

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

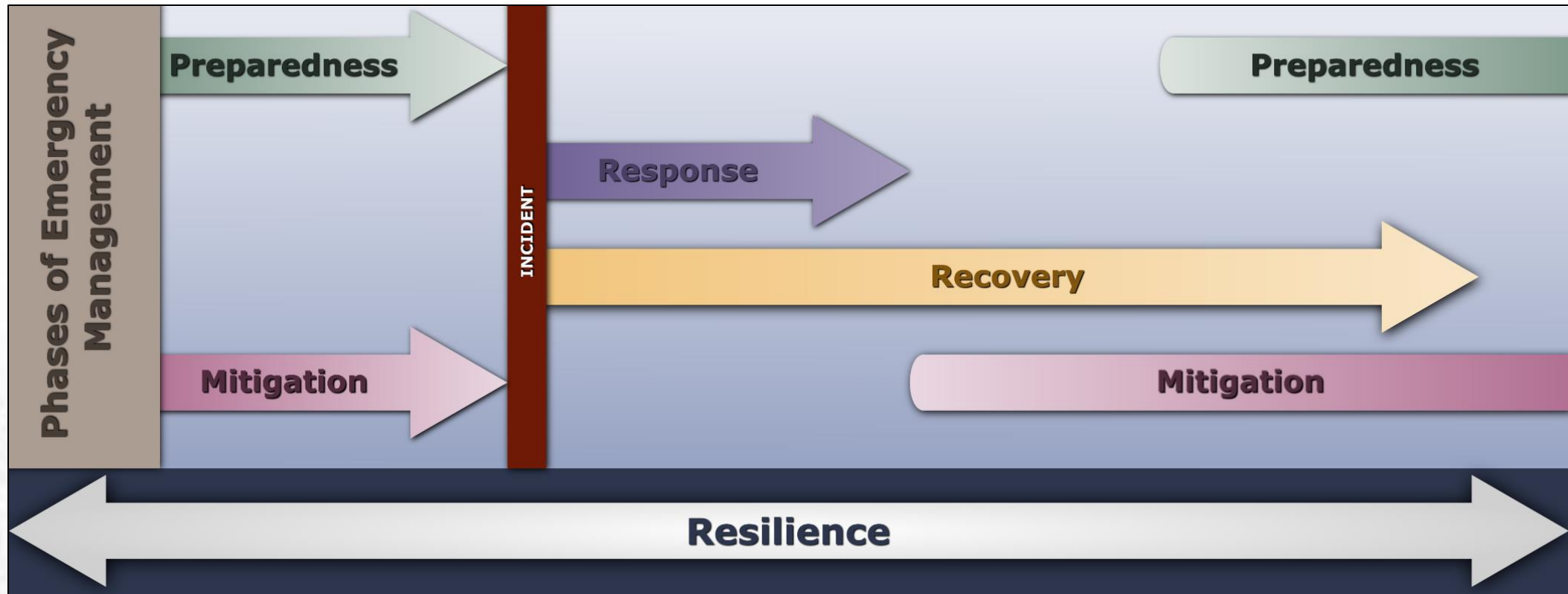
1. Bring people together
2. Share information
3. Gather information and resources



We take a whole city approach to emergency management.

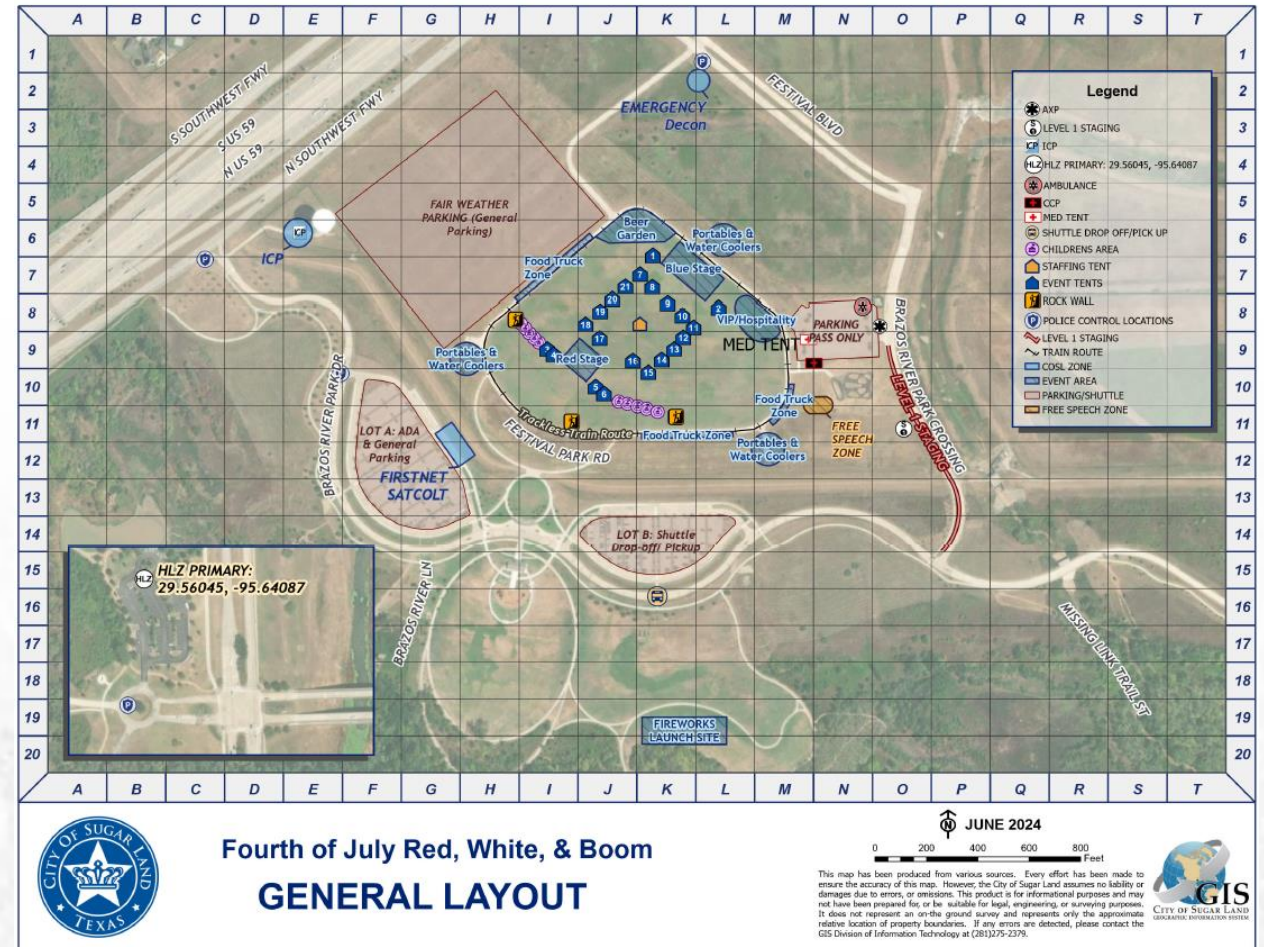


PHASES OF EMERGENCY MANAGEMENT



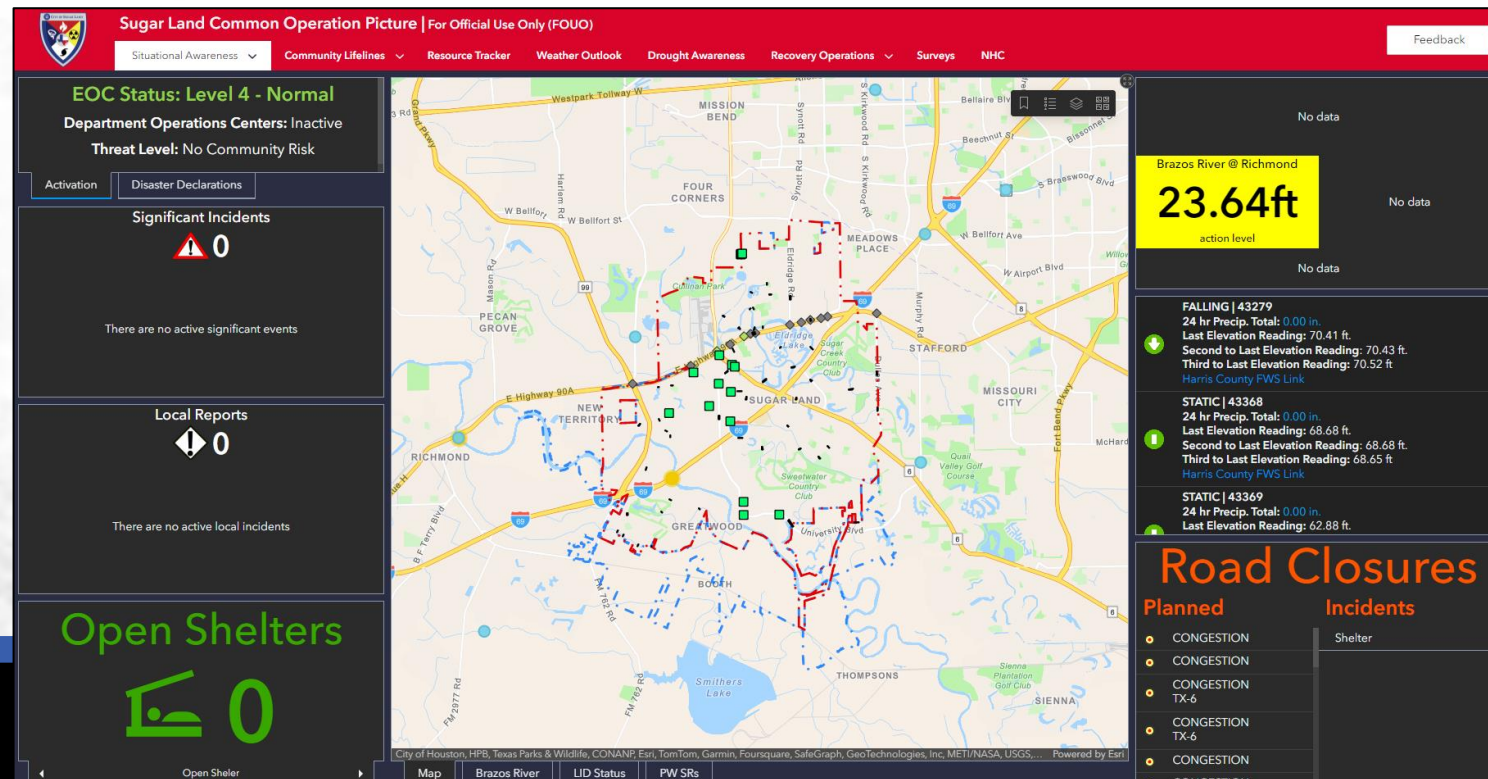
WHERE DOES GIS FIT IN?

- 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 key activities that occurred during an operational period. This report is due by 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

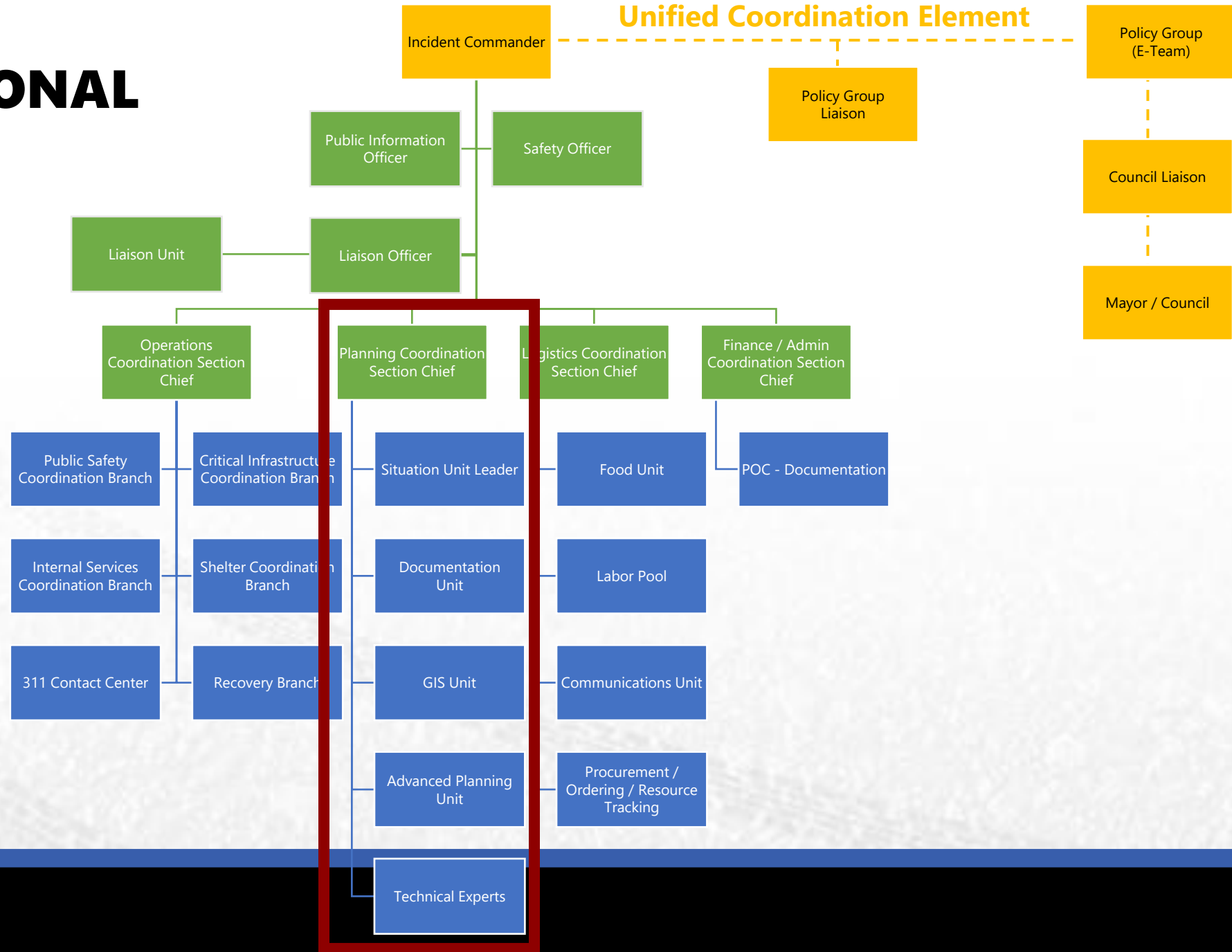
hh:mm

GREY SKIES

(aka – during a disaster)



EOC ORGANIZATIONAL CHART



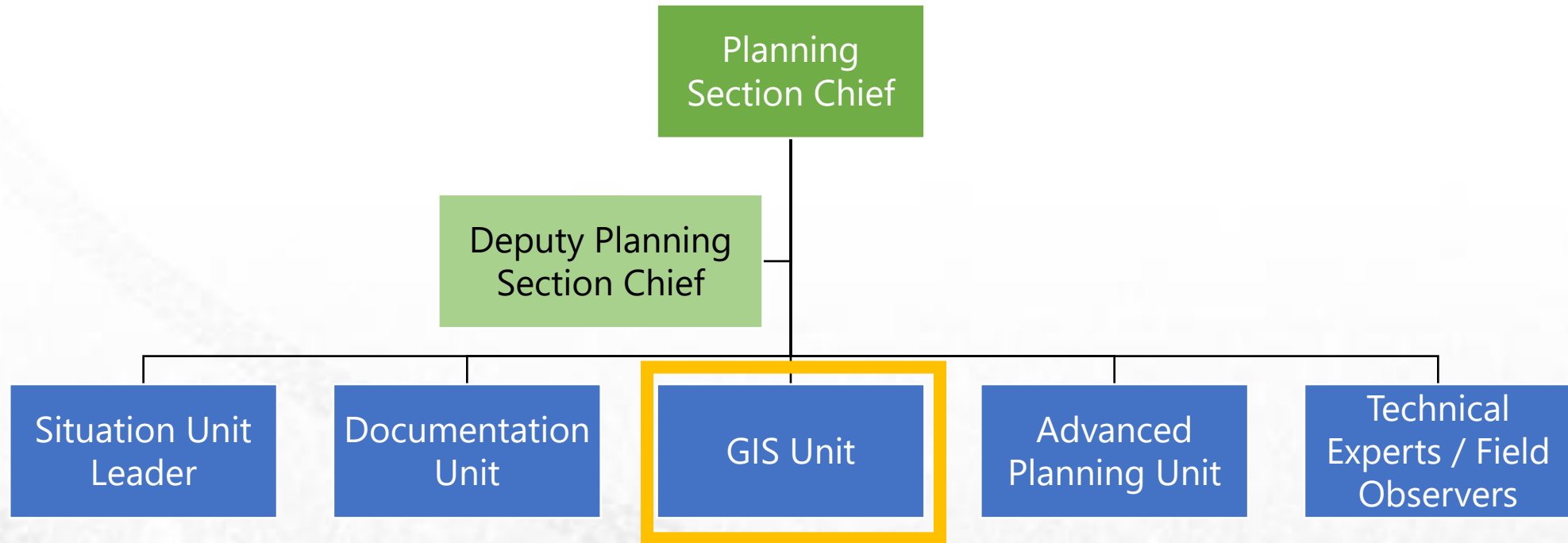
PLANNING SECTION CRITICAL TASKS

- 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>



Important Links Tropical Cyclone Beryl



Important Links Tropical Cyclone Beryl

Finance Project Code: GEM42

Submit all incident planning related questions to EOCPLN@sugarlandtx.gov
July 10, 2024

Use your AGO account to access form or log in with - (UserName) - LaborPool_COSL -
(Password) - \$LTexas2995

Personal Daily Log

[Click Here](#)

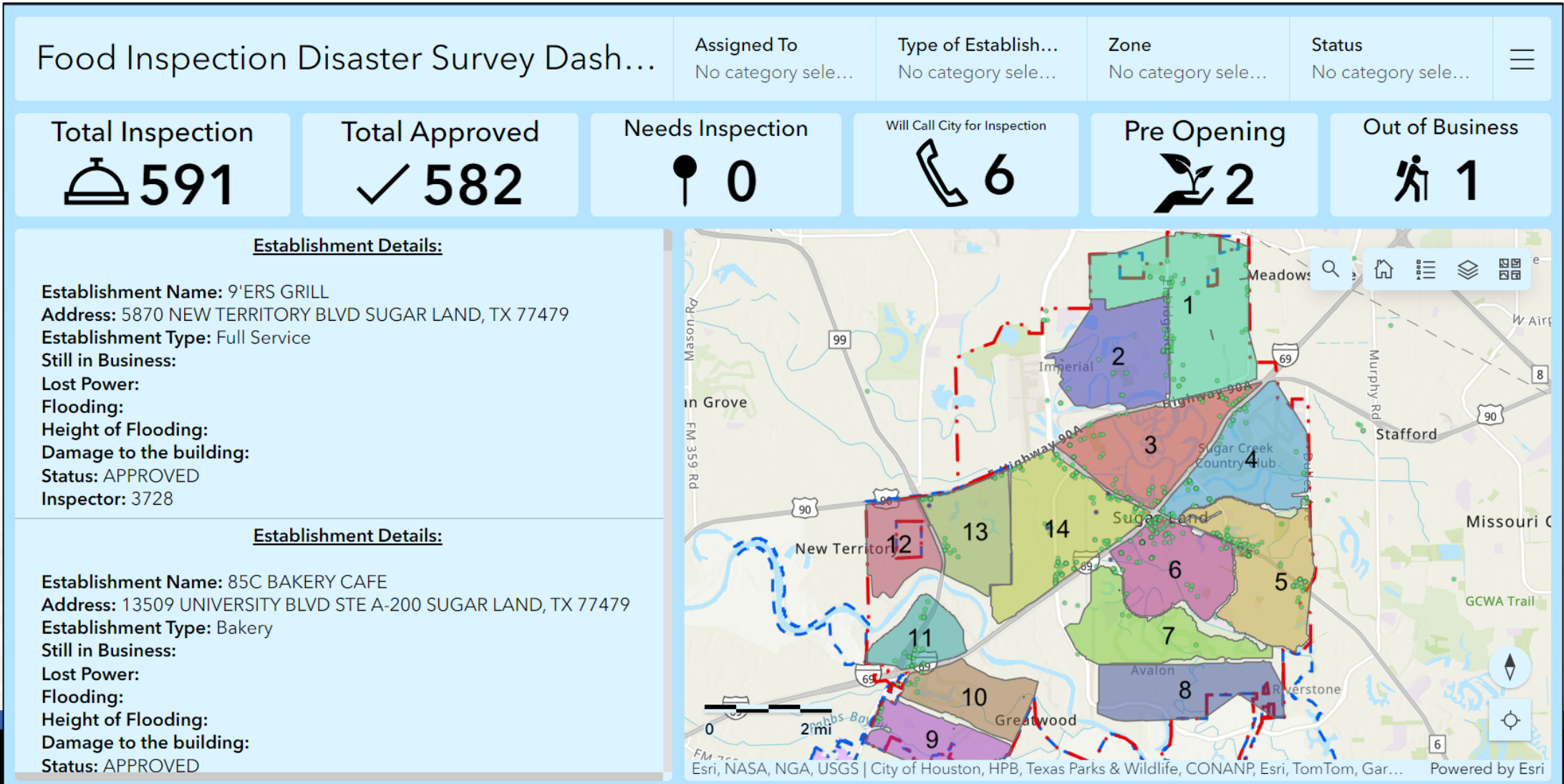
Form to enter your daily activity and hours associated with the incident

214

[Click Here](#)

Only for Branch Managers/Department Heads to enter branch/department activity.

EXAMPLE: FOOD INSPECTIONS DASHBOARD



EXAMPLE: IMPACT ASSESSMENT TOOL

11:28

Sugar Land Impact Assessment Tool

Assessment Type:

☐ Windshield Assessment

☐ Debris Assessment

☒ Damage Assessment

▼ Damage Assessment

For reference: [FEMA Damage Assessment Guide](#)

Survey Address

Survey Location

If surveying Roads, type "Roads" and specify the location below. If the place you are looking for is not listed, please select "Other" and specify below

Primary Cause of Damage *

Select the type of disaster that caused the most significant damage

Level of Damage *

Please refer to the FEMA Damage Assessment Guide linked at the top of the survey for questions on the ratings.

✓

11:28

Sugar Land Impact Assessment Tool

Assessment Type:

☐ Windshield Assessment

☒ Debris Assessment

☐ Damage Assessment

▼ Debris Assessment

Debris Type: *

☐ Green Waste (Tree limbs, palm fronds, dead bushes, etc)

☐ Bulk Waste (white goods, house waste, insulation, etc)

☐ Mixed

Debris Images

If there is something abnormal (70 bags of green waste, entire curb filled with waste, etc) then please document with photos.

▶ Assessment Details

✓

11:28

Sugar Land Impact Assessment Tool

Assessment Type:

☒ Windshield Assessment

☐ Debris Assessment

☐ Damage Assessment

▼ Windshield Assessment

Location Type

Potential Debris Level

☐ Minor (Small branches, cosmetic damage, minor fence damage/missing pickets)

☐ Moderate (Small trees/bushes uprooted, medium branches, small sections of downed fence)

☐ Severe (major sections of downed fence, large branches)

☐ Catastrophic (entire fence down, tree uprooted)

Structure Damage Level

☐ Affected - Minimal damage to exterior/interior

☐ Minor - Wide range of damage that doesn't affect the structural integrity

☐ Major - Significant structural damage

✓



EXAMPLE: EOC INCIDENT REPORTER

11:14

EOC Incident Reporter

Ponding

Water Leak	Ponding <6"
Ponding 6-12"	Ponding 12-24"
Ponding >24"	Unpassable

Hazards

Crime	Suspicious Activity
Hazmat	Suspicious Package

Damage

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GPS accuracy 15 ft

11:14

EOC Incident Reporter

Crime

Suspicious Activity

Hazmat	Suspicious Package
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Damage

Debris in Road	Debris
Power Outage	Damaged Structure

Control Measures

Road Block (Manned)	Road Block (Unman)
HLZ	Command Post

GPS accuracy 16 ft

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 could be improved. Are there any missing processes?

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

Reporting Structure

Thoughts on your reporting structure. What worked and what could be improved?

For example, was it clear who you needed to report to or ask for help? Were there any organizational charts, supporting documents, and meeting notes?

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/0deb045ea9224669b63bb524fa30d85>
2. Food Inspection Disaster ~~Survey~~ Dashboard - <https://cosl.maps.arcgis.com/apps/dashboards/0655b15ebbf485cbff906ad290be75>
3. Labor Pool Requests - <https://cosl.maps.arcgis.com/apps/dashboards/34737376045a4fc8baaa137ff1deeb>
4. PW Debris Pickup - <https://cosl.maps.arcgis.com/apps/dashboards/035d701bb19b4008bdd85d5fdbb8b8553>
5. ~~EOC Community Liaison~~ BETA TEST - <https://cosl.maps.arcgis.com/apps/dashboards/5f36234b728a46c6adce8fca3530eb6>
6. Tree Damage Assessment Dashboard - <https://cosl.maps.arcgis.com/apps/dashboards/908260a970144f5bbaec3ca2b86d2f3b>
7. Traffic Signal Outages - <https://cosl.maps.arcgis.com/apps/dashboards/1241a02f87c4442891fb659a03f94b5>
8. Windshield Debris Results - <https://cosl.maps.arcgis.com/apps/dashboards/2f4a50b27318494794d510570ecad501>
9. POD Resource Tracker - <https://cosl.maps.arcgis.com/apps/dashboards/c4a7a1905083464ca1b5aa7e8093093>
10. Lift Station Status - <https://cosl.maps.arcgis.com/apps/dashboards/fc5d3b88ac2a42acabdc396f4d8448>
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/b4c5c5b5c94d43b5b69b6fae8136816>
15. Personnel Report – Finance Section Chief - <https://cosl.maps.arcgis.com/apps/dashboards/5ec6183edfa3494ba49f9772934bfcfd>
16. Important Links Tropical Cyclone Beryl - <https://storymaps.arcgis.com/stories/4f9ebfc37b88453397a415463172c29>
17. Beryl After Action Thoughts Survey - <https://arcg.is/1yXS00>
18. Tree Damage Assessment Survey - <https://arcg.is/PnnDn>
19. Labor Pool Request Form Survey - <https://arcg.is/0mzeDD>
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/ee3d3bhc183384305bfc58c4a9180edda>
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~~ <https://arcg.is/1yn1q81>
27. City Debris Pickup ~~Quick Capture~~ - <https://arcg.is/1Q1Idq0>
28. Storm Drain Clearing ~~Quick Capture~~ - <https://arcg.is/1Q1Idq0>
29. EOC Incident Reporter ~~Quick Capture~~ - <https://arcg.is/aCm0W>
30. Beryl PW Response - <https://experience.arcgis.com/experience/1fad9c-dd68d24042babe14ba92a1e3b3>
31. |



QUESTIONS?



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