



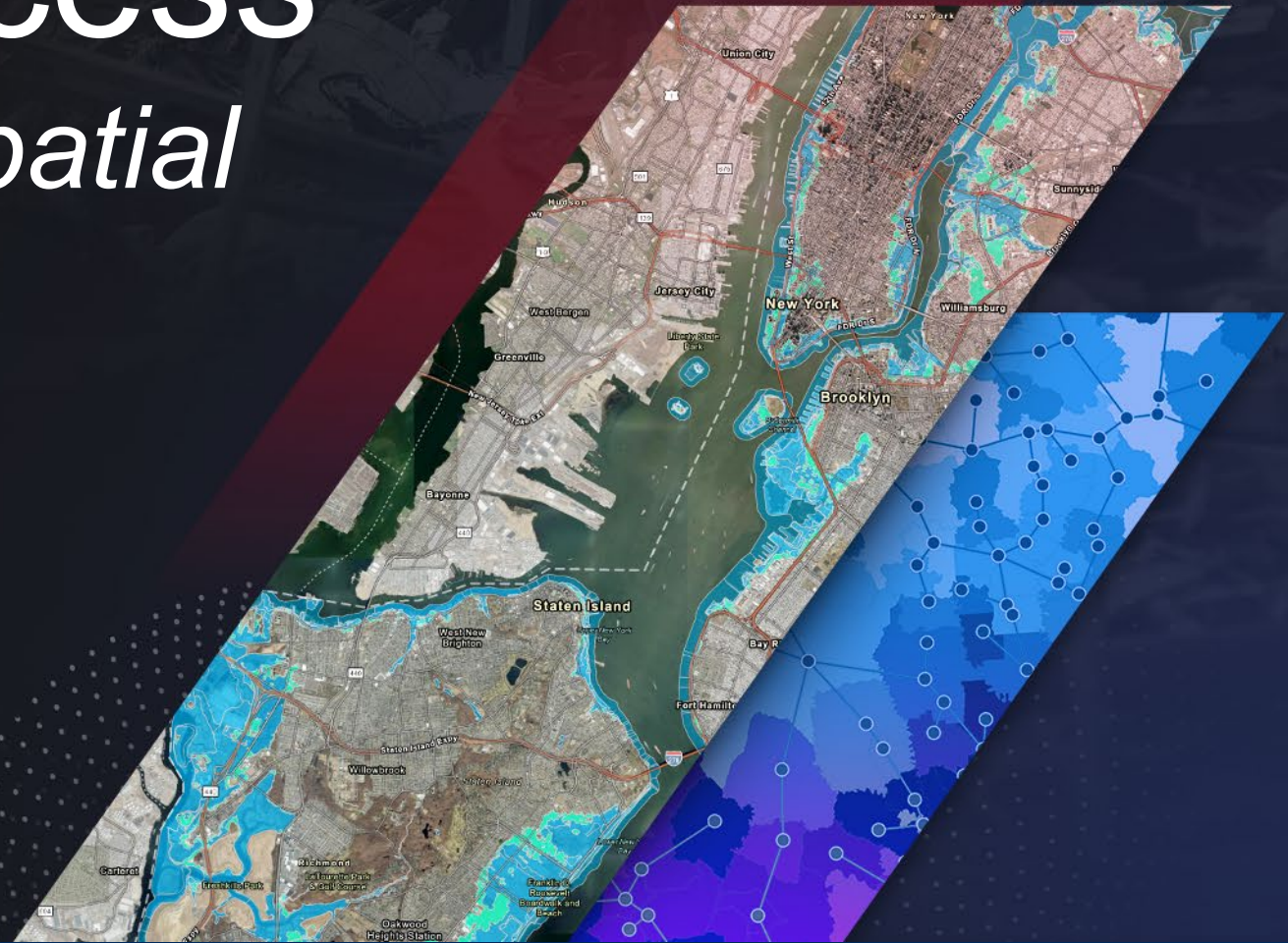
esri®

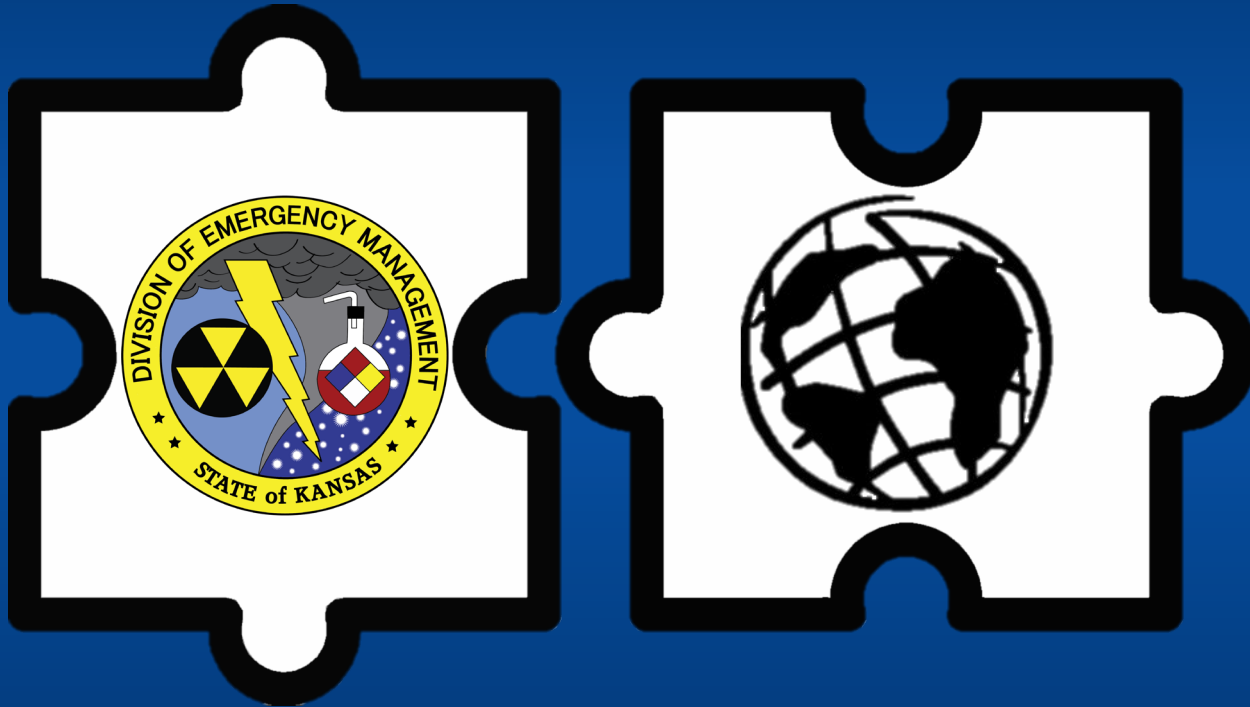
THE
SCIENCE
OF
WHERE®

Mapping Success

*Partnering for Geospatial
Advancement*

*Kyle Oneth, KDEM
Mike D'Attilio, Esri*





Empowering Emergency Management with Collaborative Mapping

Goal: Implement geospatial initiatives to enhance GIS utilization in emergency management across Kansas.

ArcGIS Online



Data Processing
and Storage



Hub Premium



AGOL Accounts and
User Management



Experience Builder



Mapping Application
Creation and Tools

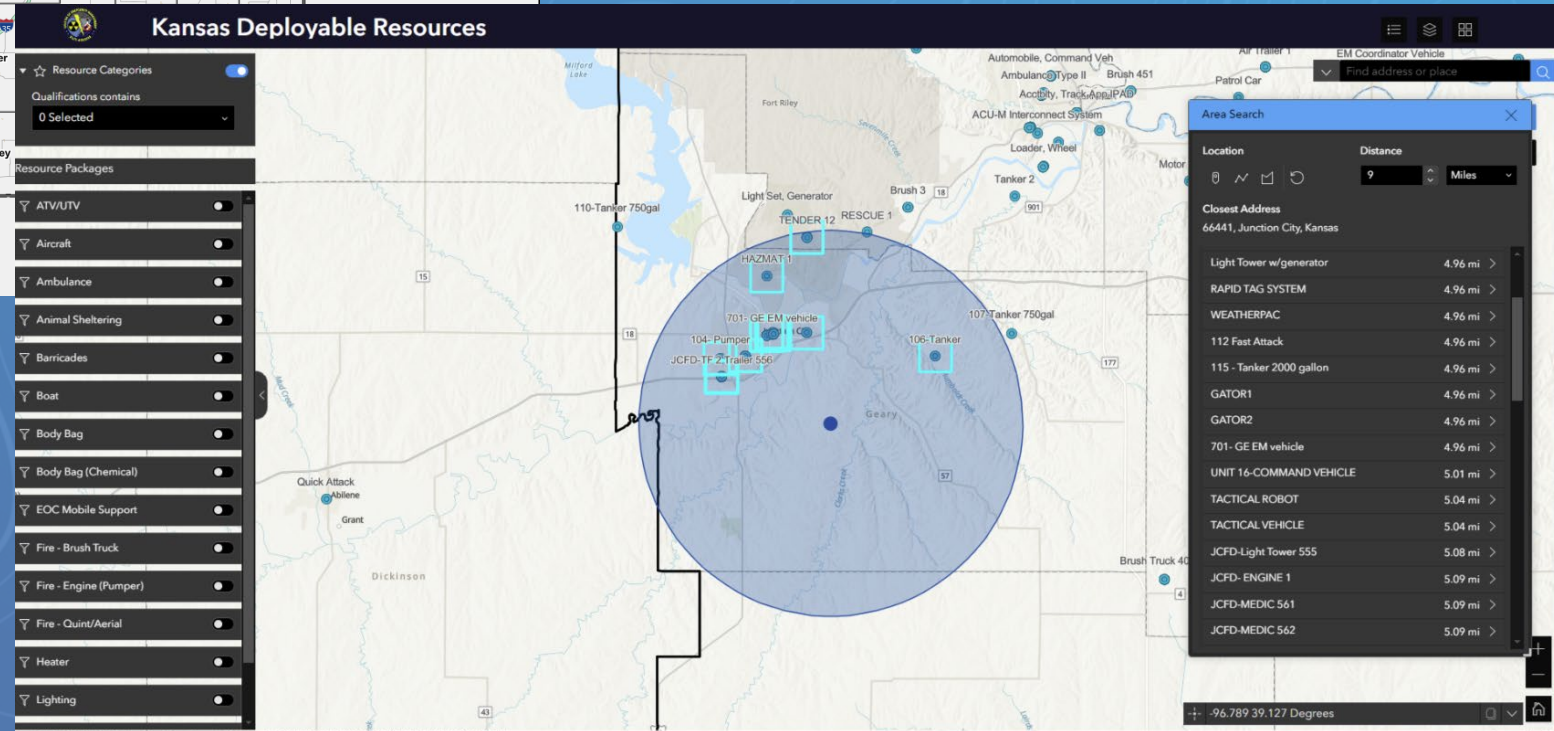


Kansas GIS Hub

Improved "Flagship" Mapping Applications



EOPMapper Evolved



Deployable Resources 2.0

New Mapping Applications and Tools



Community Impact Analysis Tool

Parcel Explorer

Historical Satellite Imagery Viewer

Kansas Situation Report

Incident-Specific Planning Apps

SEOC Dashboards

And More!

Applications In-Development:

Flood Inundation Application

Community Lifeline System

Exercise Mapping Tool

Incident Mapping Tool

Damage/ Debris Estimator

- Navigation Menu**
- Watch Center Report
 - Weather Watches/Warnings
 - Current Weather
 - Weather Stories
 - Severe Weather Outlooks
 - Long Term Hazard Outlook
 - Rainfall Estimates
 - Precipitation Forecast
 - Winter Weather
 - Stream Gauges
 - Fire Outlook
 - ESRI Wildfire Resources
 - Rocky Mountain Fire Outlook
 - US Drought Info
 - KanDrive
 - Power Outages

Kansas Weather Overview Summary for 3/7/2025, 8:00 AM by Nicholas Janeski
 Staff Duty Officer: Troy Calkins (785) 291-3333 | Next Report: 3/10/2025, 8:00 AM

Today, windy, and chilly, with a chance for light rain and light snow in some northern counties as the cold front moves into the state. Temperatures will range from the 40's to 50's with an increasing northern wind ranging from 10-20 mph and gusts up to 35 mph. Light snow this morning in far northwestern Kansas and a late-night Winter Weather Advisory in far southwestern Kansas. Elevated fire danger remains across the state with portions of far southeastern Kansas under a Red Flag Warning this afternoon.

Threat Severity	None	Limited	Minor	Moderate	Major	Extreme
Hazard	Day 1	Day 2-7	Summary			
Severe Weather	○	○	No Areas of Concern.			
Fire Weather	▲	▲	A Red Flag Warning is in effect for the following counties of Bourbon, Crawford, and Cherokee located in southeastern Kansas. Forecasted 15 to 25 mph with gusts up to 35 mph combine with low RH values ranging from 15 to 25 percent from 1 PM this afternoon to 6 PM this evening. Any fire that develops in this region will have the chance to easily catch and spread quickly even becoming difficult to control. Outdoor burning is not recommended.			
Flooding	●	●	Minor flooding is occurring, and minor flooding is forecast to continue in Missouri near the Kansas Missouri Bourbon border.			
Winter Weather	●	●	A Winter Weather Advisory is in effect for the following counties of Morton, Seward, and Stevens in southwestern Kansas late tonight into Saturday. Forecasted and expected total snow accumulations of up to two inches will be possible. Commuters should plan on slippery road conditions.			
Roads & Travel	●	●	Today we remain on an elevated wildfire status across the state. Any fire that develops near roads, bridges, and highways could create reduced visibilities and adverse conditions for drivers.			
Other	■	■	The current US Drought Monitor Kansas Drought Map updated 2.27.25 indicates areas remaining across several regions of the state.			

- COMMUNITY LIFELINES**
- Emergency Alerts
 - Power Outages
 - Weather Alerts
 - Fire Alerts
 - Severe Weather Alerts
 - Winter Weather Alerts
 - Health and Safety
 - Public Safety
 - Transportation

View Printable Report

About LEEMA
 Community Lifelines

[Kansas Adjutant General Site](#) [KDDEM GIS Hub](#) [Map & GIS Data Services](#)

Kansas Situation Report

Community Impact Analysis Tool

Impact Analysis

Location: 0 Miles

Impacted Communities	1
Populations	60
Total Population	782
Pop 18 and Up	610
Pop Under 18	172
Population with Access and Functional Needs	60
Housing Information	60
Shelters	3
USD 244 Recreation Center	0 mi
USD 244 Burlington Middle School	0 mi
USD 244 Burlington High School	0 mi
EMS Stations	1
Hospitals	1
Coffey County Hospital	0 mi

Community Impact Analysis Tool

Metrics for Success

November 4, 2024 – March 6, 2025

Item Views

4,325

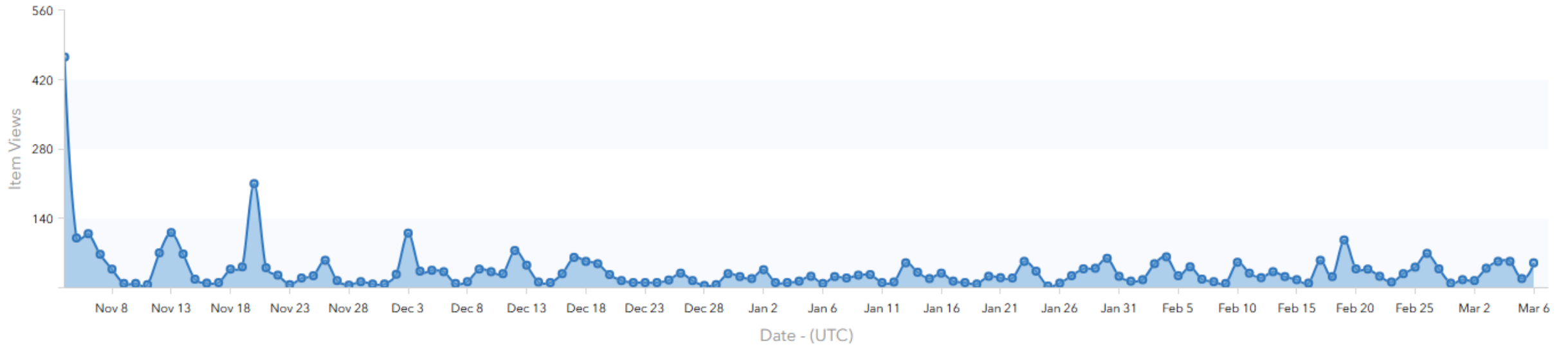
Average item views per day

35.16

Logins this Period

228

Usage Time Series



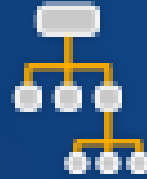
*Item Views refers to the number of times that content within the Hub site has been viewed or opened by the users.

Partnership in Normal Operations

Strategy



Design



Mentoring



esri

Staff



Augmentation



Specialized

Skills



Configuration
and Prototyping

Disaster Support Onsite

2019 Flooding and Tornado

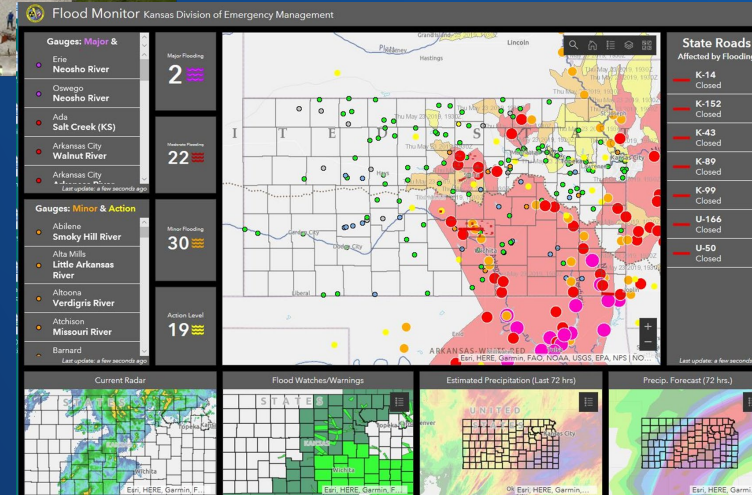
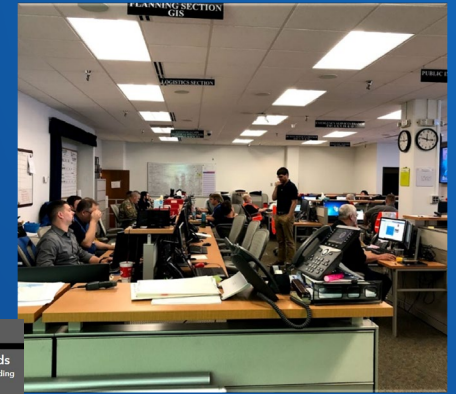
10-14 Days, 24x7

2-person KDEM GIS Team

EMAC and Other Agencies GIS

Coverage for KDEM GIS

1 Esri Consultant for 1 Week



2023 Wildfires

Rebuilding KDEM GIS Team

Fast Execution of Esri Support

Onsite Support Over 2 Days

How We Support



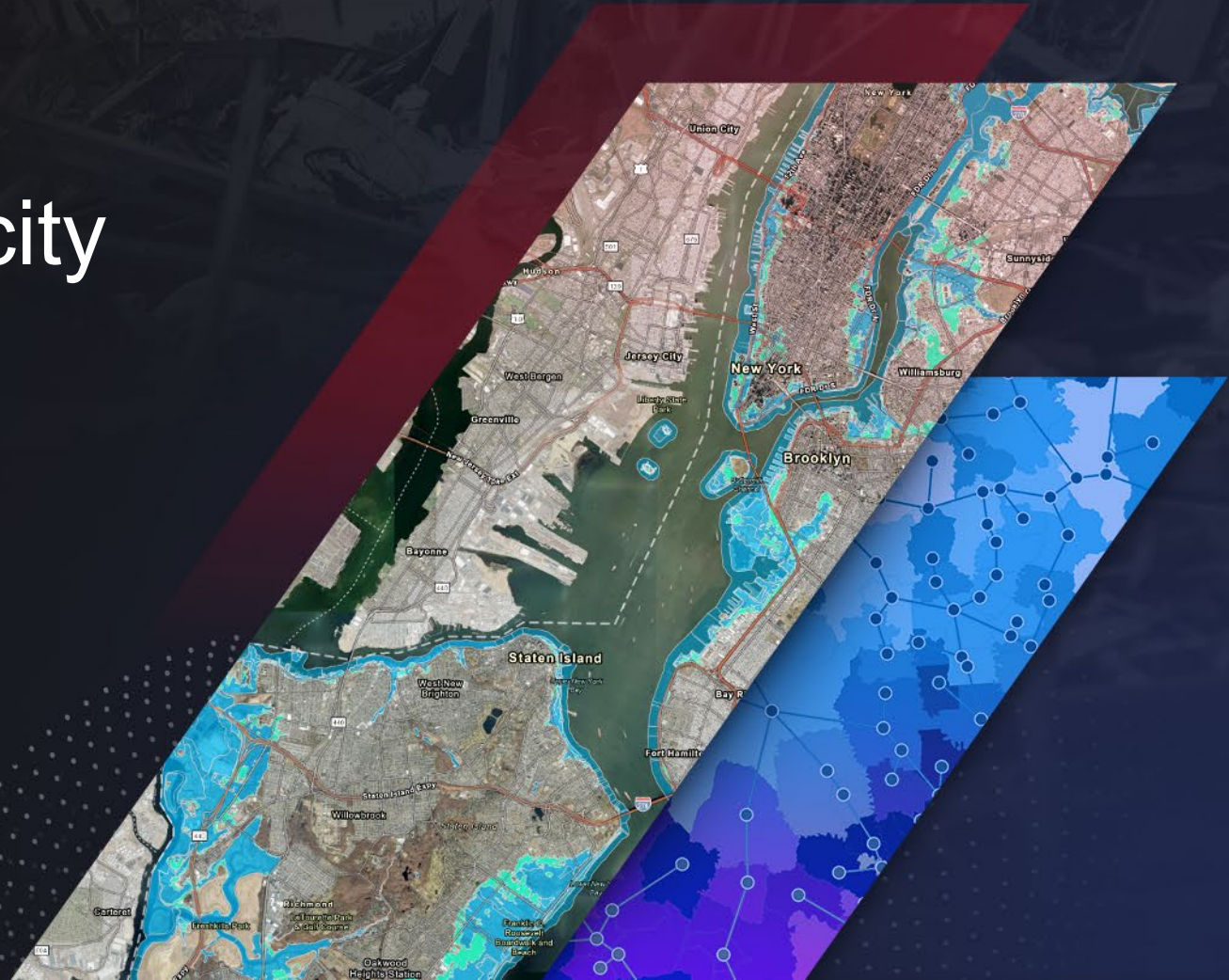
Software and Capacity



Remote Consulting



On-site Consulting



How We Engage

Through Remote and On-Site Consulting



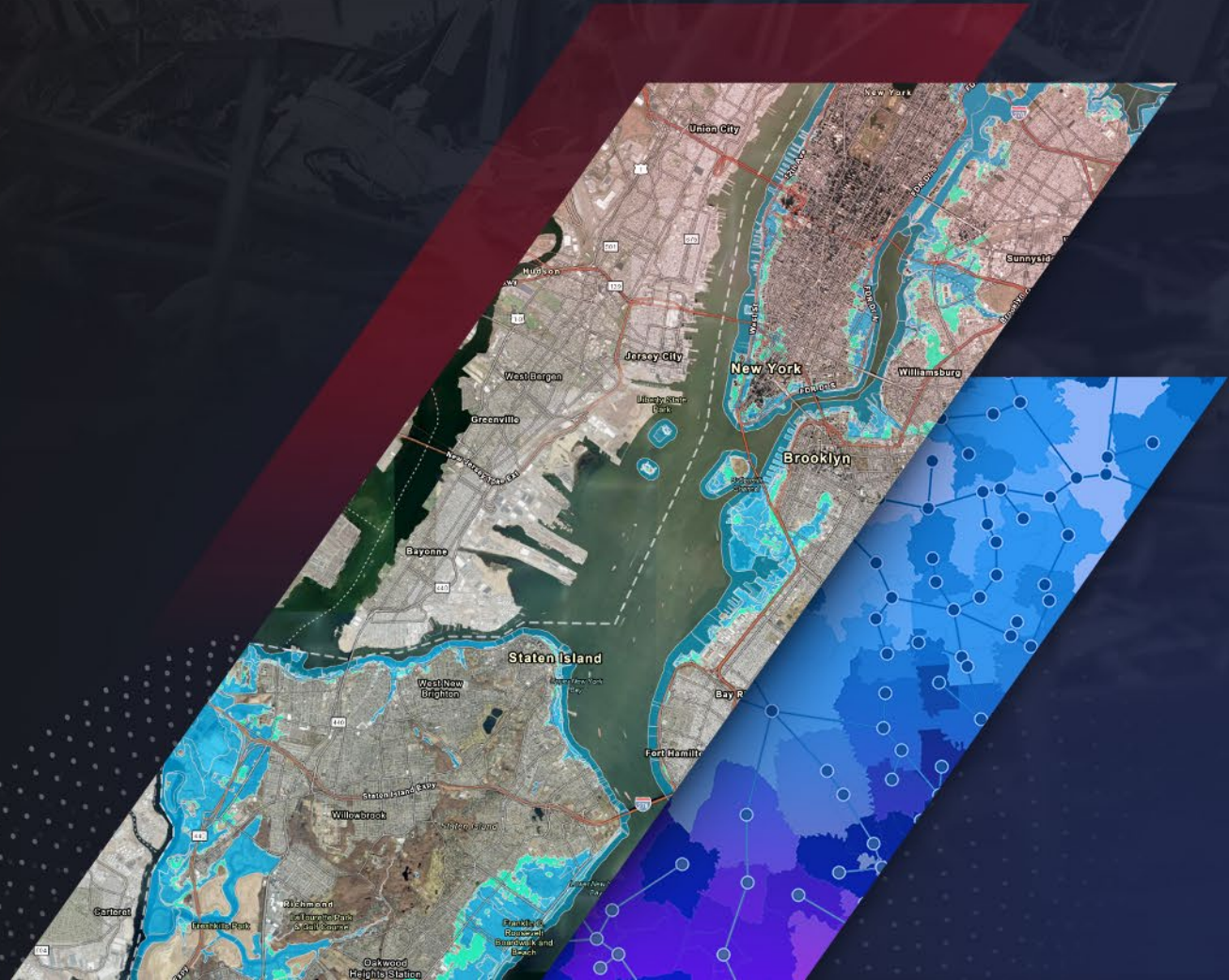
Expand Capability



Lighten the load



Rapid Development





Expand Capability

Managing Huge Amount of Imagery

18 Esri Remote Consultants

1 Onsite Consultant

ArcGIS Video Server Product Support

3 Drone Vendors

Coordination in Crisis Support

Event	Date Time	Assigned Crew	Video File Name	You Tube Video URL	Location Name	Responsibility	SourceName
Milton		Pennoni	DJI_0391_W.MP4	View	20241015 - Penmoni Dr...		DJI_0391_W_gpx.ne...
Milton		Pennoni	DJI_0392_T.MP4	View	20241015 - Penmoni Dr...		DJI_0392_T_gpx.ne...
Milton		Pennoni	DJI_0393_W.MP4	View	20241015 - Penmoni Dr...		DJI_0393_W_gpx.ne...
Milton		Pennoni	DJI_0394_T.MP4	View	20241015 - Penmoni Dr...		DJI_0394_T_gpx.ne...
Milton		Pennoni	DJI_0395_W.MP4	View	20241015 - Penmoni Dr...		DJI_0395_W_gpx.ne...
Milton		Pennoni	DJI_0396_T.MP4	View	20241015 - Penmoni Dr...		DJI_0396_T_gpx.ne...
Milton		Pennoni	DJI_0397_W.MP4	View	20241015 - Penmoni Dr...		DJI_0397_W_gpx.ne...
Milton		Pennoni	DJI_0398_T.MP4	View	20241015 - Penmoni Dr...		DJI_0398_T_gpx.ne...
Milton		Pennoni	DJI_0399_W.MP4	View	20241015 - Penmoni Dr...		DJI_0399_W_gpx.ne...
Milton		Pennoni	DJI_0400_T.MP4	View	20241015 - Penmoni Dr...		DJI_0400_T_gpx.ne...
Milton		Pennoni	DJI_0415_W.MP4	View	20241015 - Penmoni Dr...		DJI_0415_W_gpx.ne...
Milton		Pennoni	DJI_0416_T.MP4	View	20241015 - Penmoni Dr...		DJI_0416_T_gpx.ne...

Pinellas County Tower Viewer

Courthouse Rooftop Tower

Height is between and

1 of 130

Image 1

Height	81.89
Heading	134.23



- Towers
- Courthouse Rooftop
 - Eldridge Wilds (Milton)
 - Eldridge Wilds
 - ERB (Milton)
 - ERB
 - Fort DeSoto
 - Majestic Rooftop
 - PSC (Milton)
 - PSC
 - Ridgecrest (Milton)
 - Ridgecrest
 - St. Petersburg
 - Tarpon Springs (Milton)
 - Tarpon Springs
 - Toytown



Lighten the Load

On-Site SEOC Support

VDEM and Esri

Rapid Turnaround and Deployment

Application Configuration Support

General EOC Support

5 Days On-Site

Virginia Department of Emergency Management GIS

Featured Content

- SURVEY**
TEED External Course Request
Submission form for external and internal users to submit course requests to TEED.
- SURVEY**
GIS Work Request
Submission form for VDEM GIS work requests from internal and external state agency partners.
- APP**
Virginia Situational Awareness App
The publicly available Virginia Situational Awareness application displays spatially referenced...
- APP**
Virginia Know Your Zone
Virginia Know Your Zone website providing links to the Look Up Tool and data resources for residents...
- APP**
Virginia Know Your Zone Tool
A look up tool for the citizens and visitors of the Commonwealth of...
- APP**
Hurricane Isabel 20 Yr Anniversary
20 years of buying down risk...
- APP**
ACS 2020 AFN Data
ACS 2020 - Estimates for Popul... ACS 2020 Census tract level data with information about vulnerable...

FEMA Individual Assistance Declaration Status

Total Applications: 9,158
Individual Household Program Eligible: 3,271
Individual Household Program Grant Total: \$1,600,813.11

Map showing declaration status by locality.

Census Data for Virginia or Selected Locality

Without High School Diploma	Disabled	Household without a vehicle
10.7%	16.8%	6.1%
19% National Average	19.2% National Average	8.1% National Average
Below poverty or just 1/2 poverty	Living in Non-Attached Homes	Without Smart Phones
15.9%	8.9%	17.1%
16.1% National Average	11.0% National Average	17.0% National Average
Over 65 Years Old	Without HS Diploma	Owner Occupied
24.9%	11.6%	59.5%
19.7% National Average	10.0% National Average	29% National Average

FEMA Public Assistance Declaration Status

Map showing declaration status by locality.

All PA Declaration Localities

Locality	Applications	PA Threshold	Program Budget	Locality Threshold	Approved
Albemarle County	142	YES	10,000	10,000	10,000
Allegany County	1	NO	10,000	10,000	10,000
Appomattox County	1	NO	10,000	10,000	10,000
Bedford County	1	NO	10,000	10,000	10,000
Bland County	1	NO	10,000	10,000	10,000
Buckingham County	1	NO	10,000	10,000	10,000
Charlottesville	1	NO	10,000	10,000	10,000
Frederick County	1	NO	10,000	10,000	10,000

Conclusions: Why Does it Work?



GIS
Culture

Emergency
Management
Culture

Esri
Organizational
Expertise

Knowledge
Sharing

Long Term
Relationships

Trust

Questions?

Kyle Oneth
Kyle.Oneth@ks.gov



Mike D'Attilio
mdattilio@esri.com



GIS
Culture

Emergency
Management
Culture

Esri
Organizational
Expertise

Knowledge
Sharing

Long Term
Relationships

Trust



esri[®]

**THE
SCIENCE
OF
WHERE[®]**

Copyright © 2024 Esri. All rights reserved.