CITY OF SUGAR LAND EMERGENCY MANAGEMENT & GIS

FORT BEND GIS CONSORTIUM MEETING

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Sugar Land
Office of Emergency Management

August 20, 2024

BLUE SKIES

EMERGENCY MANAGEMENT

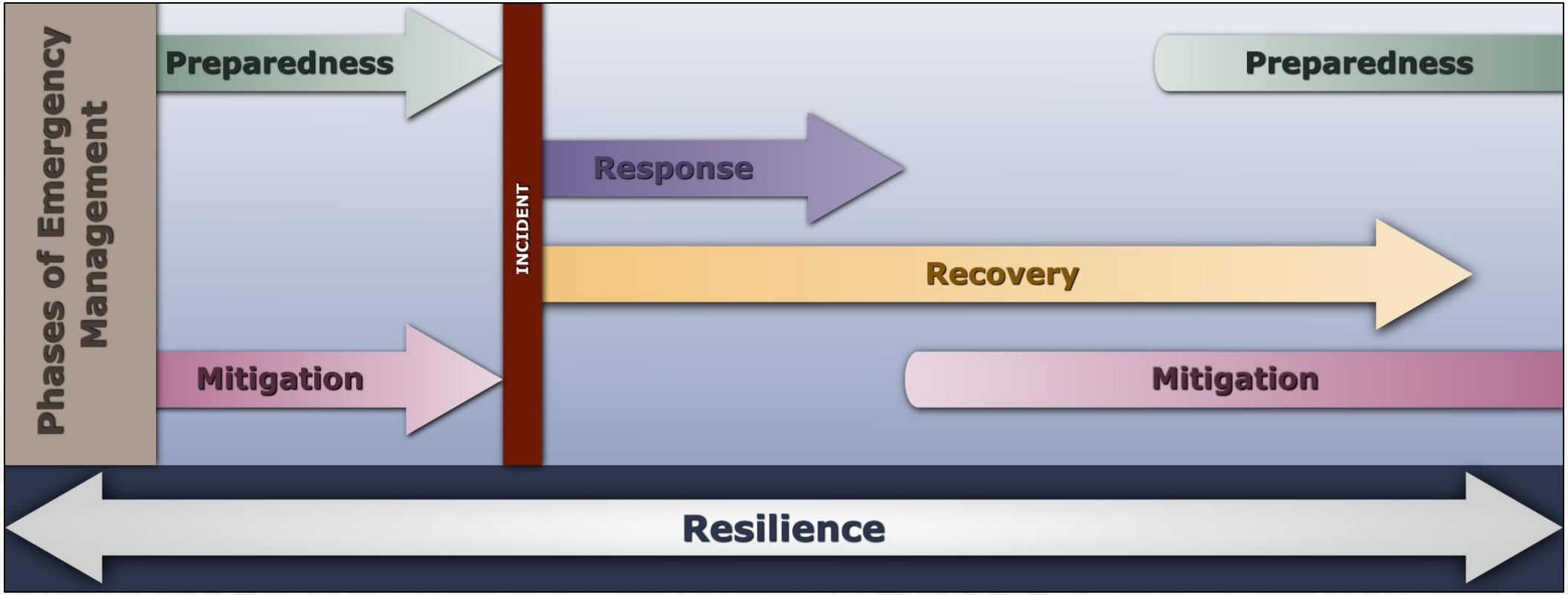
1. Bring people together

2. Share information

3. Gather information and resources

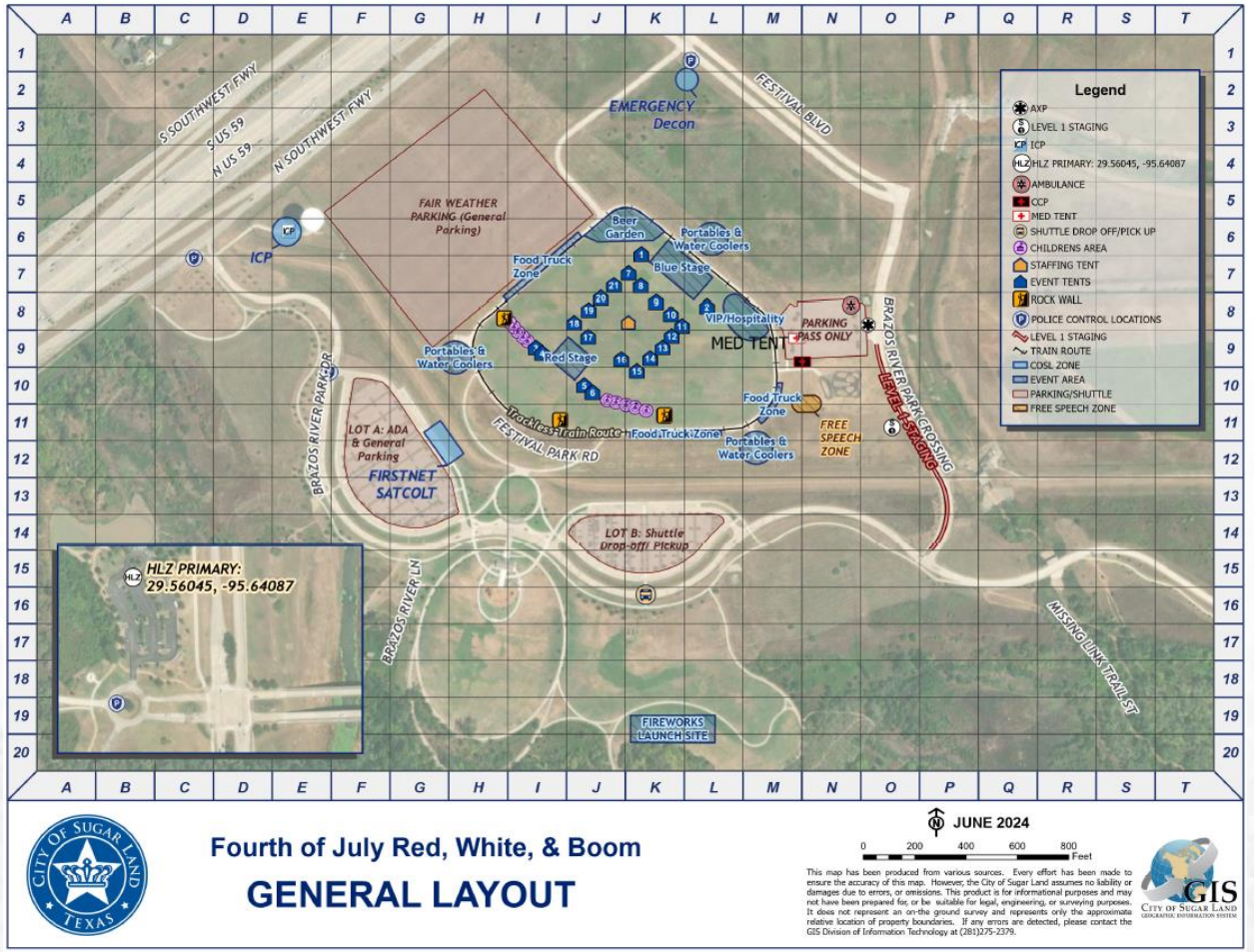
We take a whole city approach to emergency management.

PHASES OF EMERGENCY MANAGEMENT



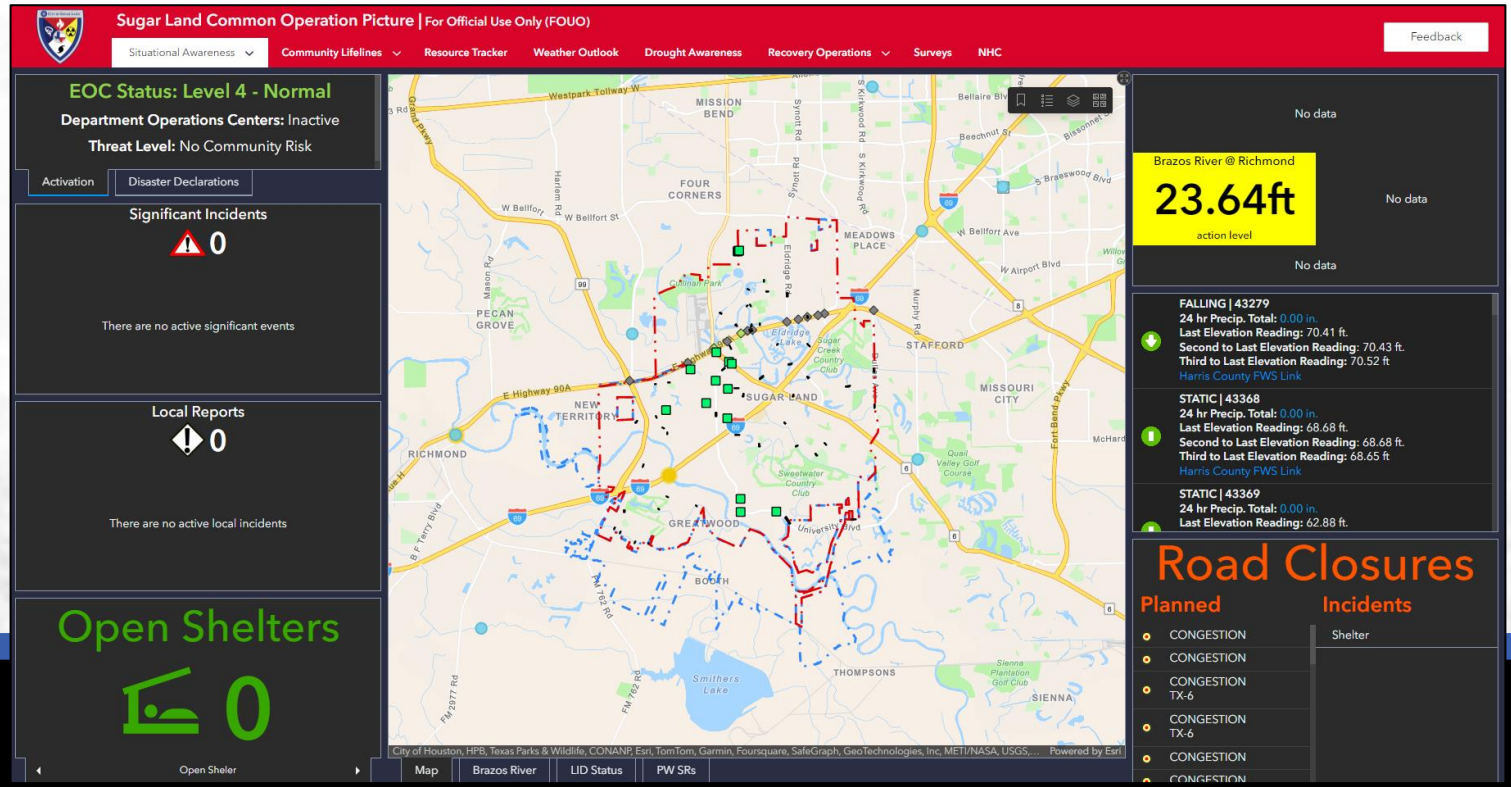
WHERE DOES GIS FIT IN?

- Special events
- Capturing data *(we love a good survey)*
- Preparing for the next disaster…



HURRICANE PREPAREDNESS TRAINING

- Common Operating Picture (updates and sustainment)
- Survey 123 and Quick Capture *(again, we love a good survey)*
- Identifying mapping needs



COSL EOC - Activity Log (ICS 214)

The Activity Log (ICS-214) is used by Team Leaders, Group Supervisors, Unit Leaders, Branch Directors, Command Staff and Section Chiefs to document k activities that occurred during an operational period. This report is d 1800 daily.

Incident:

Tropical Storm Beryl

Org Chart Unit*

Start typing the name of your Unit or use the drop down.

-Please select-

Operational Period Began*

Daily Personnel/Equipment Log

If you have any questions, please contact the Finance/Admin Section Chief

Employee*

Begin typing your last name

-Please select-

Department or Division

This field is automatically calculated from the City Roster, if your department doesn't match, do not worry

Incident Task Start Time*

Please select the date/time when you began work towards the incident (15 minute intervals)

MM/DD/YYYY

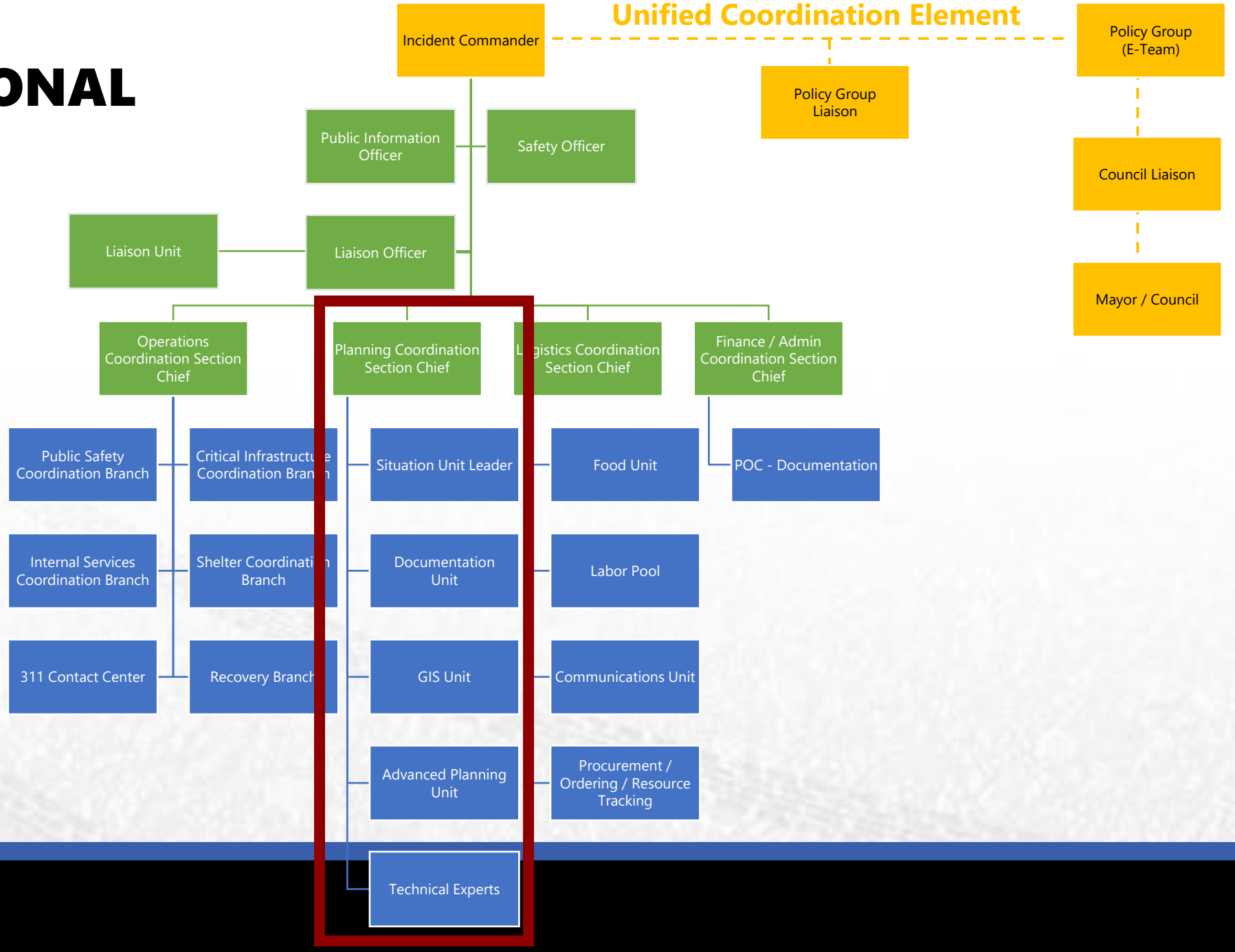
hh:mm

CITY OF SUGAR LAND TEXAS OFFICE OF EMERGENCY MANAGEMENT POLICE DEPARTMENT

GREY SKIES

(aka – during a disaster)

EOC ORGANIZATIONAL CHART

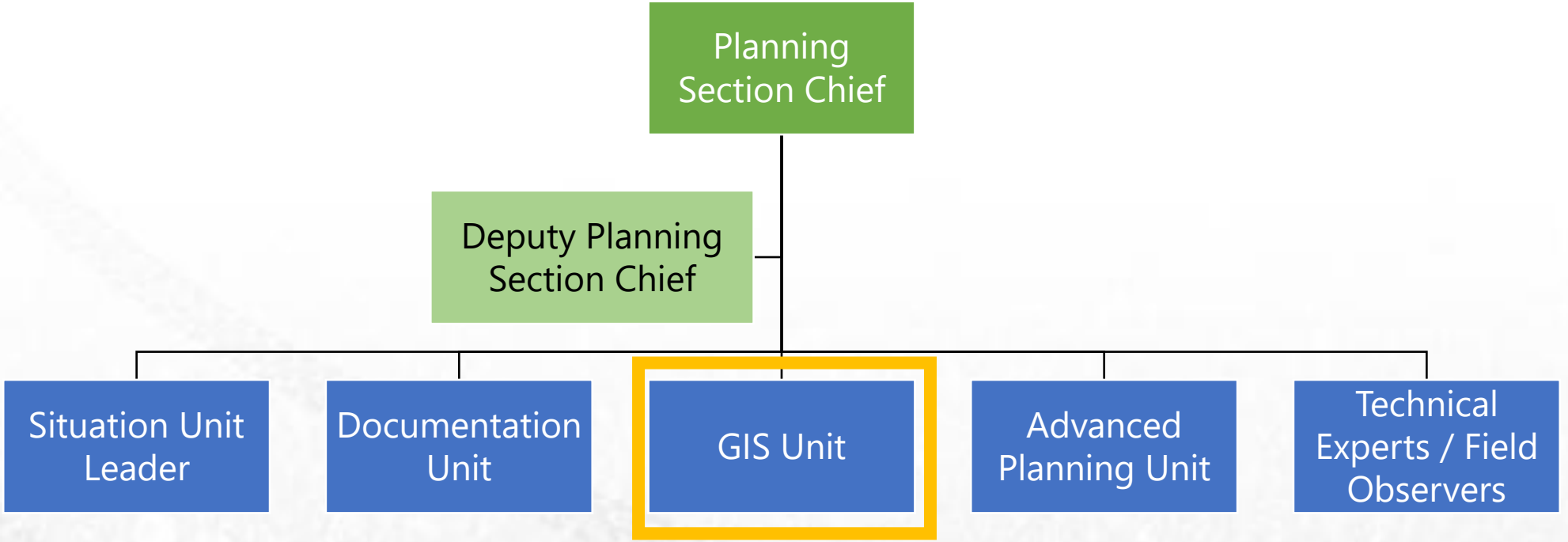


PLANNING SECTION CRITICAL TASKS

- Maintain situational awareness by collecting and managing relevant operational data.
- Process and prioritize data into intelligence.
- Manage the preparation of the incident action plan.
- Provide feedback to the Incident Commander and Operations Section Chief to support operational decision making.

The job of the Planning Section is to verify, synthesize, and communicate a clear picture to the organization/ decision makers!

EOC PLANNING SECTION - TASK ORGANIZATION



HURRICANE BERYL

The Survey Activation!

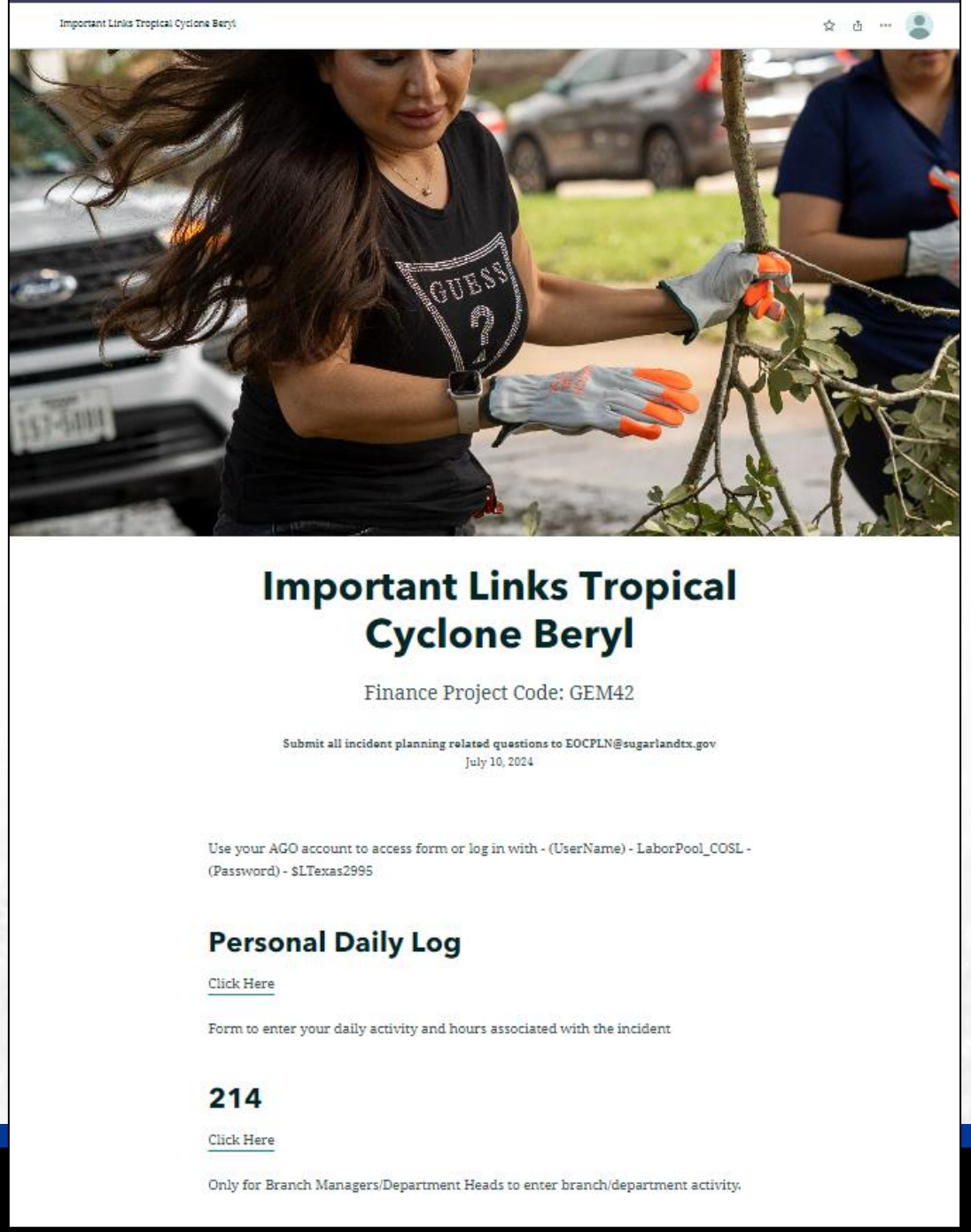
WE HAD A LOT OF INFORMATIONAL NEEDS

- Need to capture data
- Need to visualize data
- Need to map data

We're a needy group…

EXAMPLE: STORY MAP / LINK TREE

https://storymaps.arcgis.com/stories/4f9ebfc37b88453397a41546317f2c29



EXAMPLE: FOOD INSPECTIONS DASHBOARD

Food Inspection Disaster Survey Dash…

Assigned To	Type of Establish…	Zone	Status
No category sele…	No category sele…	No category sele…	No category sele…

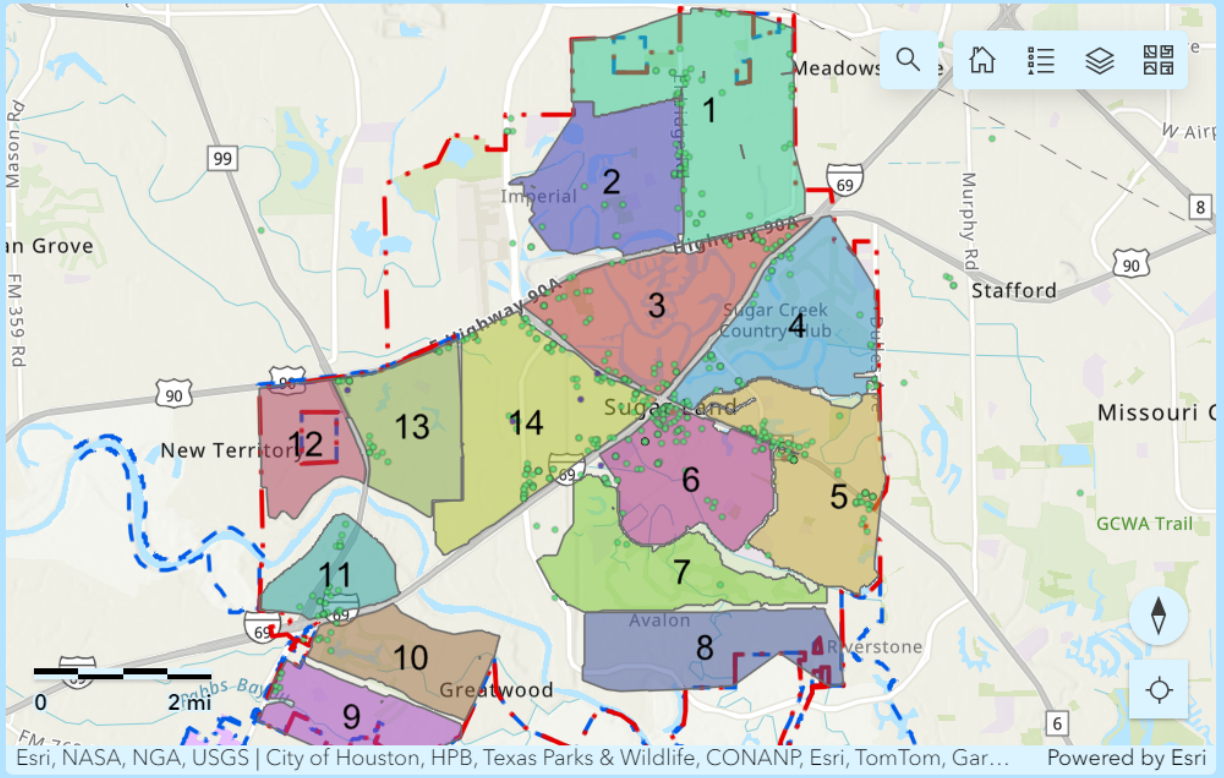
Total Inspection	Total Approved	Needs Inspection	Will Call City for Inspection	Pre Opening	Out of Business
591	582	0	6	2	1

Establishment Details:

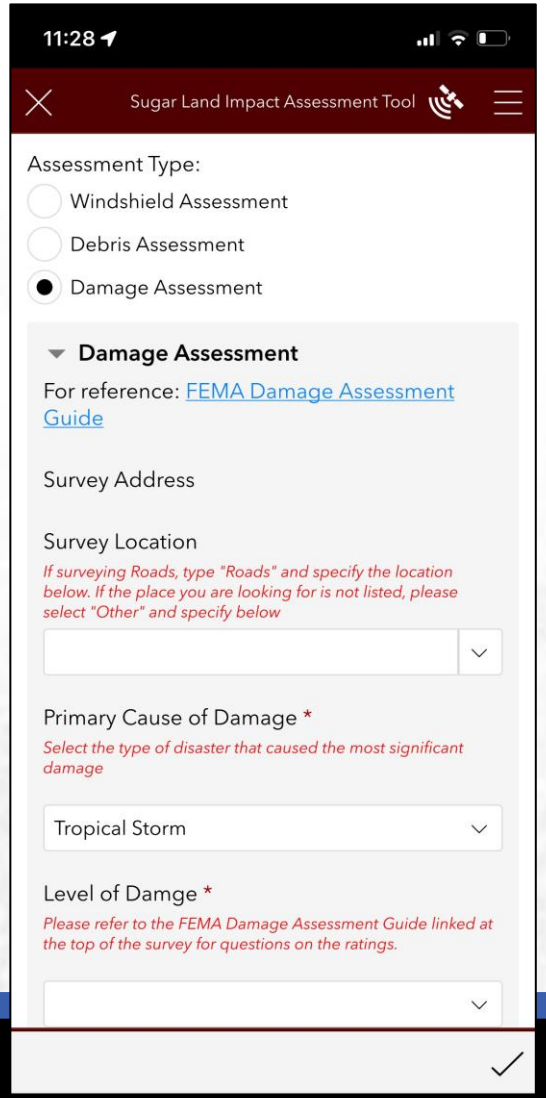
Establishment Name: 9'ERS GRILL
Address: 5870 NEW TERRITORY BLVD SUGAR LAND, TX 77479
Establishment Type: Full Service
Still in Business:
Lost Power:
Flooding:
Height of Flooding:
Damage to the building:
Status: APPROVED
Inspector: 3728

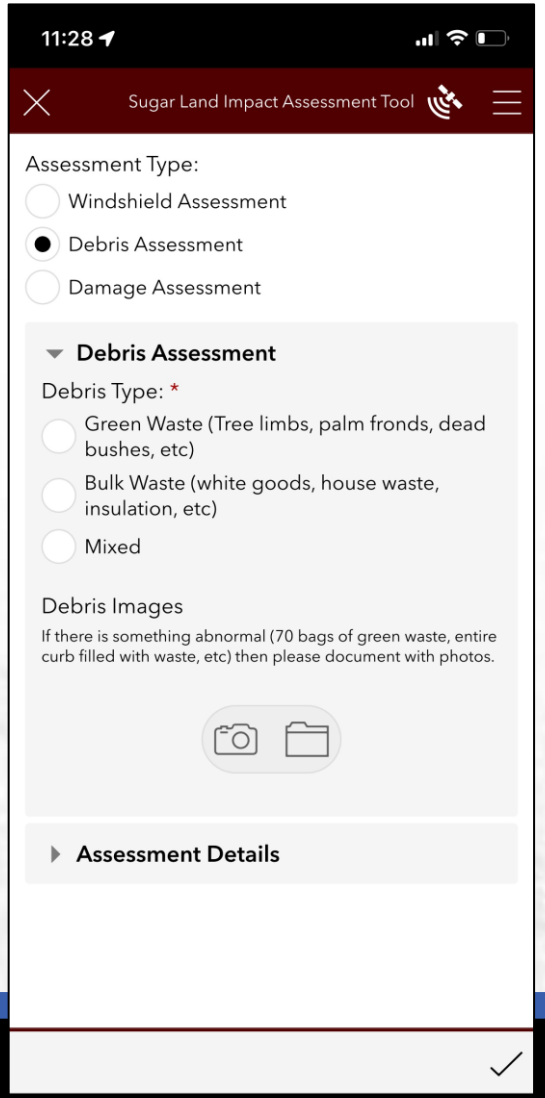
Establishment Details:

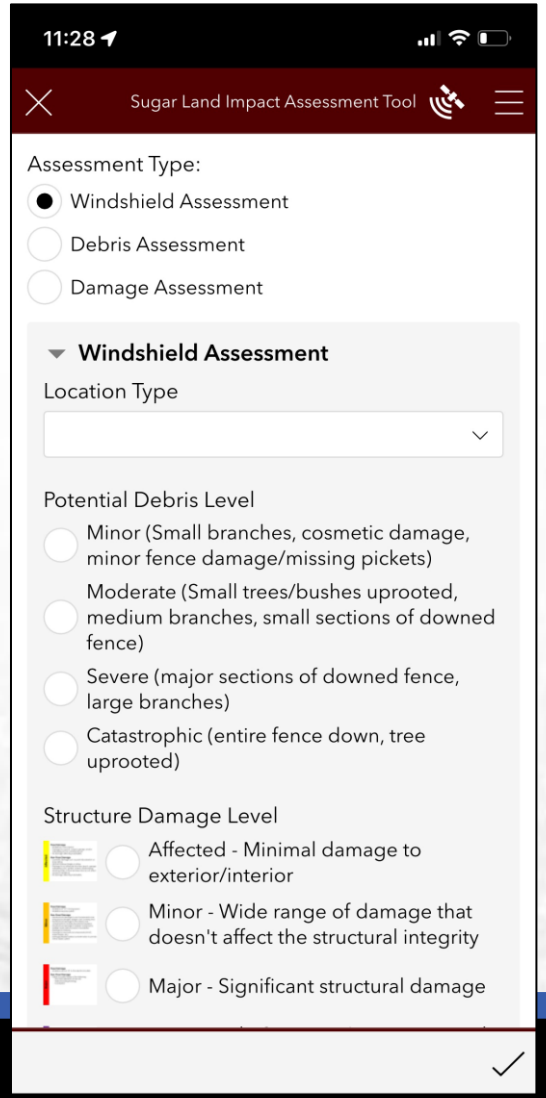
Establishment Name: 85C BAKERY CAFE
Address: 13509 UNIVERSITY BLVD STE A-200 SUGAR LAND, TX 77479
Establishment Type: Bakery
Still in Business:
Lost Power:
Flooding:
Height of Flooding:
Damage to the building:
Status: APPROVED



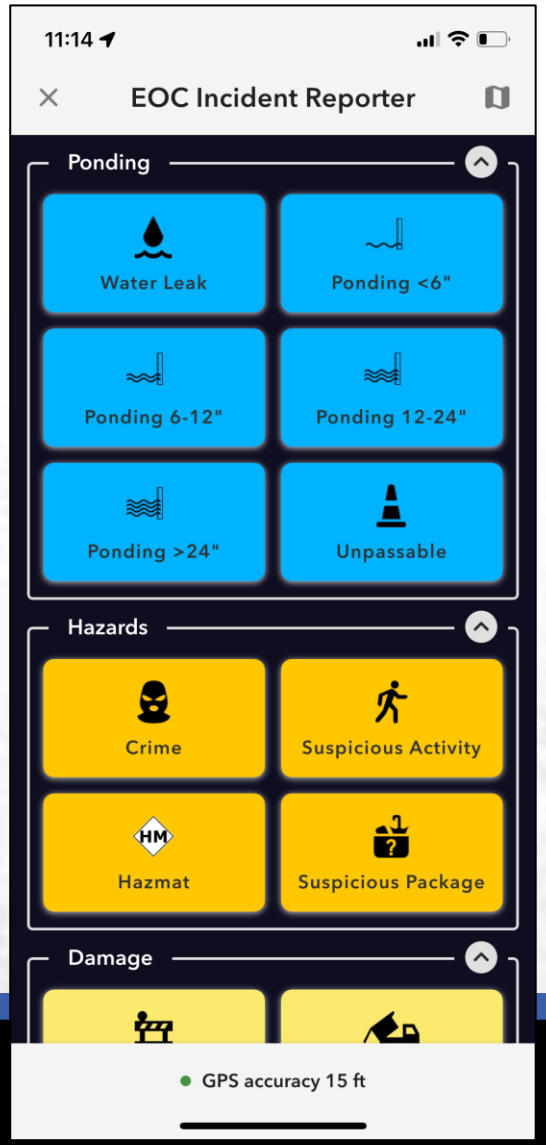
EXAMPLE: IMPACT ASSESSMENT TOOL

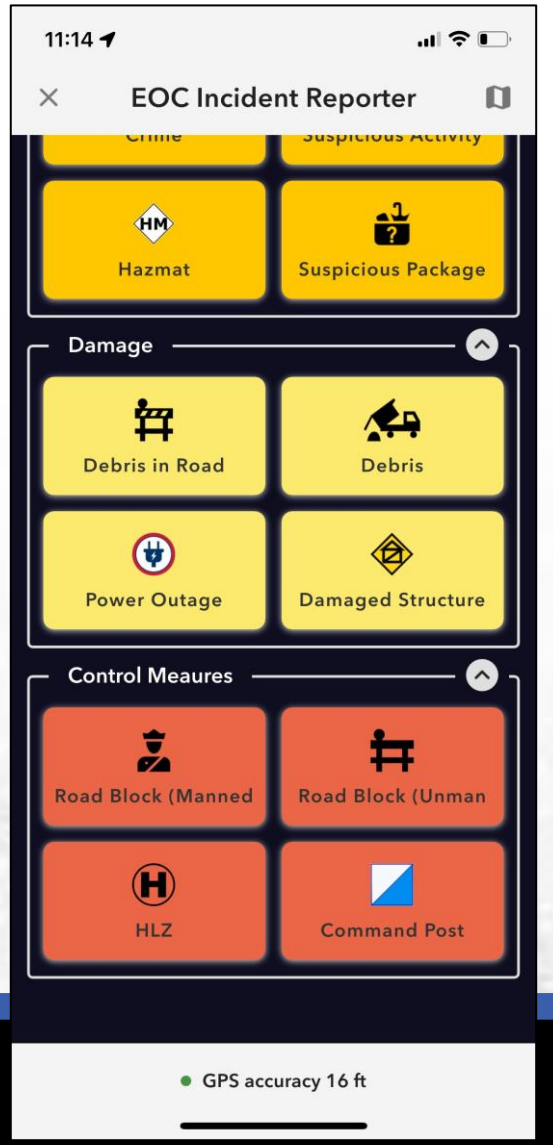






EXAMPLE: EOC INCIDENT REPORTER





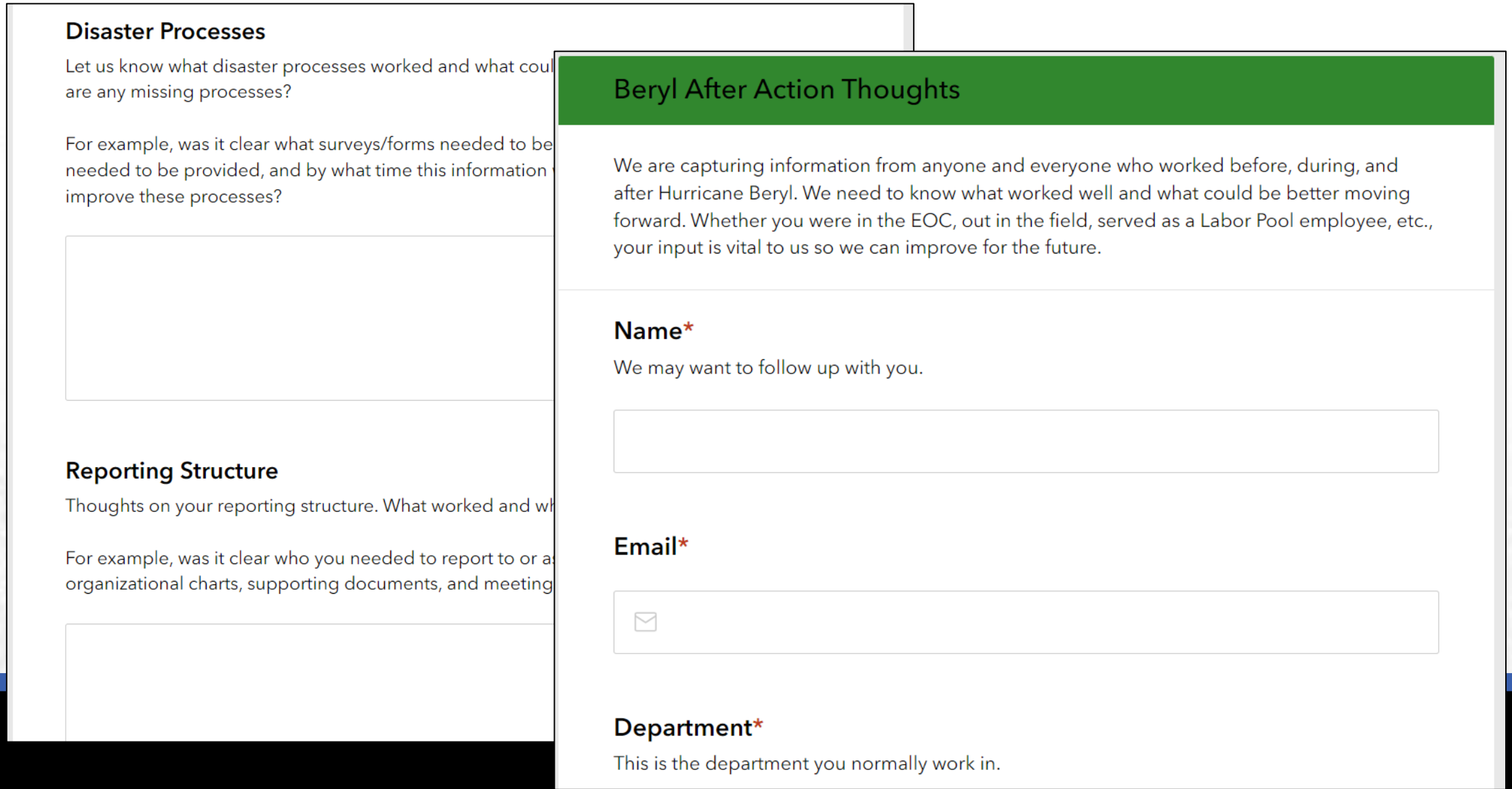
So easy even our first responders can use it!

;)

EXAMPLE: COSL CENTERPOINT OUTAGE MAP

EXAMPLE: POD SITE MAP

EXAMPLE: BERYL AFTER ACTION THOUGHTS SURVEY



Disaster Processes

Let us know what disaster processes worked and what coul
are any missing processes?

For example, was it clear what surveys/forms needed to be
needed to be provided, and by what time this information
improve these processes?

Reporting Structure

Thoughts on your reporting structure. What worked and wh

For example, was it clear who you needed to report to or a
organizational charts, supporting documents, and meeting

Beryl After Action Thoughts

We are capturing information from anyone and everyone who worked before, during, and after Hurricane Beryl. We need to know what worked well and what could be better moving forward. Whether you were in the EOC, out in the field, served as a Labor Pool employee, etc., your input is vital to us so we can improve for the future.

Name*

We may want to follow up with you.

Email*

Department*

This is the department you normally work in.

GIS BERYL INVENTORY

Tropical Cyclone Beryl GIS Product Inventory

1. Beryl Inlet Cleaning - https://cosl.maps.arcgis.com/apps/dashboards/0deb045ea9224669b63bfb524fa30d85
2. Food Inspection Disaster survey Dashboard - https://cosl.maps.arcgis.com/apps/dashboards/0655b15ebbff485cbffe906ad290be75
3. Labor Pool Requests – https://cosl.maps.arcgis.com/apps/dashboards/34737376045a4fc8baeaa137fff1deeb
4. PW Debris Pickup - https://cosl.maps.arcgis.com/apps/dashboards/035d701bb19b4008bdd85d5fdb8b8553
5. EOC Communityl Lifelines BETA TEST - https://cosl.maps.arcgis.com/apps/dashboards/5f36234b728a46c6adee8fcca3530eb6
6. Tree Damage Assessment Dashboard - https://cosl.maps.arcgis.com/apps/dashboards/908260a970144f5baeec3ca2b86d2f3b
7. Traffic Signal Outages - https://cosl.maps.arcgis.com/apps/dashboards/1241a02f87fc4442891fb659a03f94b5
8. Windshield Debris Results - https://cosl.maps.arcgis.com/apps/dashboards/2f4e50b27318494794d510570ecad601
9. POD Resource Tracker - https://cosl.maps.arcgis.com/apps/dashboards/c4a7a1905083464ca1b5aae7e8093093
10. Lift Station Status - https://cosl.maps.arcgis.com/apps/dashboards/fc5d3b88ac2e42acabdcd396ff4d8448
11. ROW Obstacles - https://cosl.maps.arcgis.com/apps/dashboards/58c861fc6c9744abbf2d2178524ad231
12. COSL Center Point Restoration Process - https://cosl.maps.arcgis.com/apps/dashboards/712eed167b54471bbcb13b2609e87b00
13. Beryl Debris Response - https://cosl.maps.arcgis.com/apps/dashboards/07337d858bd448edba6b670a93dc2be8
14. Debris Assessment - https://cosl.maps.arcgis.com/apps/dashboards/b4c5c5b5c94d43b5b69b6fae8136f816
15. Personnel Report – Finance Section Chief - https://cosl.maps.arcgis.com/apps/dashboards/5ec5183edfa3494ba49f9772934bfcfd
16. Important Links Tropical Cyclone Beryl - https://storymaps.arcgis.com/stories/4f9abfc37b88453397a41546317f2c29
17. Beryl After Action Thoughts Survey - https://arcg.is/1ySXS00
18. Tree Damage Assessment Survey - https://arcg.is/PnnDn
19. Labor Pool Request Form Survey - https://arcg.is/0mze0D
20. Right of Entry Form Survey - https://arcg.is/0qb4Xq1
21. Parks Debris Survey - https://arcg.is/1v4nbD
22. SL Impact Assessment Tool Survey - https://arcg.is/1PKW0T1
23. ICS 214 Log Survey - https://survey123.arcgis.com/share/ee3dbbc183384305bcf58c4a9180edda
24. Purchasing Log Survey - https://survey123.arcgis.com/share/ecdca8e8e1dc43fb9bfe7dd71e23ecda
25. Daily Personnel and Equipment Log Survey - https://survey123.arcgis.com/share/cbe88f31ead0483ba26efb5b1837845d

Tropical Cyclone Beryl GIS Product Inventory

26. Common Operating Picture (COP)- EOC Common Operations Picture (arcgis.com)
27. City Debris Pickup QuickCapture - https://arcg.is/1yn1q81
28. Storm Drain Clearing QuickCapture - https://arcg.is/1OLi4q0
29. EOC Incident Reporter QuickCapture - https://arcg.is/eCm0W
30. Beryl PW Response - https://experience.arcgis.com/experience/1fad9cdd68d24042bebe14ba92a1e3b3
31.

QUESTIONS?

OEM TEAM

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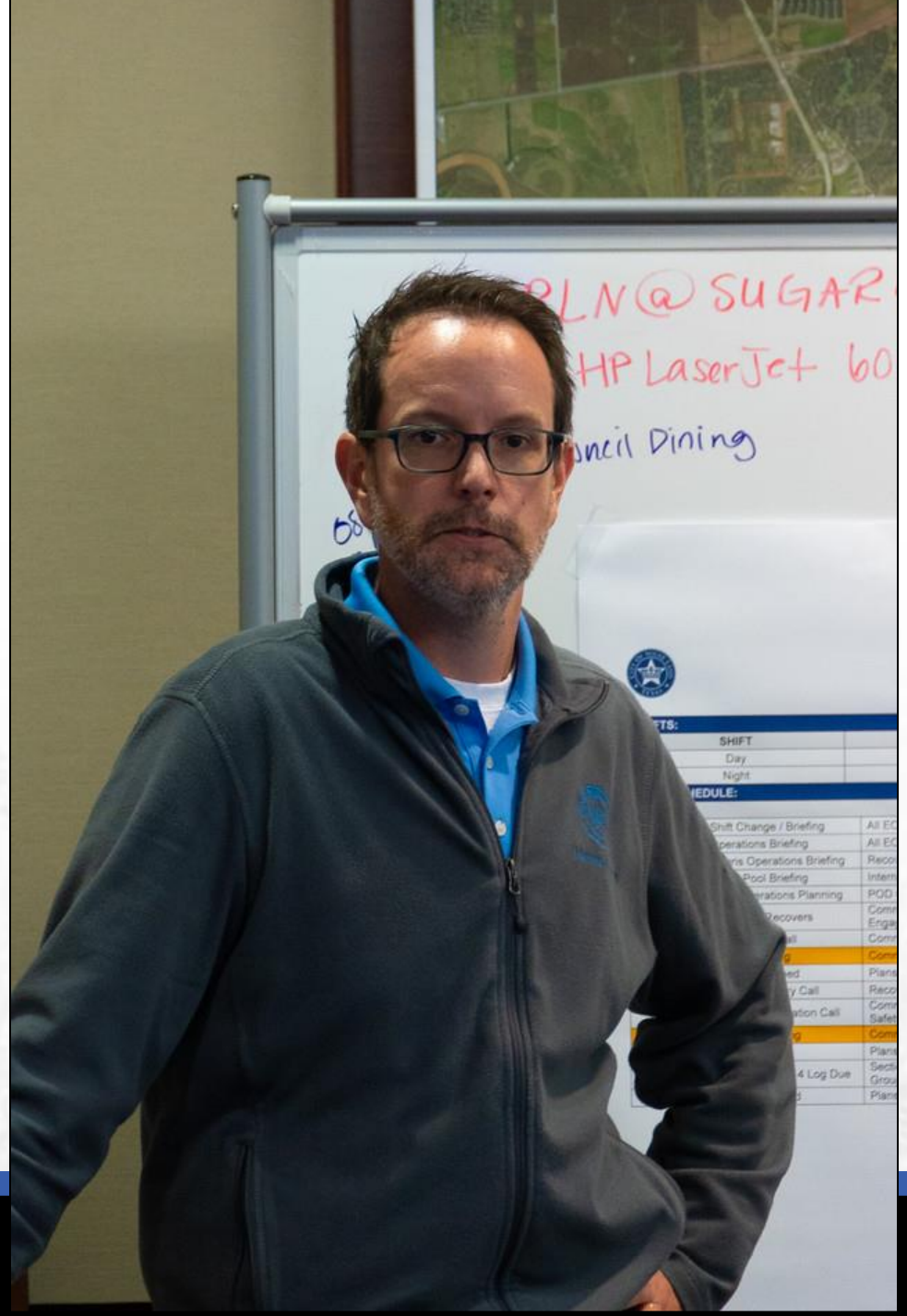
HP LaserJet
SHIFT
Day
Night