

# How to turn your EOC data into real-time decisions



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**One Picture. One Team. One Truth.**



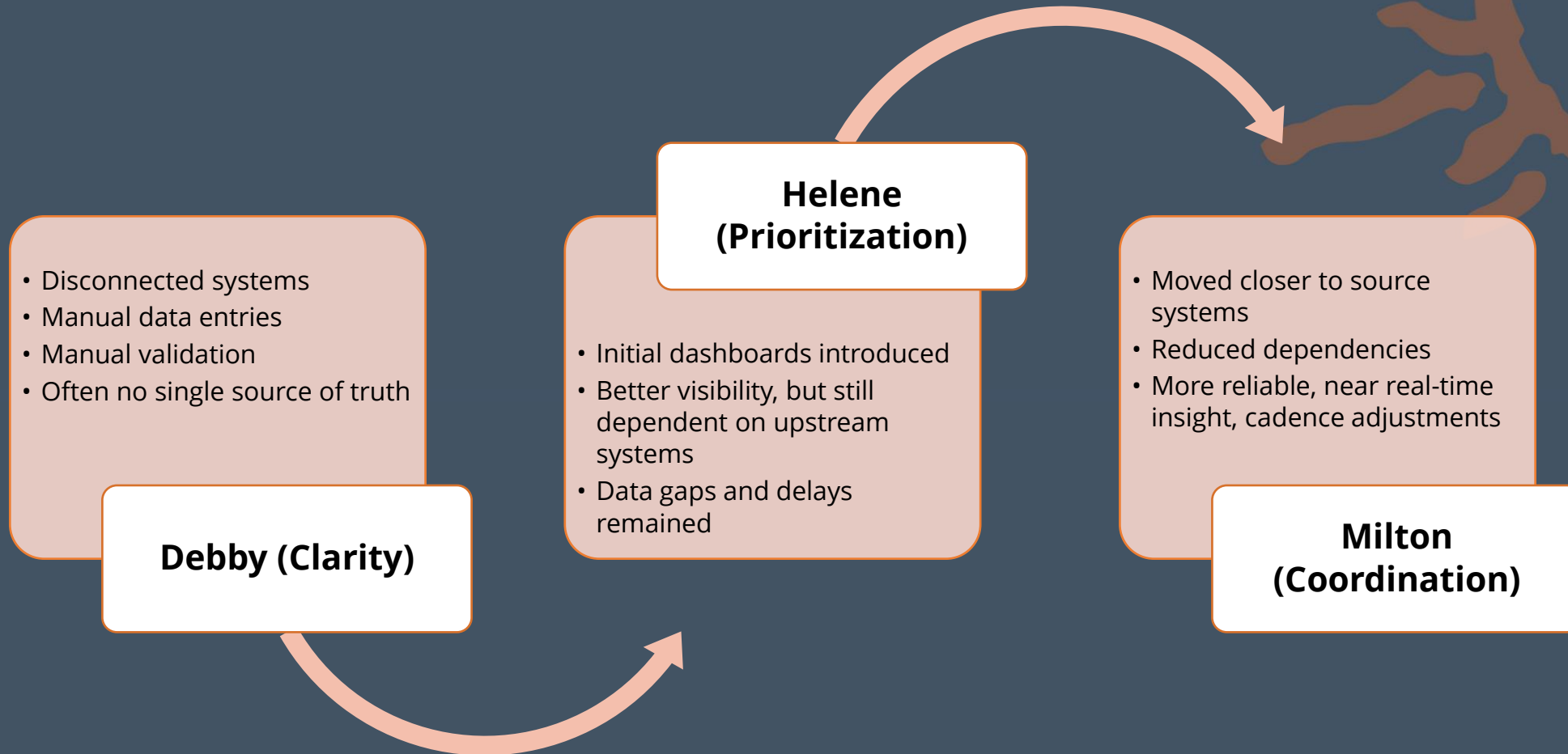
# The Problem

- Call volume overwhelms intake and tracking within hours
- Critical data lives in different systems and teams
- Information is outdated almost as soon as it's reported
- Leadership is forced to make decisions without one real-time picture

**This is what breaks before your response does.**



# 2024 Hurricane Season Reality



One Picture. One Team. One Truth.

# Our Approach: Simplify the Chaos

## 1. Bring data together

- Eliminate silos across systems and teams

## 2. Reduce dependencies

- Minimize failure points between systems

## 3. Get closer to the source

- Improve speed and trust in the data



**One Picture. One Team. One Truth.**

# What We Built

- 1. Integrated data from multiple systems**
  - County and external data in one place
- 2. Real-time operational dashboards**
  - Gauges, incidents, and operational status
- 3. Automated data pipelines**
  - Eliminates manual updates and delays
- 4. Data-driven prioritization (Vulnerability Index)**
  - Focus on what matters first



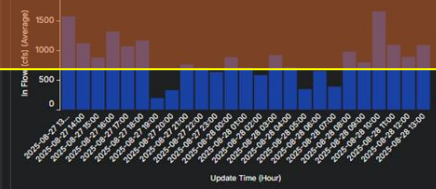
**One Picture. One Team. One Truth.**

Critical infrastructure monitoring to support protective decisions

Real time status to prioritize outages, crews, and public impacts

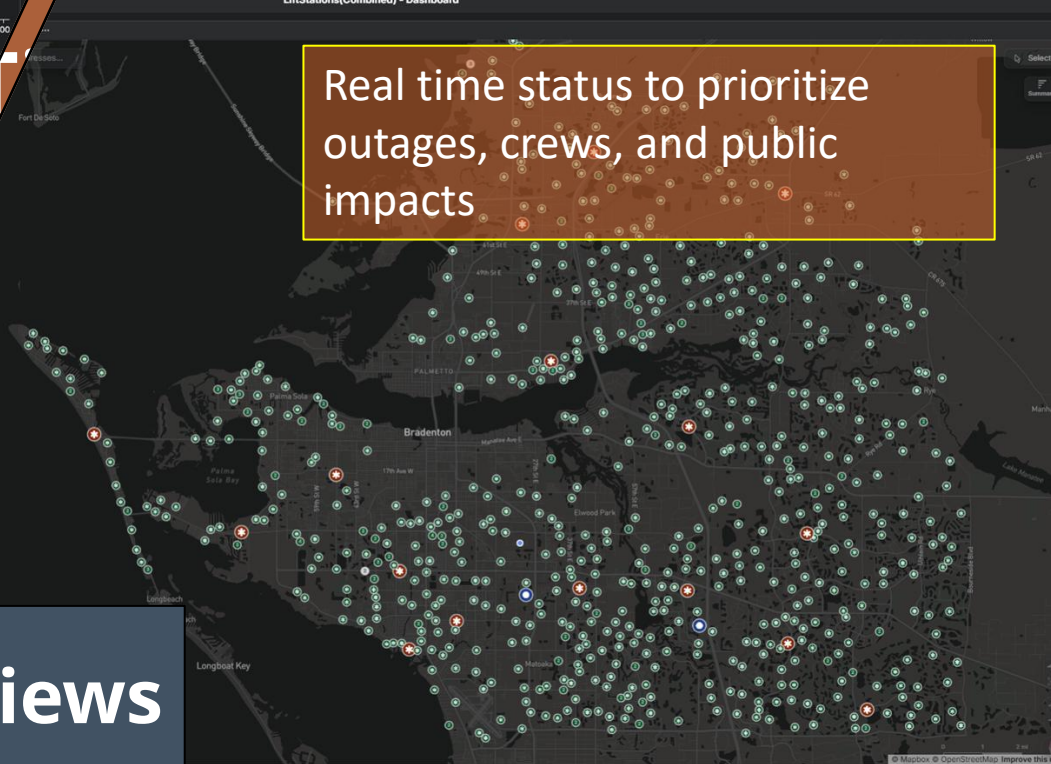
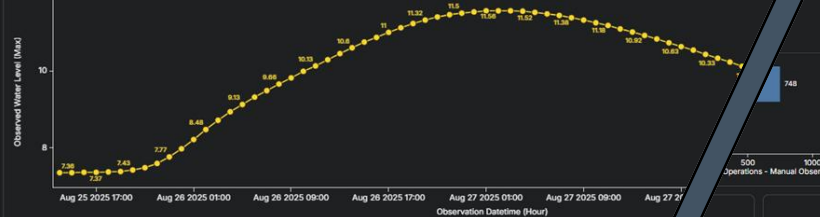
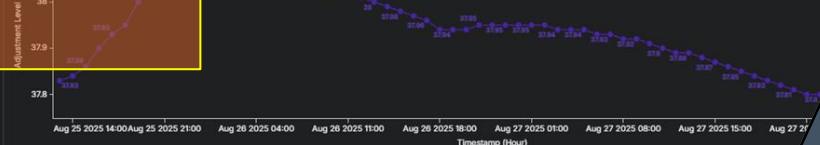
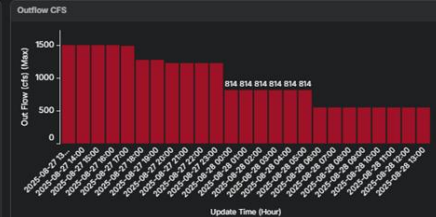
1,087

Inflow CFS



548

Outflow CFS



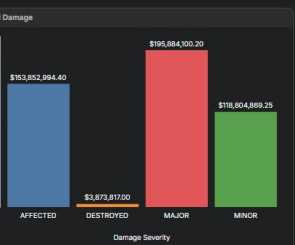
# New Operational Views

\$512,040,701

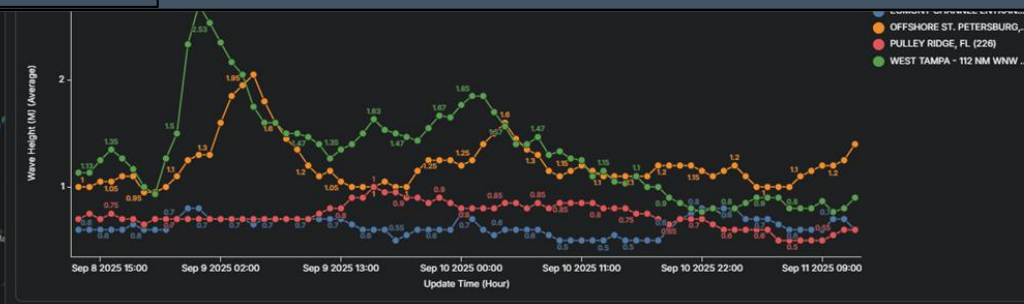
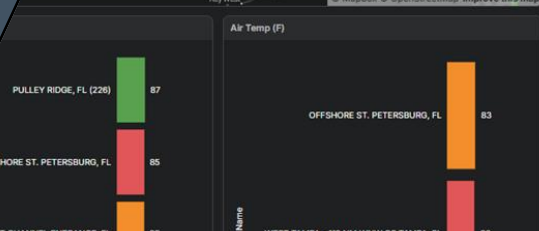
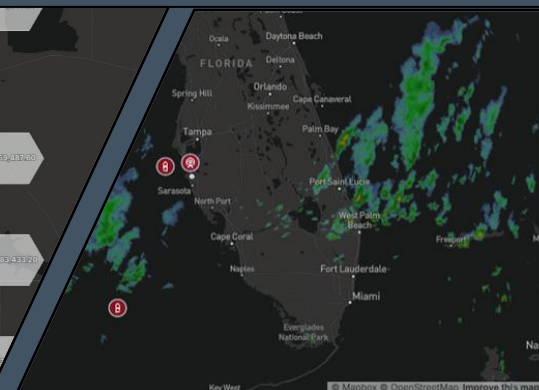
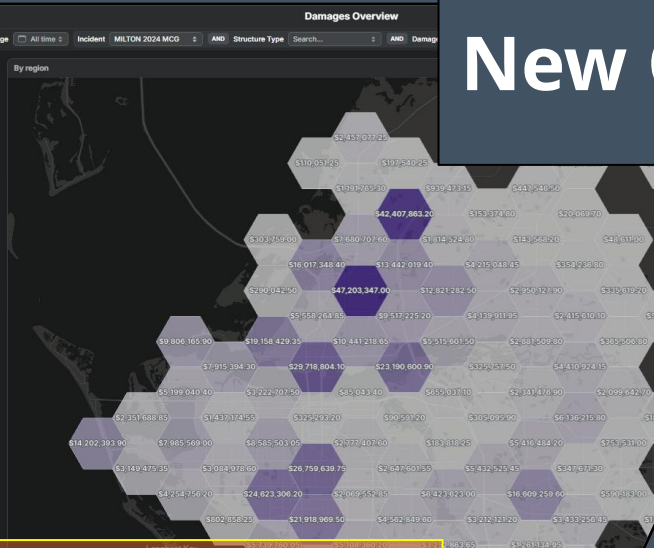
Manatee County Combined Damage

16,541

Total County Evaluations



Field updates that accelerate reporting, prioritization, and recovery



Station Name	Wave Height (M)	Update Time	Air Temperature (C)	Water Temperature (C)	Source
WEST TAMPA - 112 NM WNW OF TAMPA, FL	0.9	11 Sep 2025, 12:40	26.7	28.9	NDBC   NATIONAL DATA ...
Offshore St. Petersburg, FL	1.3	11 Sep 2025, 12:30	28.1	29.4	SCRIPPS INSTITUTION O...
Egmont Channel Entrance, FL	0.8	11 Sep 2025, 12:26	28.2	28.2	SCRIPPS INSTITUTION O...
Pulley Ridge, FL (226)	0.8	11 Sep 2025, 12:26	28.2	28.2	SCRIPPS INSTITUTION O...
8728384 - Port Manatee, FL	No value	11 Sep 2025, 12:18	28.4	28.5	PORTS   NOAA NOS POR...

Real time wave height and marine conditions to support coastal safety, closures, and response.

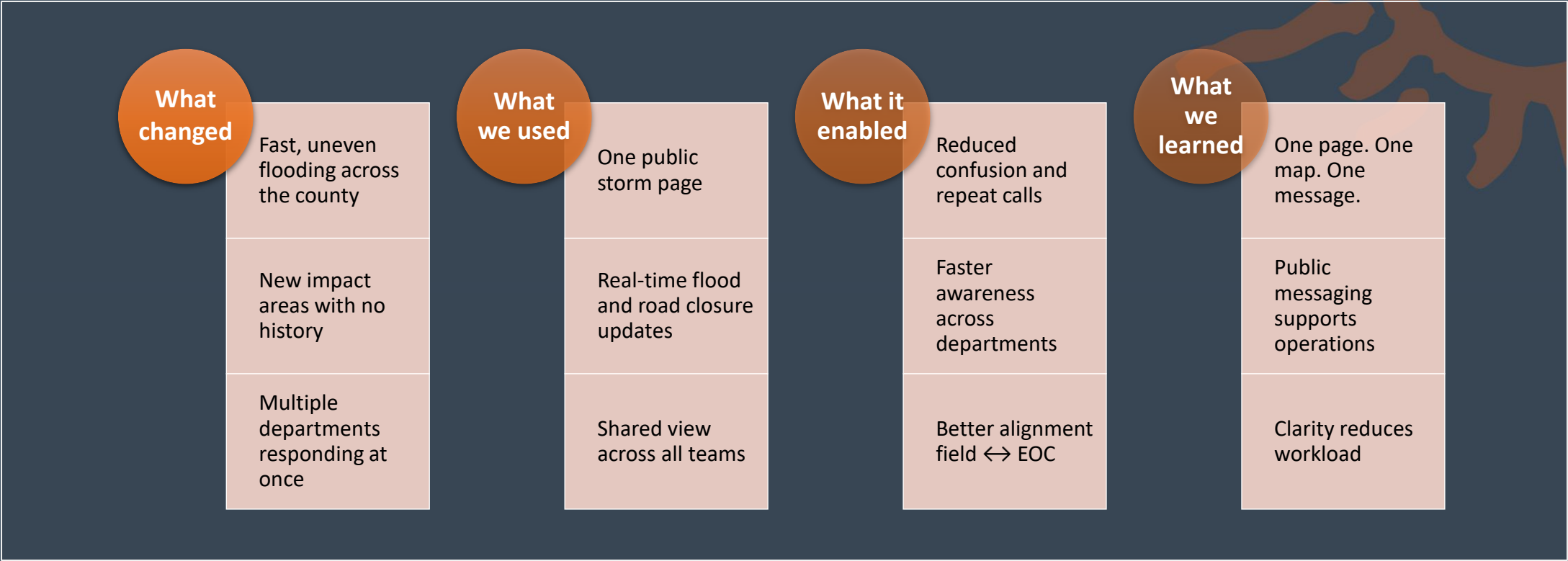


# **DEBBY** "RAIN EVENT"

08/03/2024

- Record rainfall and widespread flooding
  - Impacts in unexpected areas
  - High demand for coordination

# Our Debby: From Confusion to Clarity



One Picture. One Team. One Truth.

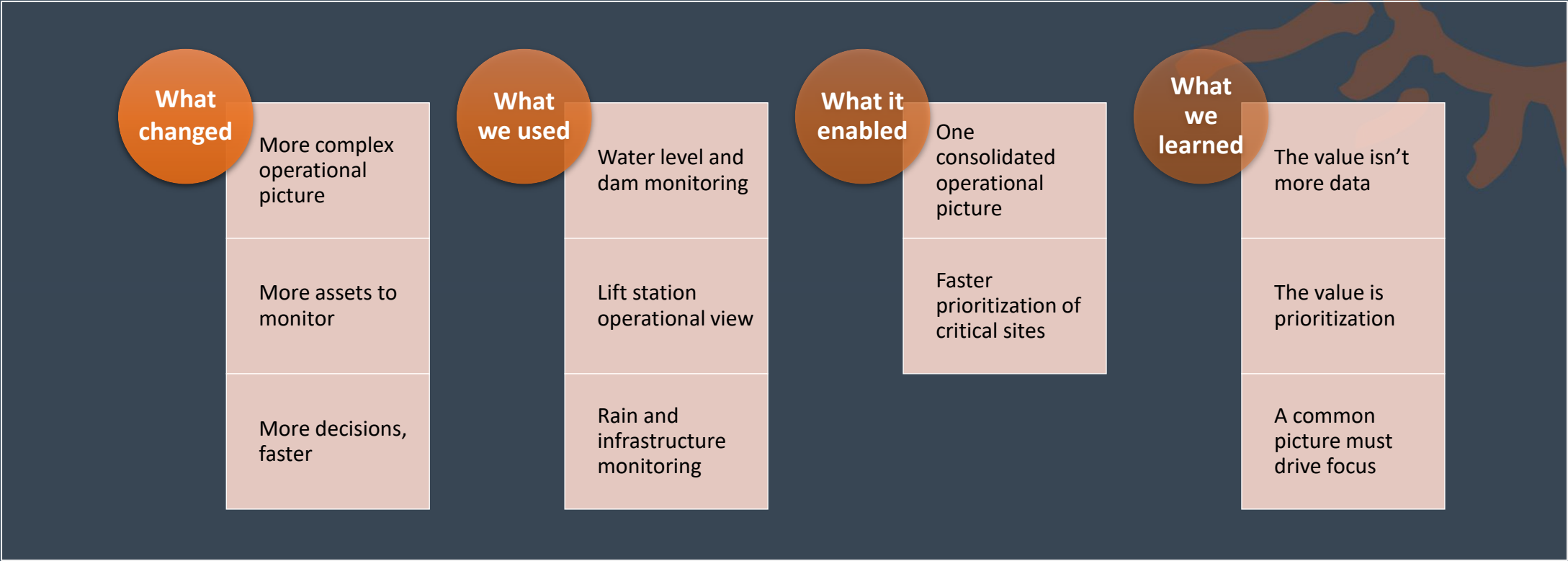


## **HELENE** "SURGE EVENT"

09/24/2024

- Storm surge and major coastal impacts
  - Record water levels across the region
- Large-scale evacuations and resource demands

# Our Helene: From Clarity to Prioritization



Clarity wasn't enough — we needed prioritization.



Hi.

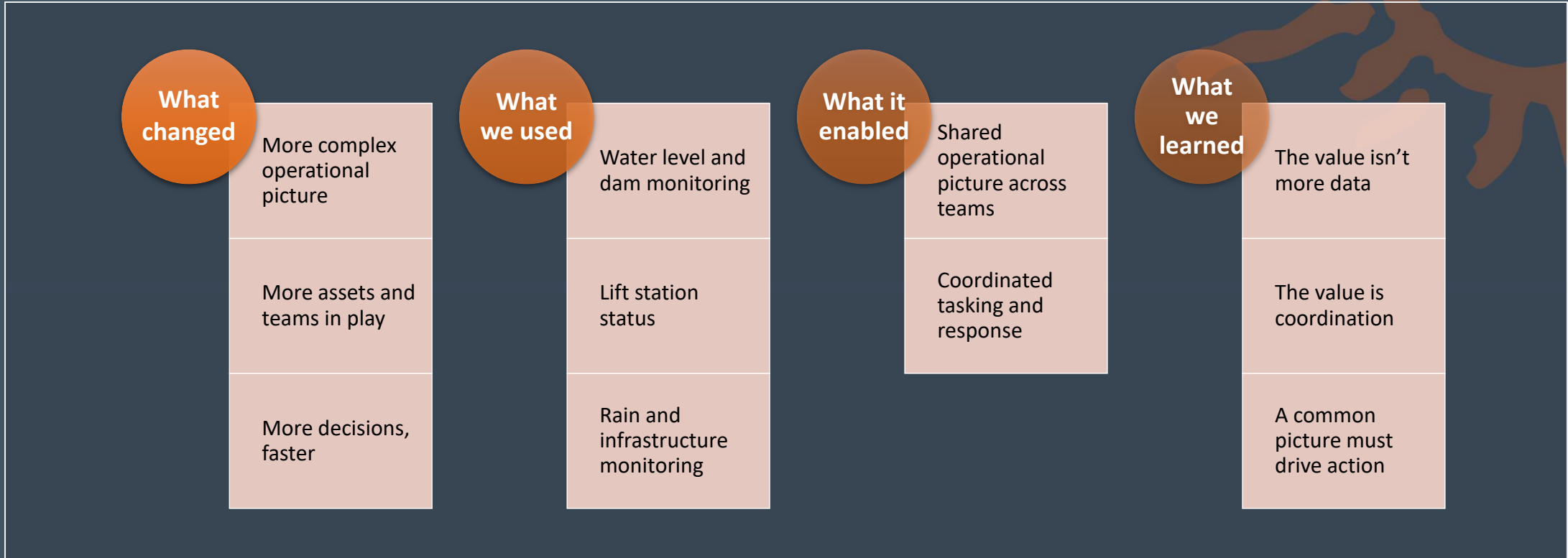


# MILTON "WIND EVENT"

10/09/2024

- Extreme wind and widespread debris
- Rapid damage assessment needs
- High volume tasking and coordination

# Our Milton: From Prioritization to Coordination



**Prioritization wasn't enough — we needed coordination.**

# Operational Friction During Crisis

**Clarity → Prioritization → Coordination**

All breaking at the same time

This isn't a data problem

It's a system problem

**Disconnected systems create operational friction**



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# So What Did We Do About It?

- Connected data across systems
- Built real-time operational dashboards
- Automated data pipelines
- Helped teams identify priorities faster

**One operational picture**

**Used by everyone**





# What This Enables

## Clarity (Debby)

- One shared operational picture
- Reduced confusion and repeat calls

## Prioritization (Helene)

- Focus on what matters most
- Faster, more confident decisions

## Coordination (Milton)

- Clear tasking and ownership
- Real-time status across teams

**Faster Decisions**

**Better Coordination**

**Stronger Outcomes**



# Peer Discussion

**What operational data source becomes most critical in the first 24 hours of an incident?**

- weather, shelters, hospitals...

**What data source do you trust the least during a storm?**

- manual spreadsheets, delayed GIS layers, duplicated systems...

**What operational gap are you still trying to solve?**

- resource tracking, evacuation visibility, vulnerable populations...

