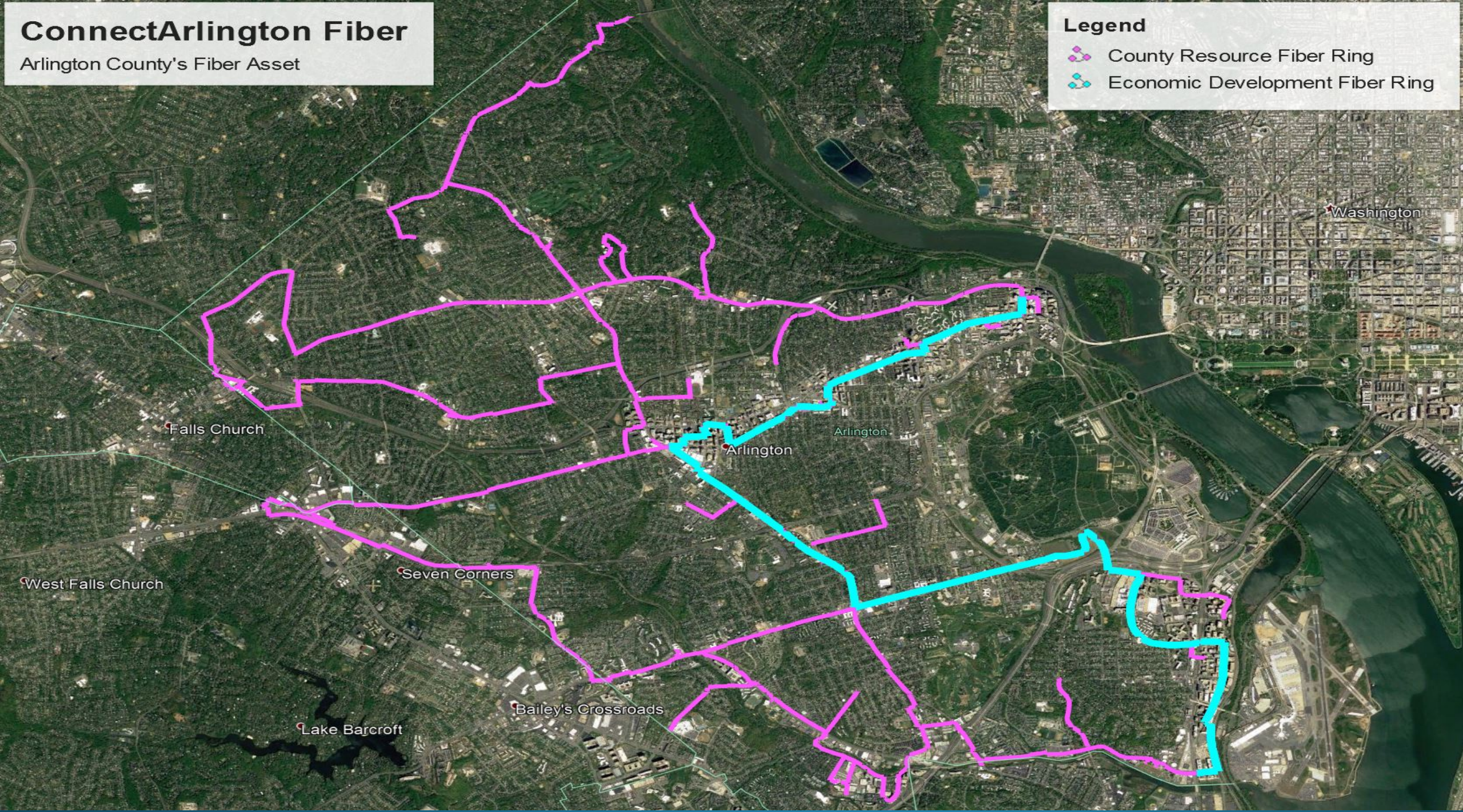
Civic Federation

December 14, 2021

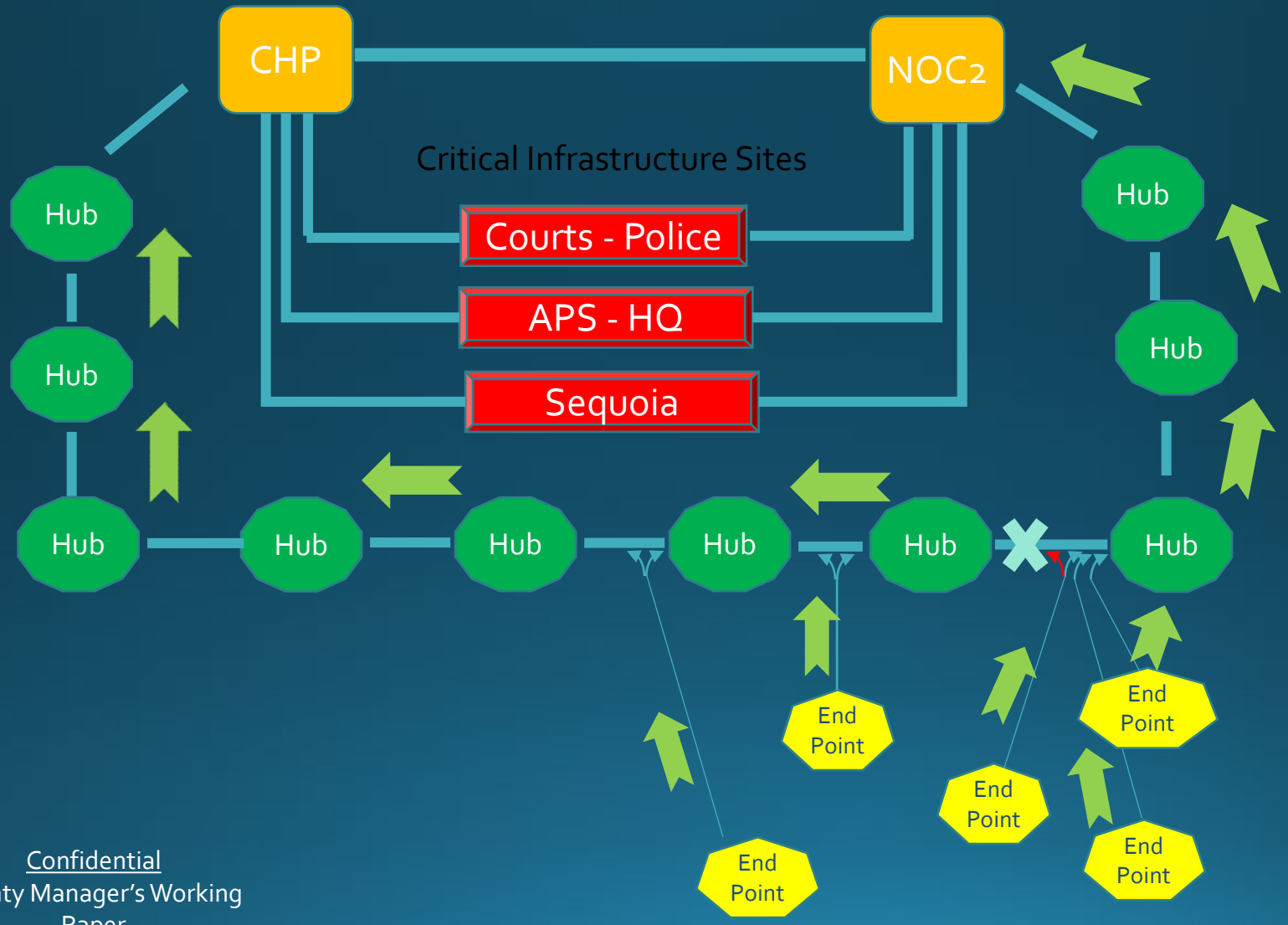
ConnectArlington

County Owned and Managed Asset

- 70 plus miles of fiber – Base Footprint
  - 128 to 256 strands of Multimode Fiber Optics
  - designated for Public, Education and Government Purposes
  - Intelligent Traffic Safety
  - Public Safety Radio
  - Government & Schools Voice, Data and Video Services
  - In Building Public Safety Communications (First Responders) Net
  - Public Safety Emergency Response
- 10 miles of fiber – Additional Overlay Footprint
  - 864 Strands of Multimode Fiber Optics
  - Designation for Economic Development Purposes
  - University Consortium


ConnectArlington Fiber
Arlington County's Fiber Asset
Legend
County Resource Fiber Ring
Economic Development Fiber Ring
Washington
Falls Church
Arlington
Arlington
West Falls Church
Seven Corners
Bailey's Crossroads
Lake Barcroft

ConnectArlington Network Design



Limitations Applied by the State

- The County is limited as to how it may use the capacity of ConnectArlington for purposes other than that of non-Public, Education and Government Uses

- Specifically by Code of Virginia Title 56.
  - Public Service Companies Chapter 15. Telegraph and Telephone Companies § 56-484.7:1. Offering of communications services.
  - The County can offer through licensing agreement access to the 'middle mile' fiber.
  - The County is **prohibited** from providing '**End to End**' services

Traffic Management

- Remote Traffic System Management
- Support of 200 plus traffic cameras
- Parking Management
- Multi-Modal transit Management
  - Bikes, scooters, buses, shared ridership

Public Safety Uses

Grey Wolfe, Blue Thunder, Red October

ETSU (Grey Wolf)

Public Safety Ports

Higher Ed Consortium

Advanced Research and Education Networks

MARIA – Mid-Atlantic Research Network

CAAREN – Capital Area Advanced Research and Education Network

Mid Atlantic Crossroads

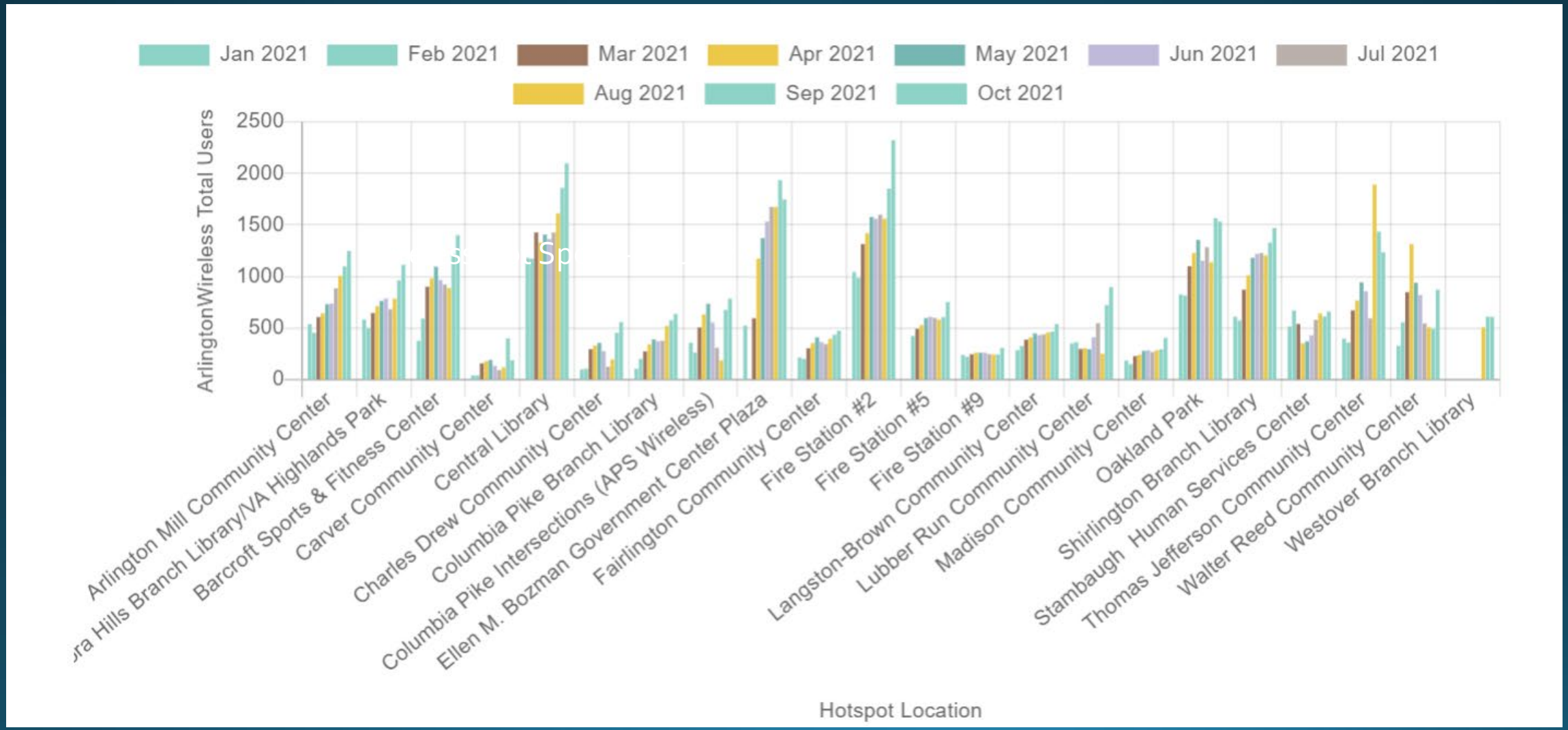
THE QUILT

MAX
MID-ATLANTIC CROSSROADS

First Responder In-building Network

Wireless Hot Spots and Usage – County

24 and growing – one a square mile



Collaboration with Comcast

- Internet Essentials – approximately 300 plus families with students on the free or fee reduced lunch program
- Lift Zones
  - Macedonia Baptist Church
  - Serrano Apartments
  - AHC properties
  - Senior Citizen facilities
- Clarendon Innovation Pilot – Public Private Partnership
  - US-IGNITE
  - Governors Commonwealth Cyber Security Initiative
  - Comcast Innovation Team

Collaboration with APS

- Upgrade of all schools to 10 Gigbit Internet Access
- Provision of Network Operation Center for Premised Services
- Provision of Redundant Routes to Cloud Services
- Implementation of Wireless Hot Spots at all schools for solely student and teacher use
- Deployment of Private Radio Network over CBRS to compliment remote Learning
  - 123ConnectMe

Broadband Study – RFP released 12/19/2021

. • The study will assess available broadband and digital inclusion resources, evaluate resident and business needs, explore broadband delivery models, and identify strategies for increasing broadband resources. Specifically, the study will answer the following questions:

o What is the extent and quality of broadband infrastructure in Arlington today? o Do the available broadband resources meet the County's current and future needs?

o What is the nature and extent of the unserved/underserved population (related to access, adoption, affordability, internet quality, digital literacy, and device needs)?

o What broadband speed is needed for long-term planning, and what is the most appropriate technology to facilitate the County's needs? o What infrastructure development and internet service delivery options should be pursued

Thank You