

# The Next Generation 9-1-1 (NG9-1-1) Migration

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# Challenges to Existing 9-1-1 System

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## 9-1-1 now

- Nine, independent networks
- Extremely limited ability to process data
- Decades old technology
- CORE ANALOG TECHNOLOGY IS GOING AWAY

## Evolving telecommunications

- Multiple service providers/technologies
- New technologies/applications continually developed
- Increased flexibility/mobility of citizens



# What is Next Generation 9-1-1?

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NG9-1-1 is the solution to existing challenges

- Migration from circuit (analog) to packet switched (IP) technology
- Unified network among PSAP; data transferability
- Required to meet the demands of new telecommunications technologies

Makes data available

- About the caller, the incident, and among PSAPs and first responders



# Migration to NG9-1-1 in Virginia

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Prince George County is scheduled to be migrated between January 2020 and June 2020.

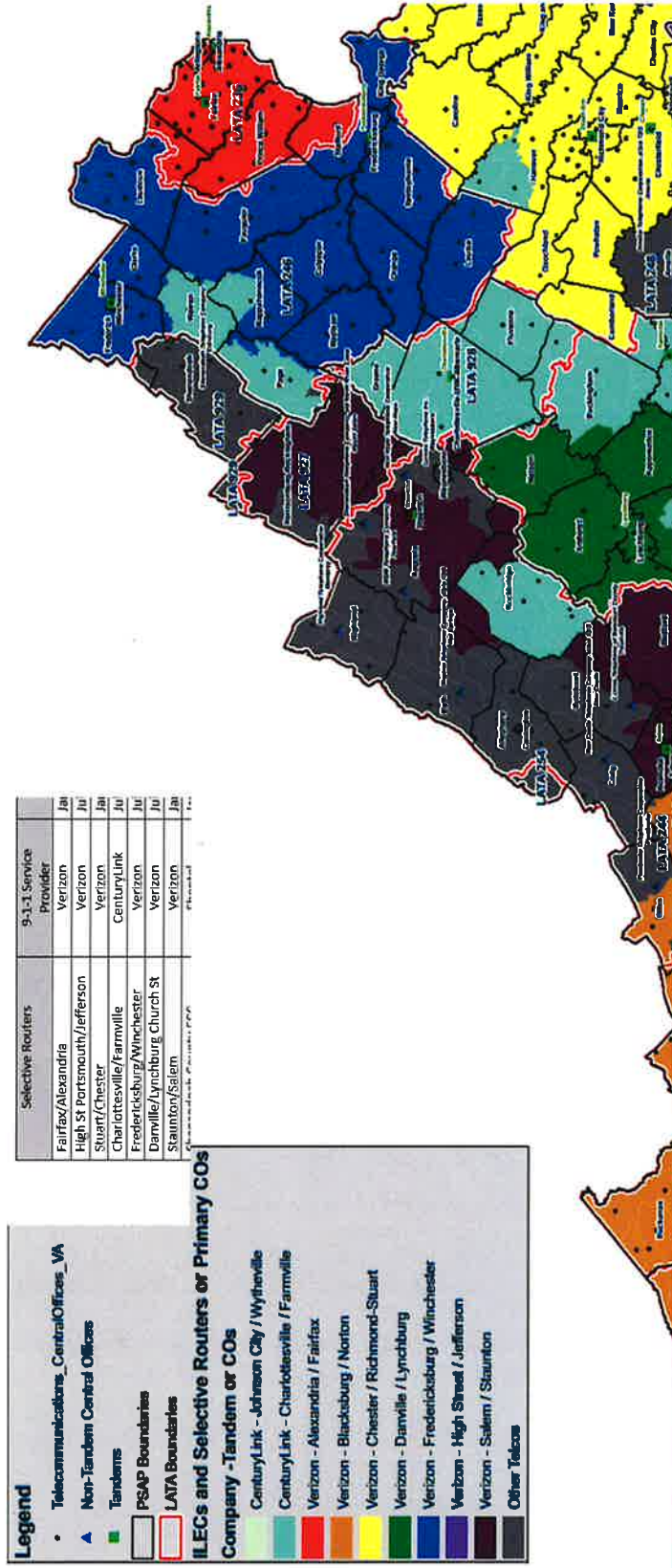
It is the recommendation of staff to be ready to migrate in January 2020 due to other surrounding localities moving in the last half of 2019.

Code of Virginia section 56-484.16 requires migration by July 1, 2023.

On the map on the next slide, the County's area is in yellow.



# Proposed Deployment Schedule



# Benefits of the AT&T ESInet™

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Nationally distributed architecture

- Increased reliability of the network

Interoperability among PSAPs

- Allows data transfer with calls

Integrated text to 9-1-1

Dedicated Network Operations Center, management team and support

Customer management portal

- Initiate alternate routing plans

Able to support future media; photos & video



# Role of GIS in NG9-1-1

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One of the most time consuming efforts of moving to an NG9-1-1 system will be the preparation of GIS data

- Used to provide location validation and routing of 9-1-1 calls to the appropriate PSAP

The County's GIS Team will have data to the vendor three months in advance.



# Deployment Funding

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## Equipment and systems

- Funding provided by the 9-1-1 Board

## Connectivity

- Funding provided by the 9-1-1 Board

## Legacy 9-1-1 charges

- Covered by the 9-1-1 Board

## Monthly recurring charges

- Difference between current and future charges covered by 9-1-1 Board for 24 months

- Refer to your migration proposal for specific costs





# Monthly Recurring Charges

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Current monthly 9-1-1 Service Charge = around \$2,322.92

- Based on current landline subscriber counts

Proposed AT&T Monthly 9-1-1 Service Charge = not to exceed \$6,523.35

- Includes all the services and benefits mentioned

A monthly difference of \$4,200.43

- 9-1-1 board will cover this difference in expense for 24 months after deployment
- The increase would affect the FY22 Budget.

