

**EXHIBIT 1**  
**NYSTEC Presentation to Legislature 12/4724**



# Ulster County Radio System



**Modernization and Data Solutions**

Prepared For: Ulster County Legislature  
December 4, 2024

# Agenda



- ▷ Project Overview
- ▷ Project Challenges
- ▷ Radio System Coverage
- ▷ Motorola Proposed Radio Infrastructure
- ▷ Motorola Proposed Equipment for GOC
- ▷ Motorola Proposed Equipment for MCP
- ▷ Questions

## Project Overview

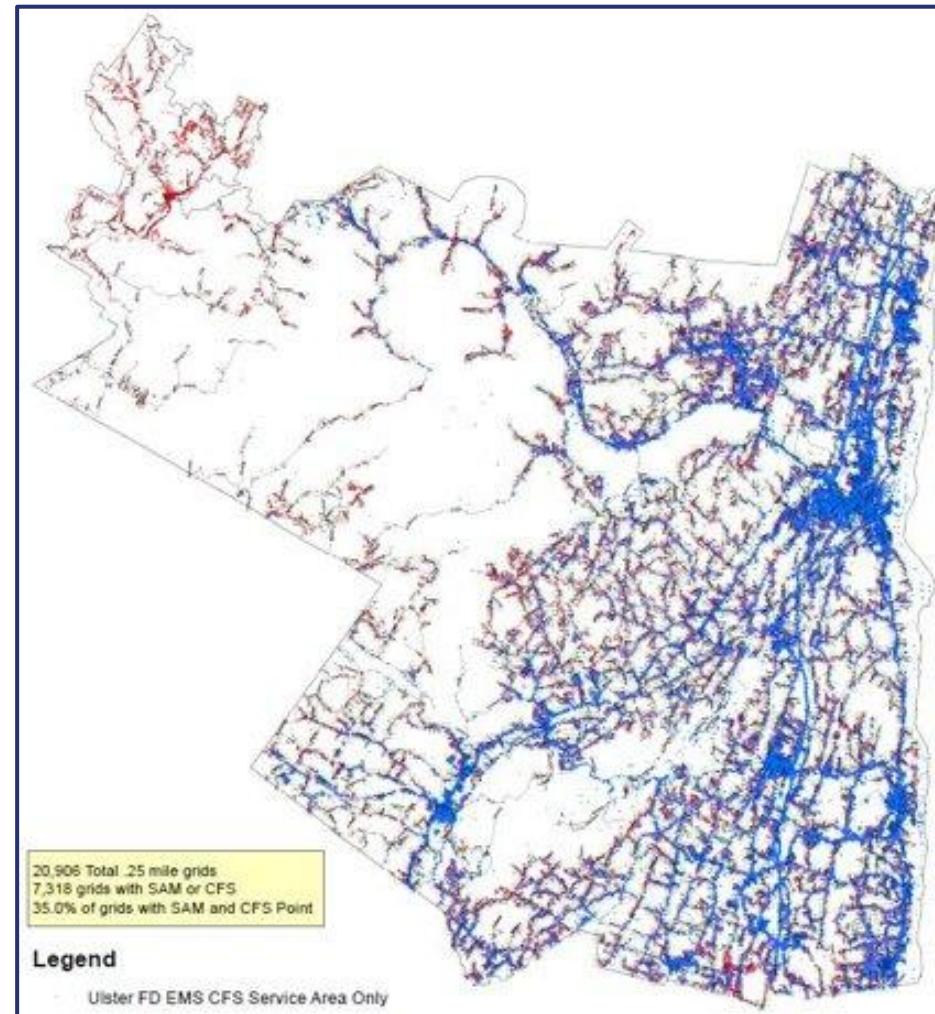
- **Current Radio System** consists of 5 sites for Fire/EMS and 3 sites for Law Enforcement and 7 sites for paging
- Contracted with Motorola in 2019 for 10 sites for Fire/EMS and 4 sites for Law Enforcement, radio consoles and 911 phone system (Vesta)
- Proposed design with Motorola increases Fire/EMS sites by 6 sites, Law Enforcement by 12 sites and paging by 8 sites.
  - Additionally includes National Interoperability infrastructure to satisfy grant requirements.
  - Upgrade to new radio console and latest version of Vesta

## Project Challenges

- ▶ FCC Licensing is complex
- ▶ Tower sites were difficult to lock down
- ▶ Radio system design is problematic due to terrain
- ▶ Determining coverage requirements

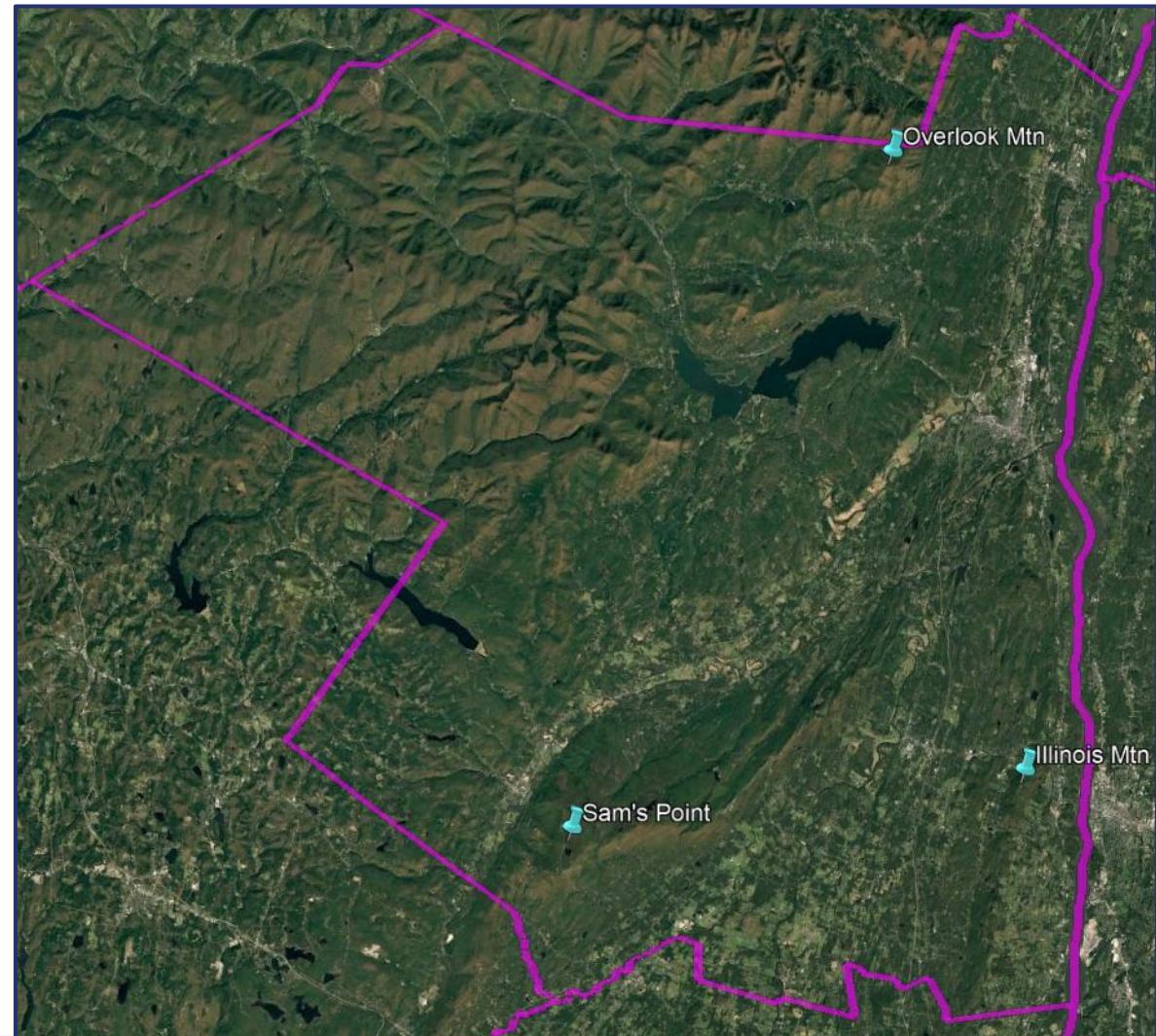
# Project Challenges

## Calls for Service Data



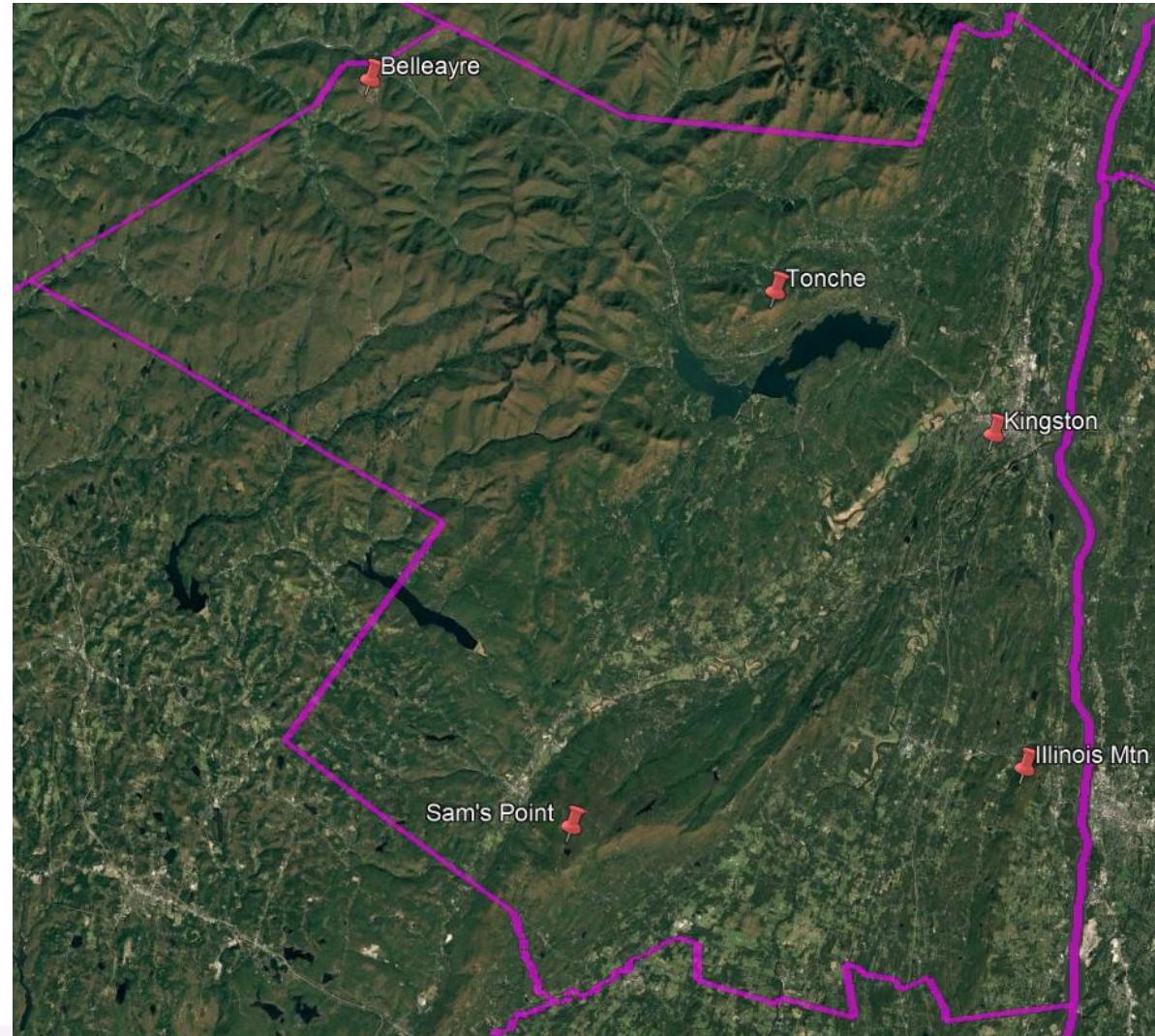
# Project Challenges

## Existing Law Enforcement Sites



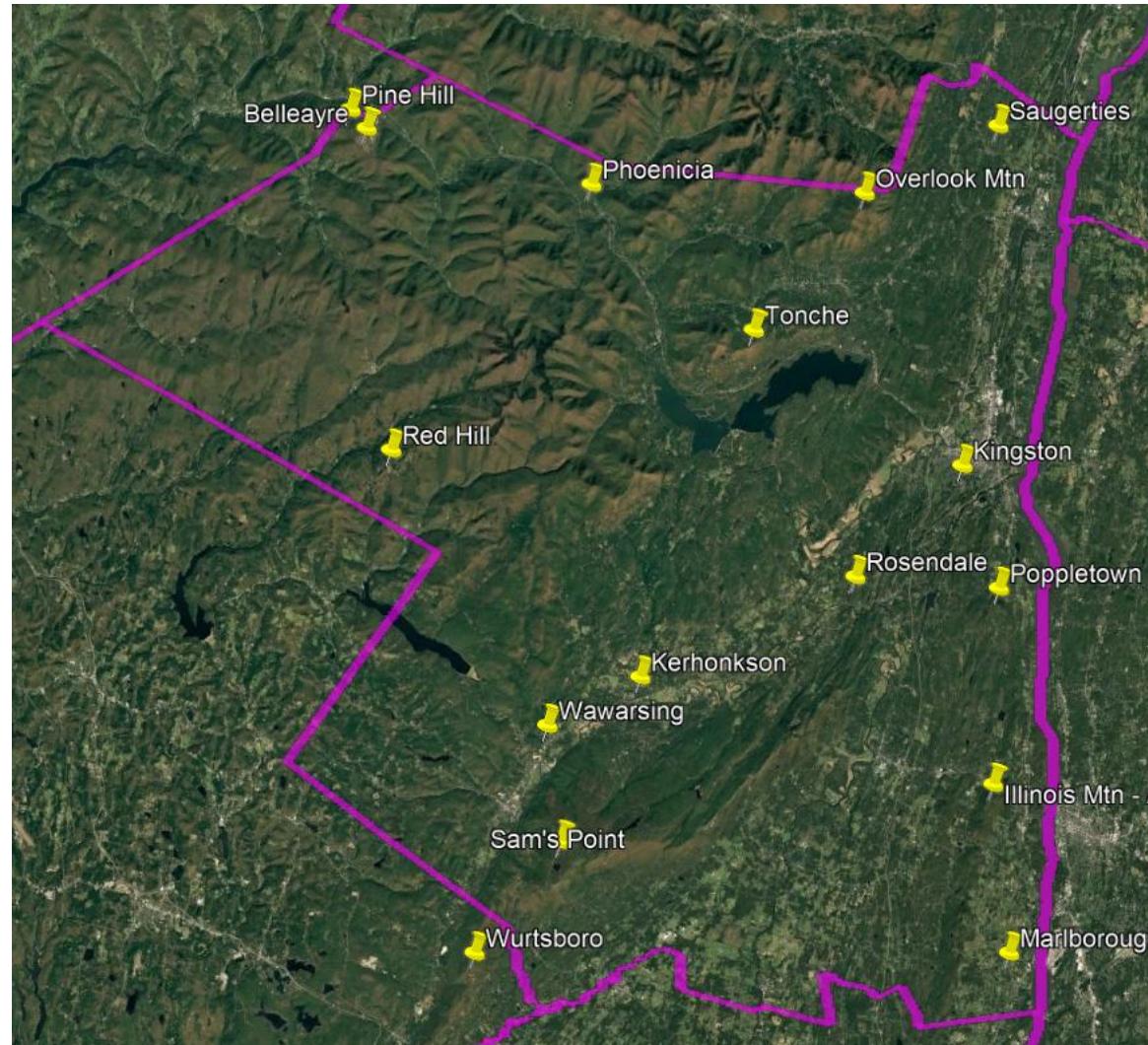
# Project Challenges

## Existing Fire/ EMS Sites



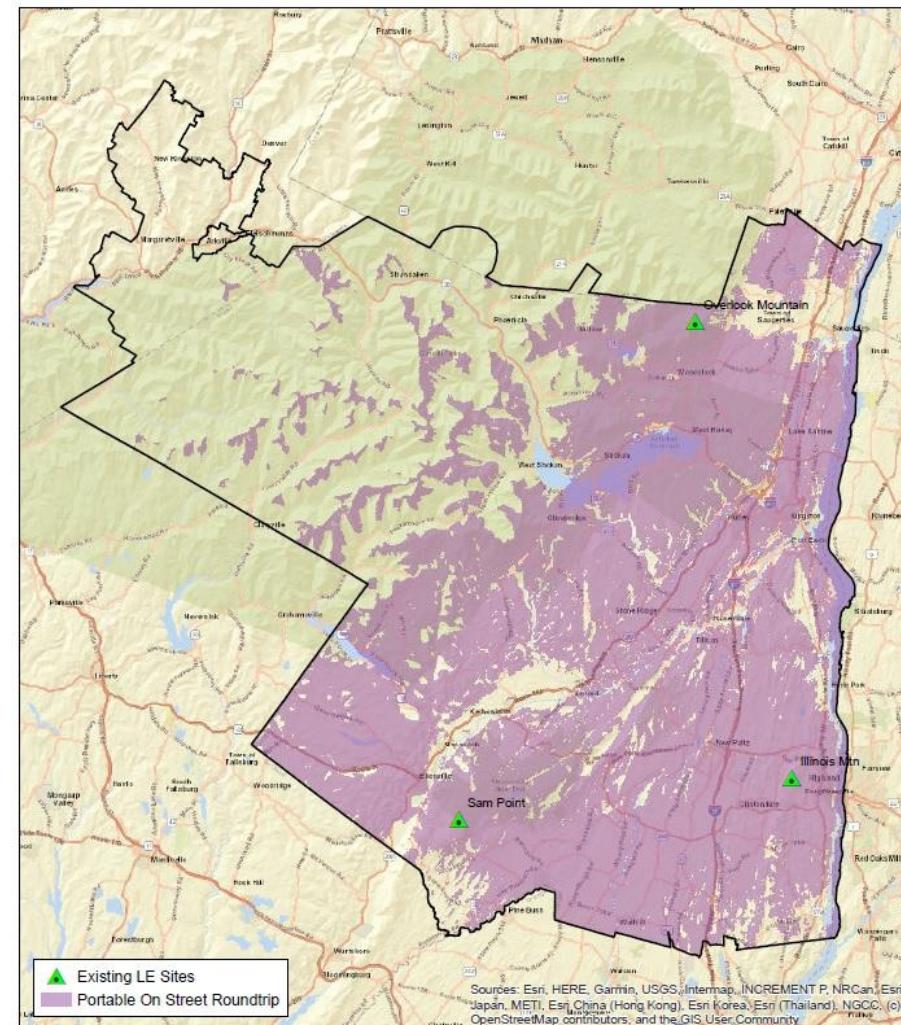
# System Coverage

## Future System Sites

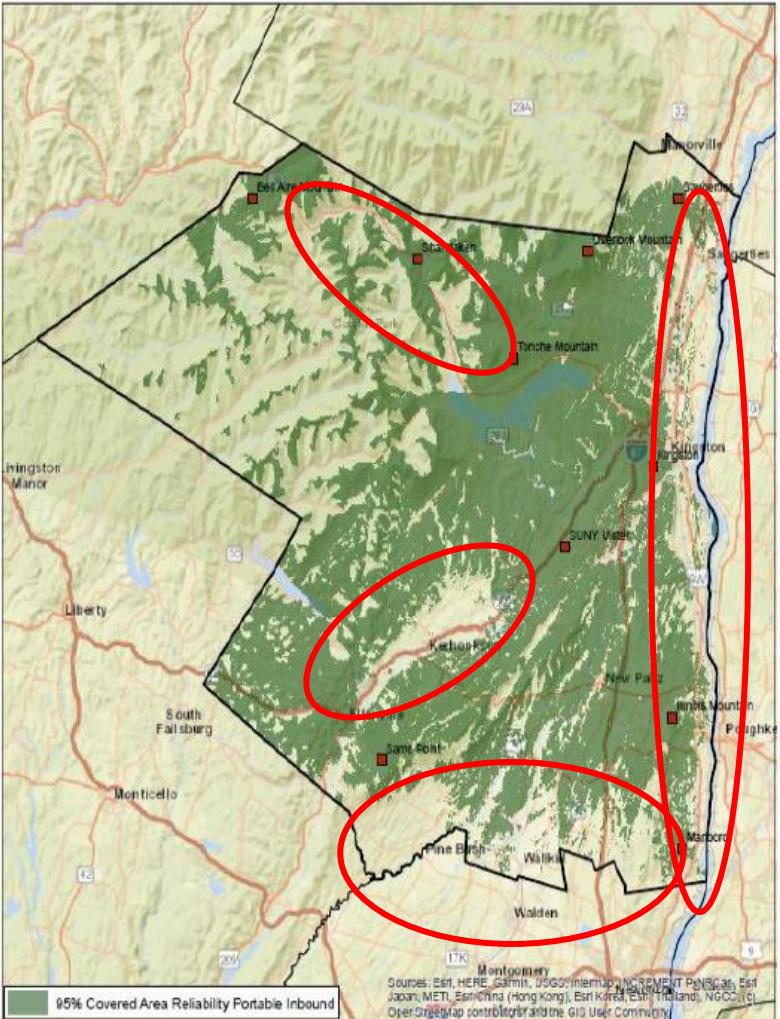


# System Coverage

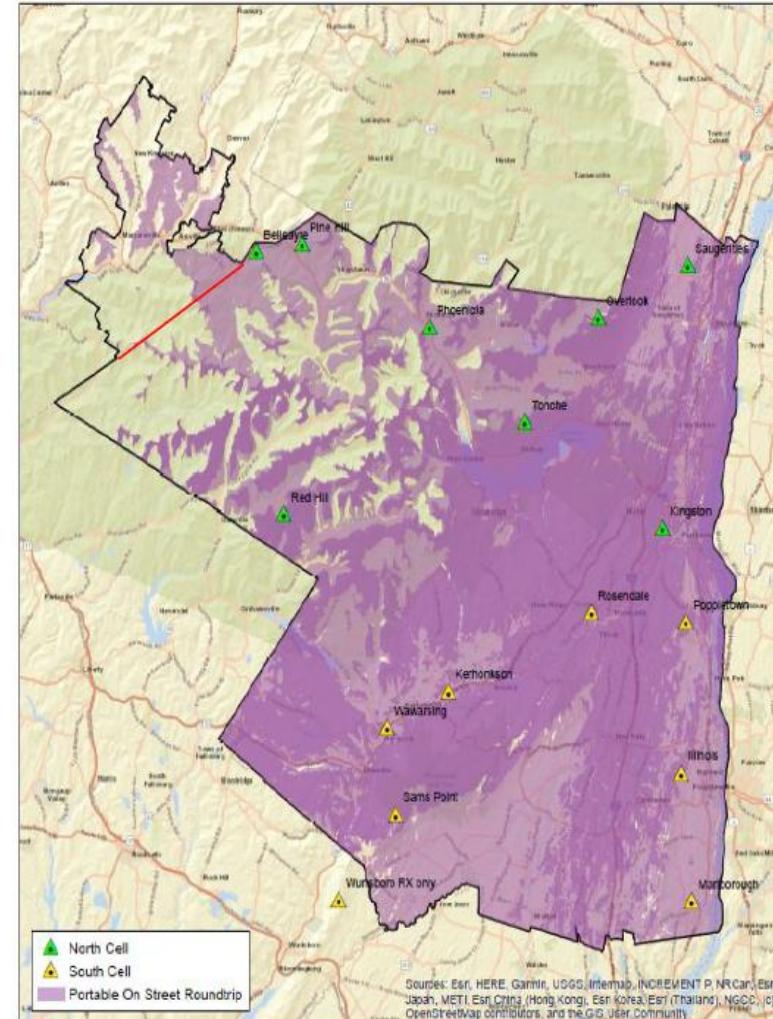
## Existing Law Enforcement Portable Coverage



# System Coverage – LE Portable

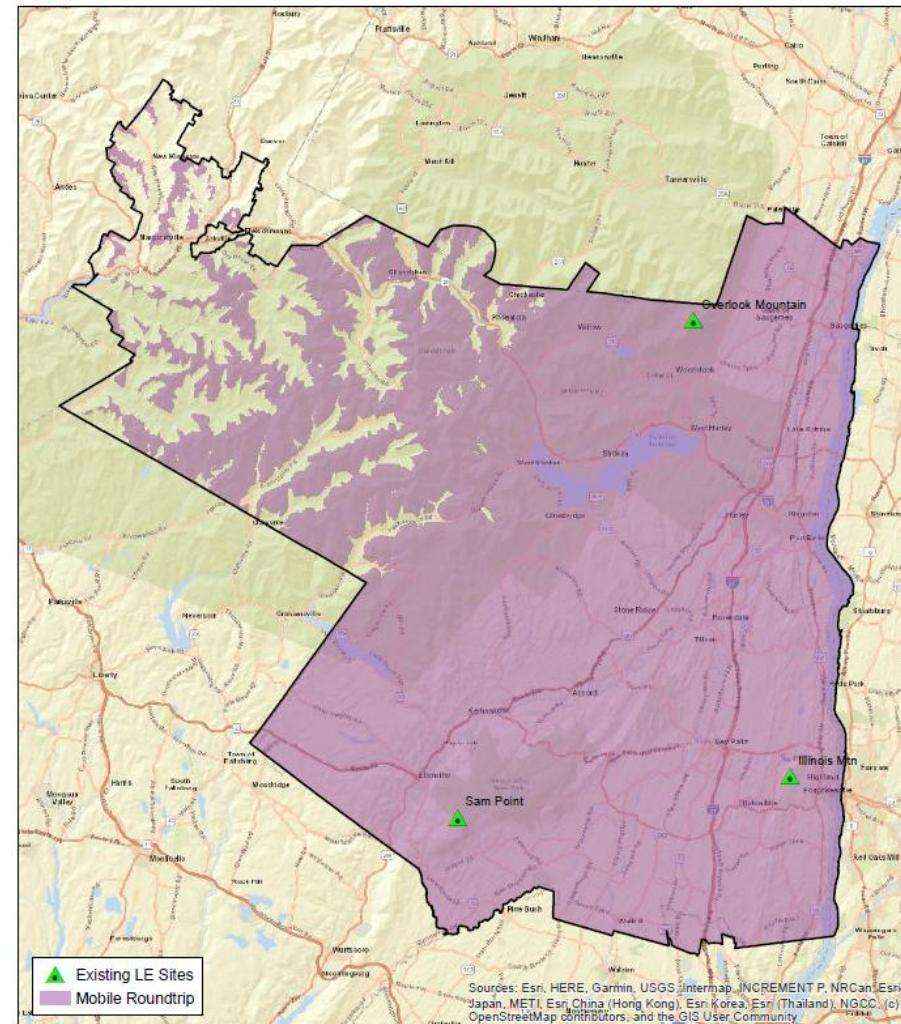


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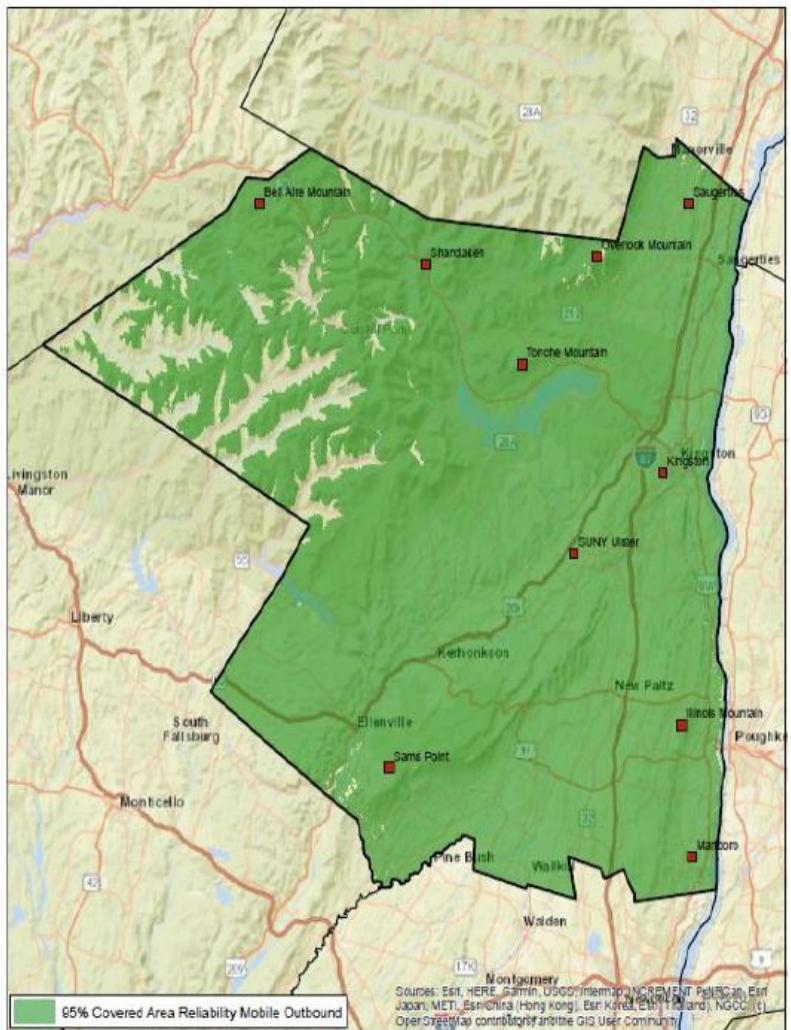


Proposed

## Existing Law Enforcement Mobile Coverage

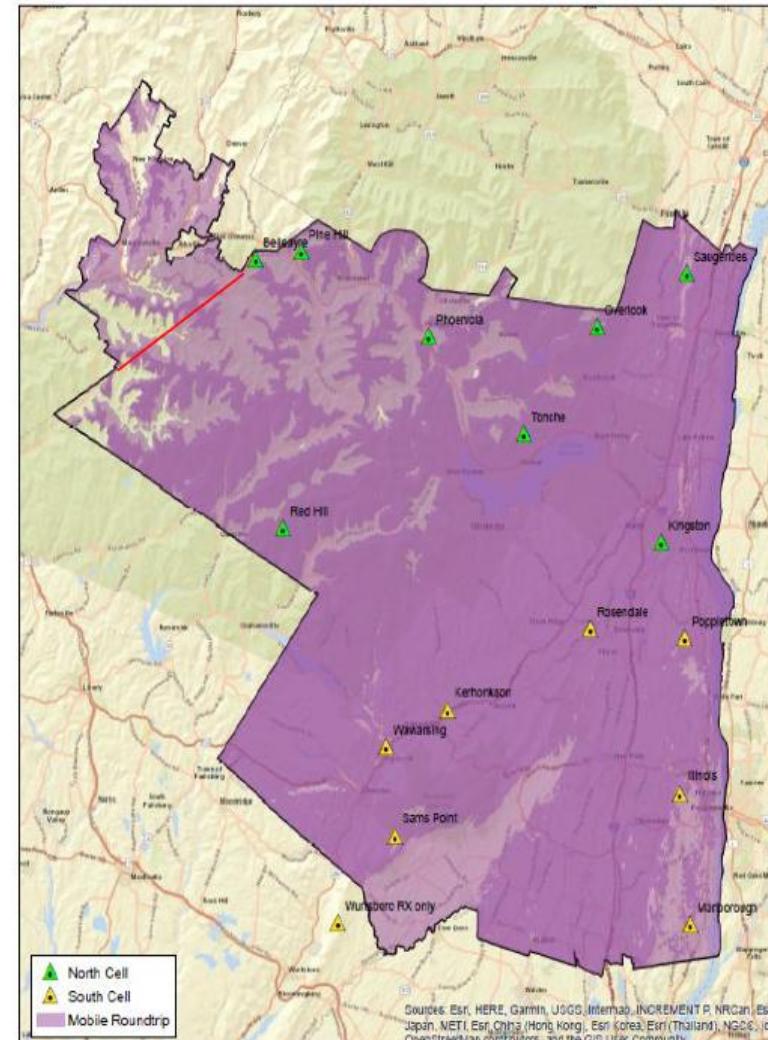


# System Coverage – LE Mobile



## Contracted

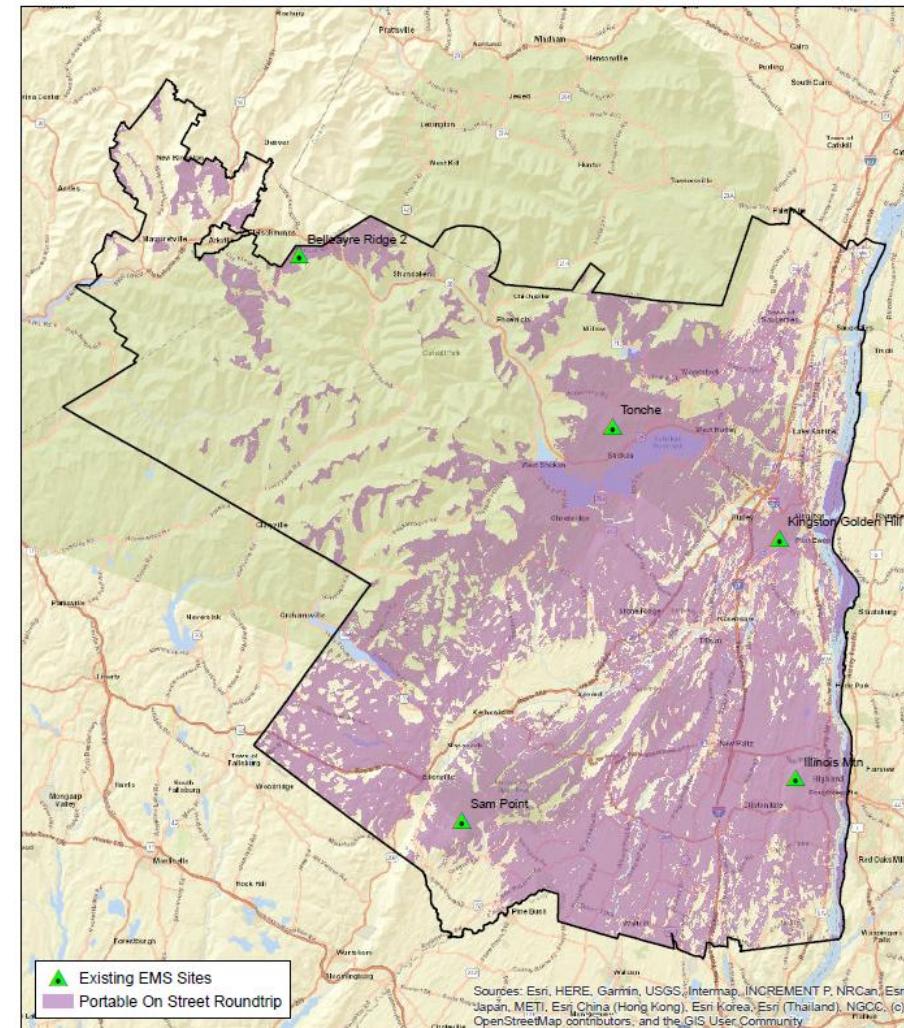
## Ulster County Radio System



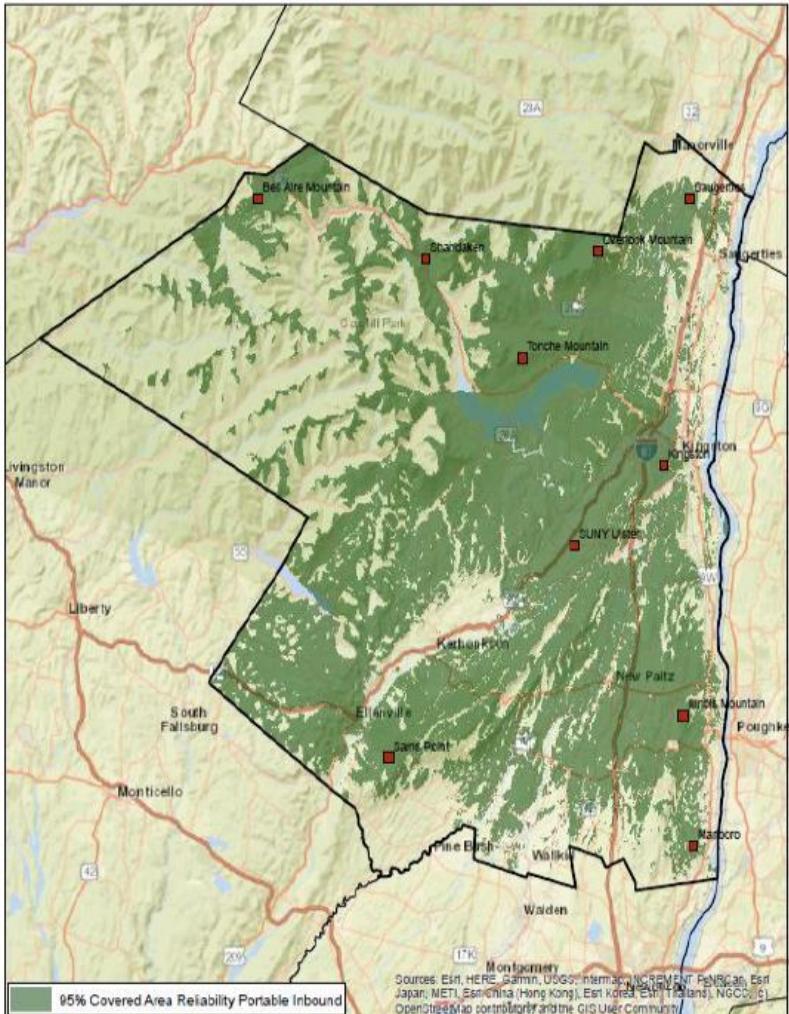
## Proposed

# System Coverage

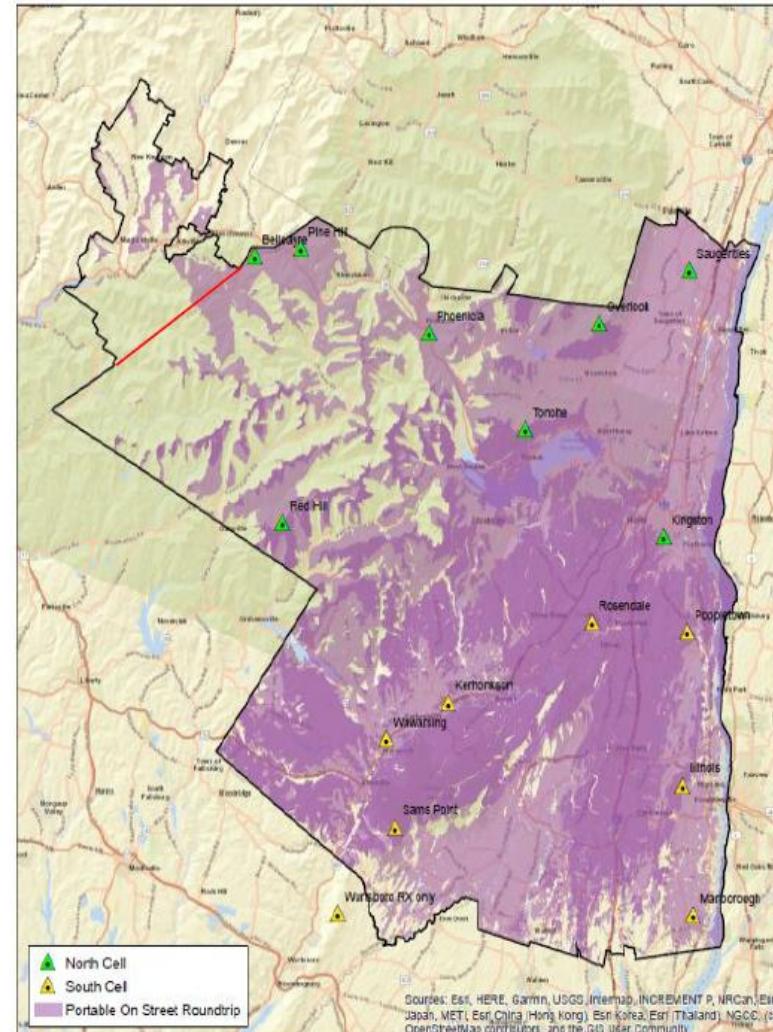
## Existing Fire / EMS Portable Coverage



# System Coverage – Fire/EMS Portable



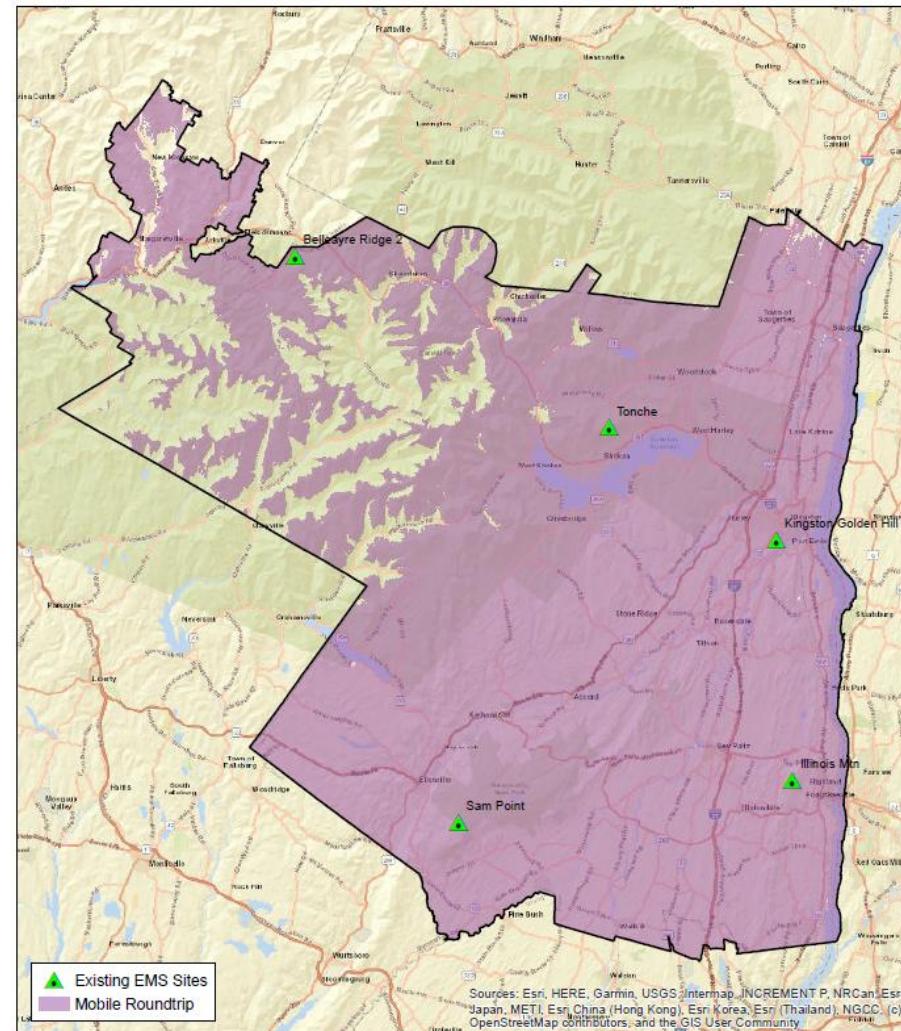
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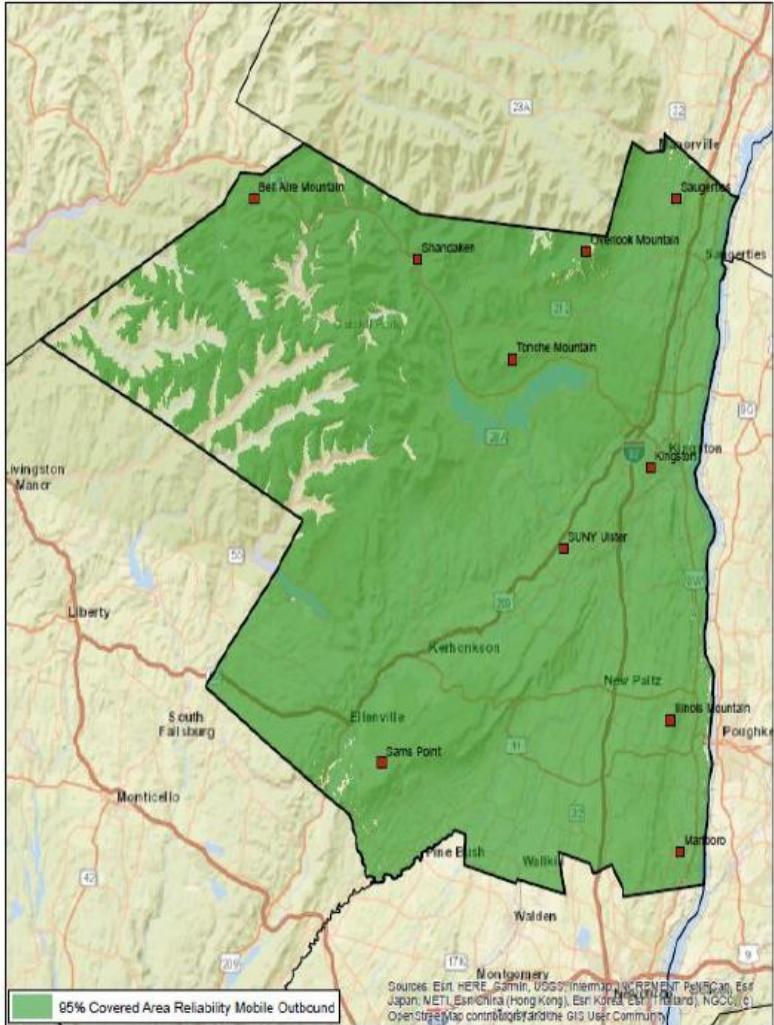
Proposed

# System Coverage

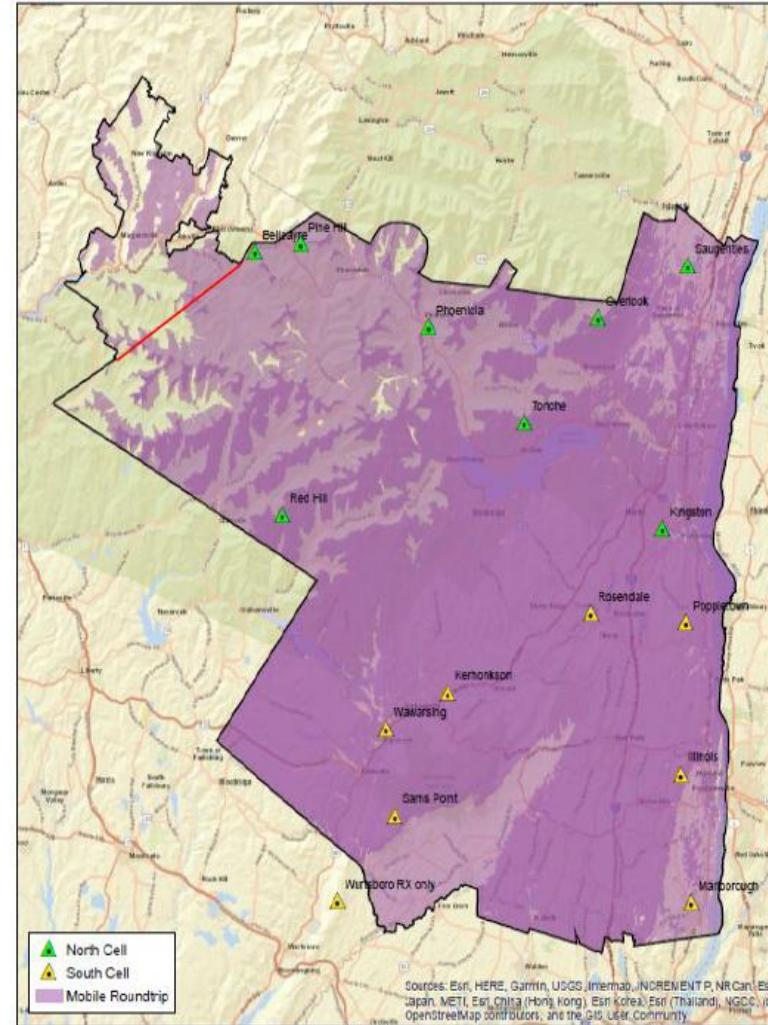
## Existing Fire / EMS Mobile Coverage



# System Coverage – Fire/EMS Mobile



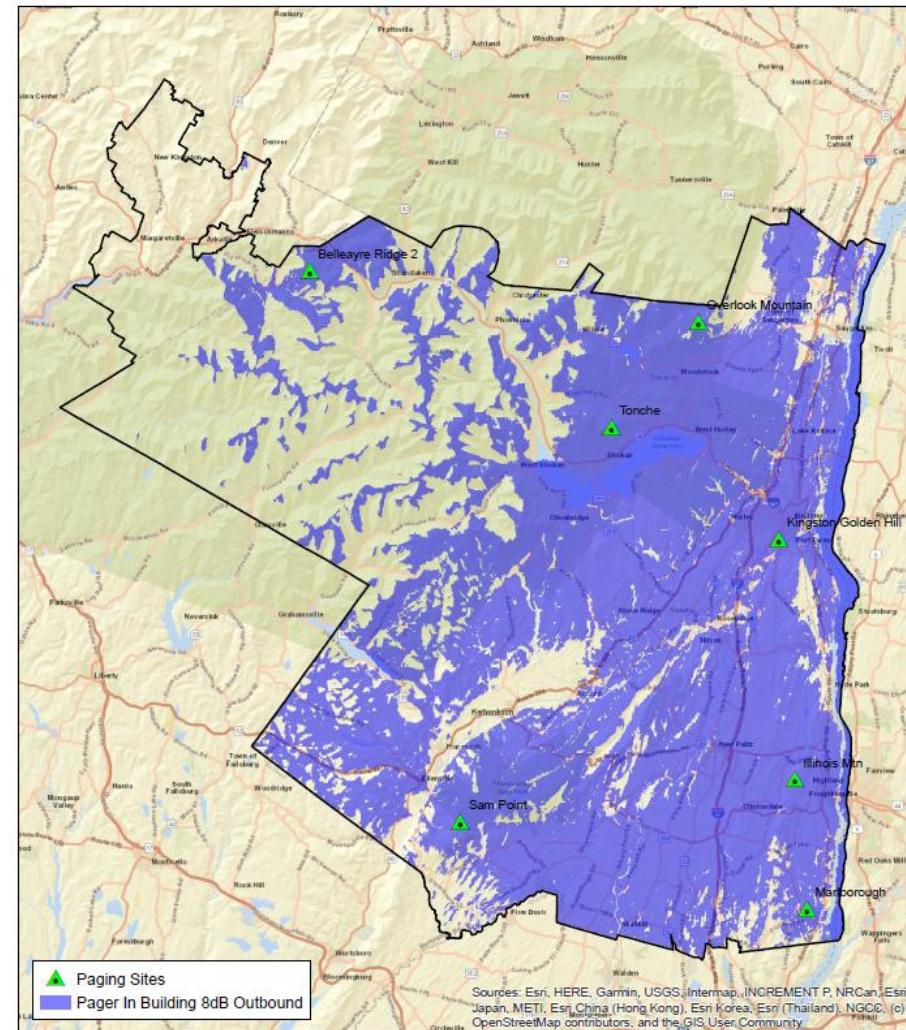
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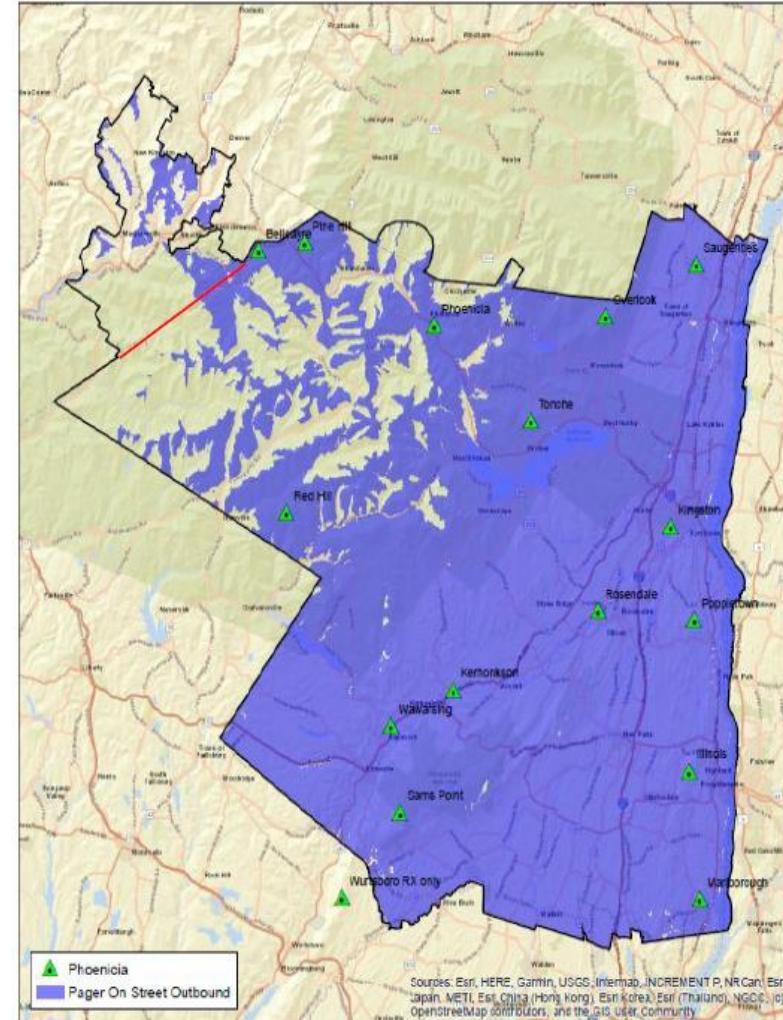
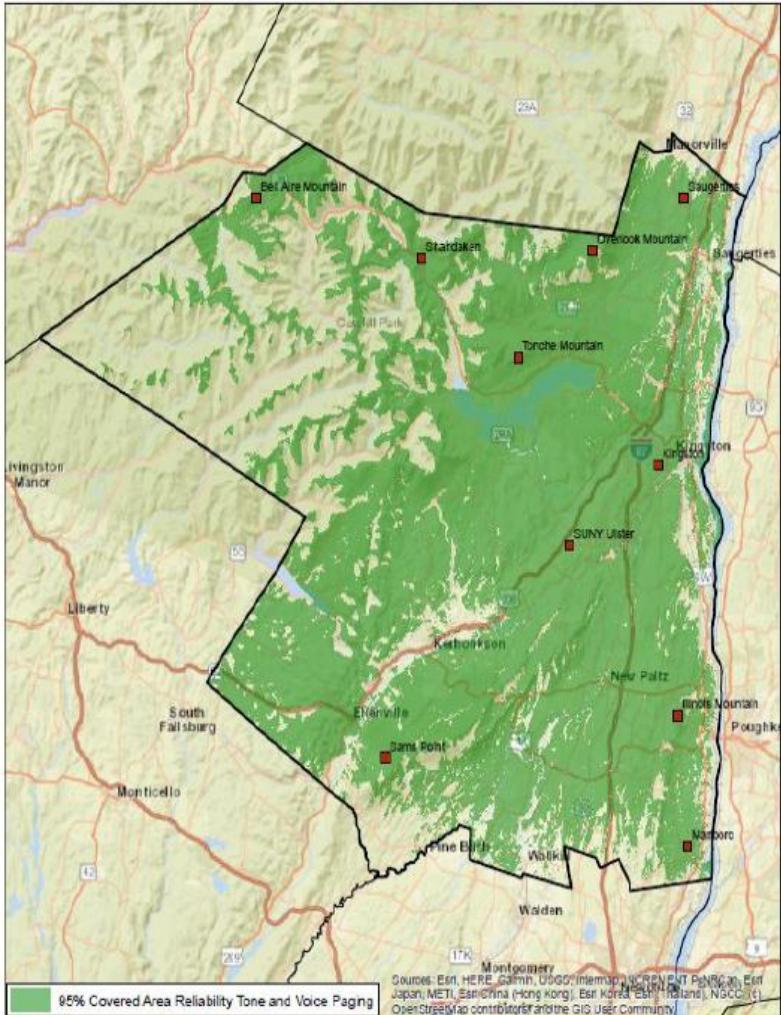
Proposed

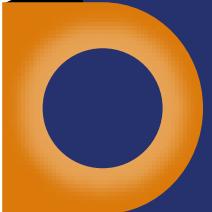
# System Coverage

## Existing Paging Coverage



# System Coverage – Paging





**Motorola Equipment**  
**Chris Meyer**  
Regional Sales Manager

# Proposed Radio Infrastructure

## ► Contracted in 2019

- 10 Sites Analog/Digital Conventional Radio system
  - 6 Existing Sites
  - 4 New Sites
- Logging Recorder
- 500 Mobile Radios
- 1,500 Portable Radios

## ► Proposed Upgrade

- 16 Sites Supporting Law Enforcement, Fire/EMS and Paging
  - 10 Existing Sites
  - 6 New Sites
- Includes all upgrade hardware and software to upgrade 2019 contracted sites to the latest revision
- National Interoperability Infrastructure

## Proposed Equipment for GOC

### ► Contracted in 2019

- 12 Vesta 911 Call Handling Positions
  - Implemented 11/2023
- 12 Radio Consoles
  - Implemented 3/2024

### ► Proposed

- 9 Additional Vesta Positions
  - Upgrade for all Vesta Positions
- Additional 9 Radio Console Positions
  - Upgrade all consoles to new AXS console platform

## ► Proposed

- 2 Vesta 911 Call Handling Positions
- 11 multiband radios with antenna and coax line
- All installation hardware, equipment and systems integration

# QUESTIONS?





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