## 2023 PSAP Managers Conference

Sheraton Greensboro at Four Seasons

August 24-25, 2023



NC 911 Board PSAP Managers Meeting 2023

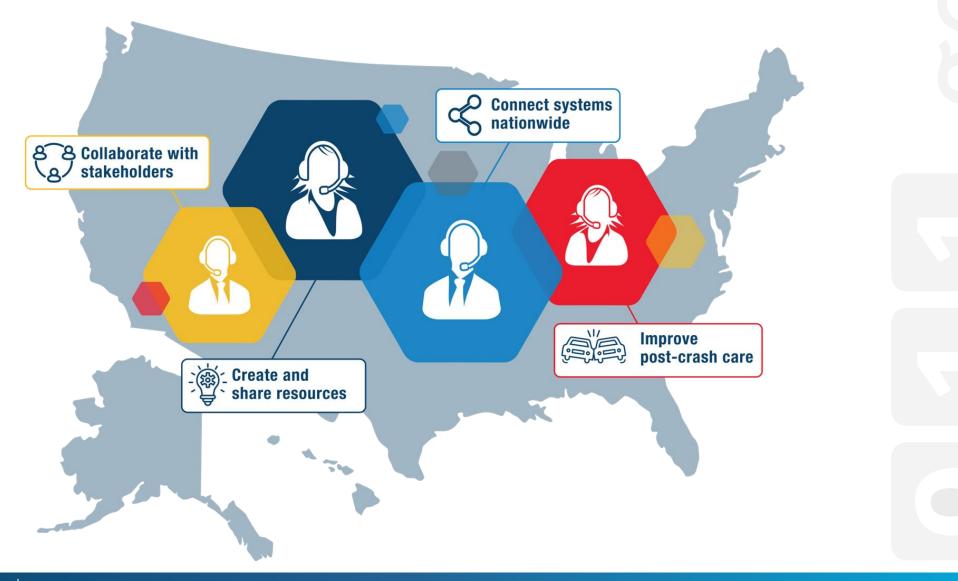
## NHTSA's NATIONAL 911 PROGRAM Supporting people centered 911 systems

**\***ems.gov

Kate Elkins, MPH, CPH, NRP EMS/911 Specialist, National 911 Program, Office of EMS, NHTSA

911.gov

## **ADVANCING 911 ACROSS THE NATION**





## National Roadway Safety Strategy

United States Department of Transportation | January 2022

"U.S. DOT is committed to taking action within its scope and statutory responsibilities to make advances in survivability through the delivery of equitable and impartial post-crash care, including EMS and 911... The Department will continue to support inter-governmental efforts to transition to next generation 911 systems across the Nation"

## **POST-CRASH CARE**



- Connect 911 systems with Highway Safety programs
- Promote the use of Emergency Medical
   Dispatch to provide care to crash victims
   more quickly
- Identify methods for improving crash response and notification with GIS, AACN and other technologies

## NATIONAL ROAD SAFETY STRATEGY: The Safe System Approach

## 911's Role in All Five Elements

## Safer People

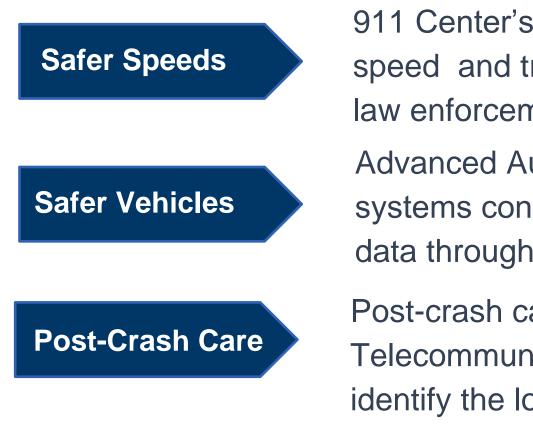
Risky behavior reported to 911 (DUI, reckless/distracted driving)

#### Safer Roads

Unsafe conditions are reported to 911 (debris, lights, hazards)



## NATIONAL ROAD SAFETY STRATEGY: The Safe System Approach



911 Center's are an integral part of the enforcement of speed and traffic laws by dispatching and recording law enforcement actions

Advanced Automatic Collision Notifications (AACN) systems connect 911 center's and transmit critical data through telemetry

Post-crash care begins with a call to 911. Telecommunicators must work with the caller to identify the location, nature and severity of the accident and dispatch help.





# Create a secure, resilient, interoperable "system of systems"

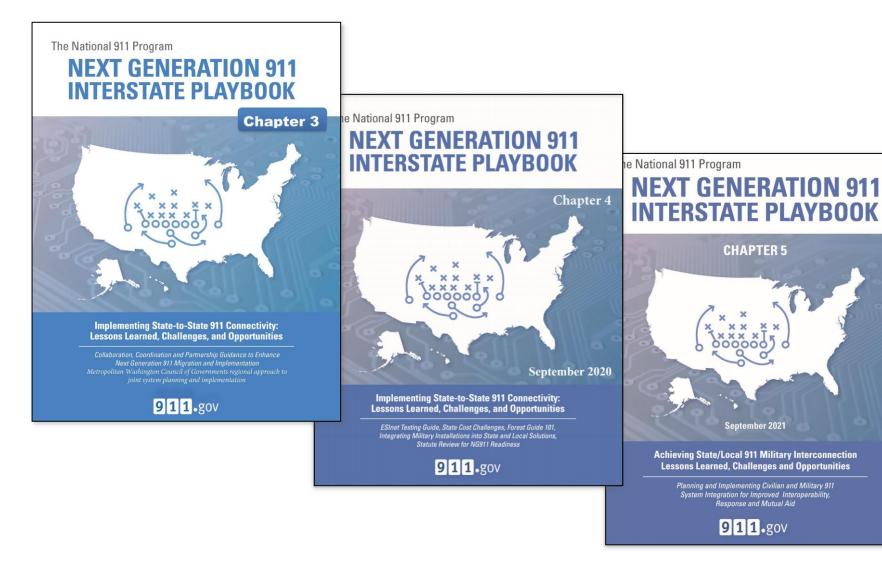


## **Mission**

The task force was created to develop a governance structure, sustainable financial model, and technical requirements to stimulate the implementation of interoperable NG911 systems nationwide. Technical goals include standards development and a testing program to ensure end-to-end interoperability of NG911 systems and components.



## **NG911 INTERSTATE PLAYBOOKS**



## **CYBERSECURITY IN 911**



Partnering with DHS CISA on Cyber Resilient Program Development Cybersecurity and NG911 materials are available on CISA Websites Docs Tools

Sharing important resources for 911 Centers on Cybersecurity and Cyber Hygiene

## 988 and Crisis Systems



### **Key Issues**

• 988 offers 24/7 access to trained counselors



- Investment of unprecedented federal resources in scaling up crisis centers (answering the calls)
- Increase in the number of Lifeline calls, chats, and texts answered
- Long-term success of 988 depends heavily on collaboration between local, states, territories, tribes, and the federal government



# Support the development of the 911 professional

## Revisiting the Recommended Minimum Training Guidelines for Telecommunicators







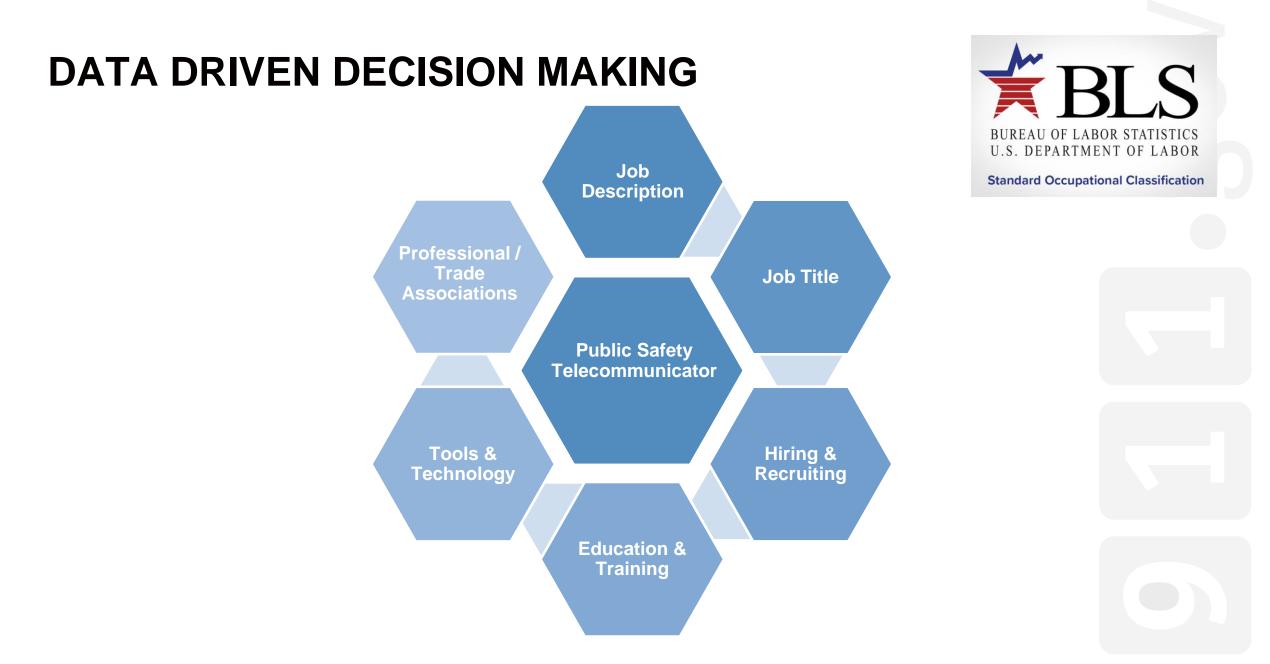




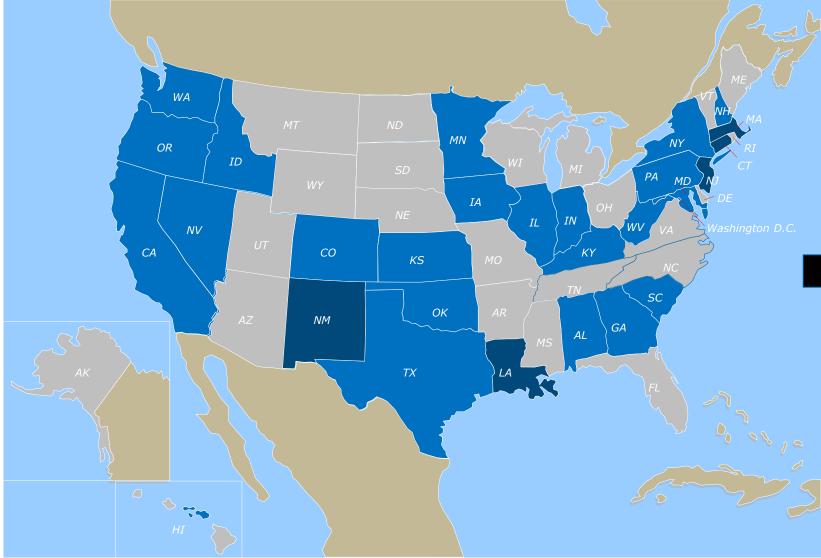


## **TELECOMMUNICATOR RECLASSIFICATION TOOLKIT**





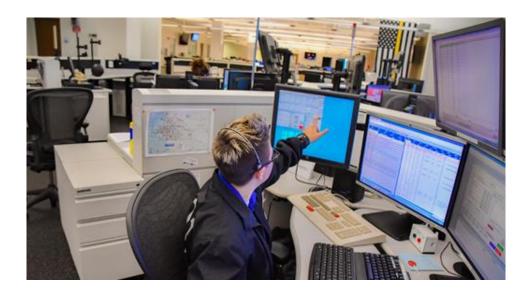
## **RECLASSIFICATION BY STATE (JAN 2023)**

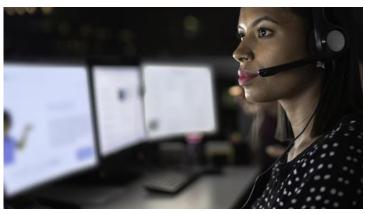


State Telecommunicators with First Responder Classification

## **MENTAL HEALTH FOR 911 PROFESSIONALS**

- Recruitment
- Education
- Resources
- Health and Wellness
- Prevention





## Planning for Suicide prevention, intervention and post-vention

Between 17% and 24% of telecommunicators have symptoms of PTSD; 24% have symptoms of depression

An analysis of suicides among first responders — Findings from the National Violent Death Reporting System, 2015–2017 - ScienceDirect



	ARTICLE IN PRESS	
	Journal of Safety Research xxx (xxxx) xxx	
2023320	Contents lists available at ScienceDirect	
	Journal of Safety Research	National Safety Council
ELSEVIER	journal homepage: www.elsevier.com/locate/jsr	

An analysis of suicides among first responders — Findings from the National Violent Death Reporting System, 2015–2017  $^{\rm \pm}$ 

Leslie M. Carson<sup>a</sup>, Suzanne M. Marsh<sup>b,\*</sup>, Margaret M. Brown<sup>c</sup>, Katherine L. Elkins<sup>d</sup>, Hope M. Tiesman<sup>e</sup>

<sup>a</sup> National Highway Traffic Safety Administration, Office of Impaired Driving and Occupant Protection, Impaired Driving Division, Washington, DC, USA <sup>b</sup> National Institute for Occupational Safety and Health, Division of Safety Research, Surveillance and Field Investigations Branch, Morgantown, WV, USA <sup>c</sup> National Center for Injury Prevention and Control, Division of Injury Prevention, Atlanta, GA, USA <sup>d</sup> National Highway Traffic Safety Administration, Office of Emergency Medical Services, EMS and National 911 Programs, Washington, DC, USA

National Institute for Occupational Safety and Health, Division of Safety Research, Analysis and Field Evaluations Branch, Mongantown, WV, USA

#### ARTICLE INFO

ABSTRACT

Article history: Received 15 September 2022 Received in revised form 6 December 2022 Introduction: First responders, including law enforcement officers (LEOs), firefighters, emergency medical services (EMS) clinicians, and public safety telecommunicators, face unique occupational stressors and may be at advanted cick for cuizide. This study observational during unique occupational stressors

## **UPCOMING WEBINARS**

July 2023 State of 911 Webinar @ 12:00pm ET

Register  $\rightarrow$ 

JUL

11

September 2023 State of 911 Webinar @ 12:00pm ET

Register →

SEP

12

## 14

NOV

November 2023 State of 911 Webinar @ 12:00pm ET

Register  $\rightarrow$ 

## **Register today:**

State of 911)

Webinar Series





# Promoting 911 priorities, together

## **COORDINATION WITH OTHER FEDERAL AGENCIES**











#### **Department of Homeland Security**

- CISA
- Science and Technology Directorate
- Coast Guard

#### Interoperability:

FCC,DHS S&T, CISA, FirstNet, DoD, US CG, Veterans Affairs, SAMHSA

#### Suicide Prevention: FBI, NIOSH, CDC, NIH, IHS, SAMHSA, White House

#### **Department of Health & Human Services**

- Center for Disease Control
- National Institute for Occupational Safety & Health
- Health Resources and Services
   Administration

- National Institutes of Health
- Substance Abuse & Mental Health Services Administration
- Indian Health Services

## 911 Telecommunicator Tree of Life

#### Share a Story:







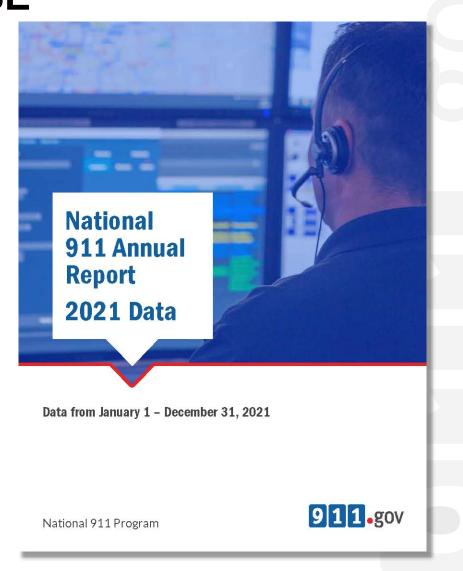
# Collect and share data for informed decision-making



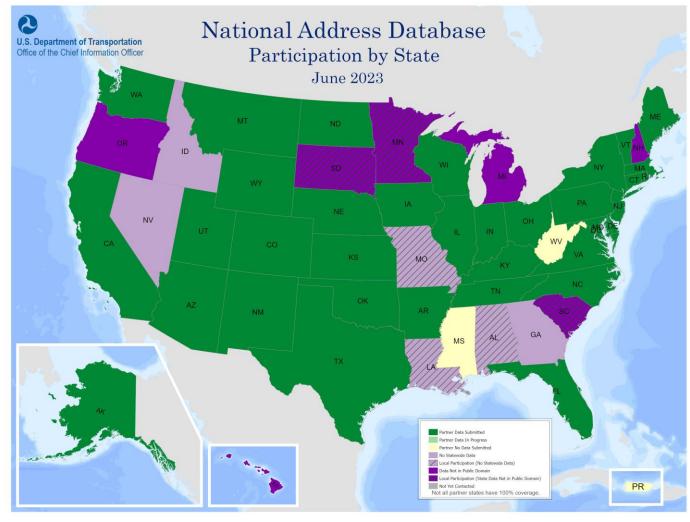
## NATIONAL 911 PROFILE DATABASE

- Of 56 states and territories,
- 50 took the time to self-report data from 20
- Annual Report with "2021 Data" was published February 2023.
- Collection was completed for 2022 data, June 2023.





## NATIONAL ADDRESS DATABASE (NAD)



#### Release 14 Coming July 2023:

- 75.9 million records
- Nebraska a new partner
- Data in 42 States
- 77 Individual partners submitting data
- Schema includes 23 additional fields
- Milepost values parsed and integrated into Address Number fields





# Continue to develop and share new resources

## **NG911 FOR PUBLIC SAFETY LEADERS**





## **911 LEGISLATIVE DATABASE**

#### Report 🛈

## 2022 Key Enacted 911 Legislation









## STATE ASSESSMENT PROGRAM

 Valuable insights from colleagues using industry developed guidelines

## **Reviews the following areas:**

- Statutory & Regulatory
- Governance
- Functional and Operational Planning
- Standards
- Security/COOP
- Human Resources/Training
- Evaluation

#### Participating in the State 911 Assessment Program



**Overview:** You know your state's emergency communications system. You can see what's working well and what could use some improvements. However, making the case to achieve important improvements can sometimes be a challenge.

The State 911 Assessment Program – managed by the National 911 Program – creates a forum for state administrators to generate expert peer input on system improvement efforts. Based on a set of objective and comprehensive benchmarks established *by* state administrators, *for* state administrators, the assessment program convenes unbiased, peer feedback to inform existing 911 system operation opportunities and recommend future improvements.

**G** Having a dedicated team of peer experts to help you move your 911 program forward is invaluable. We knew we needed additional support to fully implement NG911 for our state, and this assessment helped us identify gaps in an objective way that is specific to our state."

> Blake DeRouchey 911 Program Manager, State of Iowa

State Administrators in Delaware, North Carolina and Iowa have tapped the State Assessment Program to garner addition insights to support efforts in applying for new funding and staff, developing new protocols and policies, and furthering NG911 implementation.

#### Consider your own goals:

What do you aim to accomplish? How can input from your colleagues provide the information, expertise, and neutral-party perspectives to help you achieve system goals? Assessments are voluntary, require fewer state resources compared to other assessment options, and are supported by the National 911 Program's team of contracted support and peer participants. The assessment process does not include a technical evaluation, but it does identify operational strengths, weaknesses, and includes actionable recommendations to help make improvements to the system.



## 911 DOCUMENTS & TOOLS

Categories	911.gov				
All	<b>Docs Tools</b>				
Governance					
Historical Documents	Have a resource you'd like to share with the community?				
Management					
National 911 Program	<b>Q</b> Search Documents & Tools				
Operations	302 results				
Post-Crash Care	NSGIC Addresses for the Nation - Pathways from Restricted Data to Open Data				
Standards and Best Practices	This white paper describes how three states—Arizona, Kansas and Kentucky—overcame policies in place that restrict data from being shared publicly to become NAD partners. Jun 7, 2023 / Technical / GIS / National 911 Program / Additional Resources				
Technical					
Sort By	What Is a Safe System Approach?				
Title	This webpage explains the principles and objectives of the U.S. Department of Transportation's Safe System Approach.				
Publish Date	Jun 7, 2023 / Post-Crash Care / National 911 Program / Additional Resources				

## 911.gov

## 

stems.gov



## Kate Elkins, MPH, CPH, NRP

911/EMS Specialist (202) 366-8812 katherine.elkins@dot.gov

## NowGen911 Back to Basics Part 1

Lonna Cain, Intrado Chris White, Burke County Tom Rogers, NG911 Network Engineer Greg Dotson, NMAC Manager Josh Briggs, AT&T NC NG911 Program Manager RapidDeploy



#### **Overview – Emergency Call Relay Center**

Lonna Cain August 2023

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#### What IS the Intrado Emergency Call Relay Center (ECRC)

- ONE OF THREE centers in North America that provide nationwide emergency call handling services we were the first
- Provide emergency call taking services for our customers (Wireless, VoIP, Telematics & Satellite carriers)
- We receive calls from North America including all 50 states, Canada, Puerto Rico, Guam, American Samoa, the Northern Mariana Islands and the US Virgin Islands
- We transfer emergency calls to the appropriate dispatch center after gathering basic information





#### A day in the ECRC



#### **Emergency Call Triage**

Calls route to the ECRC due to provisioning errors, technical issues, network overload. We transfer emergency calls to the geographically appropriate dispatch center after gathering basic information.



#### **Satellite and Telematics**

Primary answering point for Satellite and Telematics calls.

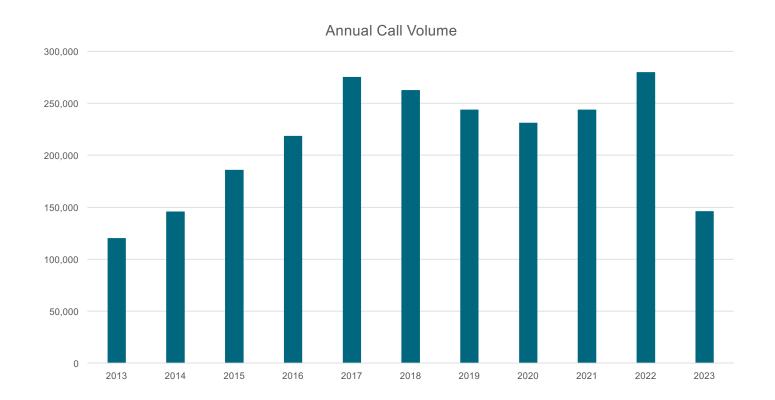


#### **Critical Incident Assistance**

We provide short-term assistance for highvolume calls due to catastrophic events to ensure 911 calls do not go unanswered.

- Hurricane Harvey, Hurricane Ida
- Superstorm Sandy
- Hawaii Missile Scare
- Nashville and Boston Marathon bombings

#### ECRC call volume





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#### Our team

- The ECRC team is based in Longmont, Colorado
  - · We do have several remote Telecommunicators around the country
- Our Telecommunicators are APCO certified and have prior PSAP experience
  - 57% of the team has worked in more than 1 PSAP
  - 21% of the team have been first responders
  - Over 200 years of combined 911 experience
- We exceed the NENA call standard of answering 90% of calls within 10 seconds
- Staffed with 26 Telecommunicators (includes 4 Sr. Telecommunicators), 4 Supervisors & Manager



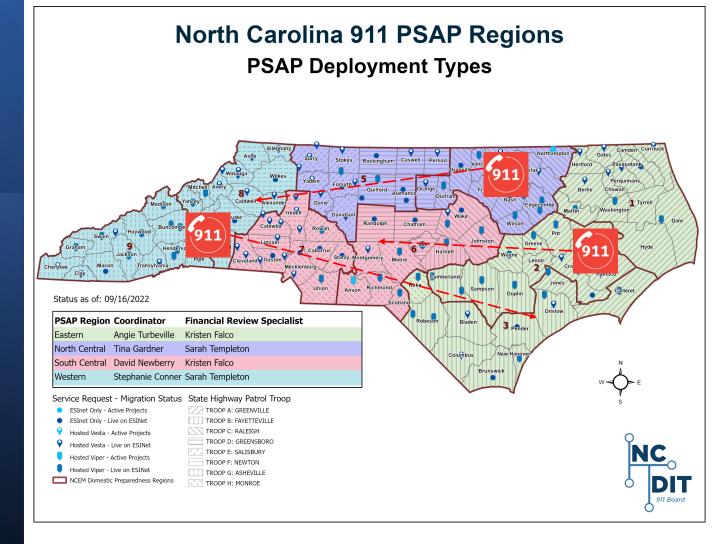




intrado.com

### Importance of Transfers

Chris White, Assistant 911 Director of Burke County

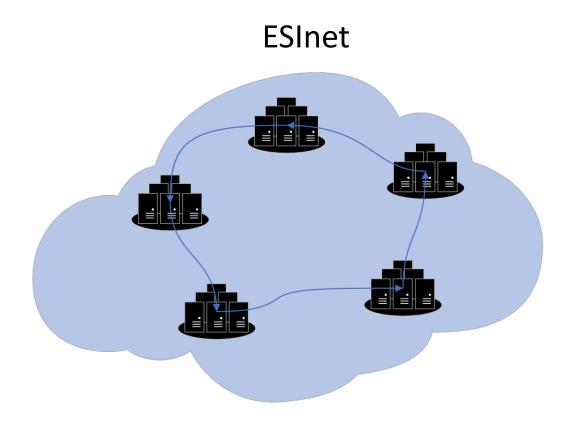


# NENA Enhanced PSAP Registry and Census (EPRC)

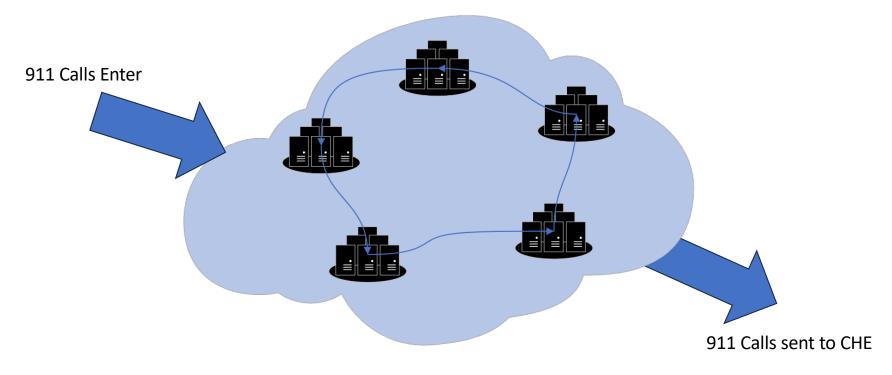
Greg Dotson NMAC Manager N.C. 911 Board

# ESInet – Back to Basics

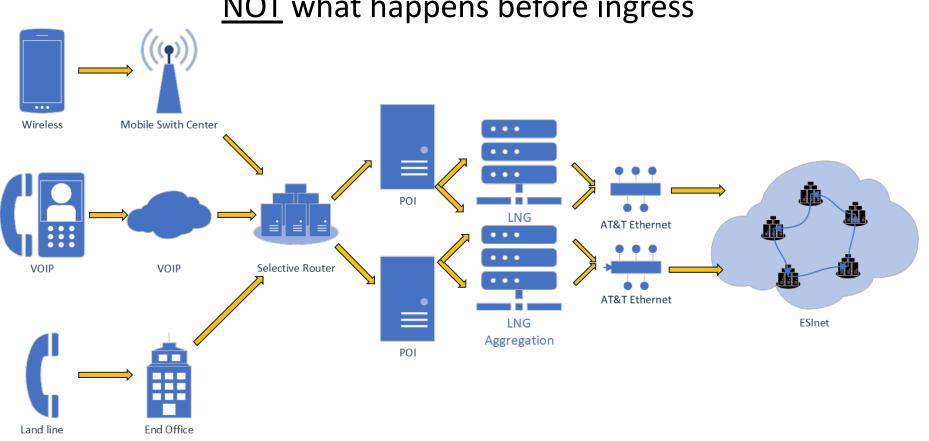
Tom Rogers, NG911 Network Engineer Greg Dotson, NMAC Manager Josh Briggs, AT&T NC NG911 Program Manager



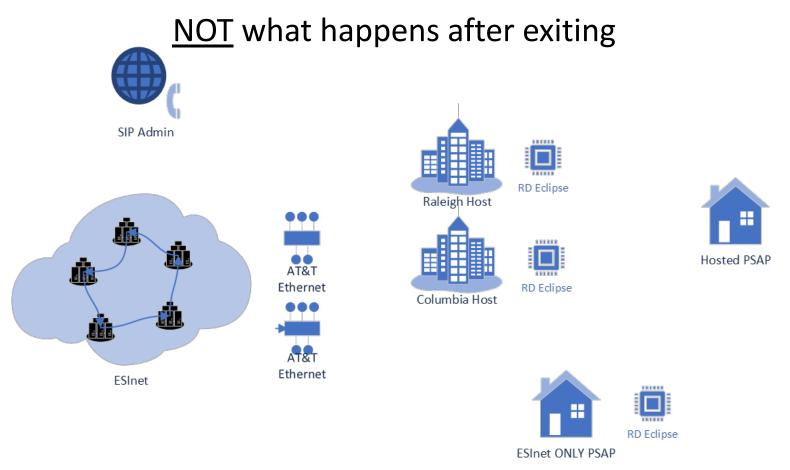
### What the ESInet <u>IS</u>

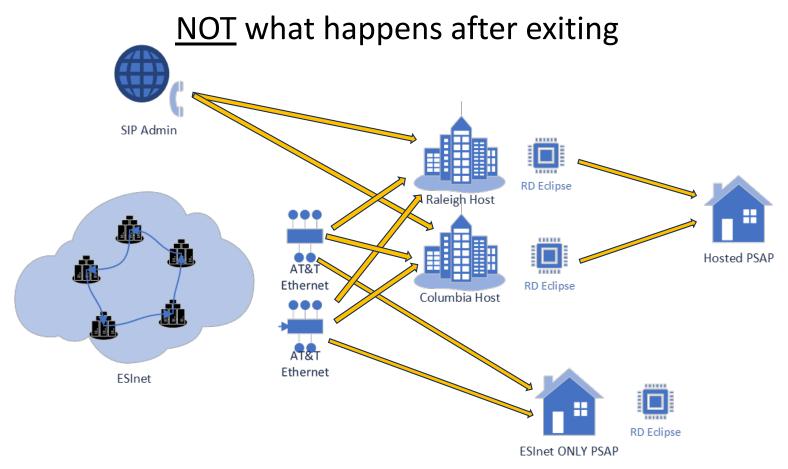


#### **<u>NOT</u>** what happens before ingress ((•)) ... Wireless Mobile Swith Center • • • • • • • • • POI LNG AT&T Ethernet • • • . . . VOIP Selective Router VOIP . . . ۰. Ó AT&T Ethernet LNG ESInet Aggregation POI Land line End Office

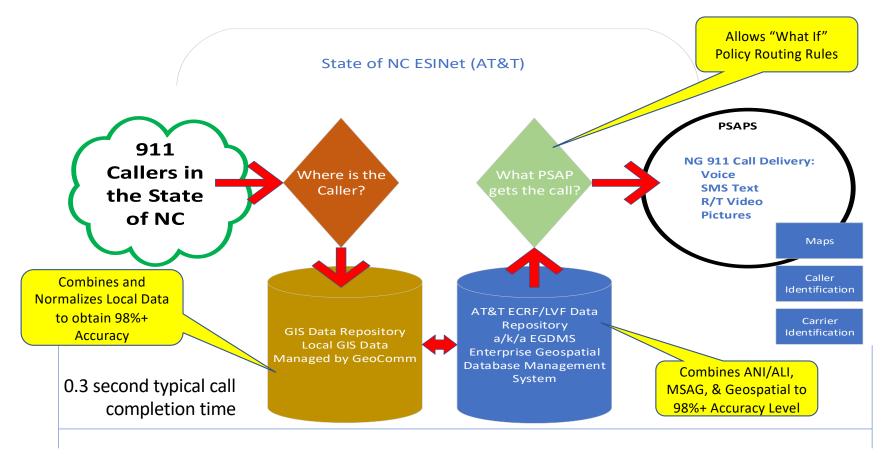


**<u>NOT</u>** what happens before ingress



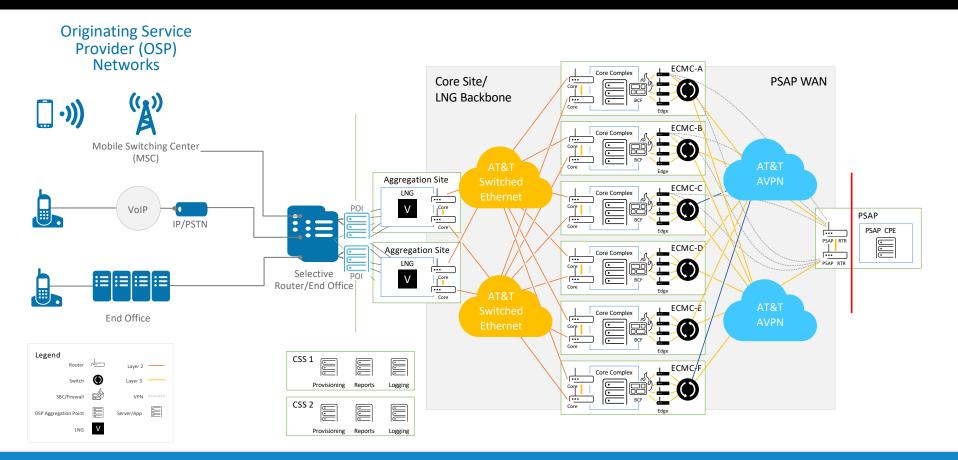


# North Carolina NG 911



#### **Solution Architecture**

#### AT&T ESInet<sup>™</sup> Service



### Next Generation 9-1-1

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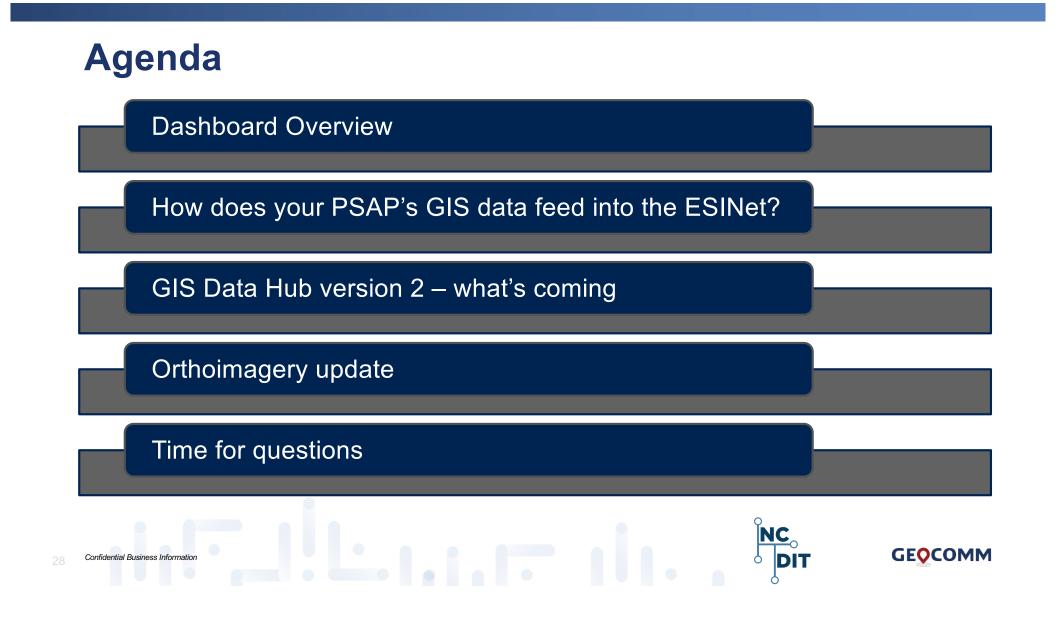
# RapidDeploy Eclipse Questions

RapidDeploy Team



### **GIS for Next Generation 9-1-1**

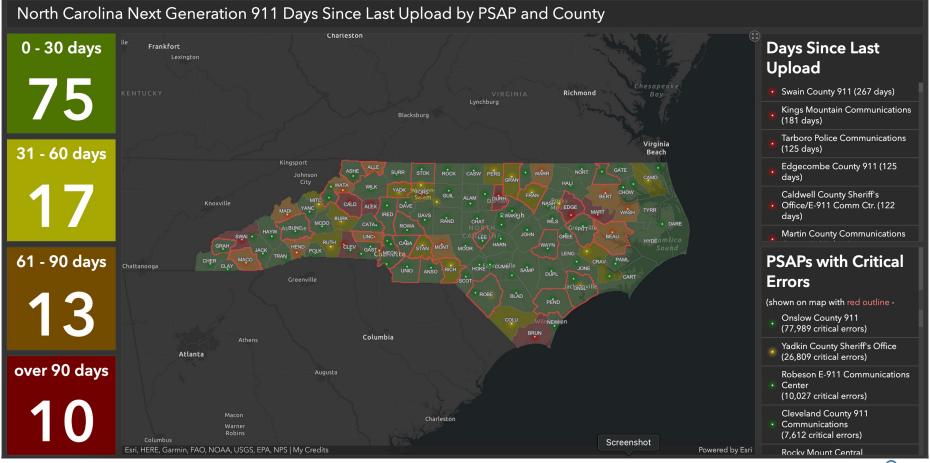
<sup>27</sup> Presented by Matt McLamb, CGIA Assistant Director and Jessica Beierman, GeoComm GIS Project Manager



# **Dashboard Overview**

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https://nconemap.maps.arcgis.com/apps/dashboards/47592879688f49c39ade923066691b69

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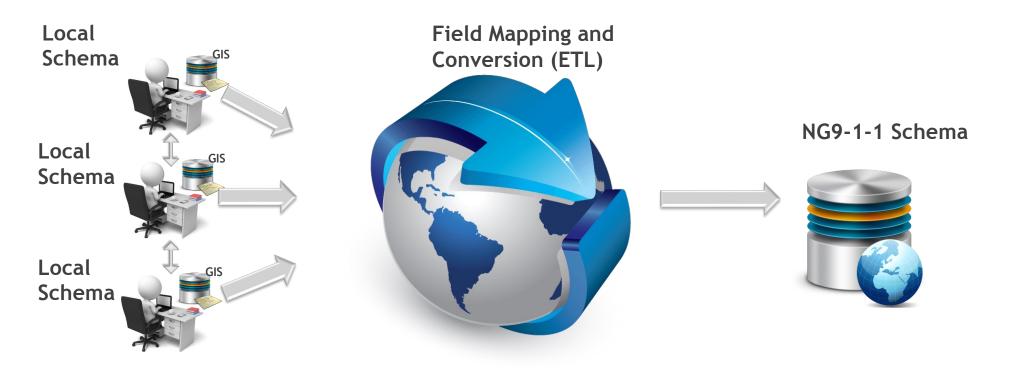
# How does your PSAP's GIS data feed into the ESINet?

Confidential Business Information

GEQCOMM

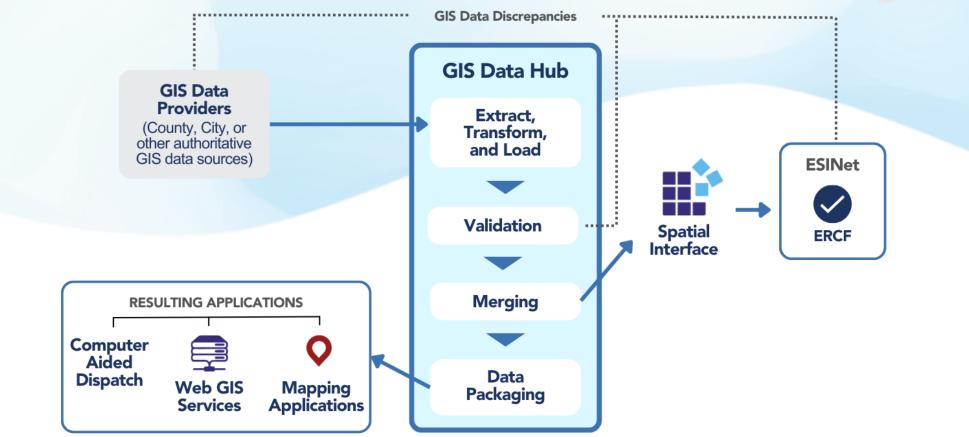
# Preserve local schema – ETL process

(Extract, Transform, Load)









**GEOCOMM** 

# Resources

- NG911 Website
  - Links to dashboards
  - NG911 project overview
  - NG911 GIS resources
    - GIS Data Hub User Guide
    - Live on i3 Help Guide
    - FAQ
    - Contact Information

https://it.nc.gov/about/boards-commissions/nc-911board/next-generation-911

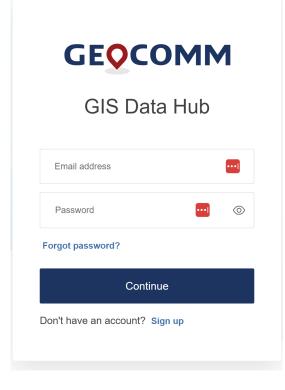


1226 Next Generation 911 NOT and the M.C. 911 Board are working to bring to North Carolina. It sends emergency responders to start	KG011 KG011 Kreety		
NG911 Project Progress	Project Updates Emergency Services IP Network (ESINet) Statu Map		
NG911 GIS Status Map	NG911 Days Since Last Upload Dashboard		
	Contacts & Trainin	3	0
Regional Coordinato	rs (	51S in the i3 Environment Training	
_	_		0

# GIS Data Hub version 2 – what's coming

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GEQCOMM







GEOCOMM GIS Data Hub	Navigation Bar	User Menu	Help  Help  SoNC: AlamanceCoNC
Submit New Data			
Data Targets	Submit New Data		
Analytics	Upload your complete map data files for processing.		
Data Packages			
Available Packages	Work Area Drop your file here		Upload and Submit
	Supports a single :	zip file up to 5 GB.	
	© 2023 - Geo-Comm, Inc. All Rights Reserved. www.geo-comm.com	Te	chnical Support: <u>Submit a support ticket</u> <u>1-866-837-7379</u>
			O

Help 
 KC GIS Managed Service Team
 SoNC: AlamanceCoNC

Submit New Data				
Data Targets		Data Targets		
Analytics		Enable the targets that will run on each data submission.		
Account Settings	~			
Data Packages	~	NENA Data Model v2		
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Technical Support: Submit a support ticket 1-866-837-7379

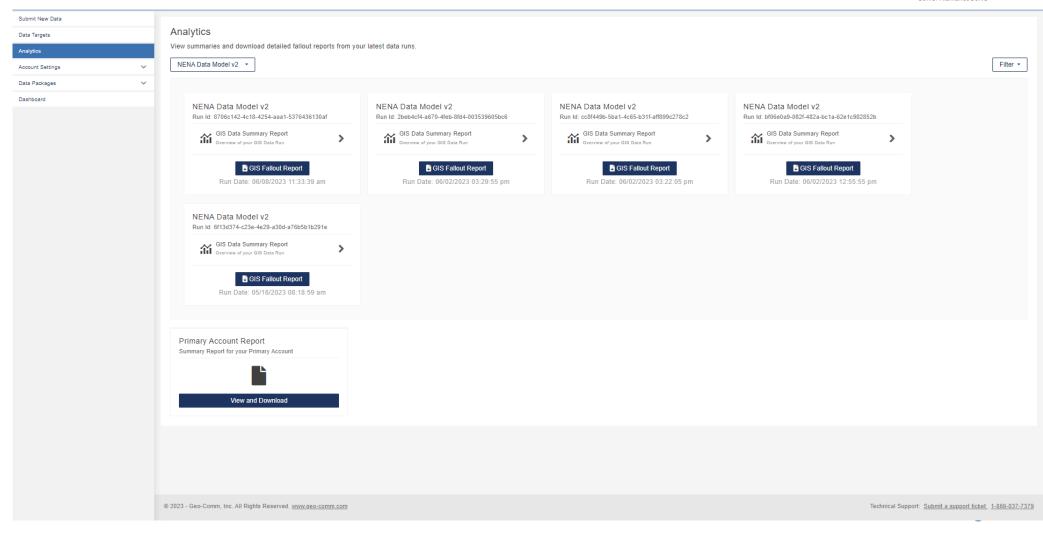
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NENA Data Model v2							
Layer and Field Mapping							
All Layers	<b>9</b> of 13 Layer	9 of 13 Layers Complete					
County Or Equivalent Boundary Emergency Medical Services Boundary	Status	Target Layer Name	Required Fields	Source Layer Name	Mapping		
Fire Boundary		County Or Equivalent Boundary			Map Layer		
Incorporated Municipality Boundary Law Enforcement Boundary	$\oslash$	Emergency Medical Services Boundary	7 of 7	EMSStation	View Fields		
Provisioning Boundary PSAP Boundary	$\odot$	Fire Boundary	7 of 7	FireStation	View Fields		
Railroad Centerlines	$\otimes$	Incorporated Municipality Boundary	7 of 7	Municipalities	View Fields		
Road Centerlines Site Structure Address Points	$\otimes$	Law Enforcement Boundary	7 of 7	Z LawAgency	View Fields		
State Or Equivalent Boundary Railroad Crossing	$\otimes$	Provisioning Boundary	3 of 3	ProvisioningBoundary	View Fields		
ALI Database	$\otimes$	PSAP Boundary	7 of 7	PSAPBoundary	View Fields		
		Railroad Centerlines			Map Layer		
	$\otimes$	Road Centerlines	17 of 17	Centerlines	View Fields		
	$\odot$	Site Structure Address Points	9 of 9	Address	View Fields		
		State Or Equivalent Boundary			Map Layer		
		Railroad Crossing			Map Layer		

All layers have been saved. Ready to run your data.

Done

Help 
 KC GIS Managed Service Team
 SoNC: AlamanceCoNC



< Back to Analytics

Job Reports

GIS Data Summary Report

Analytics / GIS Data Summary Report: 8706c142-4c18-4254-aaa1-5376436130af

Search

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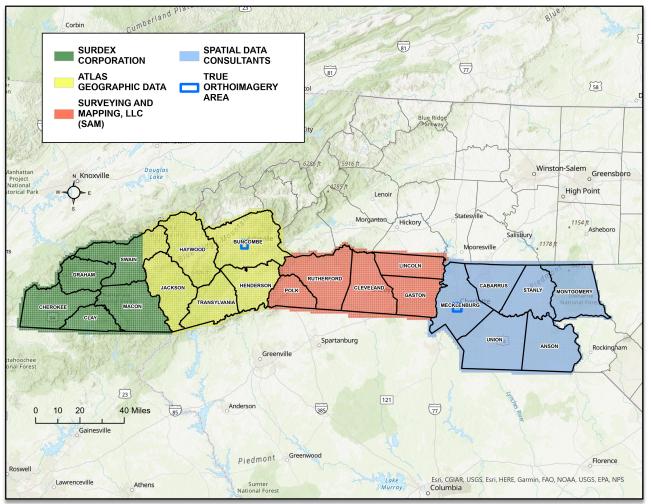
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# **Orthoimagery Update**

Confidential Business Information



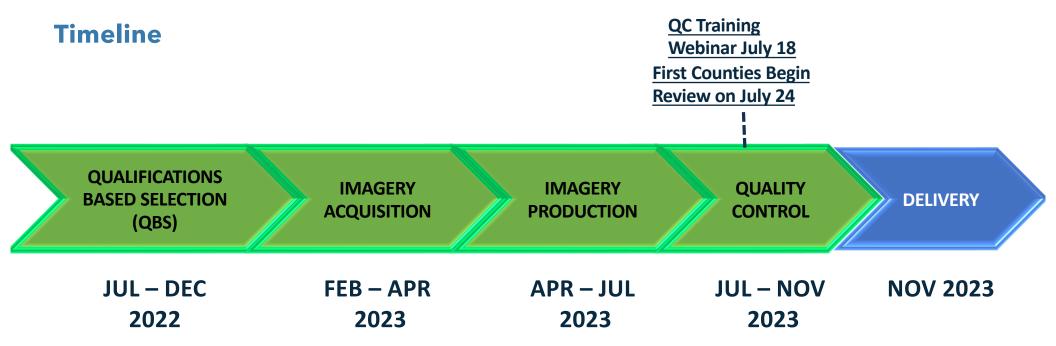
# **2023 Southern Piedmont & Mountains**



- 21 counties
- 10,397 square miles
- 50% of Project Area considered 'Mountain Acquisition'
- True Orthoimagery for Asheville & Charlotte
- 4-Band Ortho Products continuing to be developed for this phase to complete entire state of CIR



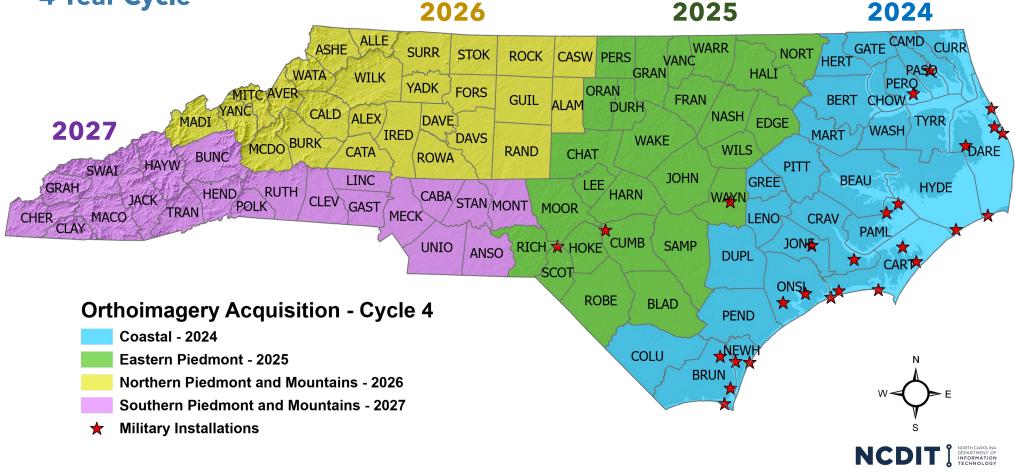
### **2023 Southern Piedmont & Mountains**





### **Proposed Orthoimagery Program Cycle**

#### **4-Year Cycle**



## Questions

Contact Information Jessica Beierman

319

jbeierman@geocomm.com ncteam@geocomm.com

Confidential Business Information



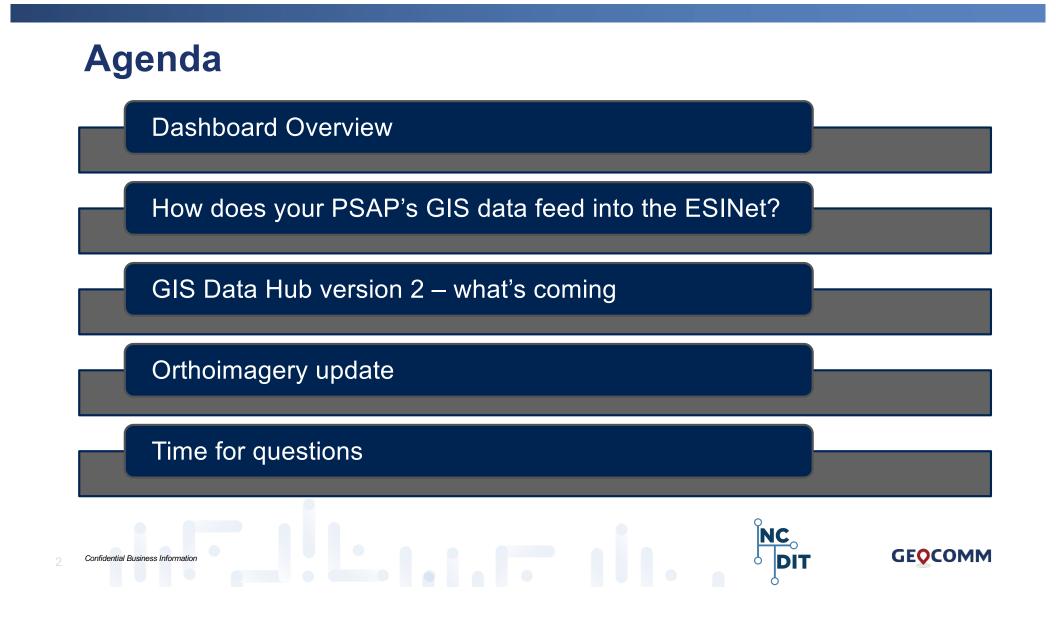




AUGUST 24, 2023

### **GIS for Next Generation 9-1-1**

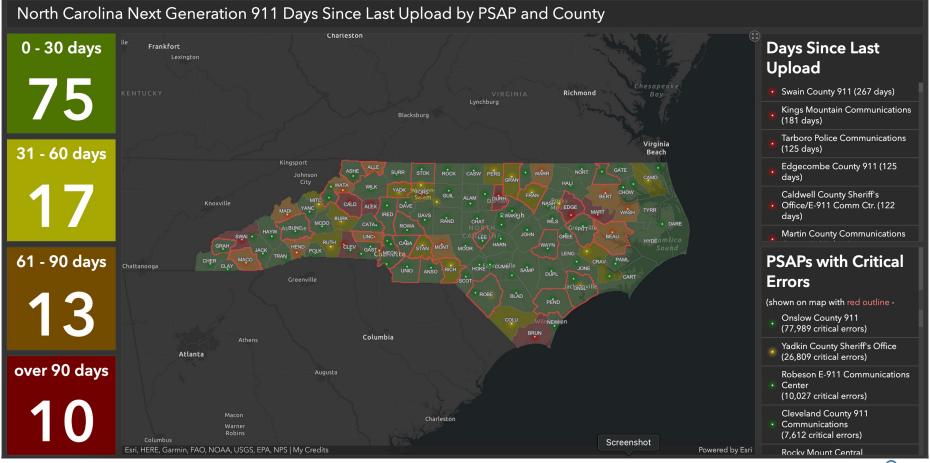
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Confidential Business Information





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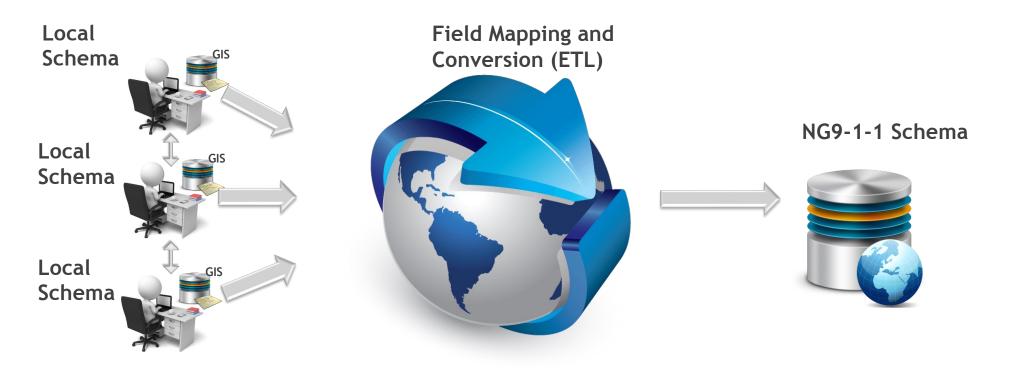
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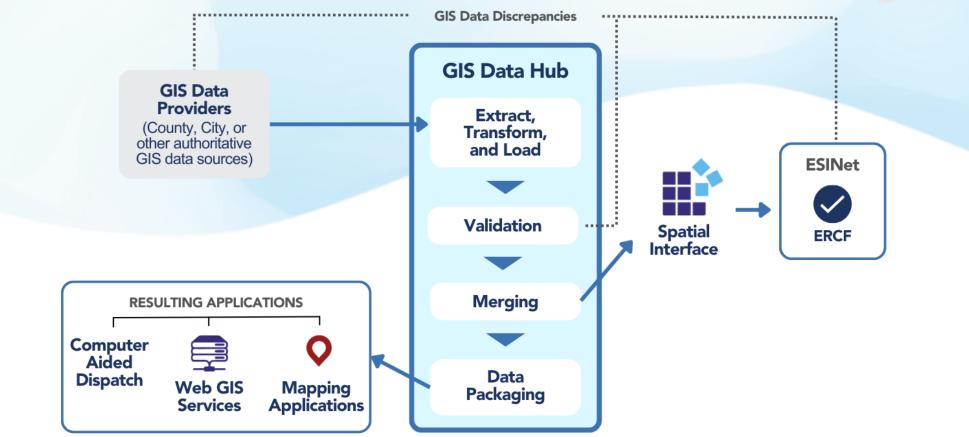
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  - NG911 GIS resources
    - GIS Data Hub User Guide
    - Live on i3 Help Guide
    - FAQ
    - Contact Information

https://it.nc.gov/about/boards-commissions/nc-911board/next-generation-911

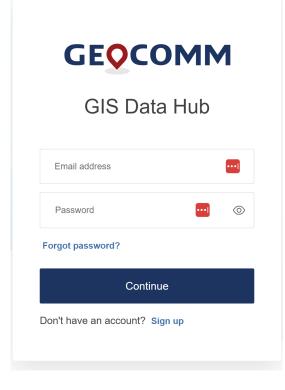


1226 Next Generation 911 NOT and the M.C. 911 Board are working to bring to North Carolina. It sends emergency responders to start	KG011 KG011 Kreety		
NG911 Project Progress	Project Updates Emergency Services IP Network (ESINet) Statu Map		
NG911 GIS Status Map	NG911 Days Since Last Upload Dashboard		
	Contacts & Trainin	3	0
Regional Coordinato	rs (	51S in the i3 Environment Training	
_	_		0

## GIS Data Hub version 2 – what's coming

Confidential Business Information

GEQCOMM







GEOCOMM GIS Data Hub	Navigation Bar	User Menu	Help  Help  SoNC: AlamanceCoNC
Submit New Data			
Data Targets	Submit New Data		
Analytics	Upload your complete map data files for processing.		
Data Packages			
Available Packages	Work Area Drop your file here		Upload and Submit
	Supports a single	zip file up to 5 GB.	
	© 2023 - Geo-Comm, Inc. All Rights Reserved. www.geo-comm.com	Te	chnical Support: <u>Submit a support ticket</u> <u>1-866-837-7379</u>
			O

Help 
 KC GIS Managed Service Team
 SoNC: AlamanceCoNC

Submit New Data				
Data Targets		Data Targets		
Analytics		Enable the targets that will run on each data submission.		
Account Settings	~			
Data Packages	~	NENA Data Model v2		
Dashboard		Status: 🕂 Field and Layer Mapping Required		
		Layer and Field Mapping     soft 22 Layers Complete     Last Run Date: 00/08/2023 11:38:40 am		
			0 Enabled	R

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Technical Support: Submit a support ticket 1-866-837-7379

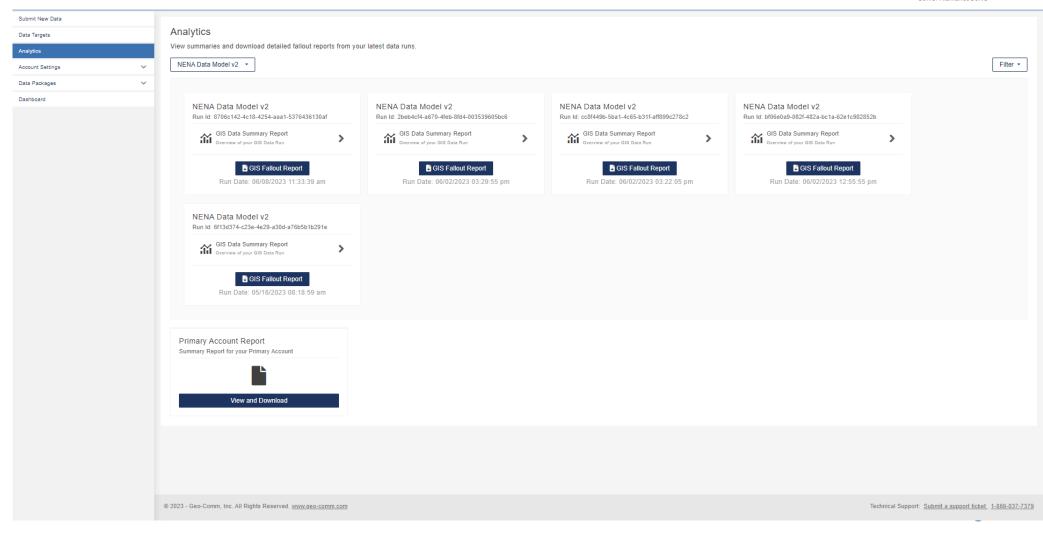
💄 Jessica Training 🕑 Help 🔻 SoNC: AlamanceCoNC -

< Back to Data Targets	Data Target:	: NENA Data Model v2 / Layers			
NENA Data Model v2					
Layer and Field Mapping					
All Layers	9 of 13 Layer	rs Complete			
County Or Equivalent Boundary Emergency Medical Services Boundary	Status	Target Layer Name	Required Fields	Source Layer Name	Mapping
Fire Boundary Incorporated Municipality Boundary		County Or Equivalent Boundary			Map Layer
Incorporated Municipality Boundary Law Enforcement Boundary	$\oslash$	Emergency Medical Services Boundary	7 of 7	EMSStation	View Fields
Provisioning Boundary PSAP Boundary	$\oslash$	Fire Boundary	7 of 7	FireStation	View Fields
Railroad Centerlines	$\odot$	Incorporated Municipality Boundary	7 of 7	Municipalities	View Fields
Road Centerlines Site Structure Address Points	$\otimes$	Law Enforcement Boundary	7 of 7	C LawAgency	View Fields
State Or Equivalent Boundary Railroad Crossing	$\odot$	Provisioning Boundary	3 of 3	ProvisioningBoundary	View Fields
ALI Database	$\odot$	PSAP Boundary	7 of 7	PSAPBoundary	View Fields
		Railroad Centerlines			Map Layer
	$\otimes$	Road Centerlines	17 of 17	Centerlines	View Fields
	$\oslash$	Site Structure Address Points	9 of 9	Address	View Fields
		State Or Equivalent Boundary			Map Layer
		Railroad Crossing			Map Layer

All layers have been saved. Ready to run your data.

Done

Help 
 KC GIS Managed Service Team
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< Back to Analytics

Job Reports

GIS Data Summary Report

Analytics / GIS Data Summary Report: 8706c142-4c18-4254-aaa1-5376436130af

Search

Layer Name	QC Name	# Elapsed Time (s)	Fallout Count	Features Analyzed	Sync Percent	QC Severity Level
ALIDatabase	ALI to RCL Synchronization	3.88	9,321	37,281	75%	▲ critical
SSAP	Duplicate Values	0.99	250	90,934	100%	▲ critical
RCL	Address Range Overlaps	3.818	15	11,583	100%	▲ critical
Address	Empty Geometry	0.357	1	90,935	100%	▲ critical
Centerlines	Empty Geometry	0.277	0	11,583	100%	▲ critical
EMSStation	Empty Geometry	0.27	0	5	100%	A critical
ESB_EMS	Null Value in Field	0.281	0	5	100%	A critical
ESB_EMS	Null Value in Field	0.32	0	5	100%	▲ critical
ESB_EMS	Null Value in Field	0.162	0	5	100%	▲ critical
ESB_EMS	Acceptable Values	0.268	0	5	100%	▲ critical
ESB_EMS	Acceptable Values	0.491	0	5	100%	🛕 critical
ESB_EMS	Acceptable Values	0.274	0	5	100%	▲ critical
ESB_EMS	Polygon overlap check	0.418	0	5	100%	▲ critical
ESB_EMS	Polygon Compare (Overhangs)	0.581	0	5	100%	▲ critical
ESB_EMS	Polygon Compare (Gaps)	0.603	0	5	100%	▲ critical
ESB_EMS	Duplicate Values	0.227	0	5	100%	A critical
ESB_EMS	Null Value in Field	0.311	0	5	100%	🛕 critical
ESB_EMS, ESB_FIRE, INC_MUNI, ESB_LAW, PROV_BNDY, PSAP, SSAP	Globally Unique ID	0.822	0	91,208	100%	▲ critical
ESB_FIRE	Acceptable Values	0.419	0	83	100%	▲ critical
ESB_FIRE	Acceptable Values	0.469	0	83	100%	▲ critical

Loc GIS Managed Service Team SoNC: AlamanceCoNC + 🕑 Help 🝷

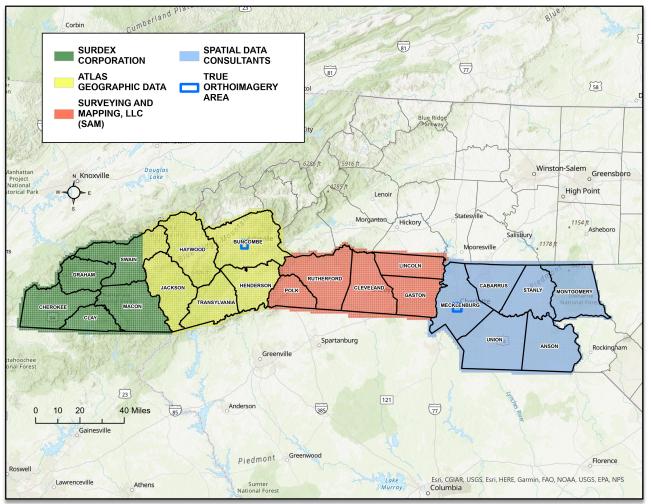
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# **Orthoimagery Update**

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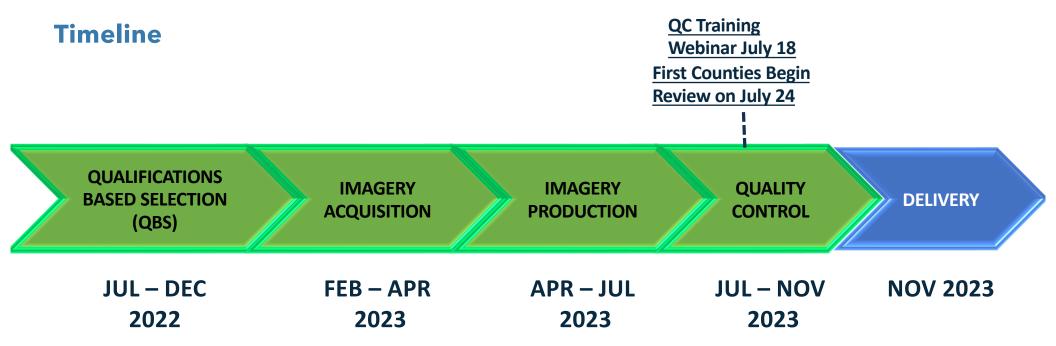
## **2023 Southern Piedmont & Mountains**



- 21 counties
- 10,397 square miles
- 50% of Project Area considered 'Mountain Acquisition'
- True Orthoimagery for Asheville & Charlotte
- 4-Band Ortho Products continuing to be developed for this phase to complete entire state of CIR



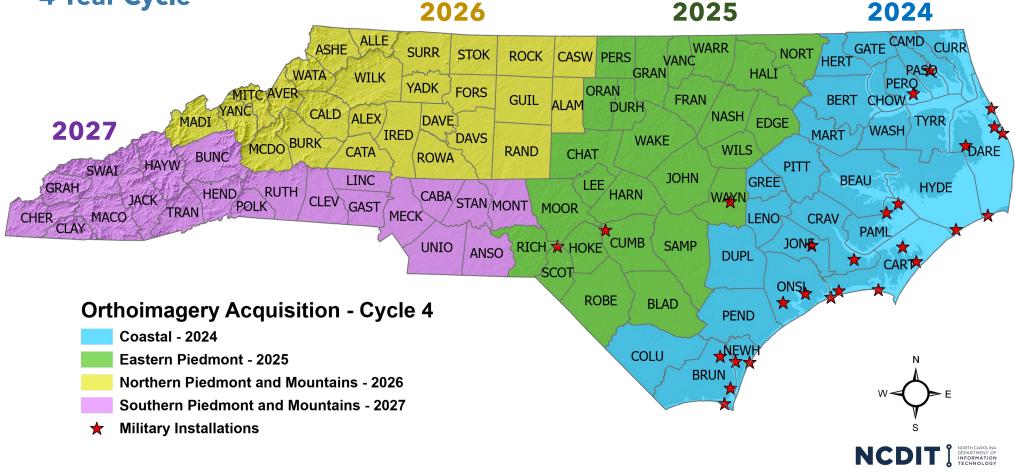
### **2023 Southern Piedmont & Mountains**





### **Proposed Orthoimagery Program Cycle**

### 4-Year Cycle



### Questions

Contact Information Jessica Beierman

319

jbeierman@geocomm.com ncteam@geocomm.com

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# **AT&T NG9-1-1 PSAP Solutions**

### State of North Carolina – Roadmap Update August 24, 2023



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#### AT&T NG9-1-1 PSAP Solutions – High-Level Roadmap

### NG911 CPE Solutions

- Continued support for Motorola VESTA and Intrado VIPER
  - VESTA 9-1-1 R8.x
  - VIPER 7.x
- Ongoing NENA i3 standards compliancy content
- Key feature content including robustness and security enhancements

### NG911 CPE/Cloud Hybrid

- Cloud-based services attached to 911 CPE
  - Motorola Command Central Apps w/VESTA
  - Intrado Spatial Command & Control w/VIPER
  - RapidDeploy RapidOne

#### NG911 Cloud Solutions

- Active AT&T project
- AT&T ESInet™ ⇔ Cloud
   911 Call Handling architecture
- Intent for AT&T maintained Cloud Call Handling/Mapping solutions
  - Motorola Command Central
  - Intrado "Cobra"
  - RapidDeploy RapidOne



#### **AT&T ESInet Enhancements**

- Nuisance Callers Block/Drop or Route Known Callers to Call Queues
  - NMAC Users can add, edit, or delete TNs from an existing Nuisance TN call routing policy. RFAI and i3 PSAPs can add telephone
    numbers that have been identified as frequent callers to the PSAP for non-emergency reasons. Once a TN is identified, it can be added
    to an existing call queue specifically created to ensure that the caller is not disconnected but put in a call queue and answered when
    PSAP resources are available. Note, that before a TN can be added, a Nuisance TN call queue must exist in the system for that PSAP.
    The Nuisance TNs screen will list available PSAP call queues. Contact customer support to have a Nuisance TN call queue provisioned
    via MP for access in CMP.
- TDOS Incident Mitigation
  - AT&T Administrative CMP User IDs with the correct permissions can add/remove or expire TDoS threat TNs to/from list to shut down calling from that TN immediately (TNs added can be auto released / expire at preset date & time). Additionally, they can view TDOS CDRs via the Logging tab by selecting TDOS within the Disposition pulldown menu using the Optional Search Criteria of Group 3 ECMC PSAP.
- TDOS Call Threat Interrogation
  - For limited TDOS determined automated threat calls only, (Not every call), the calling party will be asked to press a key to validate the legitimacy of the calling party, and when appropriate key is pressed, validated call is routed appropriately. (This is to provide validation to ensure calls that may have MDNs previously tagged as TDOS threats can be validated as non-threats for normal routing to PSAPs.)
- PSAP Queuing Aligning Call Queues w/CPE Queues
  - A call queue allows a PSAP to give different priorities to the calls they receive from various sources; for example, alternate routing, test, and training. Based on the call queue, the PSAP can decide how to best handle the call.

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#### • VESTA 9-1-1:

- Release 8.0 HF1 AFU against AT&T ESInet<sup>™</sup> as of 8/19/23
  - VESTA Data Publisher, Z-Axis / Uncertainty Support, Redundancy/security enhancements, new OS
- Release 8.1 now in AT&T Lab testing, ETA for FCA Ready in 9/23
  - EIDO enhancements, common code for Public Safety and Federal VESTA software
- VESTA 9-1-1 Release 8.2 forecast 4Q23
  - RTT P2P Support
- VESTA 9-1-1 Release 8.x continued CPE roadmap 2024
  - RTT Conference / Transfer Support





#### CommandCentral Smart Transcription with VESTA 9-1-1

U.S. Patent 10,868,910



#### WHAT IS SMART TRANSCRIPTION?

A cloud-based service that integrates with the VESTA 9-1-1 platform providing real-time voice audio and transcription into a searchable text transcript.

#### WHAT DOES IT OFFER?

An easy, yet comprehensive way to verify caller information, monitor calls in real-time and store transcripts for post-call analysis.

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#### • VIPER 7.0:

- Architectural enhancements for improved scaling and redundancy
- Quarterly patch (KB) updates for VIPER 7.0 and Power911 7.0, R7.0 SP1 forecast for 4Q23
- Power911 Web in AT&T lab testing, issues being investigated, PWEB 1.9 embedded in R7.0 SP1 no desktop upgrades
- TXT29-1-1 Language Translation support in Power911
- VIPER supports all applicable NENA standards, including the display of all available lines on the user interface. By default, all incoming calls are accompanied by visual and audible indications that depict:
  - Normal the first attempt to route the call was successful.
  - Overflow the first route was busy or congested.
  - Alternate the first route attempt failed, and another route was attempted.
  - Transfer the call was transferred.
  - Not Available no routing status was received.
- "Cobra":
  - NEWLY architected as a cloud-based NG911 Call Handling/Mapping solution (not VIPER reinvented)
  - Forecast for delivery to AT&T labs for testing in 4Q23

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#### VIPER and Power 911 Key Feature comparison

Feature	Release 7.0	Release 5.1
Scalability	1,000 positions 96 satellites	150 positions 24 satellites
Centralized Configuration and SW management	PSAP Management gateway Silent Install of Power 911 Rollback Feature	Separate VIPER and POWER configurations
Skillset assignments	Improved Agent Management	-
Multiple default workstation configurations	Improved PSAP management	Single configuration
Basic i3 core services support	PIDF-LO and ADR i3 version 2 logging	PIDF-LO and ADR i3 version 2 logging
Enhanced i3 core services	Multiple LoST regions, Call history i3 version 3 logs, Referred-by header Location Validation Function Emergency Incident Data Object (EIDO) Service and Element state notifications NGCS abandoned call notifications NENA i3 confidence and uncertainty	
Text based calls	MSRP and Real-time Text Automatic text back of abandoned calls	MSRP
CAD out over IP	Supported	Serial only
GUI interface	Desktop and web browser based	Desktop only
Intrado <sup>15</sup>	Confidential and Proprietary	

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#### VIPER and Power 911 Key Feature comparison

Feature	Release 7.0	Release 5.1
PowerOps 2.0	Supported	Supported
Supervision Activity	Extended CDR format	-
CDR out over IP	Supported	Serial only
Enhanced Agent Roaming	PSAP selection on logon	Requires different user IDs per PSAP
Transfer/conferencing	Blind Transfer, Add to conference, Patch to conference Remove from conference	Blind Transfer, Add to conference, Patch to conference, Remove from conference
Basic call features	Call hold, unhold, park, barge in, release Nohold conference, Tandem transfer Hookflash, call patch	Call hold, unhold, park, barge in, release Nohold conference, Tandem transfer Hookflash, call patch
Enhanced Call features	Exclusive hold, Dynamic conferencing Call pickup, Call supervisor Enhanced call patching (between nodes)	-
Basic Call processing	ACD logon, logoff, ready, not ready Dynamic ACD logon/logoff Next ACD call	ACD logon, logoff, ready, not ready Dynamic ACD logon/logoff Next ACD call
Enhanced Call processing features	Skillset based forced ACD connect ACD call out of order Dynamic role change Route based ring group	-
Security Enhancements	Default password change, Password encryption Intuitus MDR Service (Network Surveillance)	-

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#### Text to 911 Language Translation

		ar Care
Provide translation	LI KLI O RDX Int 1 EDD Text Conversation Text Schwerzation Text 514 345-3307 Come pages (MM) 566-572 7 Address (MM) 566-572 7 Address (MM) 566-572 7 Address (MM) 566-572 7 Address (MM) 566-572 7 Come Compared to a state of the	Out State (See )
of text messages for a wide variety of languages;	DiState F	is your vessegency? = Prends agence* Agence scottere upgence*
The capability to detect the language of an incoming text message and, if	Image: Solution of the	6 See Turation • Seed Valee Call
different than the call taker's defined language, it will proceed with the translation of that	911     ADM     WIERDOM     Ford PO3_DEFAUL     Enderown     51043301 or 50101       ADD     Default     Come State     Call Pan     NR Receive     Cancel Tamel     Dectry Call F     Greeting Stop       ACD     Default     Forder Tamel     Voice State     Call Pan     NR Receive     Cancel Tamel     Dectry Call F     Greeting Stop       ACD     Default     Forder Tamel     Dectry Call F     Greeting Stop     No	Tanders HEWPOLDS
message.	Cord COM-, franker MAE TTY HOLD	
Intrado	Confidential and Proprietary	

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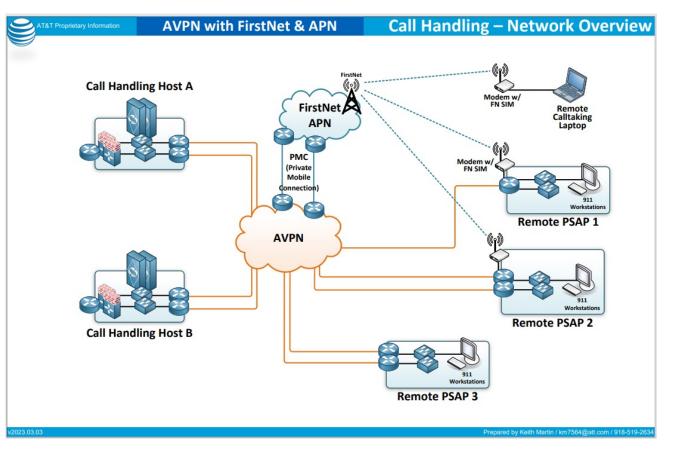
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#### AT&T NG9-1-1 PSAP Solutions – RapidDeploy Roadmap

- Eclipse Analytics
  - 3Q23 Transfer Origination Report, Summary Reference Sheet v2
  - 4Q23 Normalized Data Ingestion
- RapidOne
  - Cloud-based NG911 Call Handling integrated on Radius map forecast to labs 1Q24
- RapidResponse
  - FirstNet capable situational awareness Radius mapping based application, forecast 1Q24

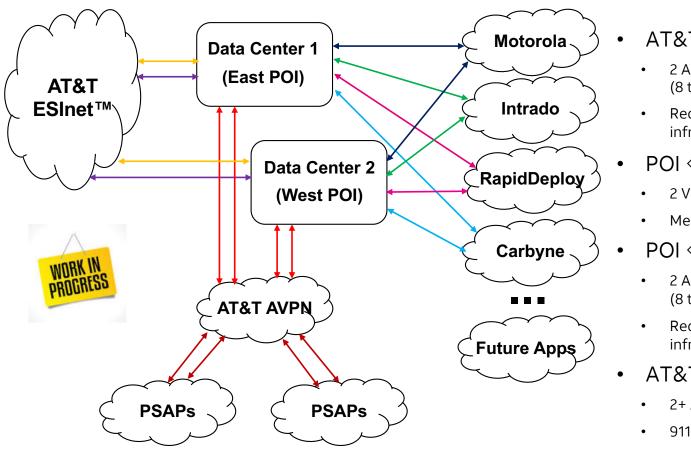
#### AT&T NG9-1-1 PSAP Solutions – FirstNet Wireless Backup for Hosted Call Handling

- Extends AT&T ESInet™ FirstNet Wireless Backup (FWB) to Call Handling Hosts to...
- NG911 Call Handling Host to Remote PSAP using the same constructs to now provide FWB tertiary connection end-to-end for routing and call handling
- Fujitsu monitoring to add FWB in addition to existing AT&T AVPN monitoring



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#### AT&T NG9-1-1 PSAP Solutions - Cloud PSAP Solutions Ecosystem



#### AT&T ESInet™ ⇔ Datacenter POI

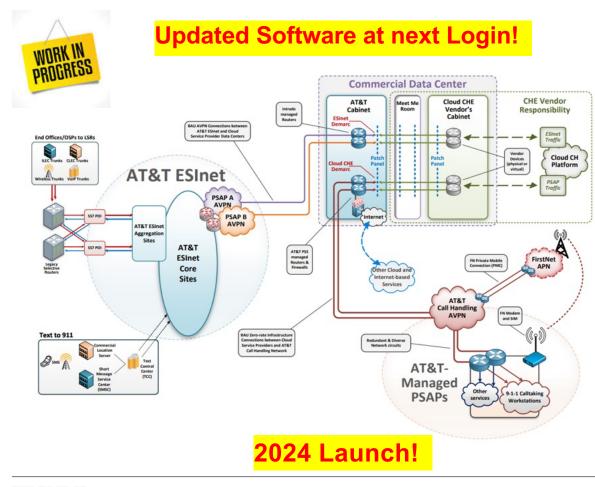
- 2 AVPN per datacenter per Supplier (8 total links to each datacenter)
- Redundant 911 tagged permanent
   infrastructure with governance
- POI 🗇 Cloud Supplier
  - 2 VPN per datacenter per Supplier (4 total)
  - Meet Me facilities within datacenter

#### POI ⇔ AT&T AVPN Cloud

- 2 AVPN per datacenter per Supplier(8 total links from each datacenter)
- Redundant 911 tagged permanent infrastructure with governance
- AT&T AVPN Cloud ⇔ PSAPs
  - 2+ AVPN per PSAP or Hosted network
  - 911 tagged and monitored, as implemented



#### AT&T NG9-1-1 PSAP Solutions – Cloud PSAP Solutions Architecture



- Minimizes back-room equipment and onsite technician dispatch needs
- Treated as an NG911 network like AT&T ESInet<sup>™</sup> including Change Management Controls
- NENA i3 standard / SIP Admin Line integration
- Redundancy via facilities, cloud instances, and connectivity
- Certification of architecture and Call Handling supplier for resiliency and functionality
- 2024 FirstNet Wireless Backup once AVPN model certified
- Monitoring by AT&T ESInet<sup>™</sup>, Cloud Suppliers, and Fujitsu (AT&T AVPN and FWB)





# Social/Backup Plans/COOP

Angie Turbeville, Eastern Regional Coordinator Tina Gardner, North-Central Regional Coordinator David Newberry, South-Central Regional Coordinator Brian Short, PSAP Assessment Coordinator



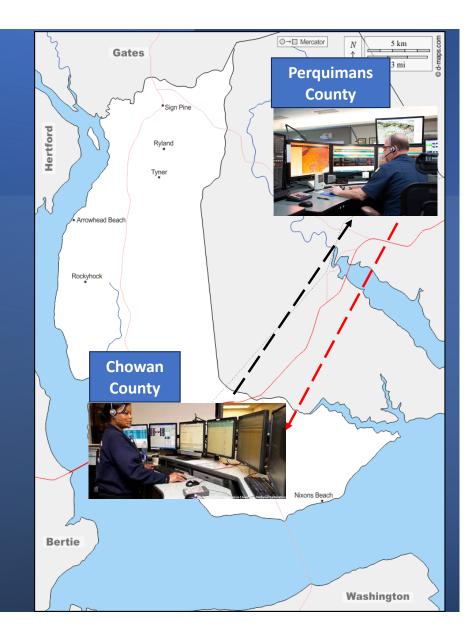




## Alternate and Abandonment Routing

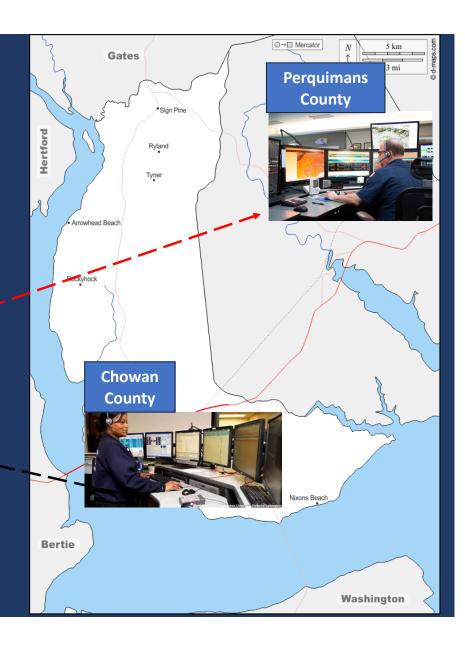
Regional Coordinators N.C. 911 Board Alternate (Default) Routing: A 911 call is <u>automatically</u> routed to a designated (default/alternate) PSAP when the ESInet cannot deliver calls to the PSAP

Chowan Central Communications and Perquimans County 911 are each other's Alternate routes.



Abandonment routing occurs when the PSAP is manually placed into the abandoned state to preconfigured location(s) or triggered via PSAP Abandonment Module/Device (PAD) installed at the PSAP *(ESInet Only PSAPs)*.

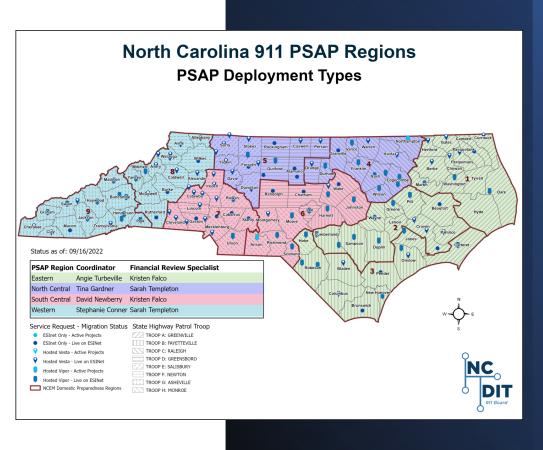




### **Backup Planning Example**

#### **Perquimans County 911**

- Physical Backup– Chowan Central Communications
- 1<sup>st</sup> Alt Route/Abandonment Chowan Central Communications
  - Hosted Vesta 2 and same host as Perquimans
  - Eastern Region
- 2<sup>nd</sup> Alt Route/Abandonment Wilson County 911
  - Hosted Viper 1
  - North Central Region
- 3<sup>rd</sup> Alt Route/Abandonment Lincoln County 911
  - (Hosted Vesta 1)
  - South Central Region
- 4<sup>th</sup> Alt Route/Abandonment Rutherford County 911
  - Hosted Vesta 3
  - Western Region



## Backup Plan: Items to Consider

- Alternate and Abandonment Routes beyond your neighboring county.
- Backup plan should include NMAC notification.
- How will calls be dispatched in the event there is no network connectivity?
- PSAP procedure for activation of your COOP plan.
- Include UPS run time.
- Include any MOUs or ILAs or Mutual Aid Agreements

- Include your deactivation plan
- How will staff relocate to the Backup?
- How will you notify your partner PSAP that you are no longer able to take 911 calls?
- List all costs associated with your Backup plan including annual maintenance.
- Testing and Use of a Backup Plan should be included in the form and the procedure.

Comprehensive Emergency Management Plan (CEMP)

Brian Short, ENP, RPL, CEM PSAP Assessment Coordinator NC 911 Board







<u>A Comprehensive Emergency Management Plan</u> (CEMP) establishes a comprehensive framework of policy and guidance for circumstances that may adversely impact the communications center personnel from receiving, processing, dispatching, and monitoring emergency calls for assistance.

Typically, these plans cover procedures and emergency actions to be taken in response to fire and smoke, bomb threats, hazardous materials incidents, earthquakes, floods, and medical emergencies.

*Note: This list is suggestive of the types of emergencies considered; it is not all-inclusive.* 



TECHNOLOGY

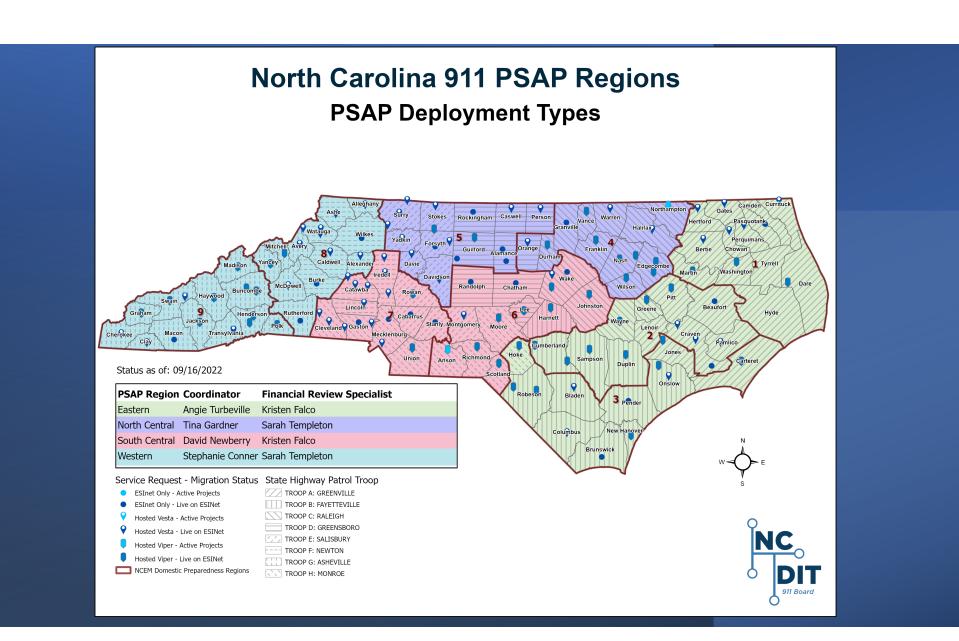
FIREWALL



The <u>CEMP</u> is considered to be a companion document for your Backup PSAP plan as the two-work hand-in glove.

This document includes best practices, guidelines, and procedures on:

- Staffing
- IT Security
- Redundant Systems
- Situations requiring evacuation
- Evacuation Procedures
- Return to Normal Operations







Z-axis and Indoor GIS for 9-1-1 Location Technology NCDIT & NORTH CAROLINA DEPARTMENT OF INFORMATION TECHNOLOGY

August 24, 2023 NCDIT – PSAP Managers' Meeting



*Dispatch in the '70s and '80s* 









## Telecommunicators Today

## **Key Points:**

Technology will continue to evolve at a rapid pace

Call taking has become more complex and time consuming, and the data needs to support efficient decision making

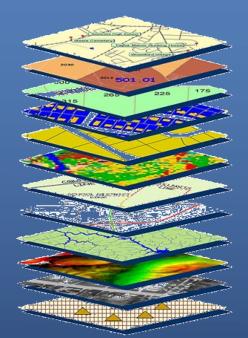
Applications will converge

A GIS-based common operating platform is only going to become more crucial

## The Role of GIS Data – Then & Now



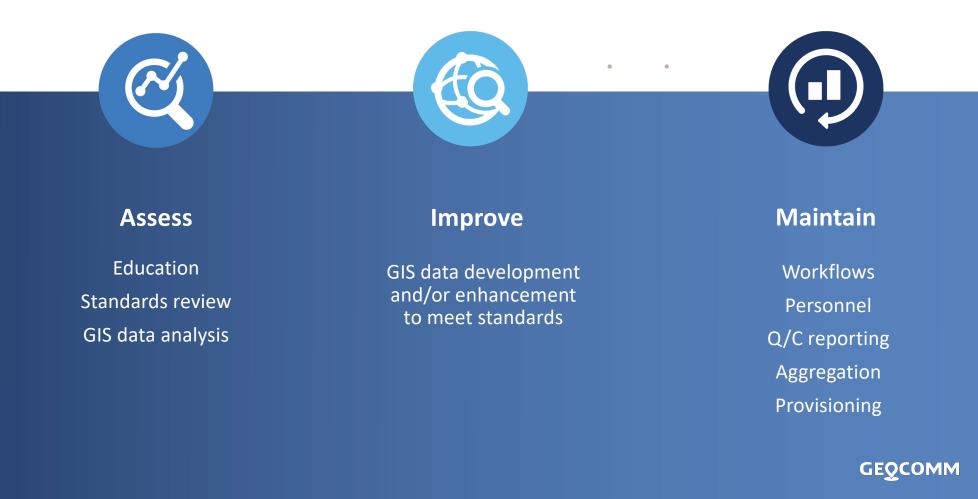
Mapping Emergency Locations





NG9-1-1 Call Routing & Location Validation

## **The Proven Process**

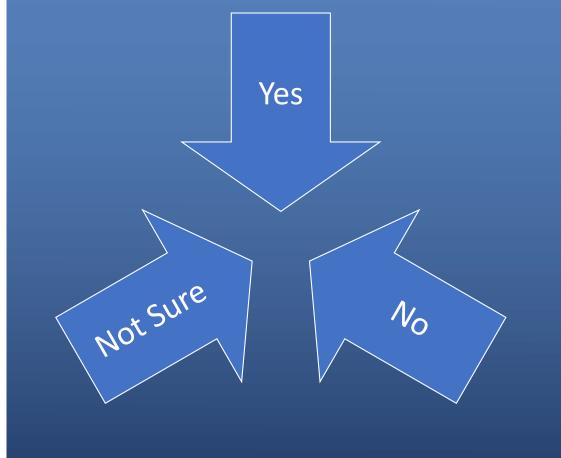




## **Recent Developments:**

In May & June of 2022 the top three U.S. wireless carriers certified that they meet or exceed FCC requirements to provide z-axis location information within three meters above or below the handset for 80% of wireless E9-1-1 calls made from z-axis capable devices in each of the top 25 cellular market areas.

## Are you receiving Z axis data at your PSAP?



Enter location va	lues from ALI scr	reen:
Latitude:	32.7030386	
Longitude:	-117.1589717	
Altitude (HAE):	50	
	Translate	
ABOUT THIS SERVICE	TERMS OF SERVICE	GEOCOMM.COM



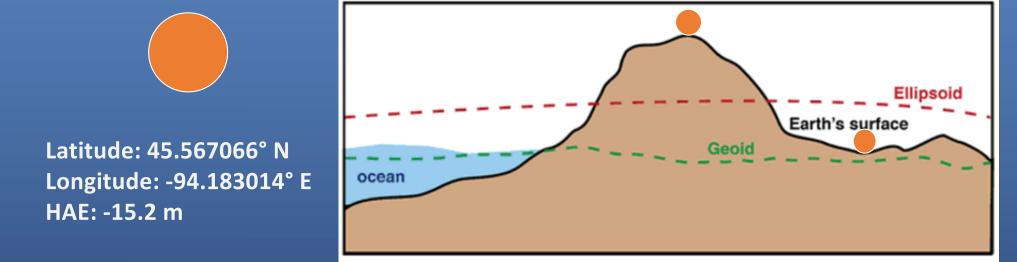
## **Vertical Location Service (VLS)**

Translation of latitude, longitude, and <u>height above ellipsoid</u> into dispatchable location including estimated street address, building, and floor level

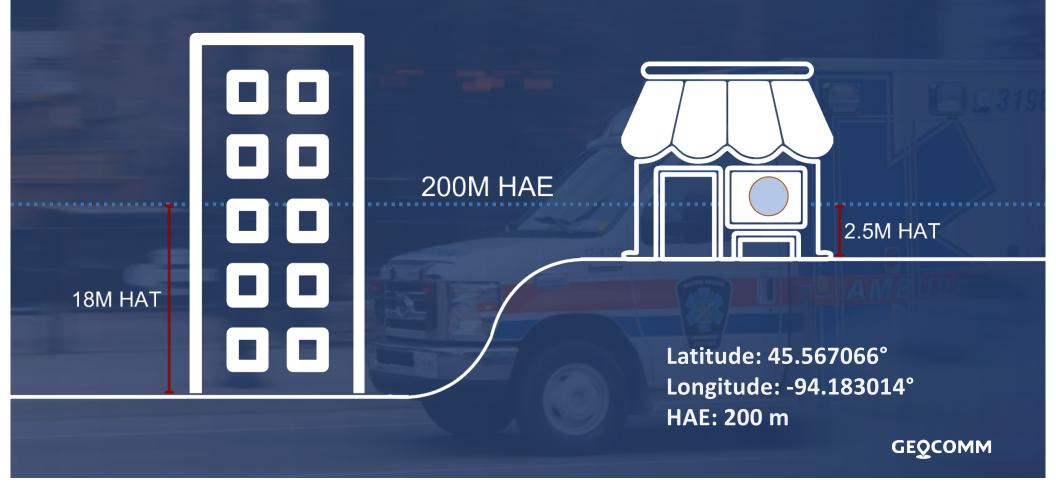
Enter location va	lues from ALI sci	reen:
Latitude:	32.7030386	
Longitude:	-117.1589717	
Altitude (HAE):	50	
	Translate	
ABOUT THIS SERVICE	TERMS OF SERVICE	GEOCOMM.COM

#### Building detected at this location: 4101 WEST DIVISION ↔ 82 feet ⑦ Address: STREET ST CLOUD MN 1FI Building: CROSSROADS CENTER MALL Height: 4.9 feet above ground 1 20 feet ⑦ ? Floor: Caller is estimated to be on Floor 1 (Likely range: Floor LL 1 - 2) Accuracy: This is a low accuracy estimate ? Feet per Story: Update 14 View in 3D (beta) View Indoor Map Provide Feedback

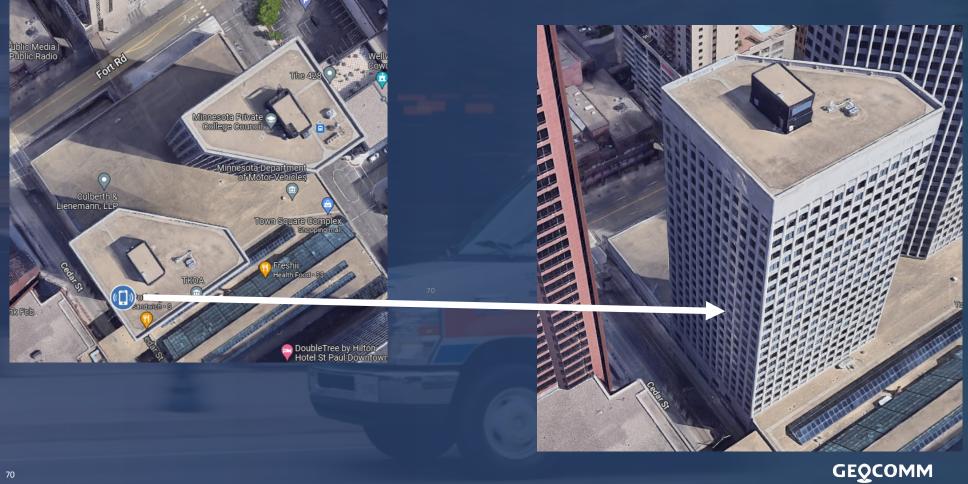
## Height Above Elipsoid (HAE): Z Axis



### Translating HAE into a Caller Location

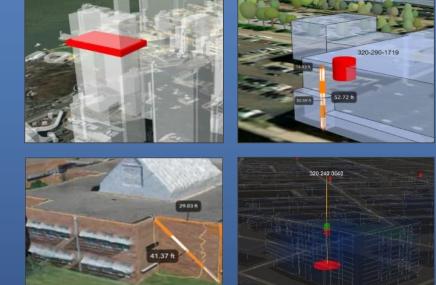


## Why is a dispatchable location important- 3D Example



## **3D 9-1-1 Caller Positioning**





## **Recent Developments:**

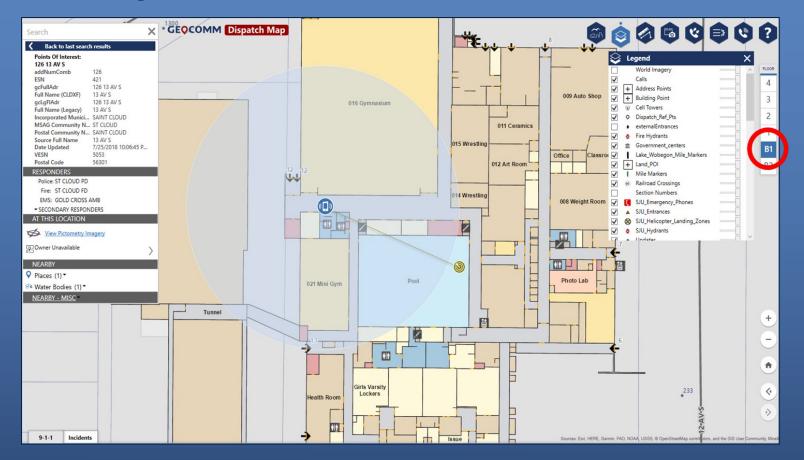
- The average person spends over 80% of their life indoors. The National Human Activity Pattern Survey (NHAPS)
- Today over 80% of all 9-1-1 calls originate from cell phones. 9-1-1 Statistics - National Emergency Number Association (nena.org)



## **The Impact of Indoor Maps**

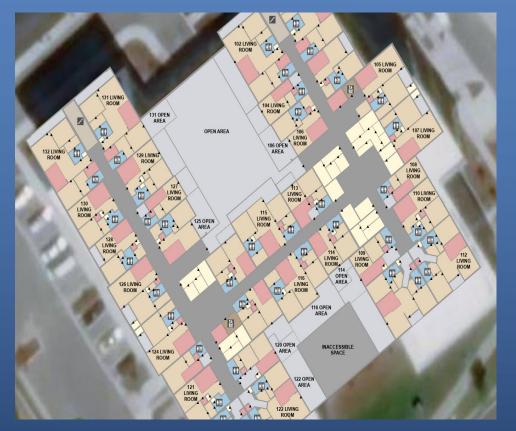


## **Indoor Maps**



## **The Impact of Indoor Maps**





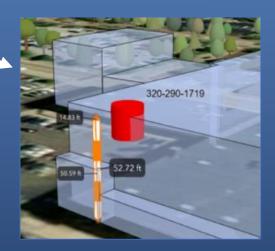
## **Integrated Vertical Location Service**

Integrates with floor aware indoor mapping to show room level information for 9-1-1 callers.

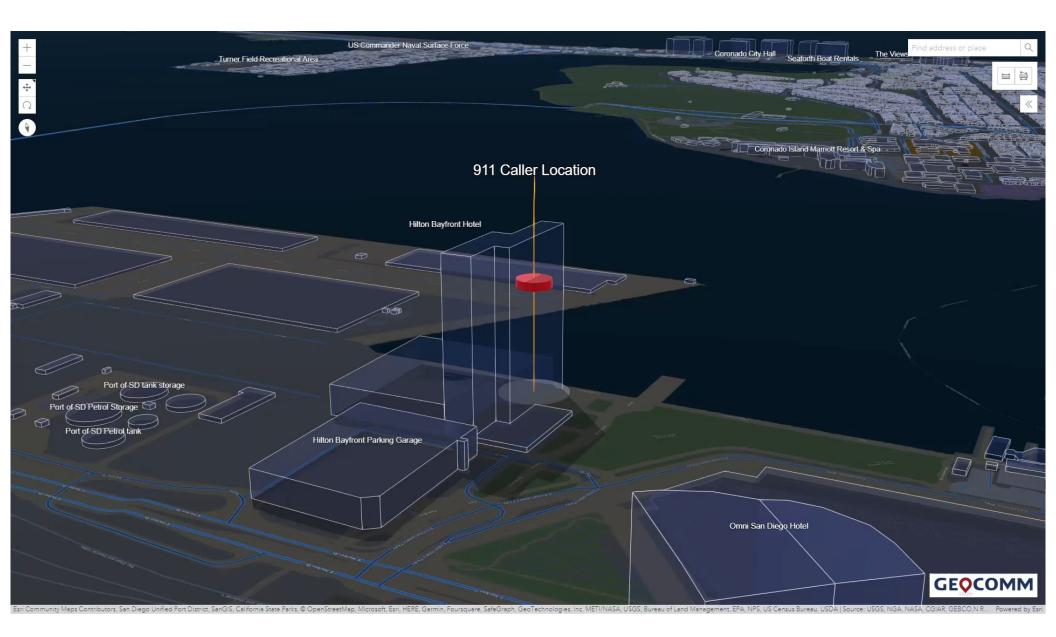




Latitude: 45.567066° N Longitude: -94.183014° E HAE: -15.2 m



601 W Saint Germain ST Floor 2 Room 202 Saint Cloud Minnesota



## **Questions + Discussion**

Contact us Online



#### FOR MORE INFORMATION CONTACT:

#### Susan Nelson

snelson@geo-comm.com 320.281.2176 SOUTHEAST TERRITORY SALES MANAGER

GEOCOMM

## 

## 2023 NORTH CAROLINA NENA WELLNESS RETREAT





# FINDING A POTENTIAL VENUE



# FINDING A POTENTIAL VENUE





# FINDING A POTENTIAL VENUE







## FINDING A POTENTIAL VENUE





#### **ADMISSION PROCESS**





# FINANCIAL OVERVIEW: Jamison Sears





TO THE SPONSORS THAT MADE THIS POSSIBLE



## FINANCIAL OVERVIEW: INCOME

• CORPORATE SPONSORS

#### NCNENA 2023 WELLNESS RETREAT RAAFAA Tickets \$10 EACH

**1ST PRIZE:** YETI HAUL **2ND PRIZE:** YETI HOPPER FLIP 18 **3RD PRIZE:** 2 YETI 30 OZ TUMBLERS, YETI 20 OZ TUMBLERS, 2 YETI COLSTERS

#### FOR TICKETS

CONTACT A NCNENA BOARD MEMBER OR TEXT 910-650-9858 OR MESSAGE US ON FACEBOOK AT NORTH CAROLINA NEN



# FINANCIAL OVERVIEW: INCOME

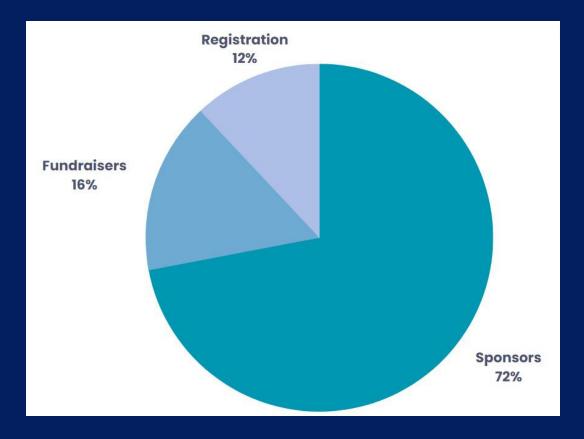
- CORPORATE SPONSORS
- FUNDRAISERS



# FINANCIAL OVERVIEW: INCOME

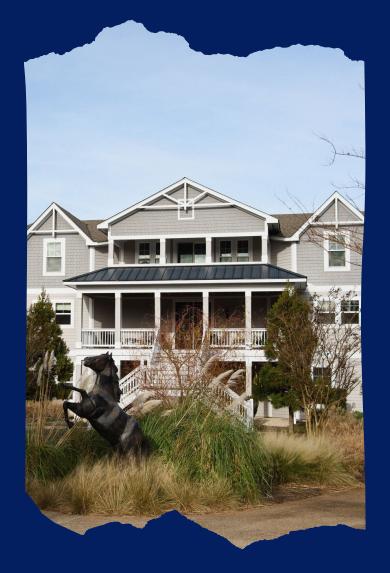
- CORPORATE SPONSORS
- FUNDRAISERS
- **REGISTRATION FEES**

#### FINANCIAL OVERVIEW: INCOME





#### • RETREAT VENUE



RETREAT VENUE
CATERING SERVICES

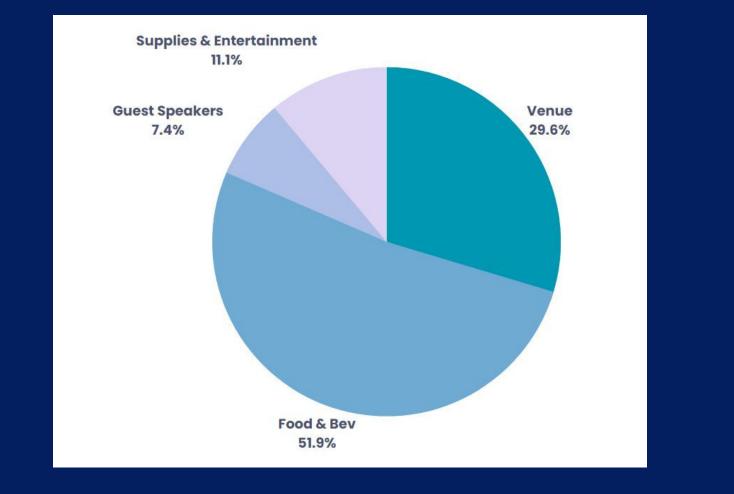


- RETREAT VENUE
- CATERING SERVICES
- SUPPLIES AND SNACKS

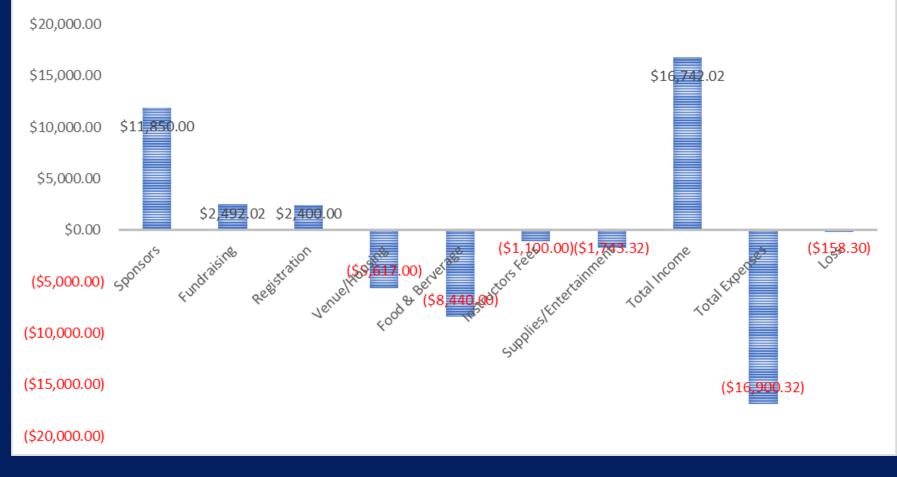


- RETREAT VENUE
- CATERING SERVICES
- SUPPLIES AND SNACKS
- BASKETS AND BLANKETS

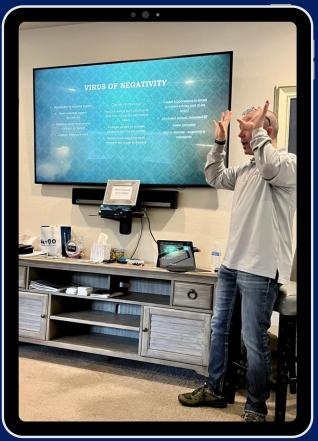




**2023 NC NENA WELLNESS RETREAT** 



#### EDUCATION Monica Howard







# <image>





0 <sup>1</sup> .25.23		
0800-0900	BREAKFAST AND MINGLE	
0900-1030	CUMULATIVE STRESS AND RESILIENCE	
1030-1100	BREAK	
1100-1230	NUTRITION WITH NAT PACKS	
1230-1400	LUNCH BREAK	
1400-1530	IMPACT OF PROPER SLEEP	
1530-1630	DEVELOPING SELF CARE ACTION PLAN	
1630-1700	BREAK	
1700-1800	NENA ROUNDTABLE	
1800-1900	DINNER	
1900-2200	BONFIRE, SMORES AND CORNHOLE	

WEDNESDA

01.22.23

SUNDAY

1700-1800	ATTENDEE CHECK-IN
1830-1900	WELCOME & ORIENTATION
1900-2000	DINNER
2000-2200	IF THEY'RE THE PROBLEM WHY DO I HAVE TO CHANGE?

#### MONDAY 01.23.23

TUESDAY

01.24.23

0800-0900

0900-1030

1030-1100

1100-1230

1230-1400

1400-1600

1600-1800

1800-1900

1900-2200

BREAKFAST AND MINGLE

**INTRO TO CISM** 

BREAK

PERSONAL TRAUMAS

AND THEIR IMPACT

LUNCH BREAK

HOW TO HANDLE SUICIDIAL CALLERS AND

COLLEAGUES

BEACH WALK AND TALK

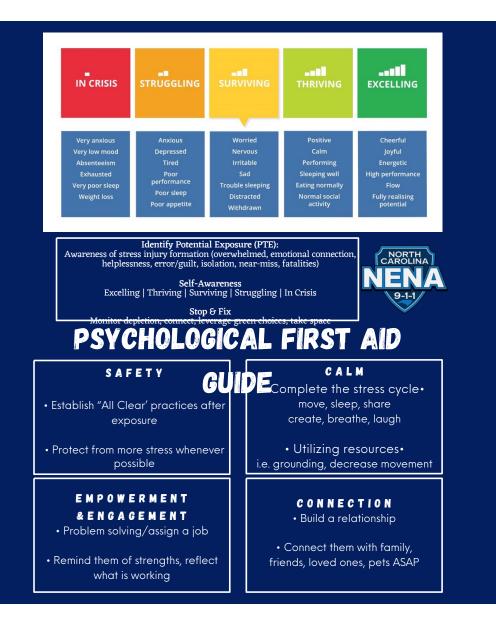
DINNER

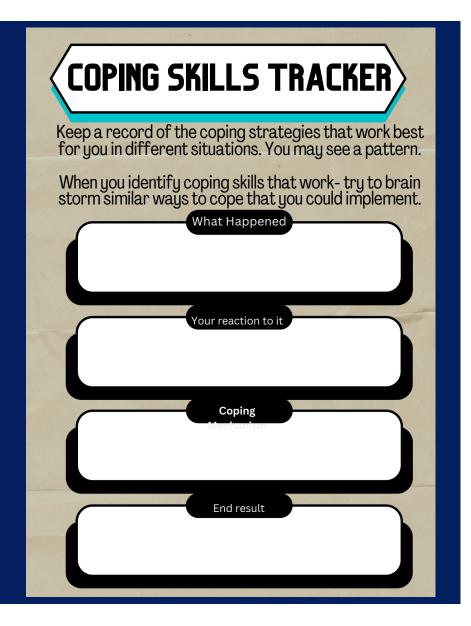
FAMILY FEUD

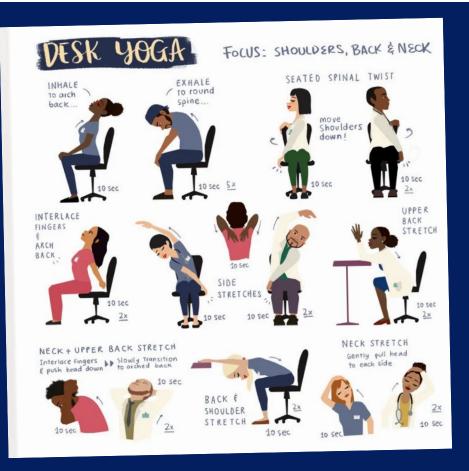
0800-0900	BREAKFAST AND MINGLE
0900-1030	PEER SUPPORT 101: BREAKING THE STIGMA
1030-1100	BREAK
1100-1230	DIFFICULT CONVERSATIONS
1230-1400	LUNCH BREAK
1400-1530	RESPONDER SUPPORT SERVICES & VETTING CLINICIANS
1530-1600	BREAK
1600-1730	SAVING LIVES ON BOTH SIDES OF THE CALL
1730-1800	PRE-DINNER BREAK
1800-1900	DINNER
1900-2200	TRIVIA NIGHT



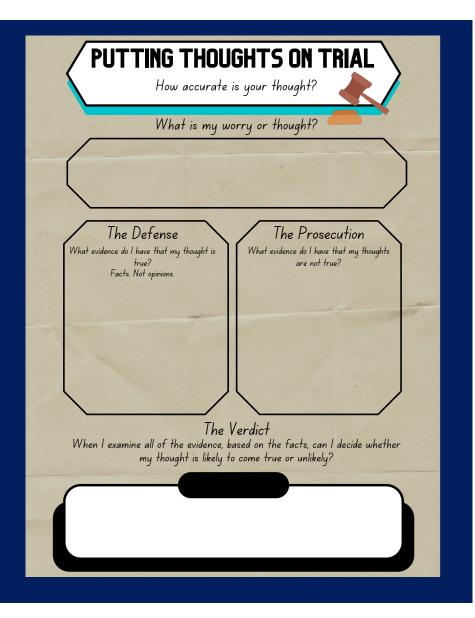
Self Care Action Plan
My Signs of Burnout People I can reach out to
Positive Affirmation







### **DESK EXERCISES**





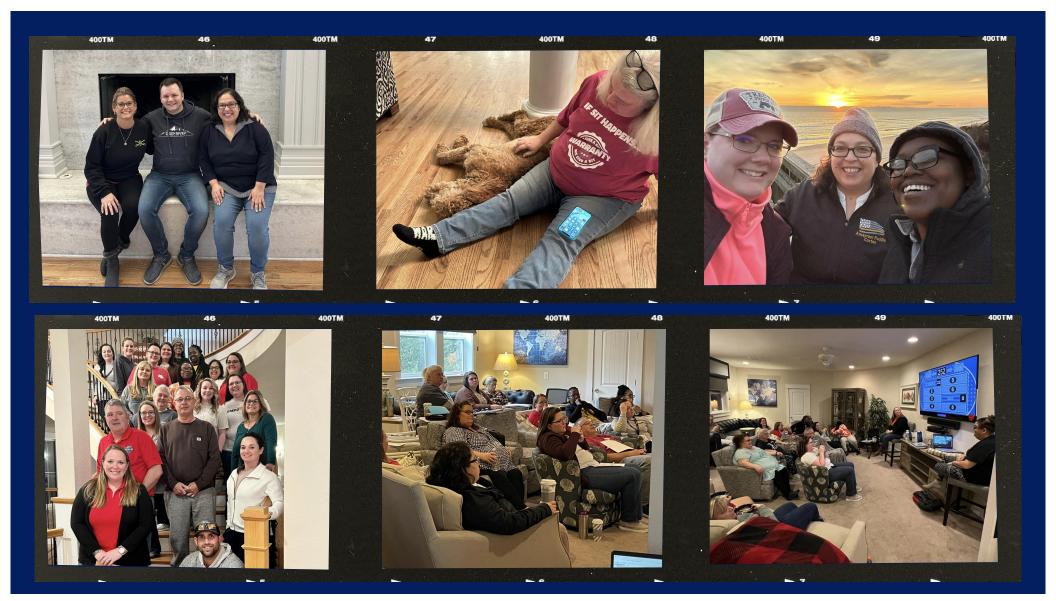
# **BREAKING THE ICE**



Everything we dreamed of...

and so much more.

#### AFTER THE RETREAT Ashley Warner







Each of you shared your stories and opened your hearts to eachothersomething that was far from easy. You each comforted others, you learned from others and you taught others. On Sunday, January 22nd 2023 I met 15 strangers and 4 days later I walked away with 15 new forever friends. To my fellow board members- especially my Wellness Retreat Committee folks- thank you for letting me chase this wild dream. To all the speakersthank you for coming & being part of something life changing and sharing your stories and knowledge.

But to the attendees- THANK YOU for trusting us by attending our first retreat. Thank you for coming in with open minds and open hearts. I know that there were not really many expectations for this retreat but you all still came anyways. You all changed my life in major ways and you are the reason this retreat was a success.

#### ASHLEY WARNER

They say everyone you cross paths with in your life serves a purpose. Each person I met at the first ever NCNENA Wellness retreat was placed in my life to transform my **grief into grace, traumas into triumphs** and **strangers into friends.** 

As a dispatcher it's hard to fall into a pattern of taking care of everyone else before ourselves but we can't be the best spouse, friend, sibling, parent, and co-worker if we keep pouring from an empty pitcher.

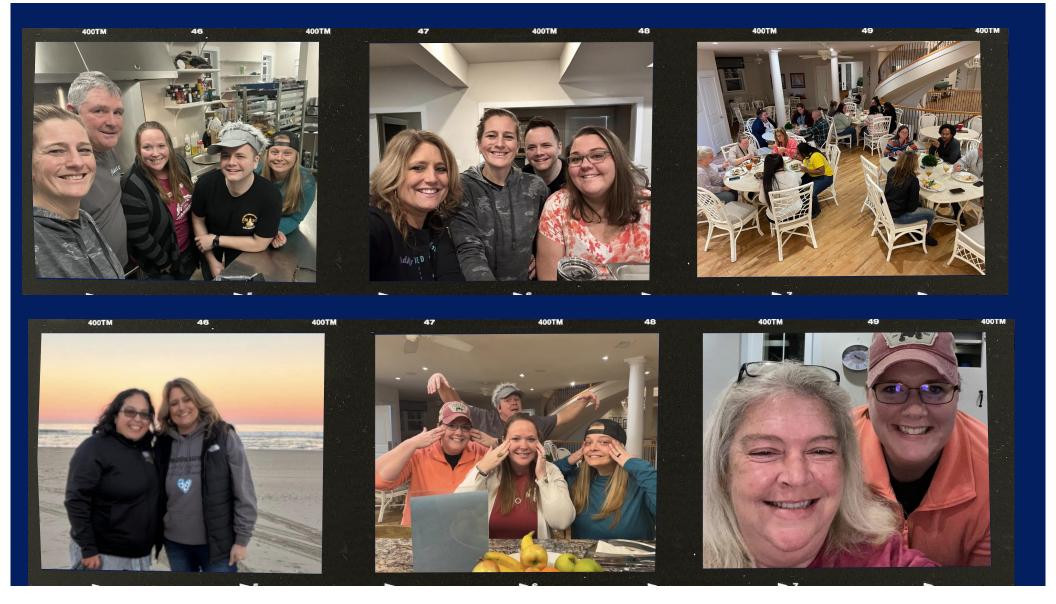


WE MUST NOT WISH FOR THE DISAPPEARANCE OF OUR TROUBLES BUT FOR THE GRACE TO TRANSFORM THEM." -SIMONE WEIL



I still become overwhelmed with emotion when thinking back on the retreat. The love and support from those who truly relate to you is a feeling like no other. It really takes a strong, trustworthy group to basically tackle multiple people "trauma dumping" for almost an entire week. That just goes to show how much everyone cares. I also really appreciate how this was a professional environment, but everyone was still able to be themselves. I really appreciate that the staff would take time to just talk, TRULY listen or answer literally any questions we would come to them with. The help definitely extended beyond class sessions. I'm a very introverted person, and I seen myself up open up significantly within 4 days. I actually had a therapy session with my regular therapist the Friday following the retreat. After speaking with her, she looked at me dead in my face with tears in her eyes and said "I don't know what in the world this retreat has done to you, but I am so incredibly proud of you and I am so thankful there are people who care for you like I do." I cannot think of a single "coach" that didn't take the time to speak to me when I went to them whether it was for advice or just to vent. I will forever be so thankful I received this opportunity.







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# **CONTACT US**

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#### linktr.ee/NCNENA