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HurricaneIrene
 DeepwaterHorizon HurricaneKatrina
 SurfCityNewJersey
 GoldKingMine
 HurricaneMaria/Irma
 JoplinTornado
 HurricaneMatthew
 HurricaneSandy
 NoCalFires



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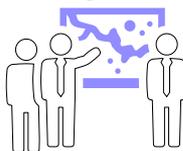
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DATA Generators and Users

Planning/
Decision Making



Operations
Management



Field
Work



Data
Management/GIS



Public
Engagement



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Photos

What is Data?

Address: 1233 MONTANA PL
City: Justin
County: Jasper
Sector: Sector 4
Veg Debris (c): 0
CAD Debris (c): 84
Photos: [Click here to view photos](#)
Documents: [Click here to view documents](#)

.../ViewPropertyDocs.aspx?propID=7428559C-6998-E011-8F53-001D887219E&IncidentID=FE1981C3-4AE1-4B80-A07...
ArcGIS Viewer for Flex

Property Documents

[View Document](#)

Document Name: Initial Assessment.pdf
Date Uploaded: 7/29/2011 2:41:09 PM
Description:

[View Document](#)

Document Name: 03868 USACE ROE.pdf
Date Uploaded: 7/29/2011 2:41:01 PM
Description:

[View Document](#)

Document Name: 03868_ROE.pdf
Date Uploaded: 7/10/2011 7:57:26 PM
Description:

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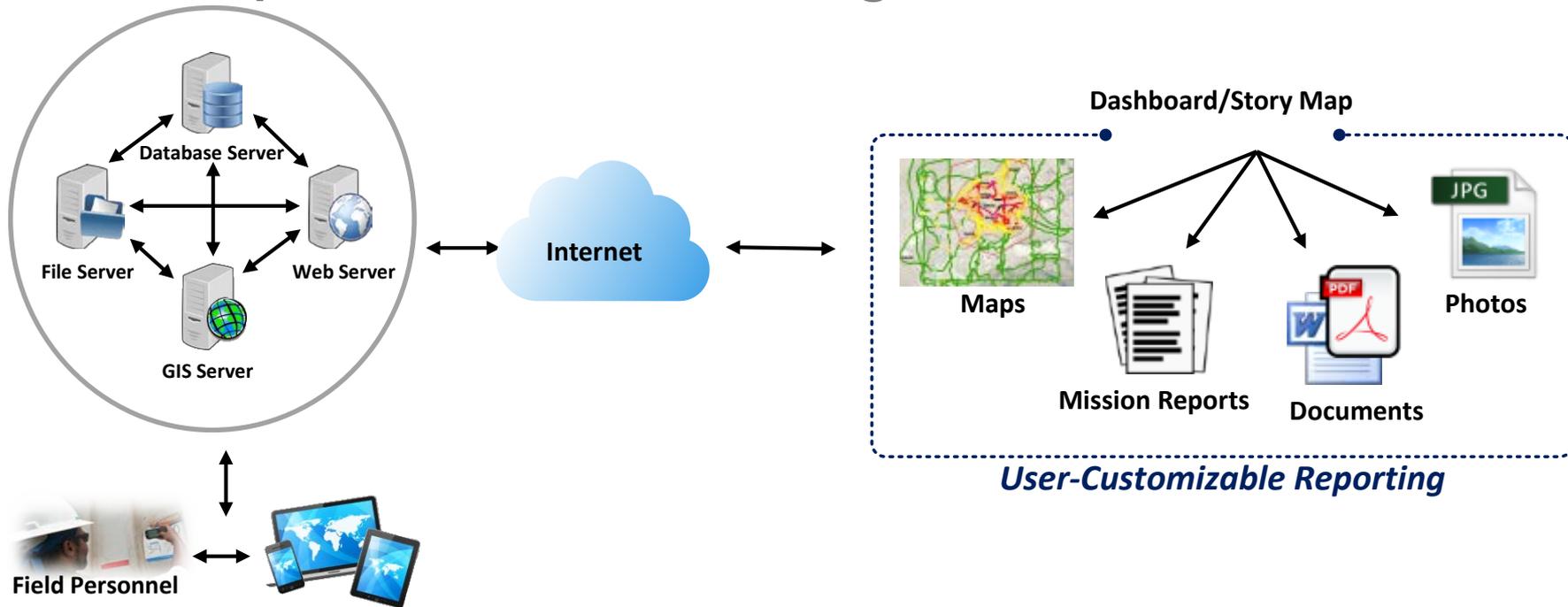
Document Name: 03868_IAC.pdf
Date Uploaded: 7/10/2011 7:57:26 PM
Description:

Sample No	Sample Date	Sample Time	Location	Property ID	Result	Results	ResultQualif	Ref Le
SP121_07281	07/29/2011	08:51	SP1212	SP1211				
74.1			ug/kg	U				
74.1			ug/kg	U				30.2
74.1			ug/kg	U				1360
74.1			ug/kg	U				1240
74.1			ug/kg	U				
74.1			ug/kg	U				31
74.1			ug/kg	U				
297			ug/kg	U				
74.1			ug/kg	U				
297			ug/kg	U				
74.1			ug/kg	U				
74.1			ug/kg	U				
2548			ug/kg	U				
493			ug/kg	U				211
493			ug/kg	U				117
493			ug/kg	U				29
493			ug/kg	U				41.8
74.1			ug/kg	U				
493			ug/kg	U				31.2
74.1			ug/kg	U				
493			ug/kg	U				

...analytical Data



Enterprise Data Management Architecture





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DATA LIFECYCLE/JOURNEY

How to organize and manage large volumes of data efficiently and with purpose!



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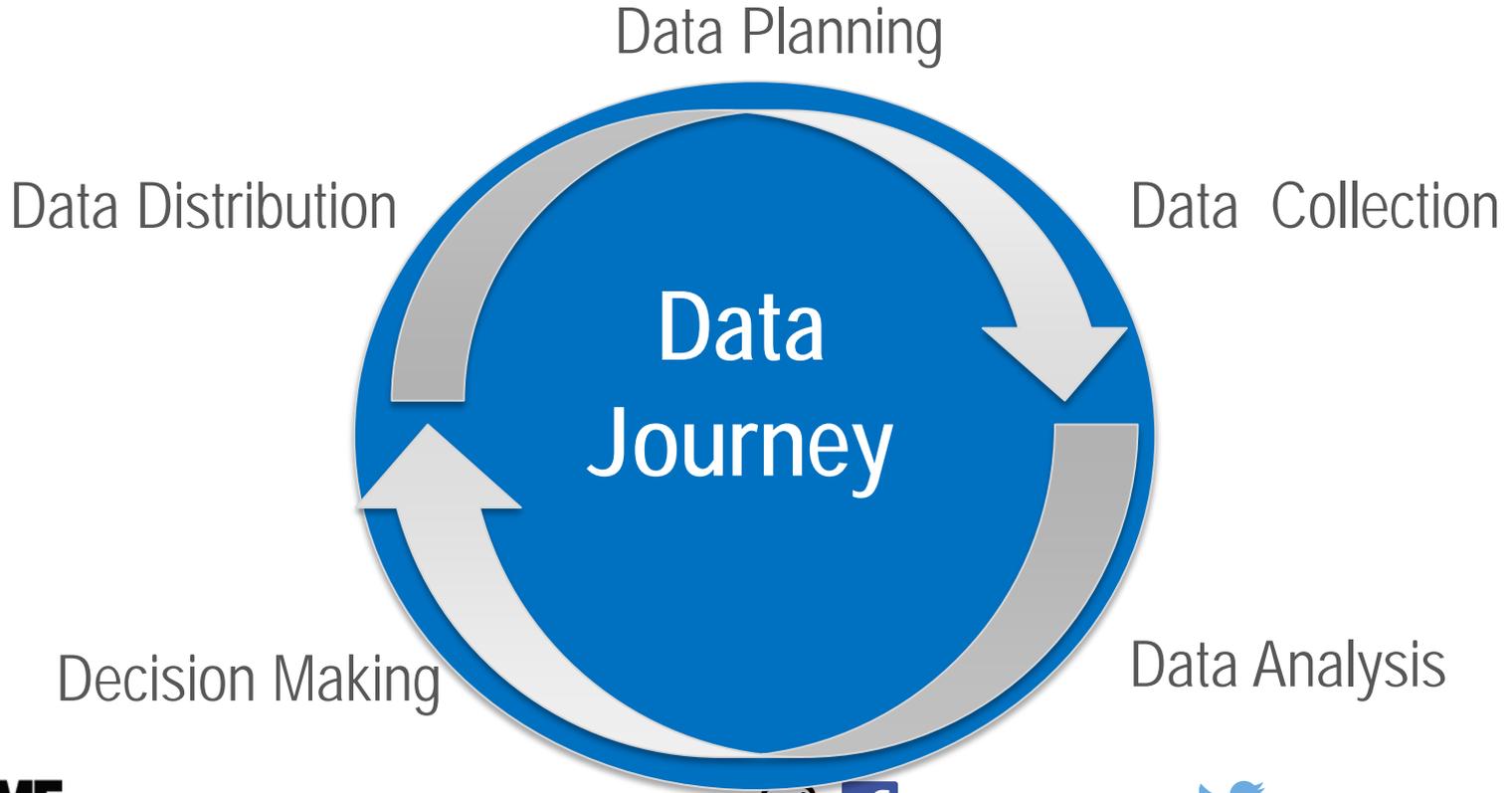
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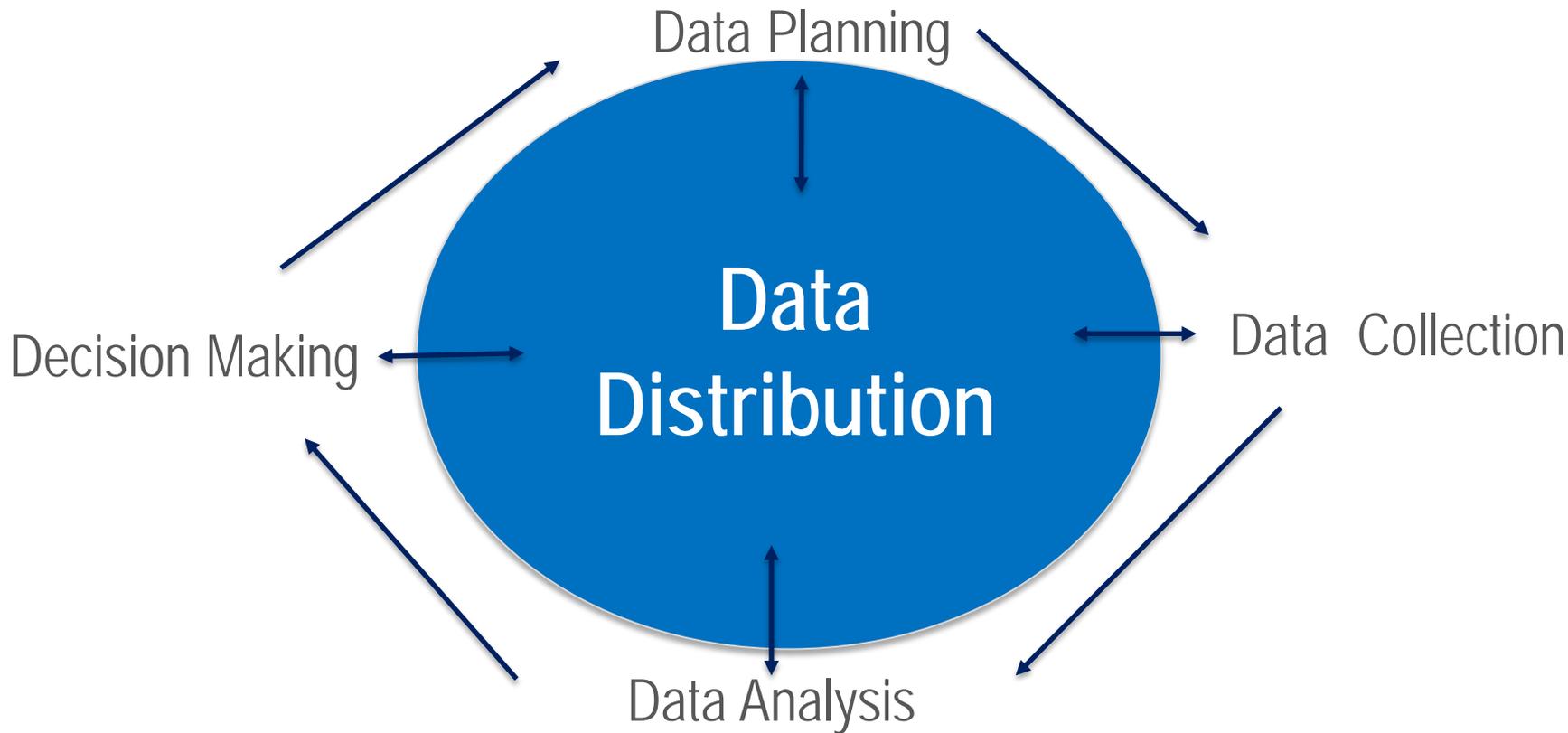


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DATA DISTRIBUTION

How do I make data available to multiple stakeholders?



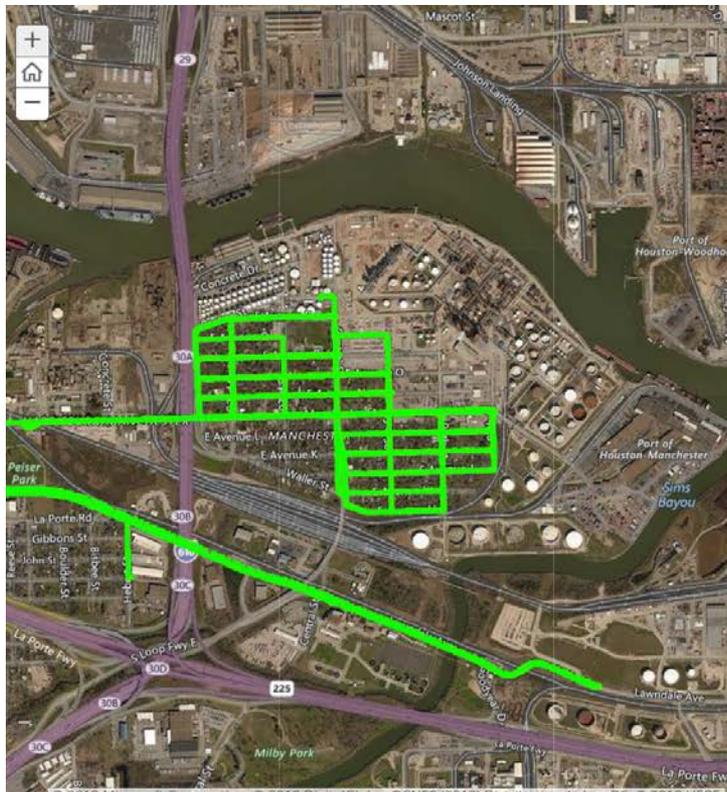
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WHAT DO WE KNOW ABOUT AIR QUALITY?

One of the many preparations for Hurricane Harvey included the EPA, the TCEQ, and other monitoring entities temporarily shutting down several air monitoring stations from the greater Houston, Corpus Christi, and Beaumont areas to protect valuable equipment from storm damage. Since then, state and local authorities have been working to get the systems up and running again as soon as possible. As of Monday, Sept. 11, the TCEQ's air monitoring network is operational 100 percent in Corpus Christi, 96 percent in Houston, and 86 percent in Beaumont. The network is expected to be fully operational again by the end of this week. Of the available air monitoring data collected from Aug. 24 through Sept. 10, all measured concentrations were well below levels of health concern.

The TAGA extensively monitored the neighborhood adjacent to the several refineries in southeast Houston. To date, no levels of targeted toxic chemicals were detected above the Texas TCEQ Air Monitoring Comparison Values (AMCV) short-term screening levels. TAGA results are available (Sept. 5, Sept. 6, Sept. 7, Sept. 10, Sept. 12, Sept. 13). EPA has concluded that the probable source of benzene and volatile organic compound readings in the Manchester community in Houston was the roof failure and spill from a light crude storage tank at the Valero Houston Refinery during Hurricane Harvey. EPA investigation into Valero Houston Refinery response and cleanup activities will continue.



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DATA PLANNING

What is good data? The use of Data Management Plans



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Data Planning

Identify the required data streams. Note that non-standard data elements must be documented in Attachment A.

X		Data Stream	Sources	Standard Data Elements?	Data Repository
New	Existing				
		Site Log			
		Site Contacts			
		Site Files			
		Site Images			
		Field Observations			
		Field Mapping			
		Real-time Monitoring			
		Field Monitoring			
		Sampling Information			
		Laboratory Results			
		Validation Qualifiers			

Data Gathering

X	Data Repository	Data Collection		Data Processing	
		Lead Personnel	Standard Procedures?	Lead Personnel	Standard Procedures?
	Database name				

Data Analysis

Identify the core data products to be generated.

X	Data Product	Lead Personnel	Specifications (refer to RDMP)
	Data Usability Assessment		
	Web Map		
	Integrated Data Report		

Decision Making

Where will command decisions be documented?	
Will response.epa.gov be used to prepare the Administrative Record and Site File?	

Data Distribution

What media will be used release information to the public?	
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DATA COLLECTION

How should the data be collected?



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NDOW

Location Orphan Containers Discharge/Release

HAZARD EVALUATION FIELD DATA SHEET
ESF-10 NDOW FORM

1 of 1

1. Incident Name: **Tropical Storm Harvey - Tropical Storm Harvey - TX** 2. Date (YYMMDD): **20170816** 3. 24 HR Time (HHMM): **1316**

Item ID (Location Name) - Example (EPA-HE1-D-100518-003)

16. Affiliation: **EPA** 17. Group/Team Name/No.: **HE1** 18. Branch/Division: **A** 19. Date (YYMMDD): **170816** 20. Consecutive Item #: **001**

Location (Fill in all applicable information if known)

4. Physical Address or Cross Streets: **18250 Nassau Bay Drive**

5. City: **Houston** 6. State: **TX** 7. Zip: **77058** 8. County: **Harris**

9. Latitude: **29.541133** 10. Longitude: **-95.097105** Update Lat/Long

12. Waterway Affected: **N/A**

13. Assessment/Evaluation Team Leader Name/Phone: **John Smith - 832-542-0395**

14. Assessment Type: **Ground Assessment**

15. Response Lead: **ESF-10**

PhotoID: -1

Photographer: **John Smith** Photo No: **1**

Photo Taken on: **2/7/2018 1:20:30 PM** Direction: **NW**

PhotoID:

Photographer: Photo No:

Photo Taken on: Direction:

Form Preview Schema Preview Settings

Drinking Water Sampling v2

▼ **Assessment Information**

Assessment Date *

Operational Area *
 STJ STT STX PR

Assessment By (EPA Representative): *

Assessor Phone *

▼ **Facility Information**

Facility Name *

Physical Address

PWS ID #

Load time on Windows 3.9 seconds

✓ Validate Input



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DATA ANALYSIS

What is Good Data?



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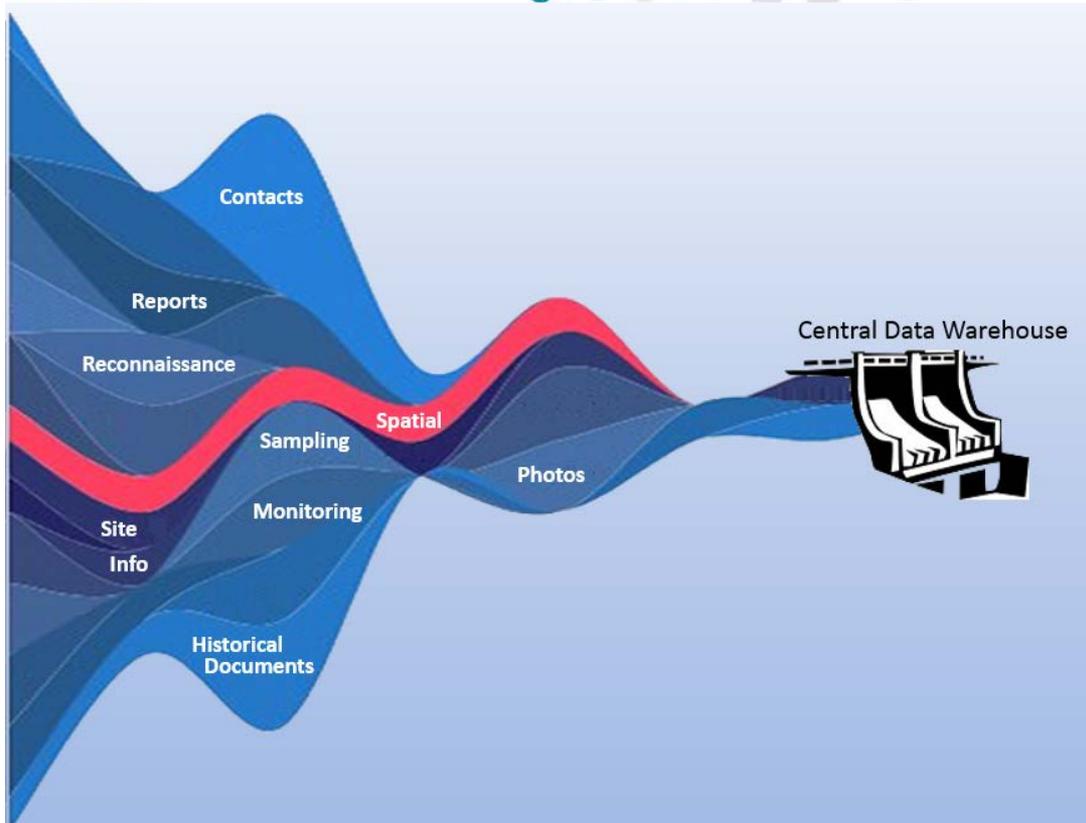
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Organizing the Data Management Effort



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VISUALIZATION

Data Becoming Actionable Intelligence for the Mission



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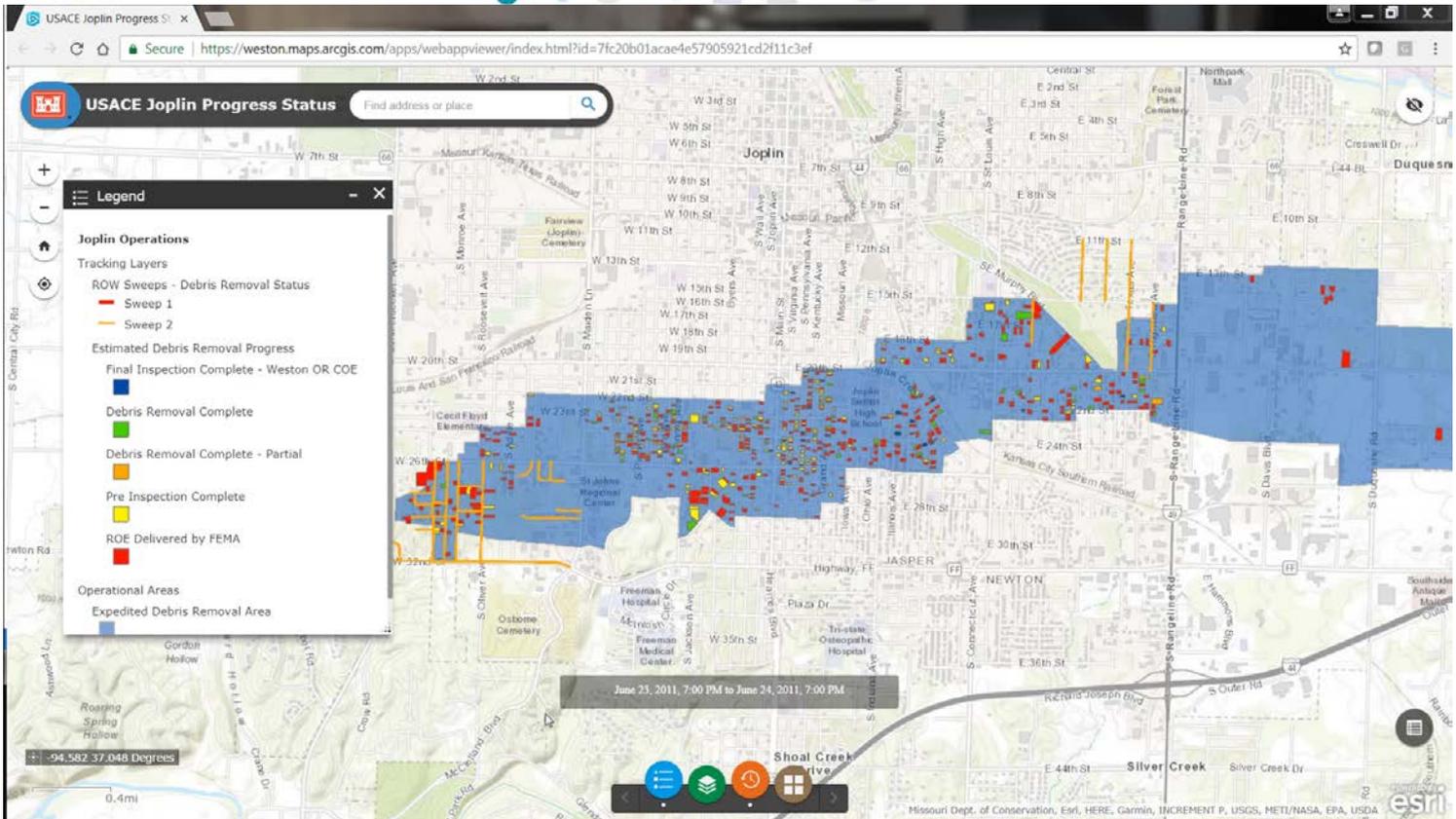
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