### **Toni Stubbs**

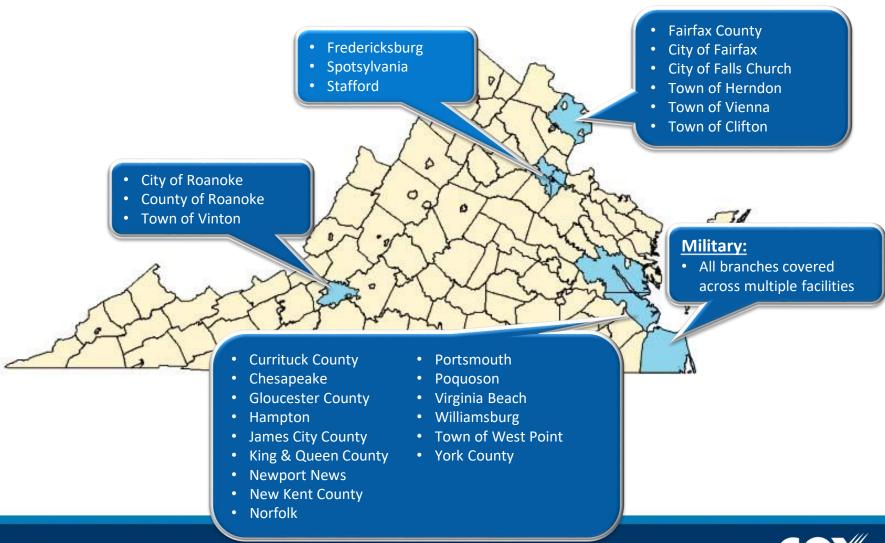
### VP of technology engineering and operations



- More than 20 years of experience in IT and engineering
- Responsible for VA network planning, engineering, and MTC operations
- Leads a team of 200 engineers and specialists for Cox in Virginia
- B.A. in Computer Science and Software Engineering
- MBA from the University of Michigan
- CTAM Graduate from Harvard Business School
- Advisory Board for NSU Dept. of Technology



## 40 Years of Service in Virginia





## **Residential and Commercial Services**









SECURITY

Cox Communications has more than a half century of experience as one of the country's leading providers of

Internet, TV, Security & Telephone with

2,400 employees in Virginia

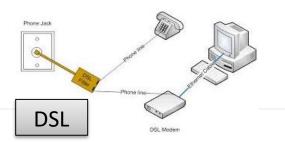
and an economic impact statewide in 2015

\$825+ million



## What is Broadband?







broa /'brôd noun

> a high numbe "our at

### Broadband

From Wikipedia, the free

This article is about

In telecommunications and traffic types. The How does it get there?

xt of Internet access, broadband is used to mean any high-speed Internet access that is always

itional dial-up access.

access.

Look up broadband in Wiktionary, the free

dictionary.

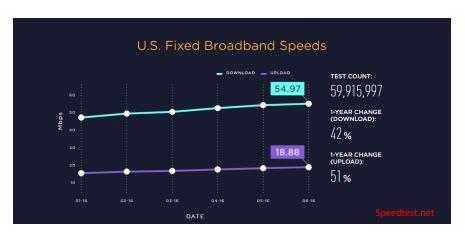


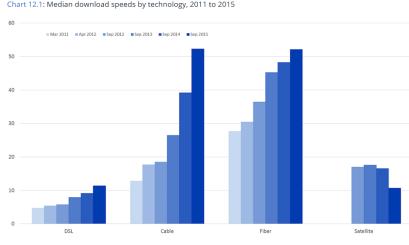


## **Bandwidth Consumption Trends**

"For the first time ever, average download speeds for broadband users exceeded 50 Mbps this year, according to Speedtest's latest report."

The top speed of 54.97 Mbps was reached in June, up 42% from a year ago -- a milestone that makes it 1,000 times faster than dial up. For reference, Netflix recommends a 25 Mbps connection to stream ultra HD quality video." CNN Money (tech) Aug. 4, 2016





"The median speed across all consumers this year is 39 Mbps which represents a 22% increase to last year's value of 32 Mbps, indicating that consumer speeds are continuing to increase." FCC 2016 Measuring Broadband America

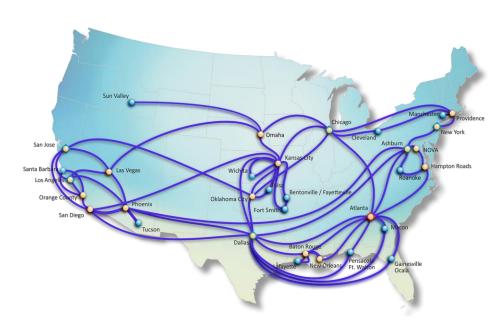
Fixed Broadband Report Dec. 1, 2016



### IN THE PAST DECADE, COX HAS INVESTED MORE THAN

## \$1.6 BILLION

#### ON NETWORK UPGRADES IN VIRGINIA



Cox National Backbone

- More than \$942 million invested in Hampton Roads
- Fiber Rich HFC Network
  - 20,000 network miles
- Self-healing, scalable network
  - Ring in ring architecture
- 22 Hub sites (13 in HRD)
- 24/7 national monitoring of network operations and performance



## Leading the Future Of Broadband



September 2015

### **Current Service**

- 300 Mbps available across footprint
- 10+ Gigabit service available to commercial customers through extensive fiber network
- Gigablast launch in 2015 for new residential developments
- 1000% speed increase over 15 years

### **Moving Forward**

- \$10 billion additional network investment nationwide through 2020
- DOCSIS 3.1 transition will enable residential Gigabit service over HFC network in our Virginia footprint
- Extending fiber deeper into neighborhoods



# Collaboration in the Commonwealth Internet Access

### **Gloucester County**

- Partnered to apply for a Virginia Telecommunications Initiative (VATI) grant
- County awarded grant for \$193k
- Cox contributing \$146k
- Extending service to 101 homes and 6 businesses
- Project to be completed by yearend
- Exploring additional VATI grant opportunities

### **Connect2Compete**

- Discounted home internet service launched in 2013
  - 10Mbps download speed
  - No deposit & no Contract
  - Free professional installation
  - WiFi Router
  - Eligible to families with children on free and reduced lunch or living in public housing
  - Partnering with government agencies, school districts and non-profits to reach more eligible families
  - More than 250k people have gained internet access through C2C nationwide

