Web Mapping and the Next Generation of Broadband

Sean Myers, Co-Founder

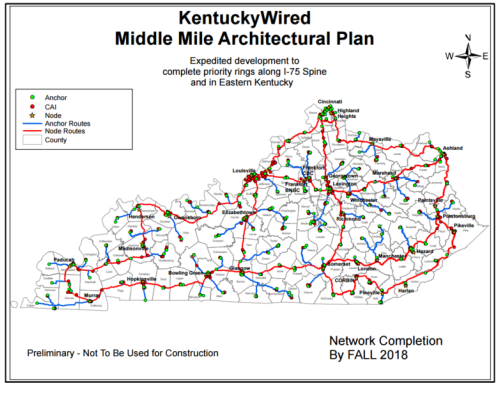
NBT SOLUTIONS

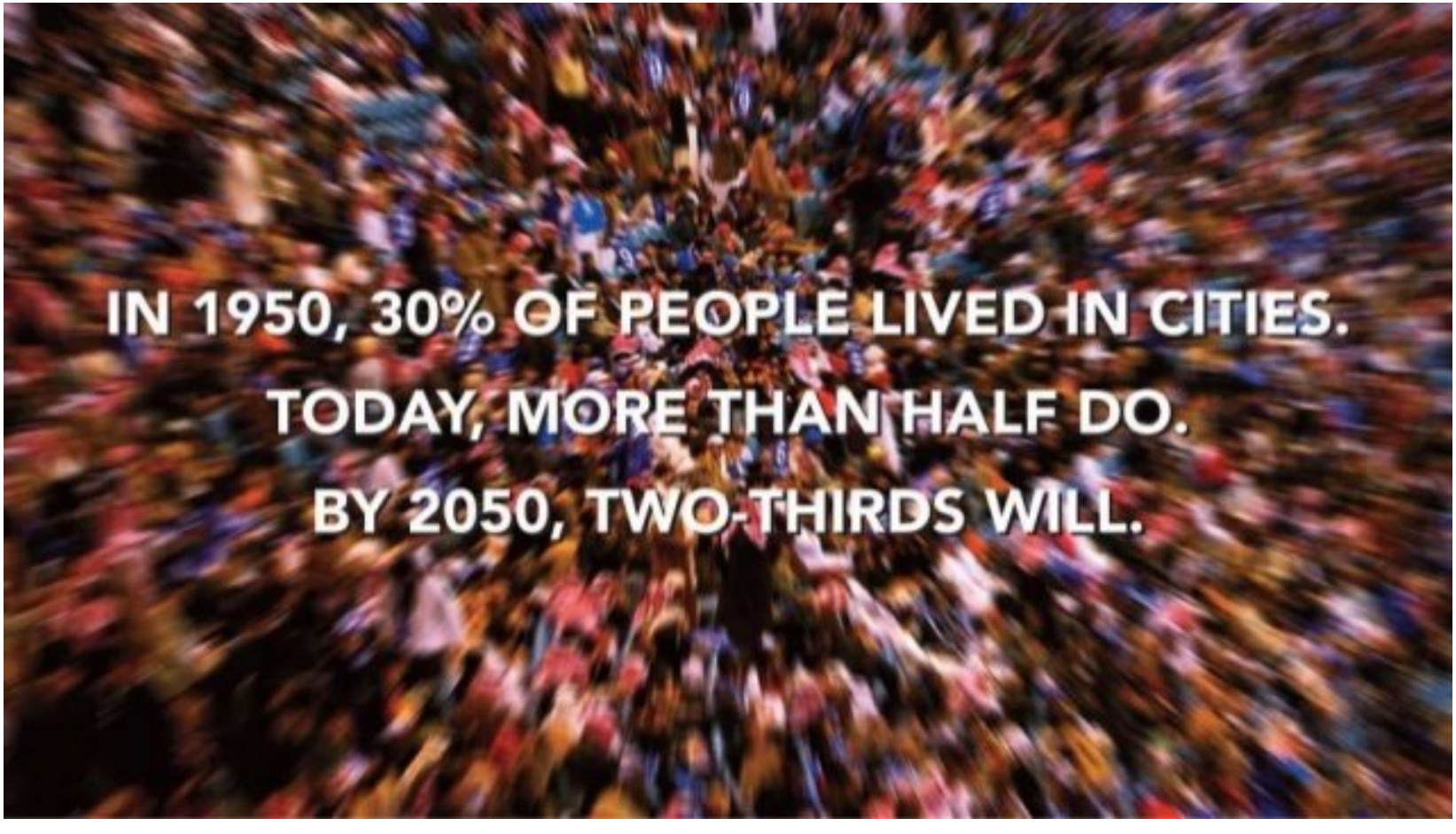
Economic Development

Bridging the Digital Divide

Creating Responsive Cities

Kentuckywired




IN 1950, 30% OF PEOPLE LIVED IN CITIES.
TODAY, MORE THAN HALF DO.
BY 2050, TWO-THIRDS WILL.

The Problem Is....

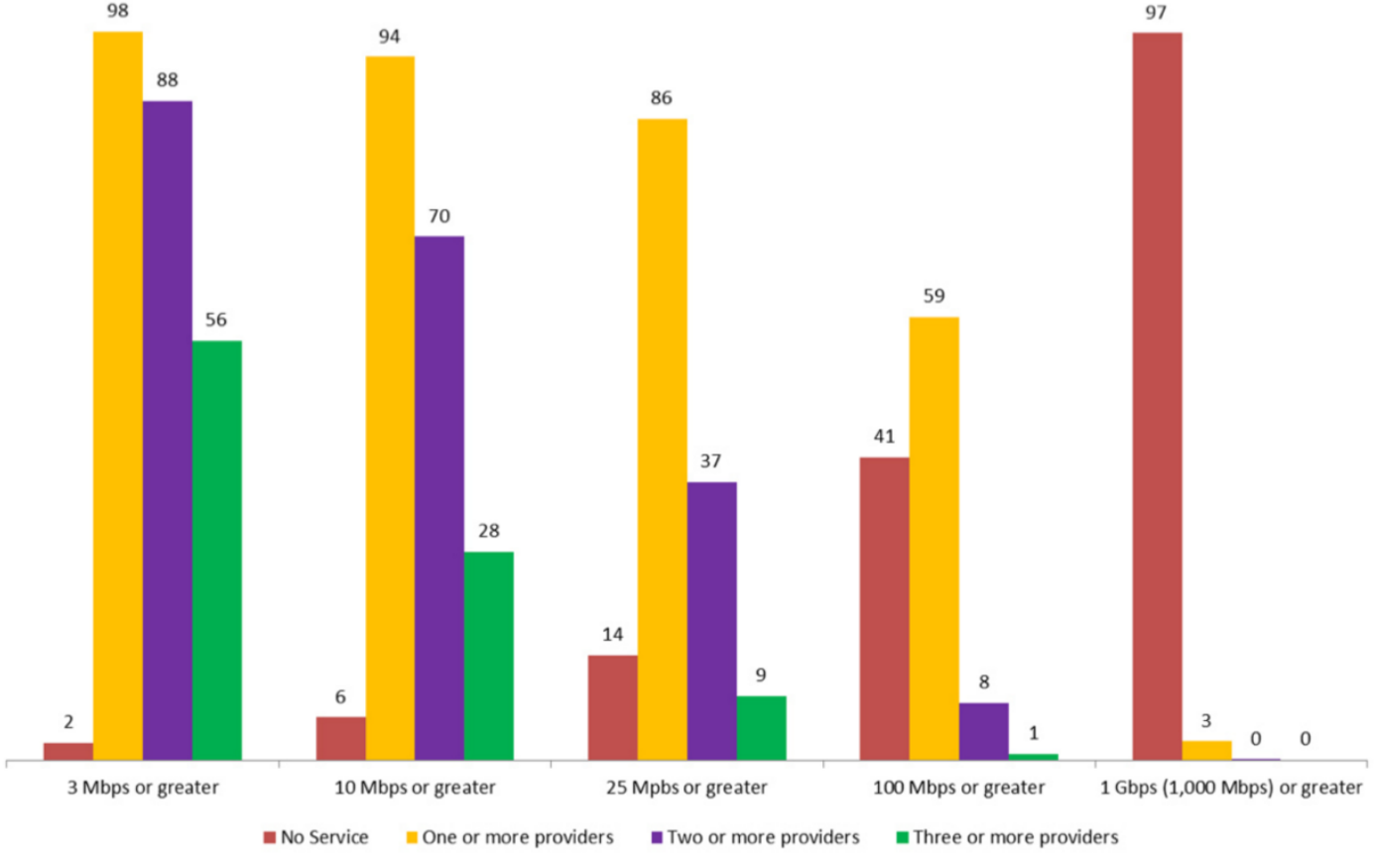

CHAMPIONSHIP EDITION
MONOPOLY
GAME NIGHT

Look Familiar?

...Loading

Figure 2: December 2013 Population Shares by Numbers of Available Fixed Broadband Providers by Maximum Available Advertised Download Speeds in Mbps

(in percents)

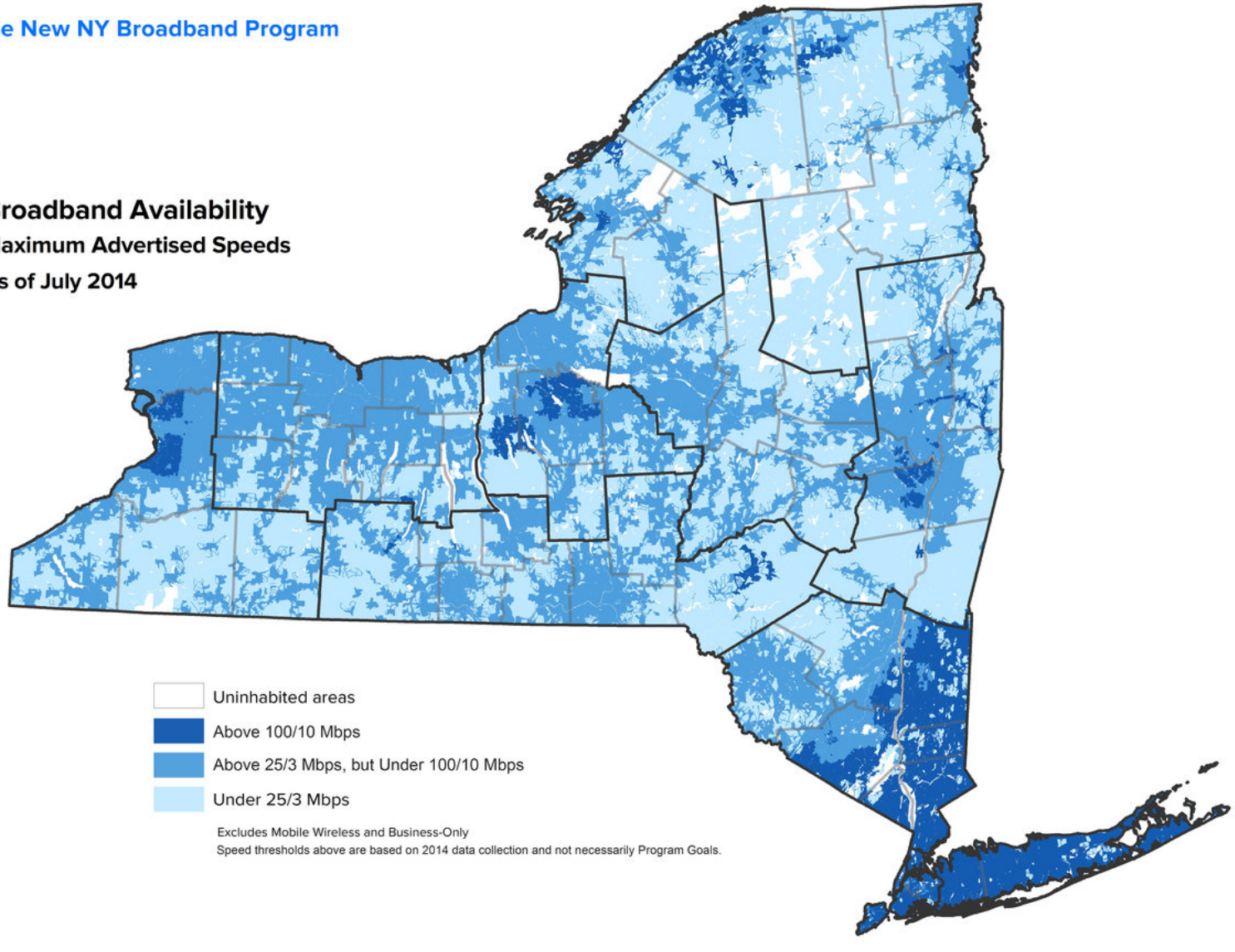


The New NY Broadband Program

Broadband Availability

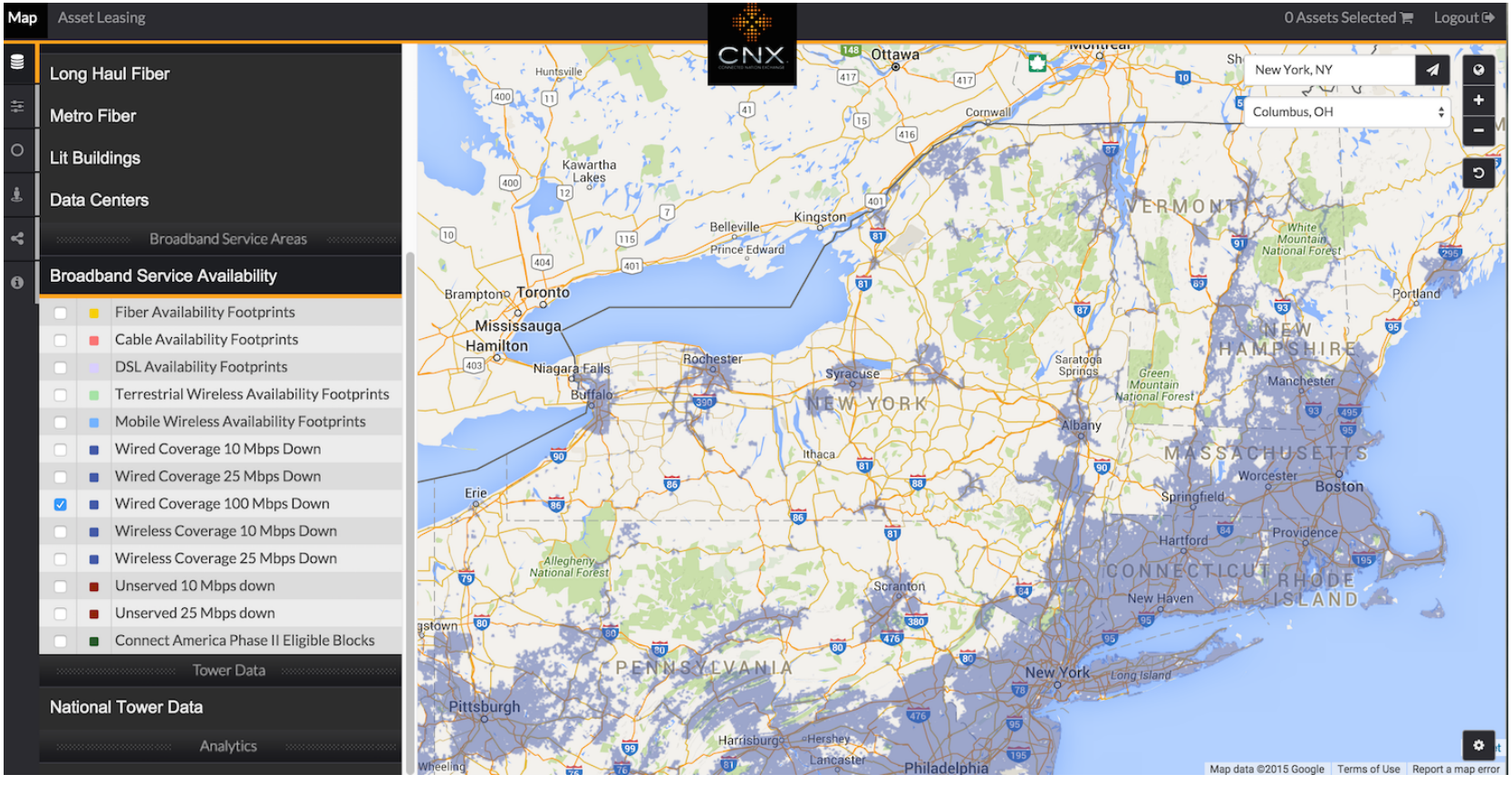
Maximum Advertised Speeds

As of July 2014



Excludes Mobile Wireless and Business-Only

Speed thresholds above are based on 2014 data collection and not necessarily Program Goals.


Map
Asset Leasing
CNX
0 Assets Selected
Logout
Long Haul Fiber
Metro Fiber
Lit Buildings
Data Centers
Broadband Service Areas
Broadband Service Availability
Fiber Availability Footprints
Cable Availability Footprints
DSL Availability Footprints
Terrestrial Wireless Availability Footprints
Mobile Wireless Availability Footprints
Wired Coverage 10 Mbps Down
Wired Coverage 25 Mbps Down
Wired Coverage 100 Mbps Down
Wireless Coverage 10 Mbps Down
Wireless Coverage 25 Mbps Down
Unserved 10 Mbps down
Unserved 25 Mbps down
Connect America Phase II Eligible Blocks
Tower Data
National Tower Data
Analytics
New York, NY
Columbus, OH
Ottawa
Toronto
Mississauga
Hamilton
Buffalo
Rochester
Syracuse
Albany
Boston
Portland
Manchester
Worcester
Springfield
Hartford
Providence
New Haven
New York
Philadelphia
Pittsburgh
Scranton
Erie
Ithaca
Kingston
Belleville
Cornwall
Huntsville
Kawartha Lakes
Niagara Falls
Brampton
Saratoga Springs
Harrisburg
Hershey
Lancaster
Wheeling
VERMONT
NEW HAMPSHIRE
MASSACHUSETTS
CONNECTICUT
RHODE ISLAND
NEW YORK
PENNSYLVANIA
White Mountain National Forest
Green Mountain National Forest
Allegheny National Forest
Long Island
Map data ©2015 Google
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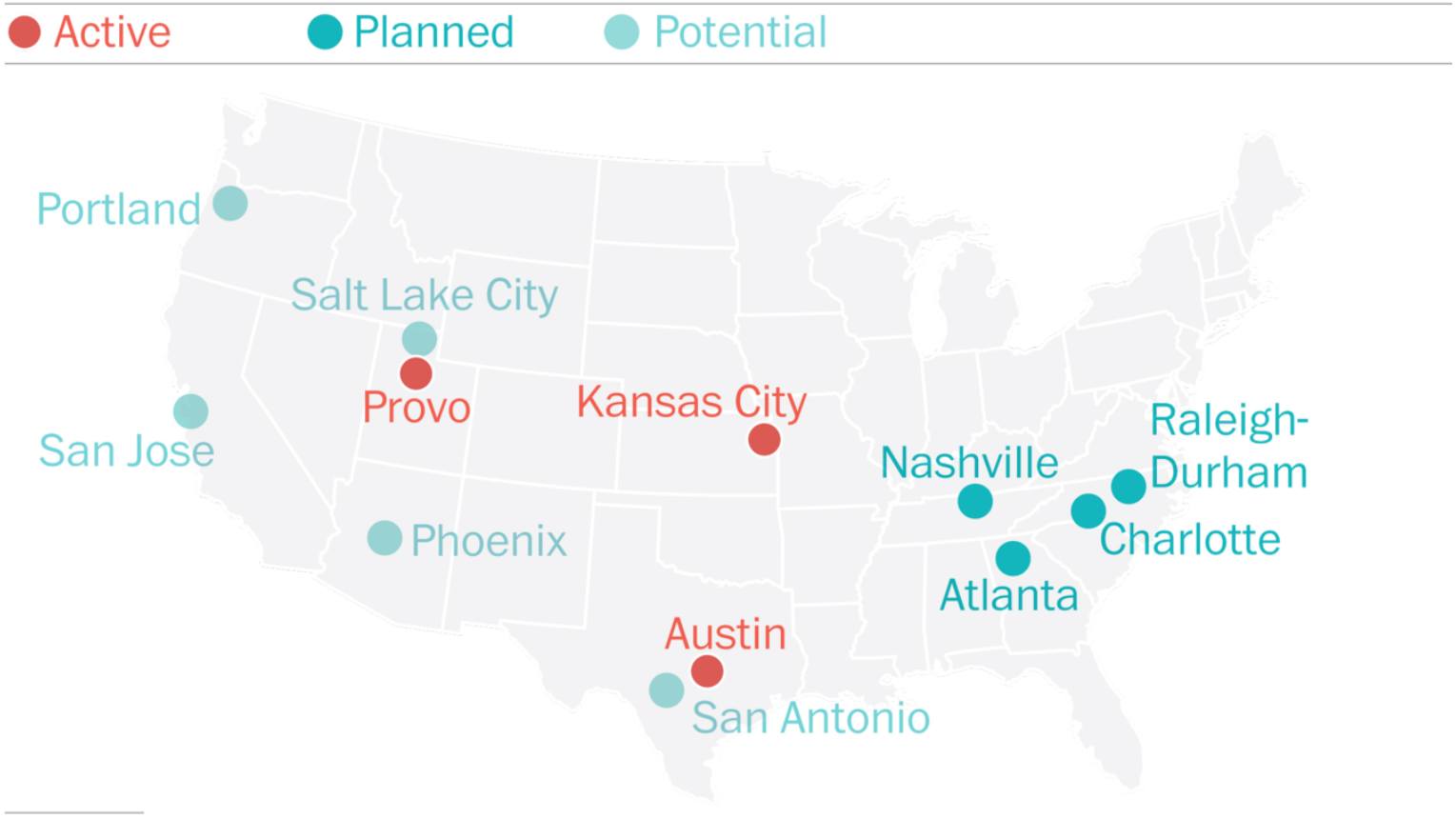
Report a map error

So What Is Being Done to Fix This Problem?


Google fiber

Google Fiber cities



Source: Google

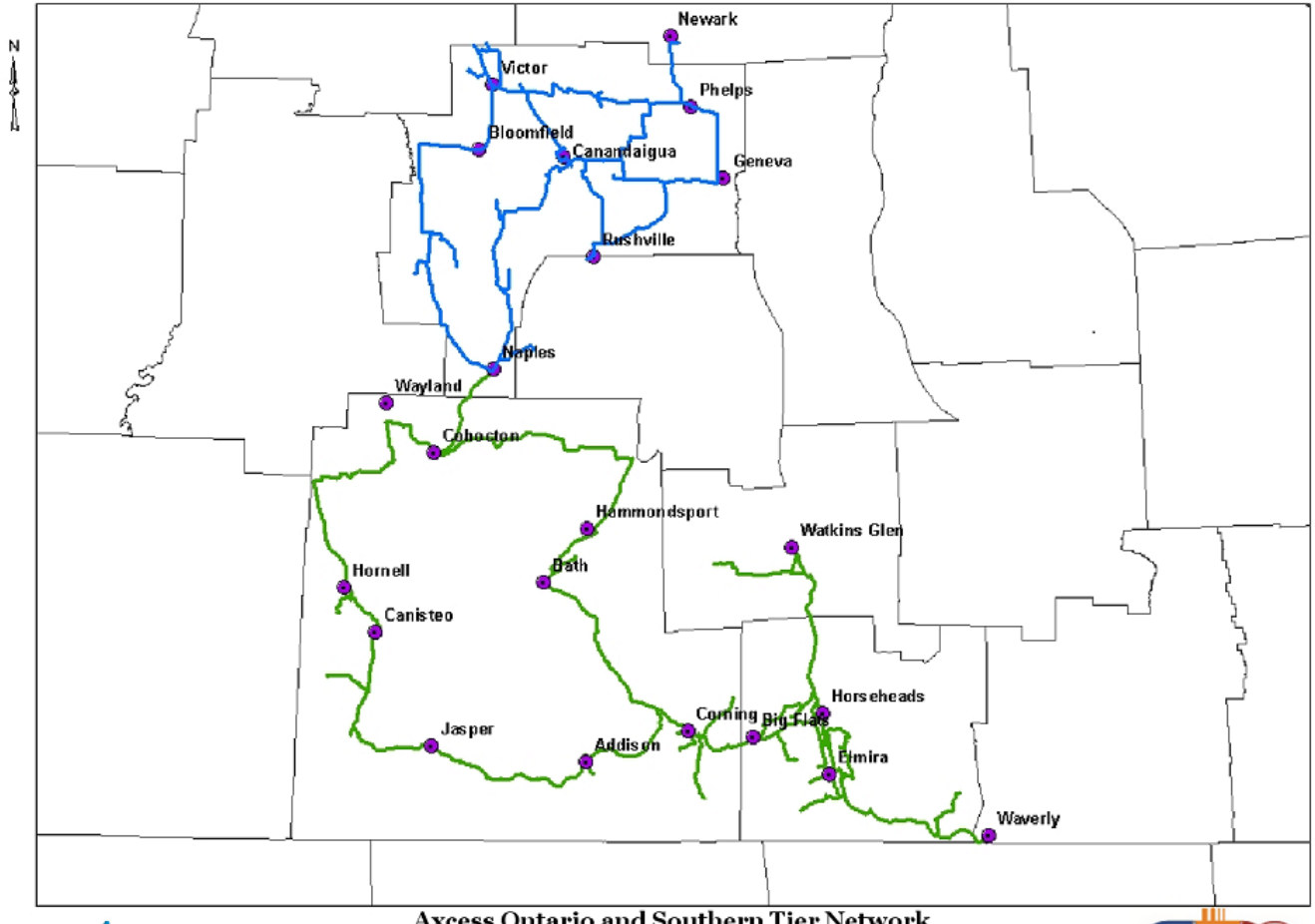
YOUR GIG IS HERE.

Right here, in Chattanooga.

Only in Chattanooga, Tennessee is 1 Gigabit-per-second Internet speed available to every home and business - over 150,000 of them - throughout the entire community. Urban or rural, business or residence, Internet speeds that are unsurpassed in the Western Hemisphere – from 50 Megabits-per-second all the way up to one gigabit-per-second are accessible here. Today.

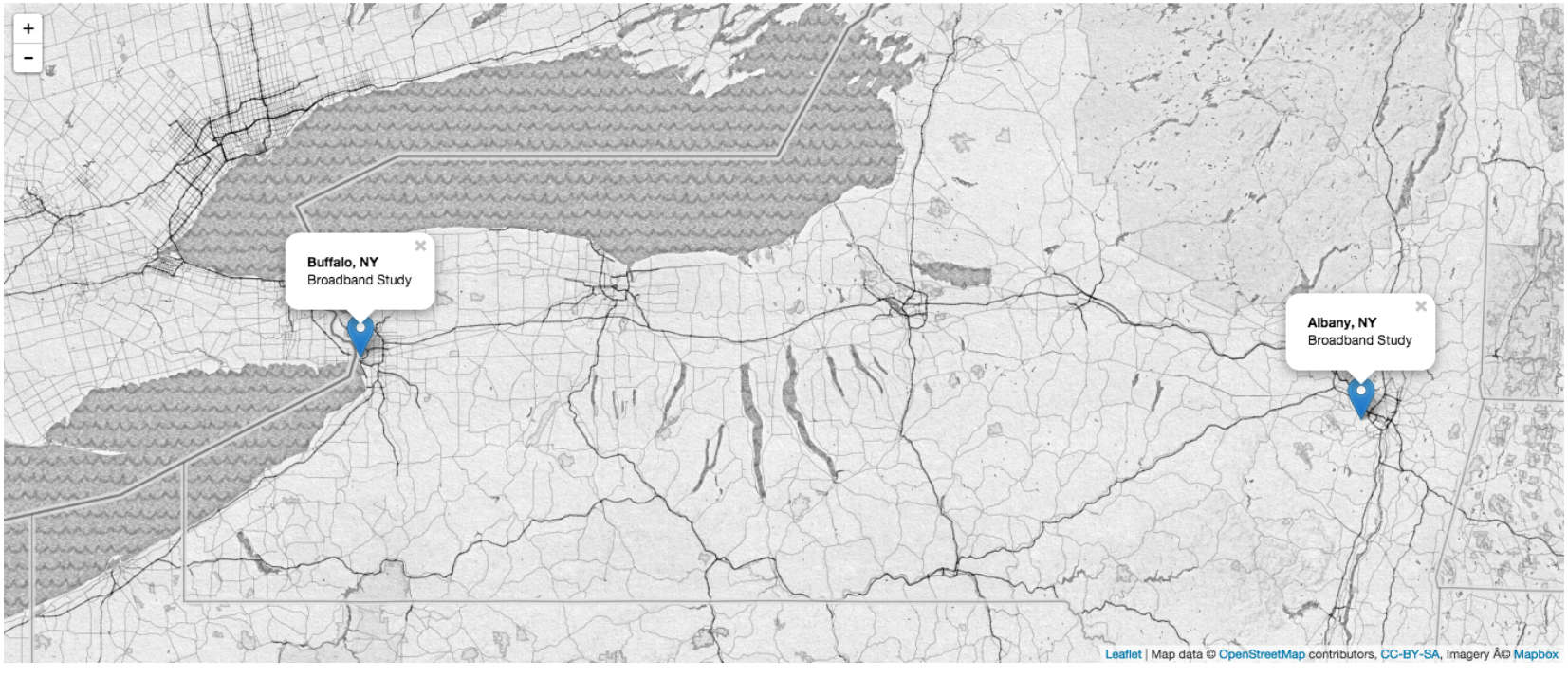
Thanks to the Gig, STEM students in Chattanooga are experiencing biology and STEM like never before. Researchers at USC place live biological specimens under a Digital Cinema Microscope and capture ultra-high resolution (4k) movies of the microorganisms while simultaneously transmitting live, HD images from the microscope to students in the STEM class.

Learn More >



Axcess Ontario and Southern Tier Network

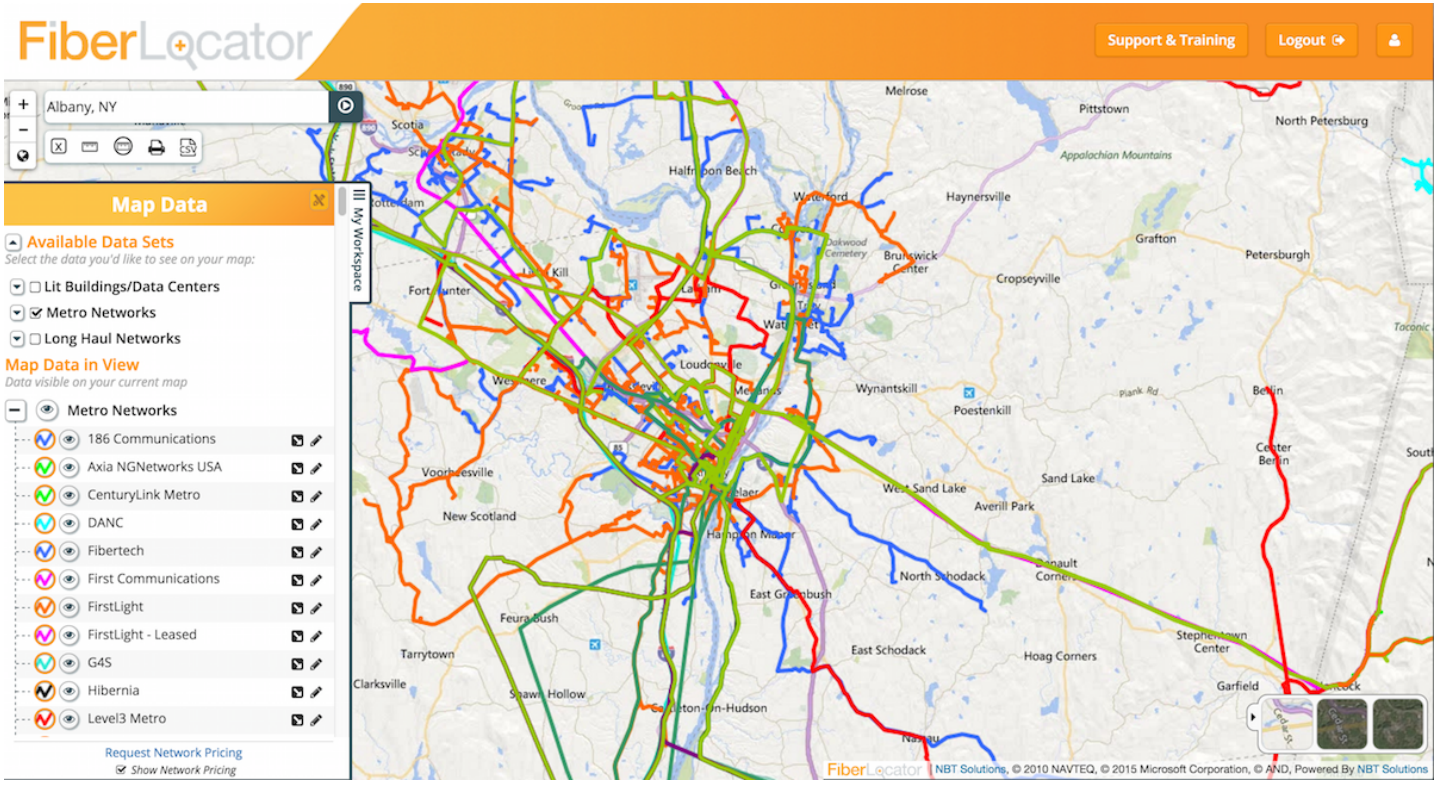
FIBER MAP


+
−
Buffalo, NY
Broadband Study
Albany, NY
Broadband Study
Leaflet | Map data © OpenStreetMap contributors, CC-BY-SA, Imagery Â© Mapbox

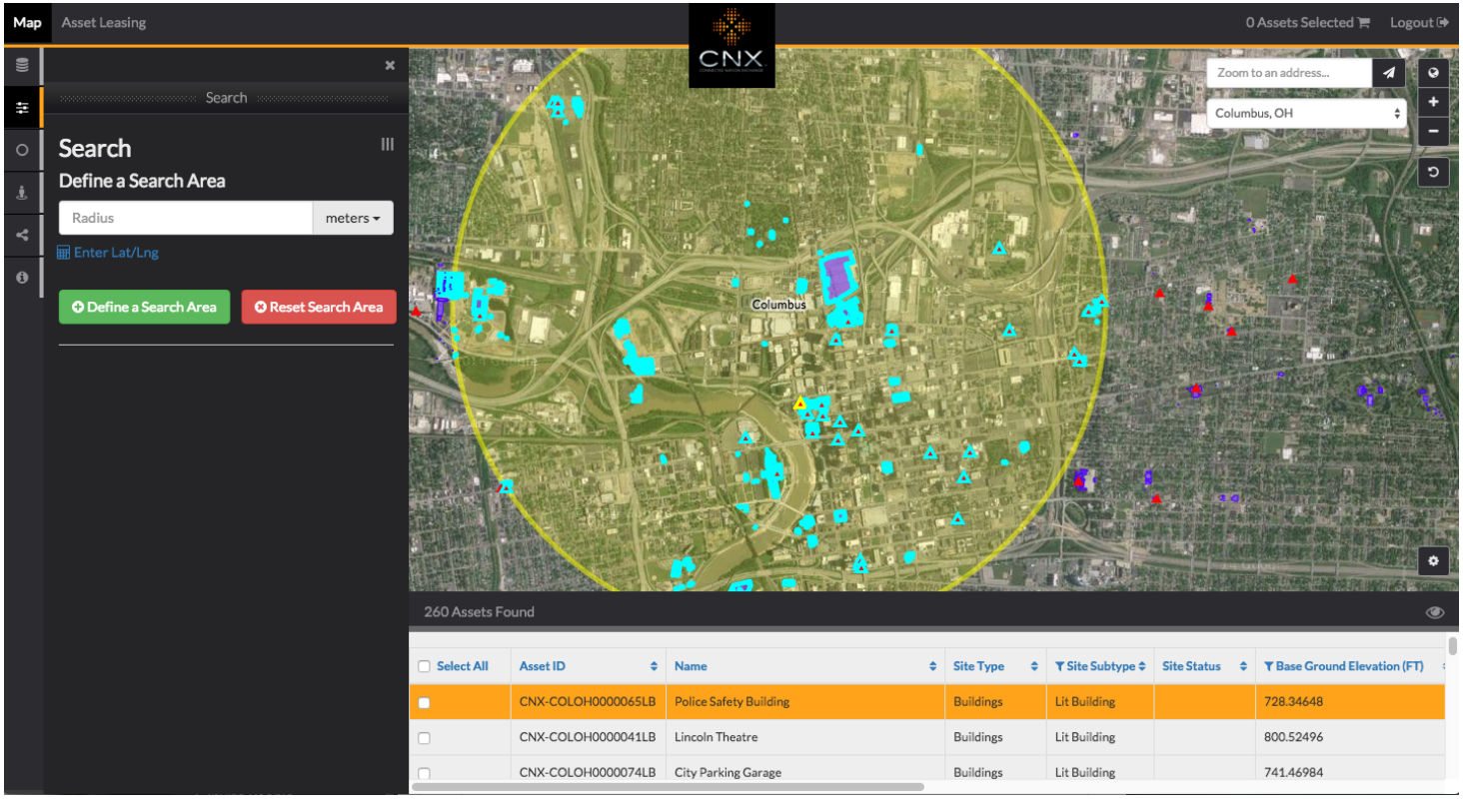
The Role of Web Mapping

- Asset Inventorying
- Costing and Planning
- Management

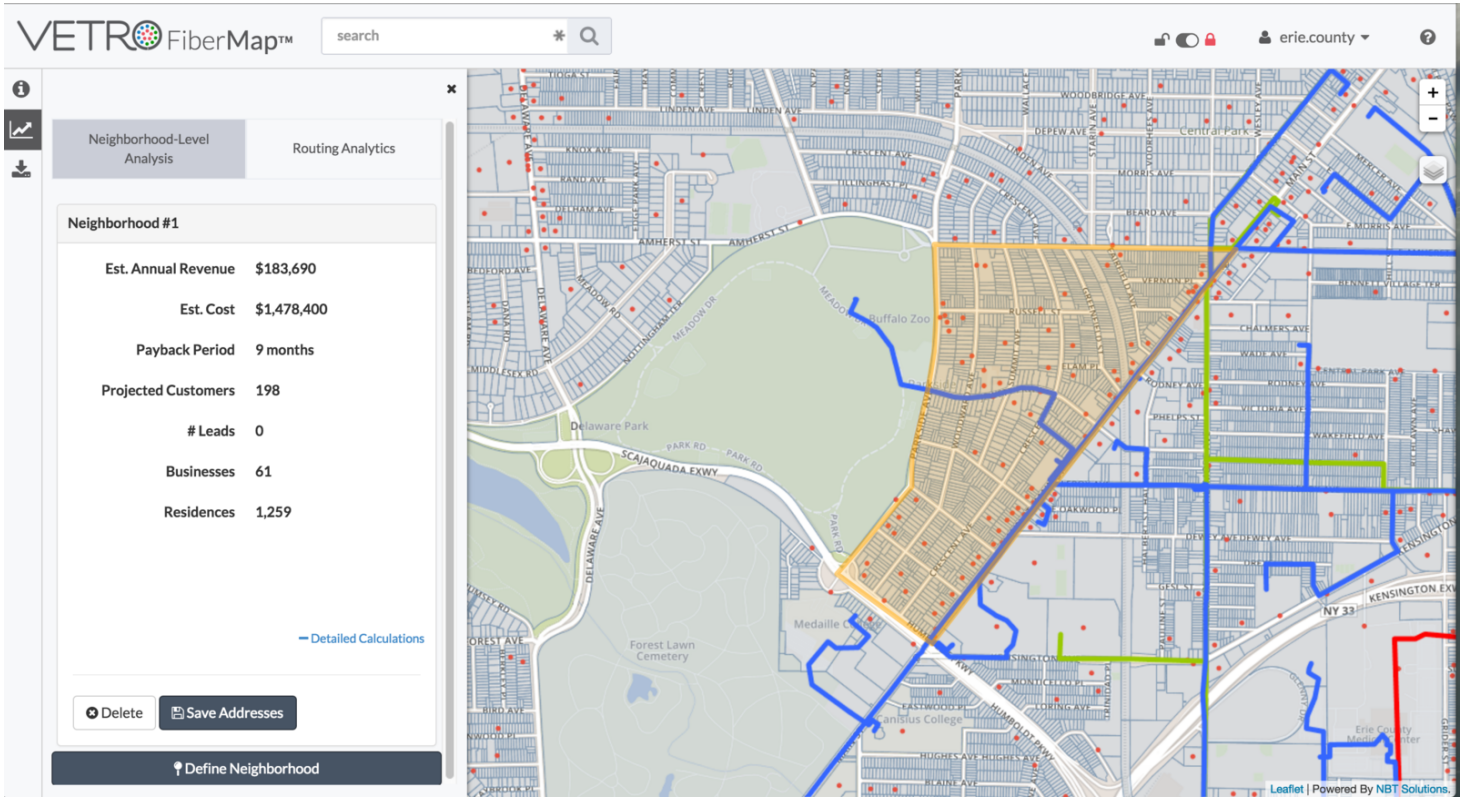
Fiber Network Inventories



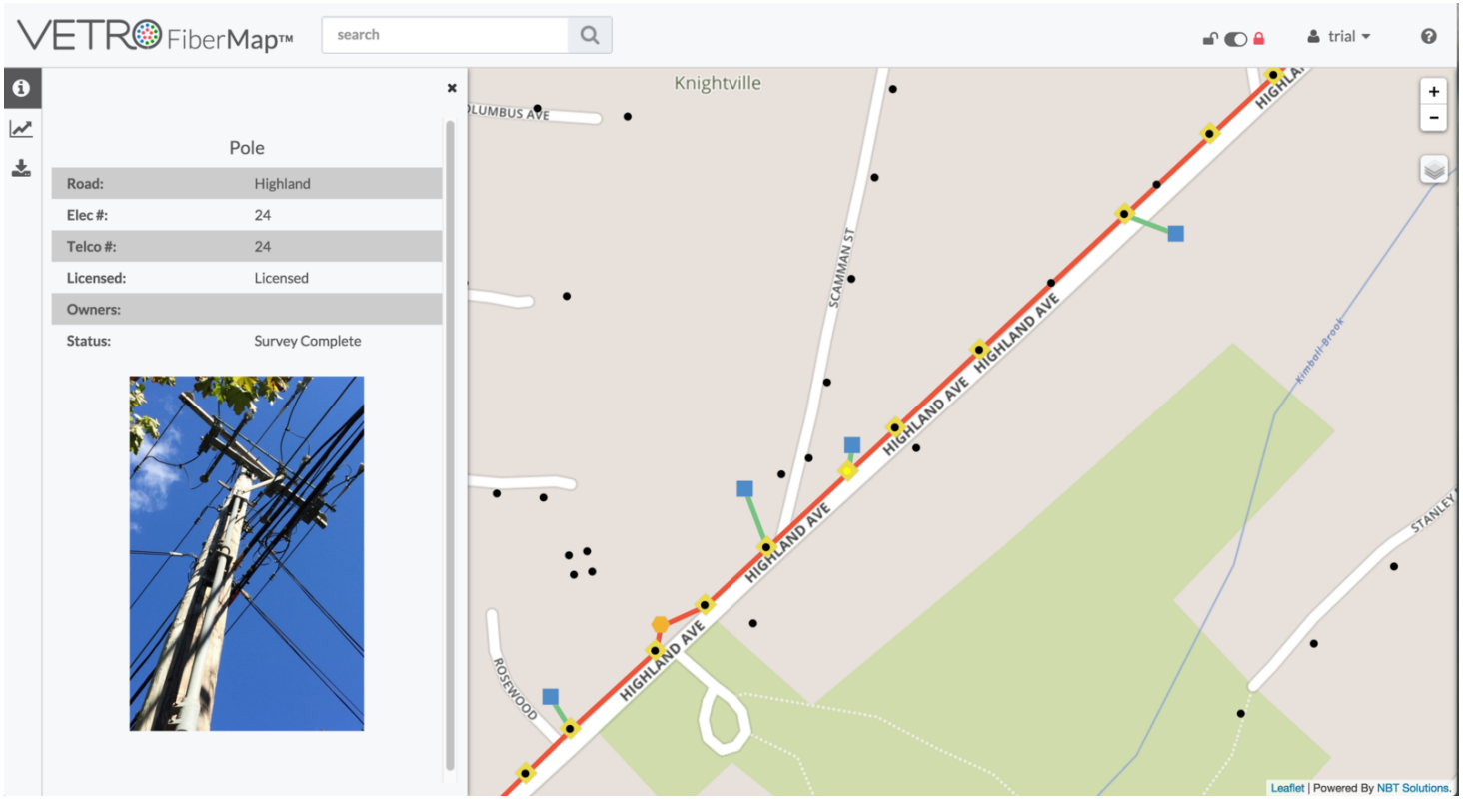
Finding Vertical Assets for Small Cell Equipment



Neighborhood Based Costing



Asset Management



Summary

- Broadband is becoming an essential utility
- Public/Private partnerships can help create broadband alternatives
- Mapping and spatial analysis will facilitate much of this new expansion


Sorry NO
INTERNET Today