Regional Broadband Update

Opportunities for Peninsula Localities

March 18, 2022
Our Vision

Ultimately, this will be a Fiber Optic Network Ring that will connect our entire 757 Region.
Think National Highway System Without Any Secondary Roads

*Our Interstates are the Backbone of the Entire U.S. Roadway System*
Our Digital Highway Consists of 288 Digital Strands

Fiber optics (optical fibers) are long, thin strands of very pure glass about the diameter of a human hair.
Improve the Interoperability of Our Region’s Emergency Response System

The Regional Network Ring Will
The Regional Network Ring Will Help The Region Navigate Flooding and Sea Level Rise
STORM SENSE
Weather Event Analysis, Maps

TITAN:
Tidal inundation tracking application – storm surge tracking

Water Level Monitoring System (WLMS)

Improving Real Time Response

sensors everywhere
The Regional Network Ring Will Help Support the Future of Autonomous Vehicles
Southside Network Authority (SNA)

Created November 2019
    Chesapeake, Norfolk, Portsmouth, Suffolk and Virginia Beach

SNA goal is to enable lower cost, faster service and enhanced broadband coverage via our Regional Connectivity Ring

Designed to allow for expansion to other localities

Current name a placeholder
Southside Network Authority

Step 1: Five Southside cities collectively contributed $500,000 to complete Planning and 30% Design work for the Southside Fiber Ring

Step 2: Five Southside cities acquired the services of Columbia Telecommunications Corporation (CTC) to advance design work to refine routing (economic development areas) 70% construction level design
Our Team

**Steven DeBerry**
SNA Executive Director

**Columbia Telecommunications Corporation**
Construction Oversight and Technical Support to SNA

**Danella Construction**
Construction of Southside fiber ring

**Global Technical Systems**
In negotiations for operation and maintenance of fiber ring
The Network Ring WILL ENABLE, NOT COMPETE with, internet service providers.

It will serve as the backbone of the 757’s digital ecosystem.
Peninsula
Potential Next Steps

General discussion among Peninsula CAOs (today)

Convene team of IT representatives from each Peninsula locality to evaluate opportunities and make recommendations to CAOs
Peninsula Strategy - Notional
Phase One Outcomes

Strategic workshop
- Priorities for the near-, mid-, and long-term
- Revenue
- Cost avoidance
- Broadband equity / last-mile partnerships
- Governance approach
- Best practices / lessons learned

System-level design
- Network routes
  - Municipal sites
  - Target business districts
  - Underserved populations
- Cost estimates
- Specifications for key network elements
  - Fiber splicing
  - Conduit and fiber capacity
  - Access points for fiber and conduit

Business case analysis
- Financial analysis based on cost avoidance to meet internal needs and/or revenue opportunities
- Range of potential business models

Select implementation track for Phase Two

Public Ownership
- 100-Percent Design
- RFP(s) for construction and operating partners / contractors and/or leverage SNA contracts

Public-Private Partnership
- RFP for design / build / operating partners
- Leverage SNA partnerships