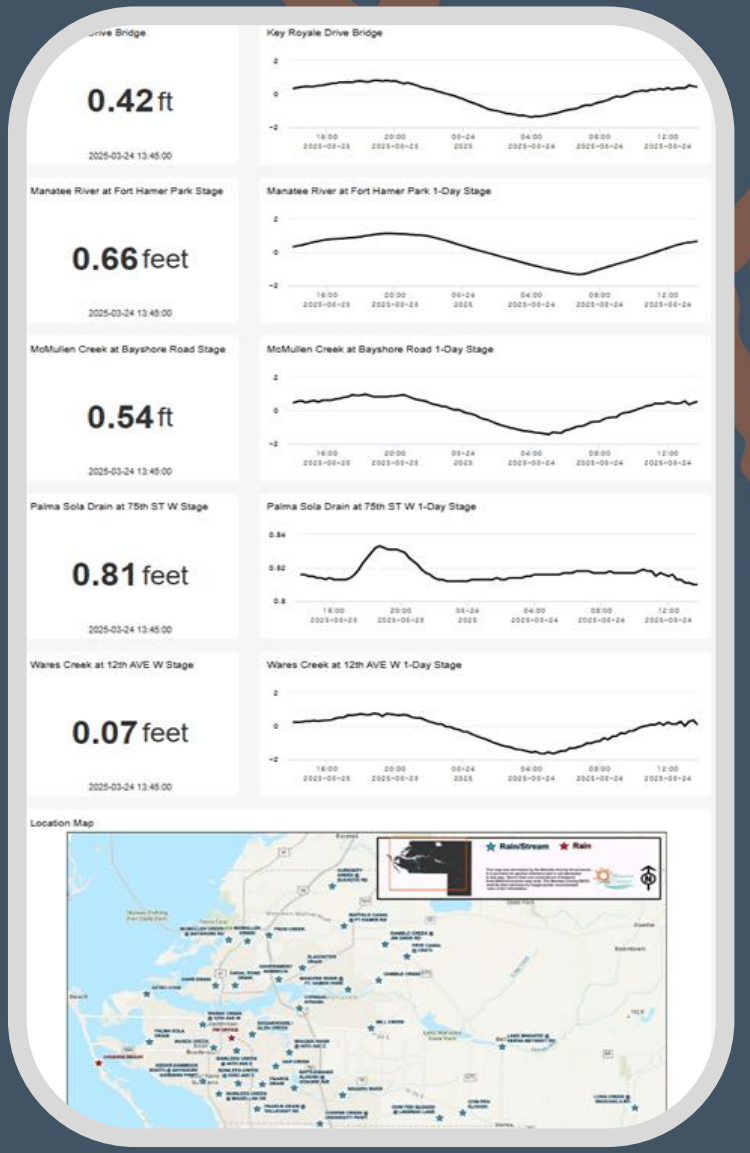




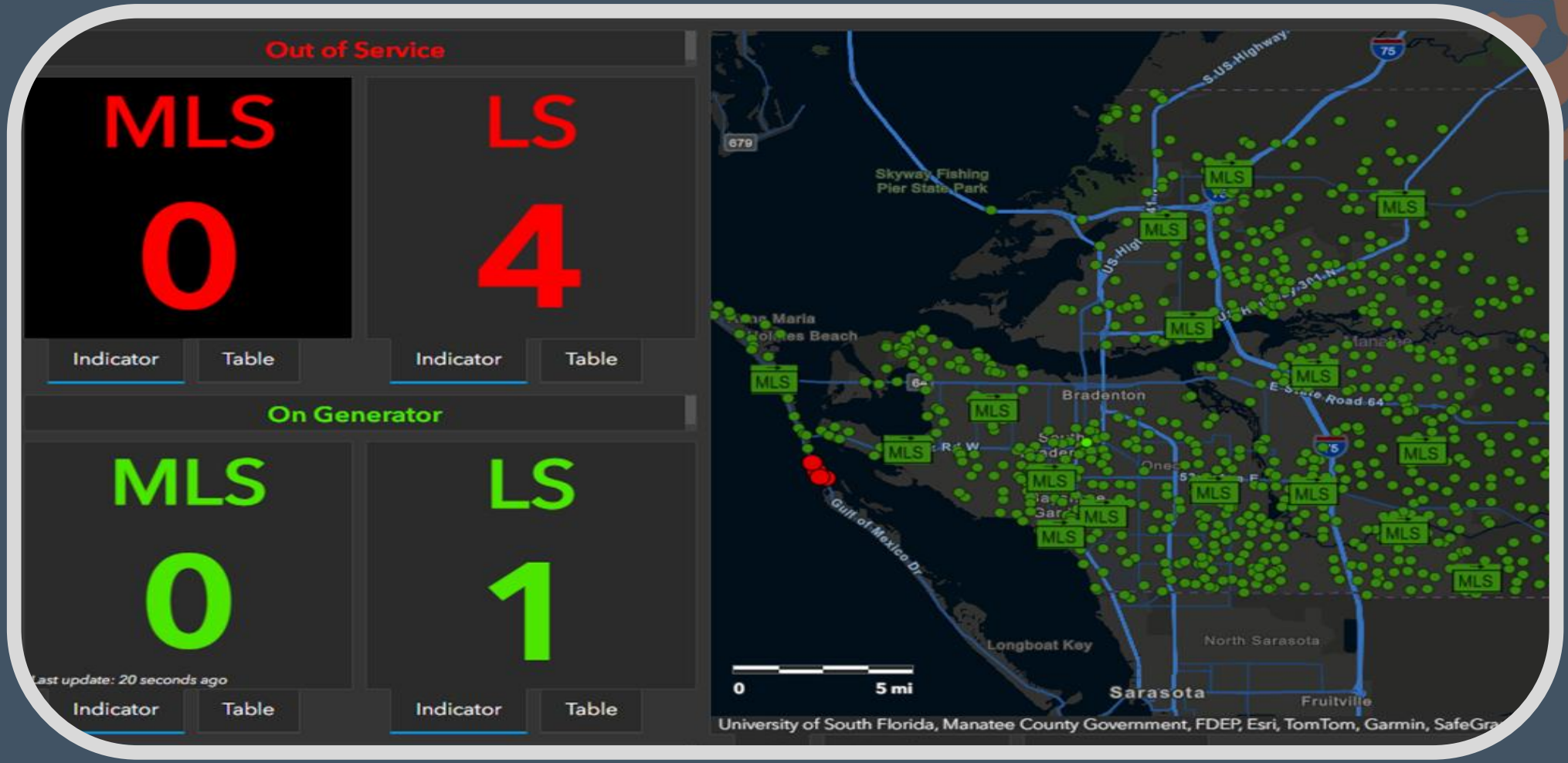
DEBBY Damage

DEBBY – Old Gauge View





DEBBY – Old Lift Stations View



DEBBY – Old WEBEOC View

Response Phase

Monitoring and Planning:

Track the storm's progress and issue early alerts. Develop response and evacuation plans.

Life-Saving Efforts:

Focus on rescue operations, medical aid, and sheltering evacuees.

Public Safety Alerts:

Provide real-time updates about the storm's movement, safety measures, and emergency contact points.

Critical Infrastructure Protection:

Monitor and respond to issues like power outages, flooding, and transportation disruptions.

Manatee County FLORIDA

HELENE
SURGE

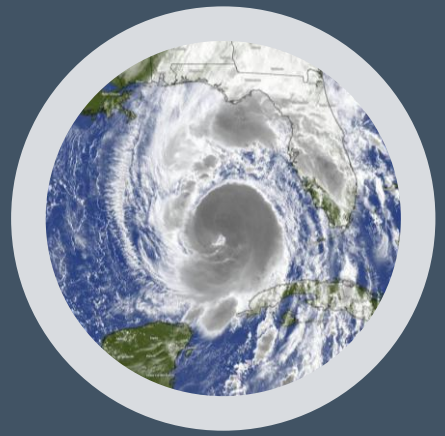
09/24/2024

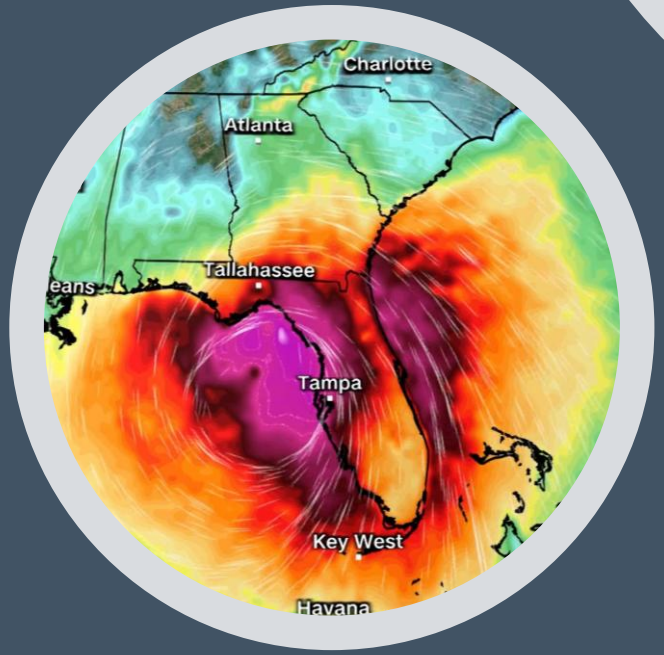
Storm surge - Helene brought a record-breaking storm surge to Manatee County, with peak surges of 5.5–7 feet. The storm surge flooded barrier islands and left behind mountains of sand.

High water records - Helene produced high water records in several locations, including St. Petersburg, Cedar Key, Clearwater Beach, Old Port Tampa, Port Manatee, and Venice Inlet.

Catastrophic damage - Bradenton Beach was buried in catastrophic damage, including the loss of beaches and sand dunes, and damage to residential, commercial, and government property.

Evacuations - Emergency crews evacuated more than 300 people from Anna Maria Island, Palmetto, and unincorporated areas of the county.

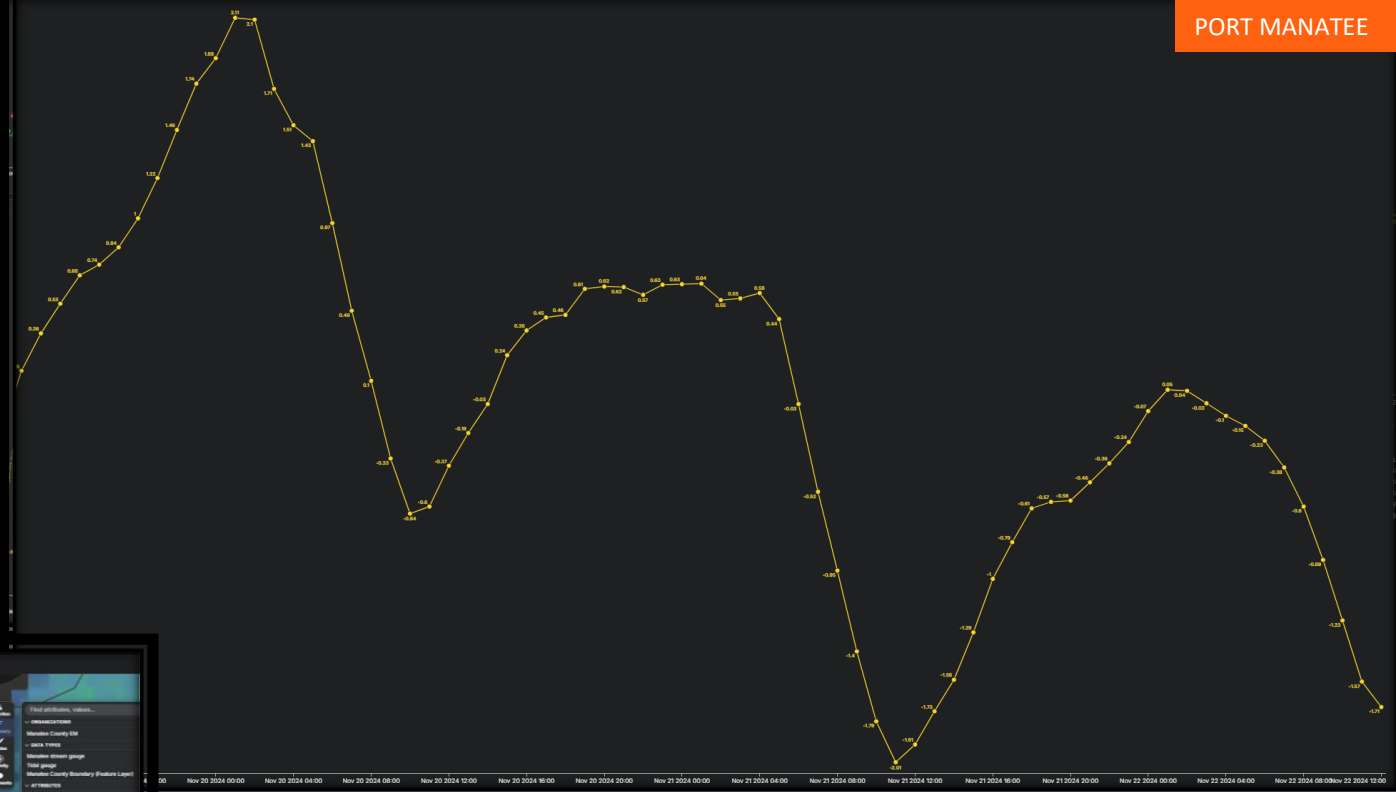


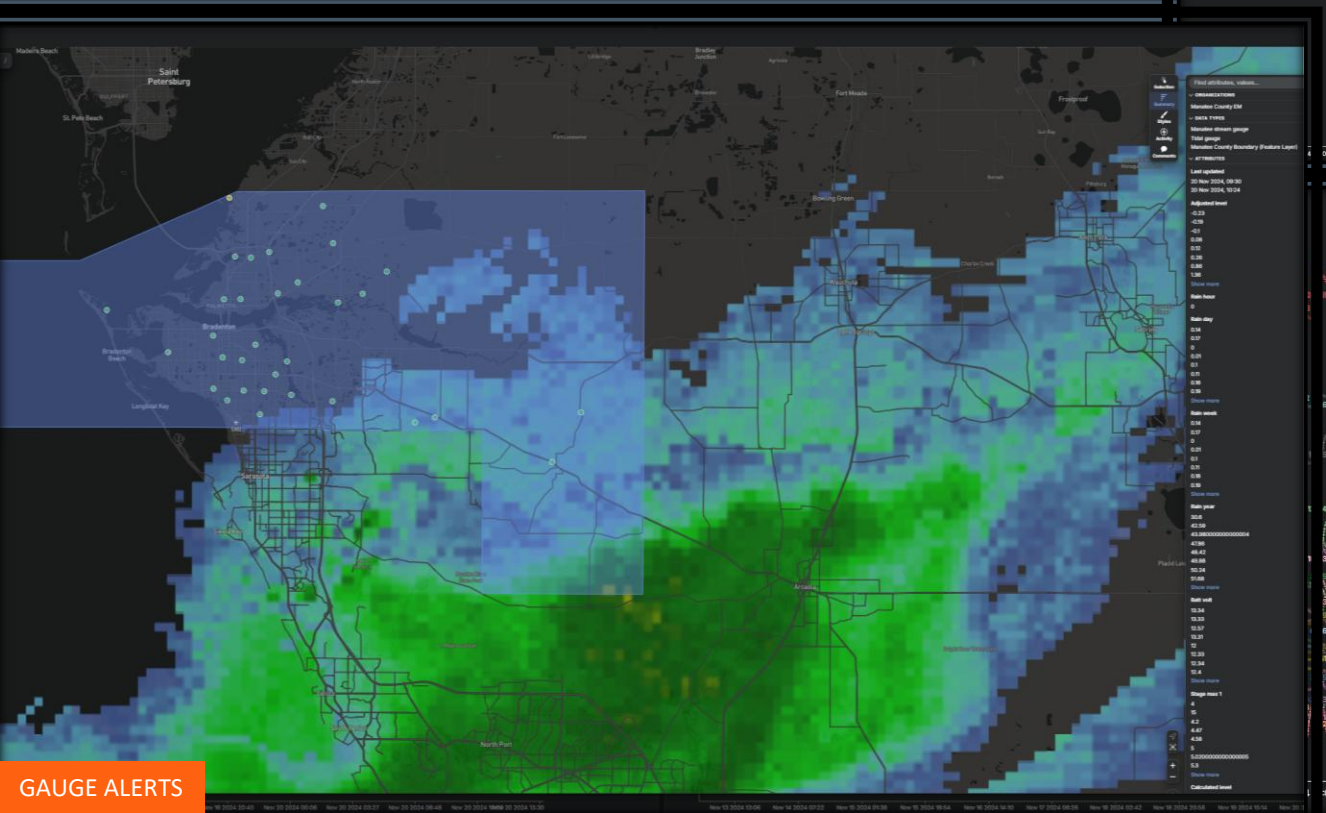


HELENE Damage

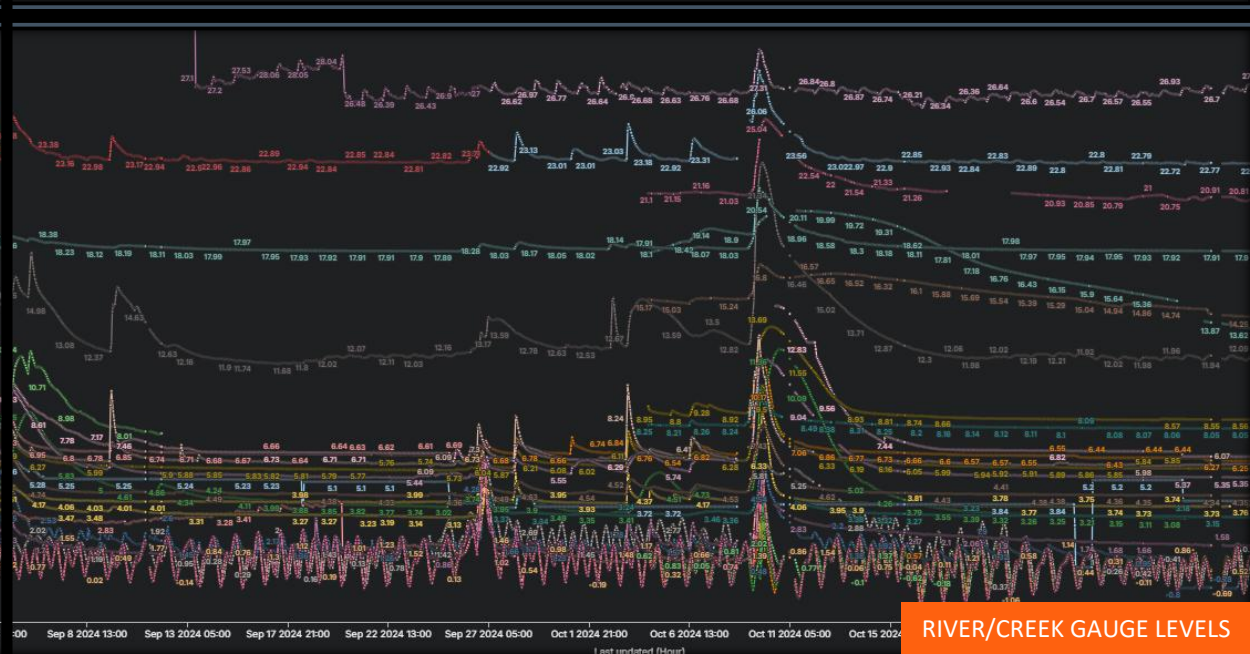
TIDAL/DAM/RIVER GAUGES

PORT MANATEE





GAUGE ALERTS

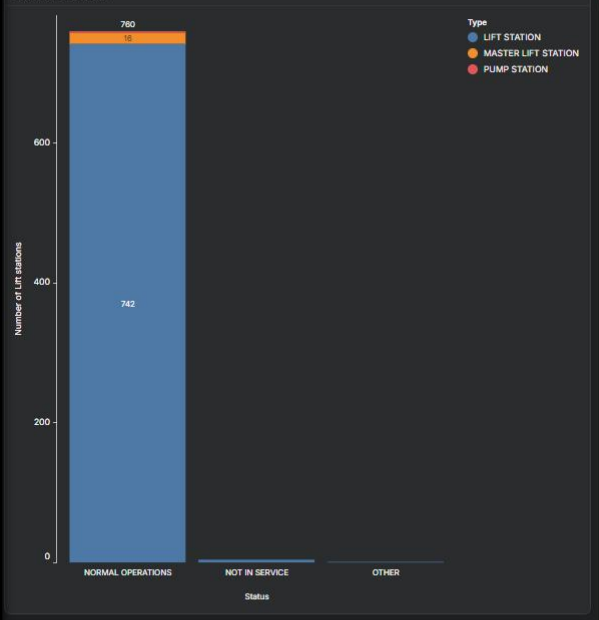


RIVER/CREEK GAUGE LEVELS

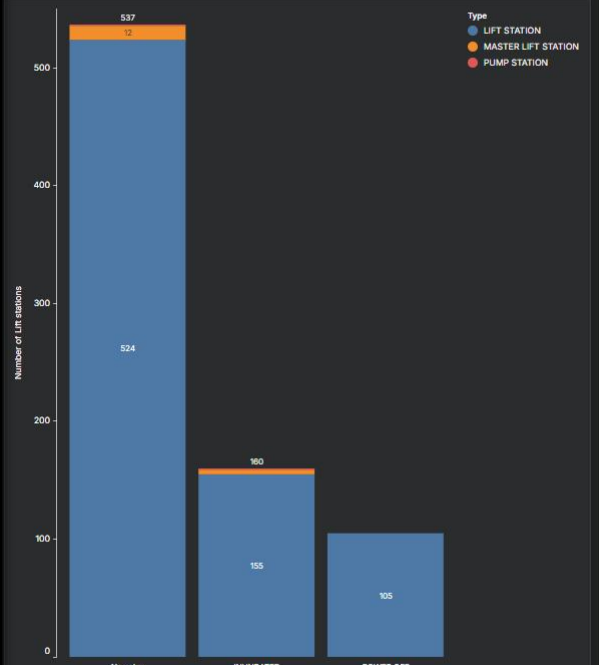
Lift stations - current status

Inundated? Yes No AND Is Active? Yes No AND Is High Water? Yes No AND Is SSO? Yes No AND Power Off? Yes No AND Telemetry Off? Search... AND Subdivision Search...

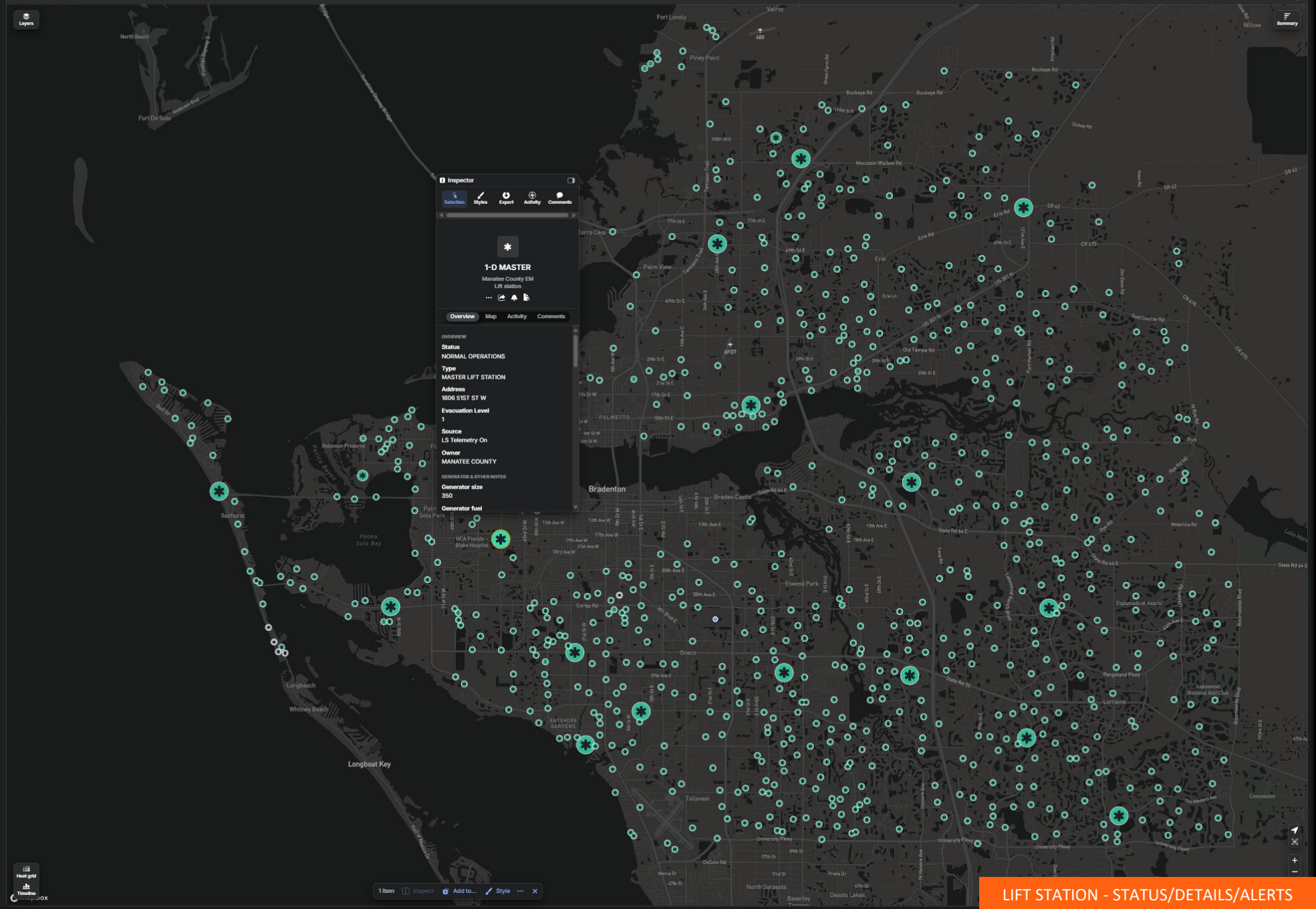
Lift stations - by status



Risk factors



Lift stations overview



LIFT STATION - STATUS/DETAILS/ALERTS

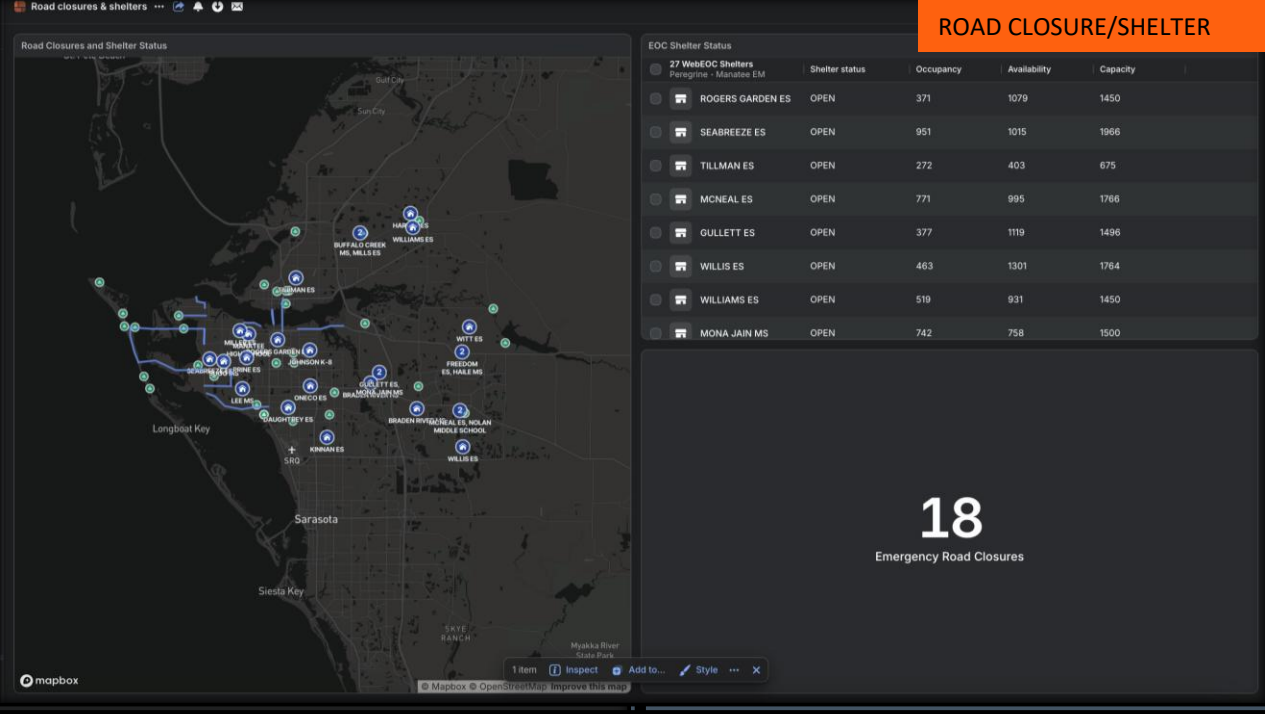
WEBEOC – SIG EVENTS

ROAD CLOSURE/SHELTER

6
s Events

113
Medium Status Events

38
Events mentioning



EOC Shelter Status

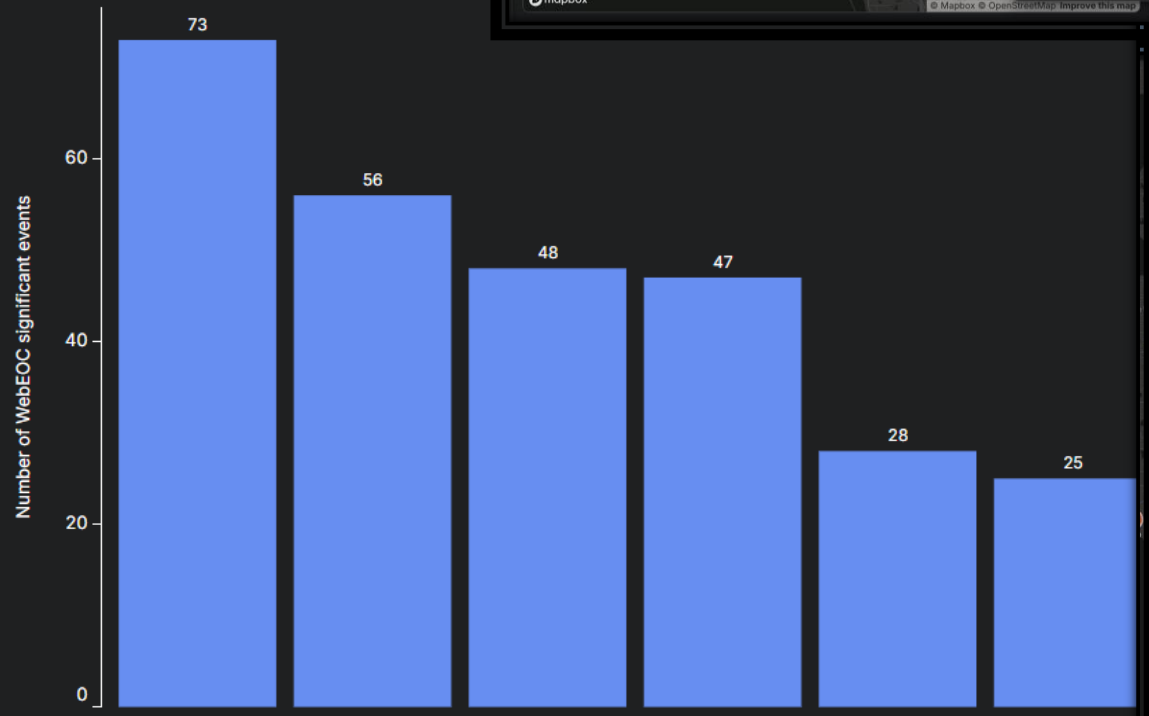
27 WebEOC Shelters
Peregrine - Manatee EM

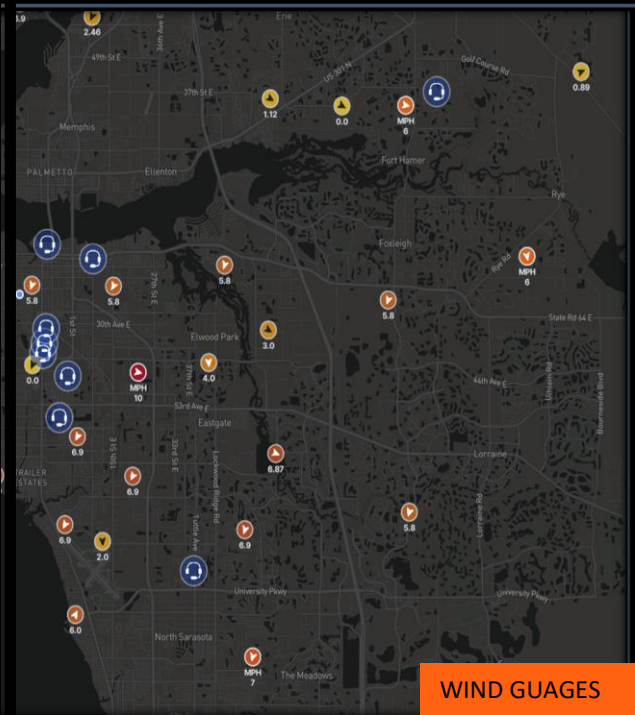
Shelter status	Occupancy	Availability	Capacity
ROGERS GARDEN ES	OPEN	371	1079	1450
SEABREEZE ES	OPEN	951	1015	1966
TILLMAN ES	OPEN	272	403	675
MCNEAL ES	OPEN	771	995	1766
GULLETT ES	OPEN	377	1119	1496
WILLIS ES	OPEN	463	1301	1764
WILLIAMS ES	OPEN	519	931	1450
MONA JAIN MS	OPEN	742	758	1500

18
Emergency Road Closures

	Position	Event type	Record date	Session
stellanos as ...	MC ESF 03 UTILI...	**DRILL/EXERCI...	27 Mar 2025, 14:22	+19417
/25/2024 14...	MC ESF 03 UTILI...	ESF3	25 Oct 2024, 14:06	+19412
repaired this...	MC ESF 16 LAW ...	TRAFFIC SIGN/SI...	15 Oct 2024, 07:12	+19417
d (49th St E)...	MC ESF 16 LAW ...	TRAFFIC SIGN/SI...	16 Oct 2024, 06:25	+19417
vice will run ...	MC ESF 01 TRAN...	TRANSPORTATION	15 Oct 2024, 14:04	+19419
s off generat...	MC ESF 04 09 10...	ENERGY	15 Oct 2024, 10:32	+19417
etto (700 Ha...	MC ESF 16 LAW ...	TRAFFIC SIGN/SI...	15 Oct 2024, 09:53	+19417
a direct call f...	MC ESF 04 09 10...	ESF4, 9, 10	14 Oct 2024, 10:41	+19418
n standby for...	MC ESF 04 09 10...	ESF4, 9, 10	11 Oct 2024, 11:24	+18133
per ESF 1. P...	MC ESF 04 09 10...	ROAD CLOSED	12 Oct 2024, 16:32	+19412
09 10 Fire S...	MC ESF 04 09 10...	RESOURCE REQ...	11 Oct 2024, 11:39	+18133

Events by Type





WIND GUAGES

Recovery Phase

Damage Assessment:

Evaluate the extent of damage to homes, infrastructure, and utilities.

Restoration:

Restore essential services such as power, water, and transportation systems.

Financial Assistance:

Facilitate disaster relief funding and assistance programs for affected individuals and communities.

Debris Removal and Cleanup:

Clear debris to enable safe return to normalcy.

Manatee County FLORIDA

MILTON
WIND

10/09/2024

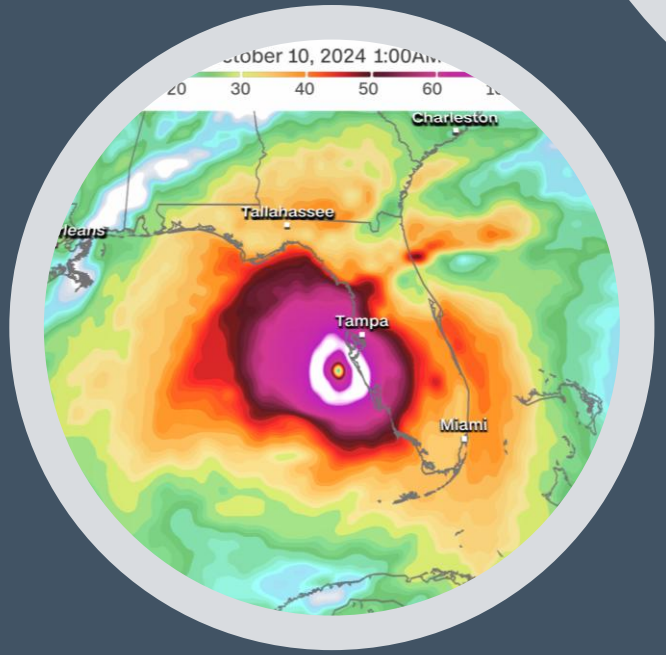
Wind - Hurricane Milton brought intense winds to Manatee County, Florida, causing significant damage and debris.

Sarasota Bradenton International Airport - The strongest gust of wind recorded at the airport was 102 mph, but the wind gauge was broken, so the actual wind speed was likely higher.

EyeWall – Northern part of eyewall effected Manatee County, looking at damages and estimated windspeeds of up to 120mph.

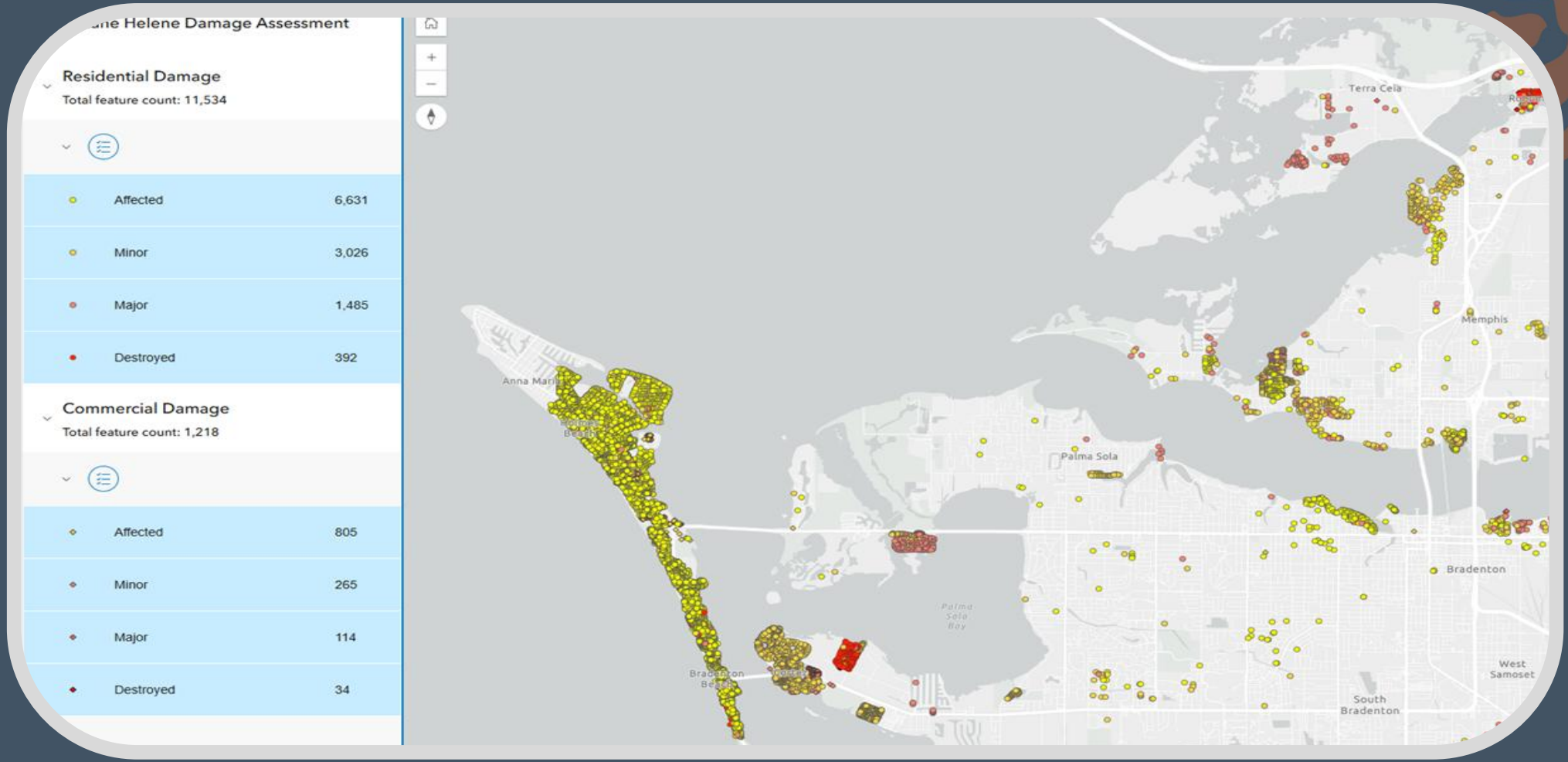
Debris - The extreme winds left debris on top of homes and businesses throughout Manatee County.

Hurricane Milton – The first hurricane to make landfall in the Sarasota-Manatee County area in over a century.



MILTON Damage

DEBBY – Old Damage Assessment View



Date range: All time | Incident: MILTON 2024 MCG | AND | Structure Type: RESIDENTIAL, COM... | AND | Damage Severity: AFFECTED, NONE, ... | AND | Total Cost: Min – Max

Search...

- MILTON 2024 MCG
- HELENE 2024 MCG
- HOLMES BEACH HELENE
- HURRICANES HELENE & MILTON SDE
- BRADENTON BEACH HELENE
- HURRICANE MILTON COB
- TS DEBBIE
- HURRICANE DEBBY
- 2024 HURRICANE DEBBIE SDA
- HURRICANE IAN
- FEPA TRAINING 2025
- HURRICANE IDALIA

Select all · 1 selected | Sort | Edit

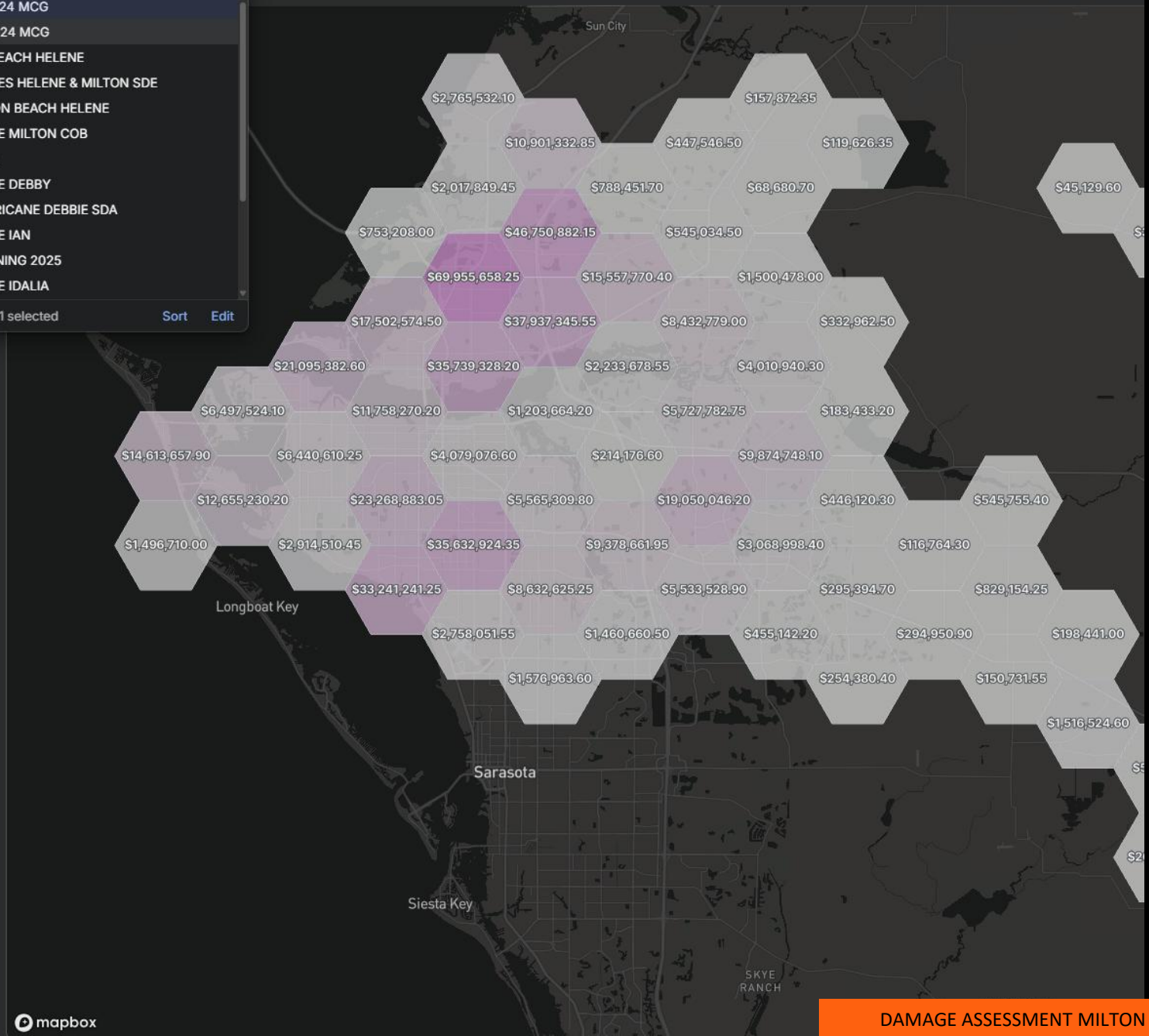
$512,040,701.35

Manatee County Combined Damage

16,541

Total County Evaluations

Residential Damage ($ value)



DAMAGE ASSESSMENT MILTON

Creating a Common Operating Picture

Data Readiness

Leadership Support

- Gain leadership buy-in to drive adoption.

Sensitive Data Clearances

- Ensure the main team acquires CJIS, HIPAA, and PII clearances.

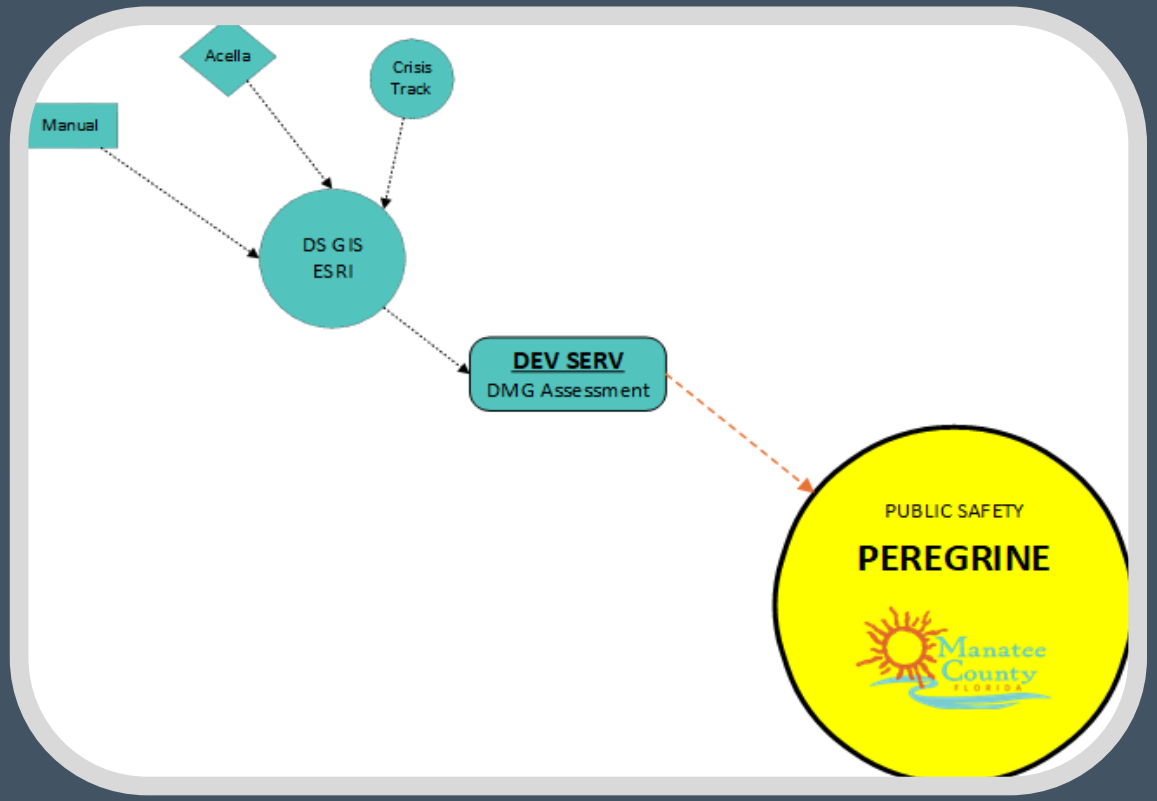
Use Cases & Goals

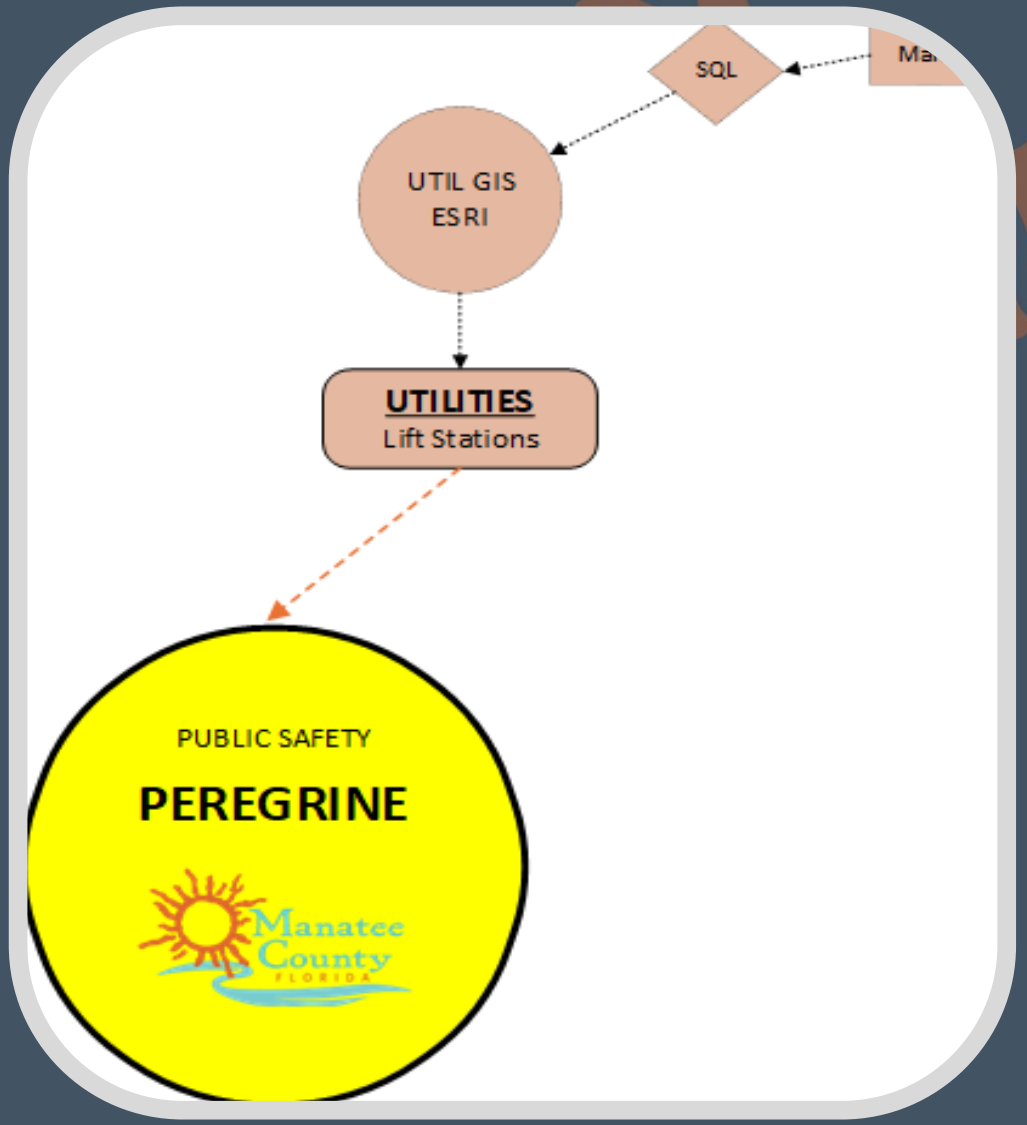
- Establish how the solution integrates into existing workflows.

Identify Key Data – Low Hanging Fruit

- Leverage readily available internal data sources.

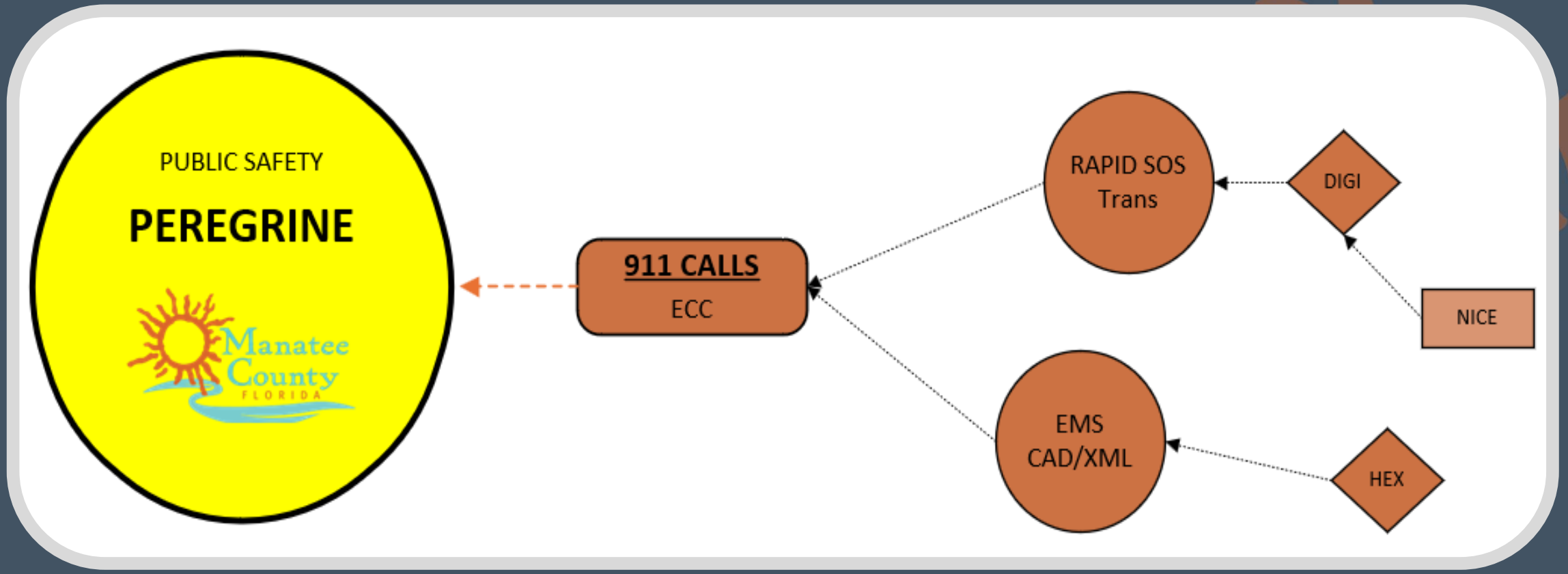
Building Data Pipelines



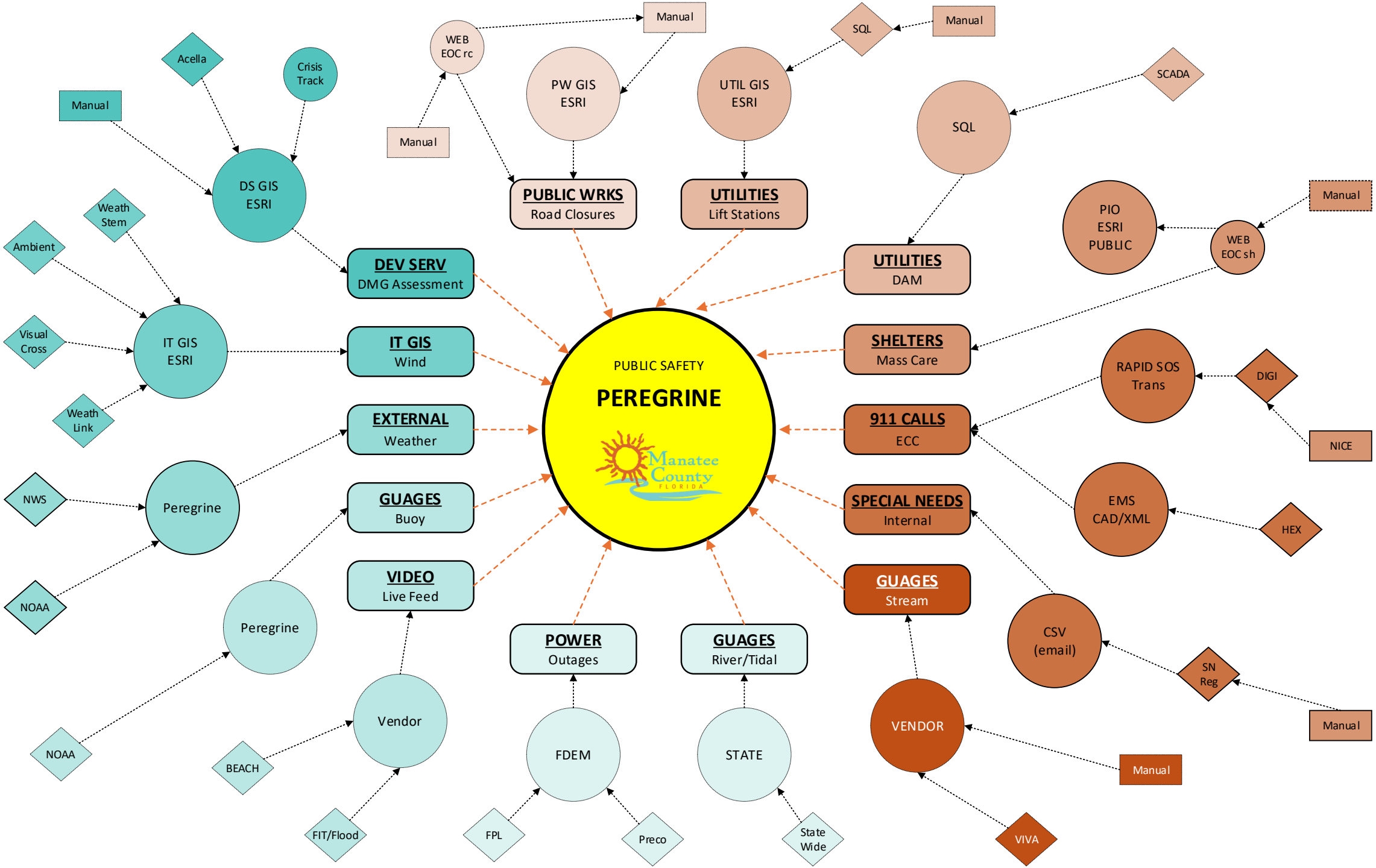


Manatee County FLORIDA

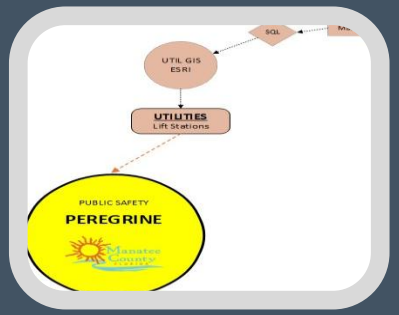
Building Data Pipelines

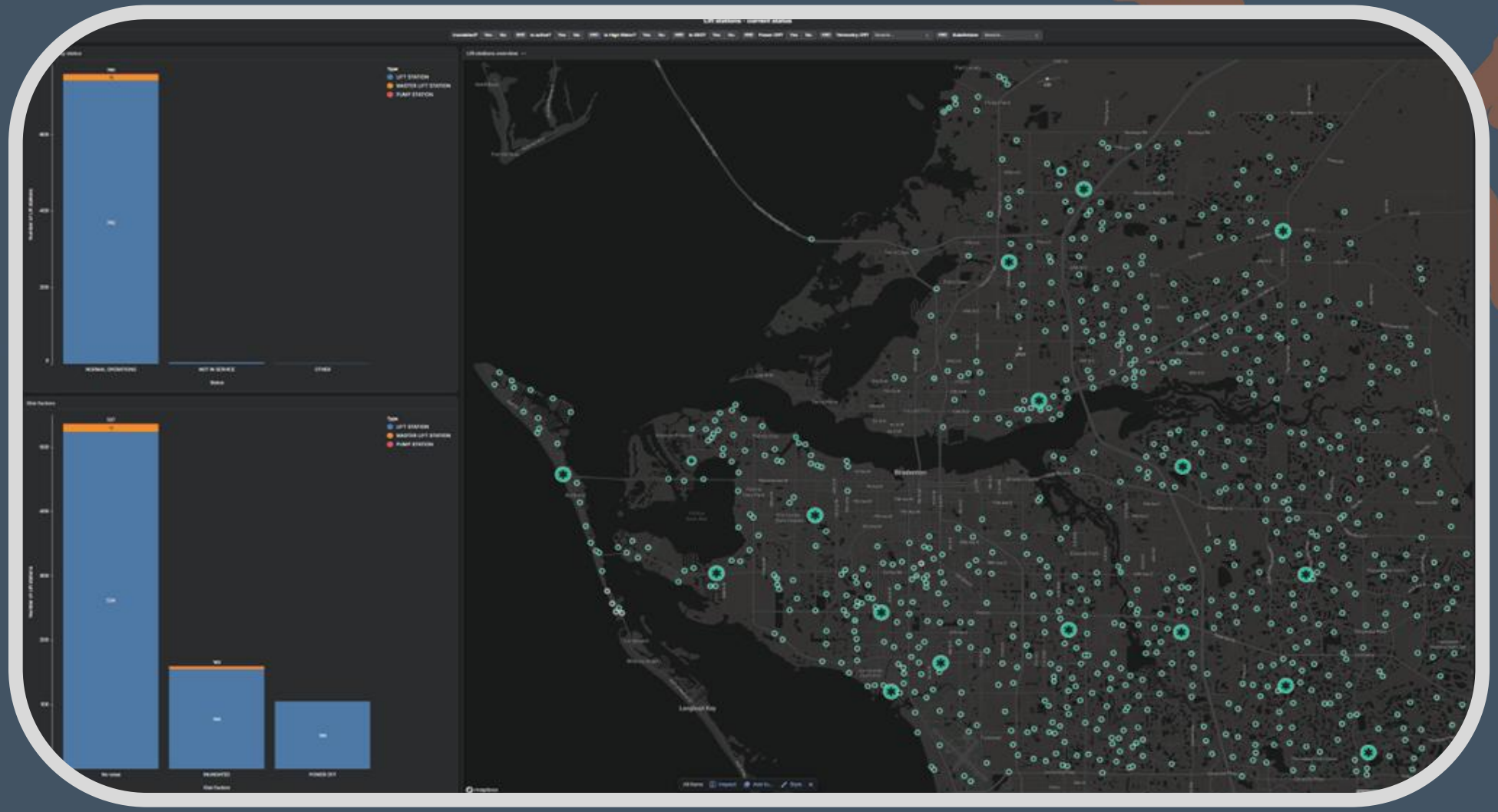


Manatee County FLORIDA

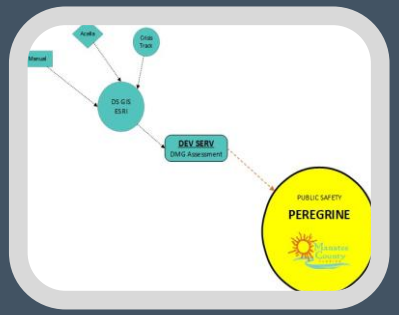

PUBLIC SAFETY
PEREGRINE
Manatee County FLORIDA
DS GIS ESRI
Acella
Crisis Track
Manual
IT GIS ESRI
Weath Stem
Ambient
Visual Cross
Weath Link
DEV SERV
DMG Assessment
IT GIS
Wind
EXTERNAL
Weather
GUAGES
Buoy
VIDEO
Live Feed
Peregrine
NWS
NOAA
Peregrine
NOAA
Vendor
BEACH
FIT/Flood
WEB EOC rc
Manual
Manual
PW GIS ESRI
PUBLIC WRKS
Road Closures
POWER
Outages
FDEM
FPL
Preco
UTIL GIS ESRI
UTILITIES
Lift Stations
GUAGES
River/Tidal
STATE
State Wide
SQL
Manual
SCADA
SQL
UTILITIES
DAM
SHELTERS
Mass Care
911 CALLS
ECC
SPECIAL NEEDS
Internal
GUAGES
Stream
VENDOR
Manual
VIVA
PIO ESRI PUBLIC
Manual
WEB EOC sh
RAPID SOS Trans
DIGI
NICE
EMS CAD/XML
HEX
CSV (email)
SN Reg
Manual

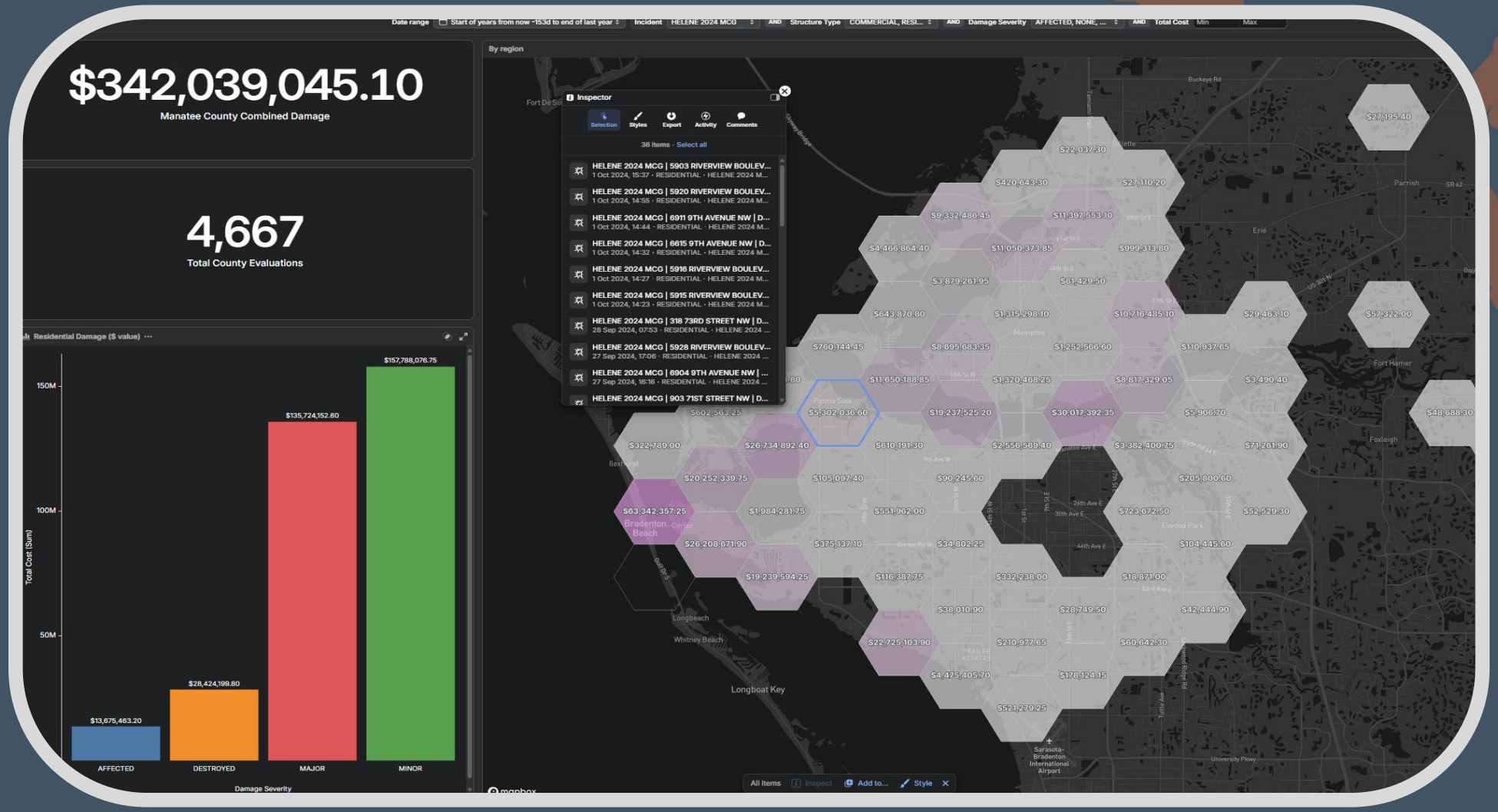
Realtime – Visual Dashboards





Realtime – Visual Dashboards





Manatee County FLORIDA

Common Operating Picture

Data Lifecycle Management

Establish Data Cadence

- Define update frequency to maintain data accuracy.

Secure

- Implement access controls to restrict unauthorized usage.

Governance

- Data Dictionary, retention, access and archiving procedures.

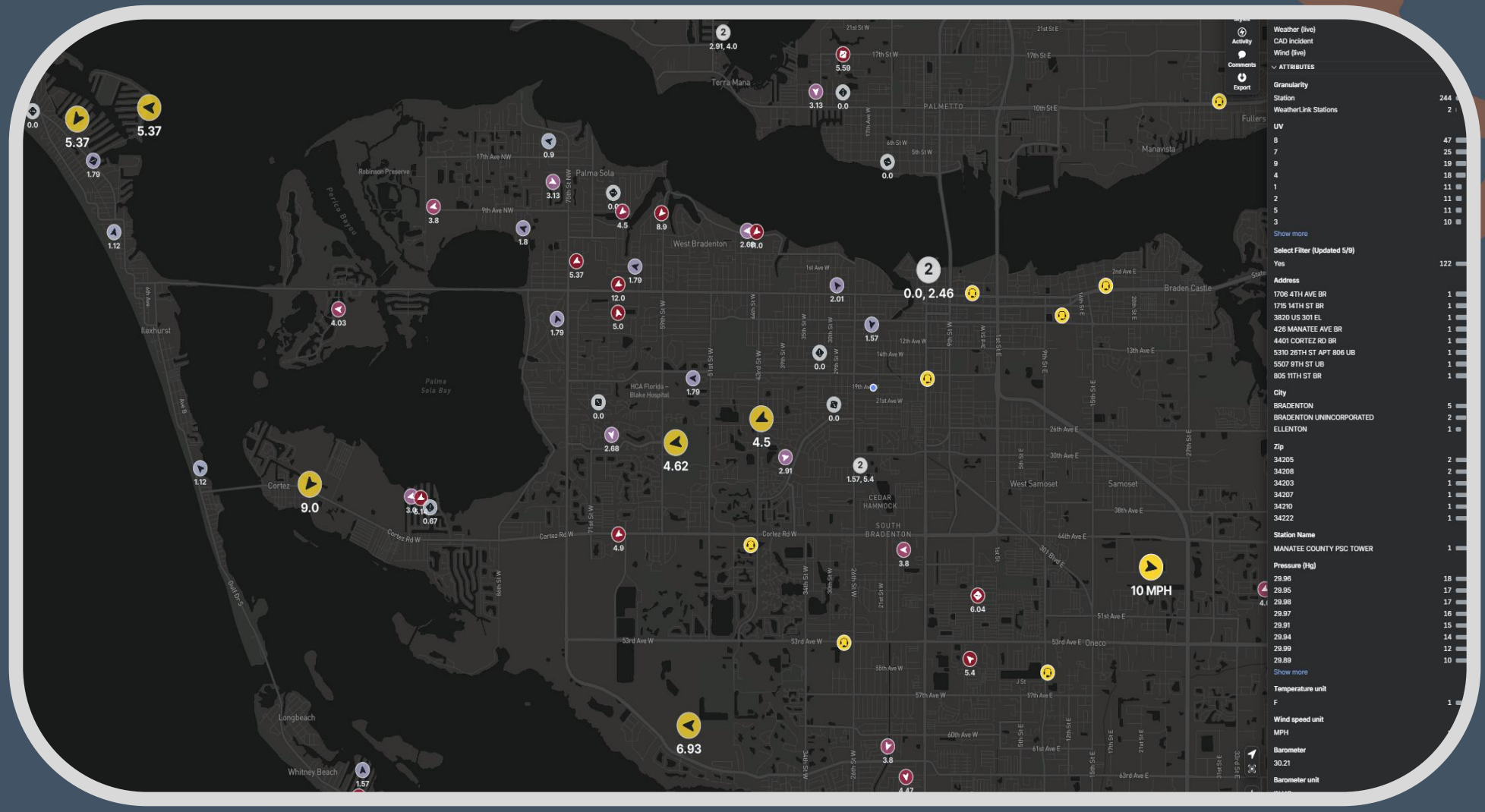
Optimize Data Presentation

- Enhance visually to support faster decision making.

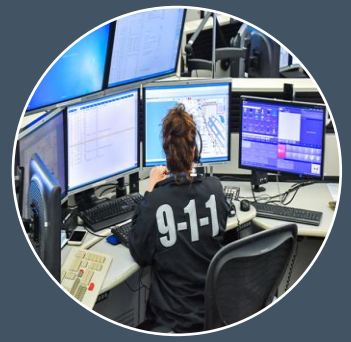
Manatee County FLORIDA

Optimization

Multiple Layers/Selective/Gradient/Alert Cadence



Future Projects



Real Time 911 Call Insights

Strategically extracted keywords from 911 transcriptions are displayed on a live map, providing real-time insight into emerging incidents.

Live Dam Data:

Monitor real-time dam flow and lake levels with smart alerts that notify Emergency Management when thresholds are breached.

Automated Lift Station Data

Real-time SCADA integration replaces two manual processes, streamlining data collection and improving response time.

Video Feeds

Provide real-time video feeds from the island and portable devices used by FIT teams and high-water vehicles.

Manatee County FLORIDA

Peregrine User Demo

Manatee County

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Manatee County
FLORIDA

QUESTIONS?