

# An Overview of the NH Broadband Mapping Initiative April 25, 2023







## New Hampshire Broadband Mapping Initiative

- New Hampshire understands that residents, businesses, and institutions require broadband access to promote economic development, quality education, energy efficiency, adequate health care, overall quality of life
- In recognition of these facts, the Office of Broadband Initiatives at the New Hampshire Department of Business and Economic Affairs (BEA) has provided funding to map broadband availability throughout New Hampshire
- BEA is using funds from the American Rescue Plan Act of 2021 to finance the mapping effort
- NH GRANIT has been selected to implement broadband mapping in the state and is leading the NH Broadband Mapping Initiative
- The mapping timeline spans the period of November 2022 through December 2026







## **Initiative Participants**

#### • NH GRANIT

- Primary mapping responsibilities
- Website and dashboard development
- Speed test/survey evaluation
- Carol Miller (National Collaborative for Digital Equity)
  - Acquire ISP data
  - Facilitate E9-1-1 data delivery
  - General consultant
- Scott A. Valcourt, PhD (Northeastern University)
  - Fiberoptic analyst
  - General consultant







## Mapping Initiative Overview

- Goal map broadband availability by type of technology and speed, in order to identify areas served/unserved/underserved in the state
- Broadband is defined by the NH Office of Broadband Initiatives as wireline service with speeds of 100 Mbps downstream and 20 Mbps upstream
- Mapping is based on data submitted by the active wireline providers in the state and will include technology types and transmission speeds
- Data is mapped using locally-derived address locations (e.g., E9-1-1 data) which are aggregated for public display
- Data will be verified via speed tests and online surveys
- Data are collected and processed on a bi-annual schedule with intervening updates when/if data becomes available







## Project Home Page

https://NHBroadbandMapping.unh.edu



The **New Hampshire Broadband Mapping Initiative** seeks to identify where internet access is available, how it can become more widely available, and how to encourage higher levels of broadband adoption and usage in New Hampshire. It is clear that vibrant local and state economies require broadband infrastructure to support economic development, energy efficiency, advances in health care, and improved educational opportunities.

#### NEWS: The Broadband Dashboard and Web Map are now live!

Explore the status of broadband internet availability around New Hampshire and in your neighborhood. Scroll down to the resource gallery to begin.

Choose from the gallery below to explore various broadband activities currently happing in New Hampshire and around the country. Contribute to our efforts to improve connectivity in New Hampshire by conducting a speed test of your location's broadband connection or completing the Connectivity Survey.







### Data Availability

- Round 1 data was published in early April of 2023
- Round 1 data is based on ISP data that is current as of December 31, 2022
- Round 2 data is expected to be published in early October of 2023
- Round 2 data will be based on ISP data is current as of June 30, 2023



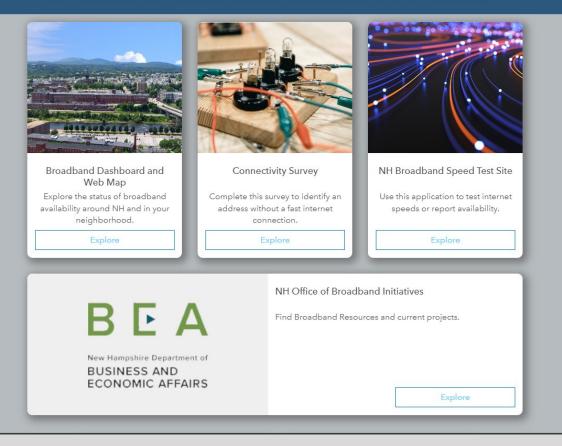




## Item Gallery

#### https://NHBroadbandMapping.unh.edu

Choose from the gallery below to explore various broadband activities currently happing in New Hampshire and around the country. Contribute to our efforts to improve connectivity in New Hampshire by conducting a speed test of your location's broadband connection or completing the Connectivity Survey.

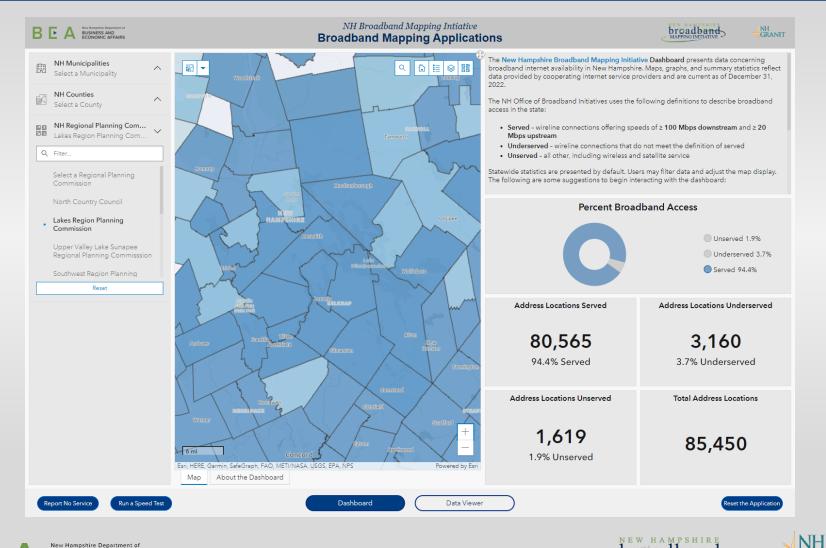


BEA New Hampshire Department of BUSINESS AND ECONOMIC AFFAIRS





### Dashboard



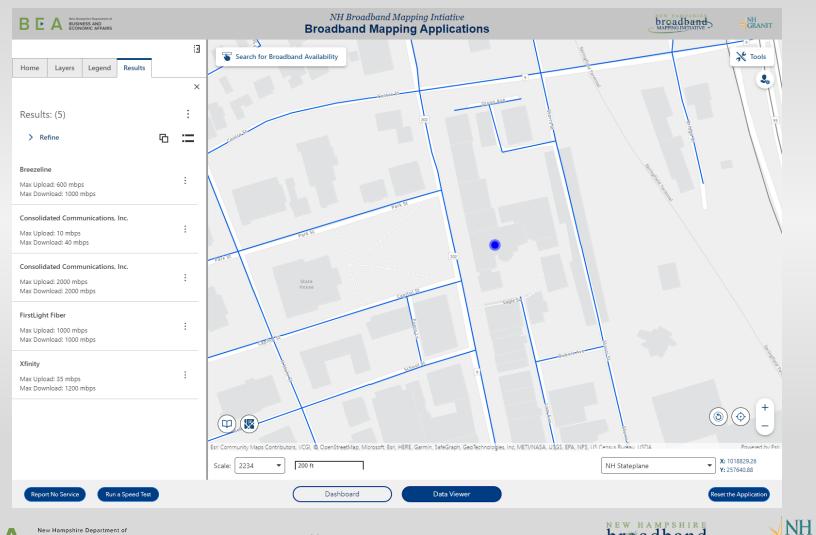


https://NHBroadbandMapping.unh.edu



**GRANIT** 

#### Data Viewer



BEA New Hampshire Department of BUSINESS AND ECONOMIC AFFAIRS



### Speed Test

- Speed tests will help verify broadband mapping
- Speed test results will be used to do spatial statistical mapping to show areas of "hot" and "cold" spots (meaning statistically significant groups of high and low internet speeds)



#### https://nhbroadbandspeedtest.unh.edu







## Connectivity Survey

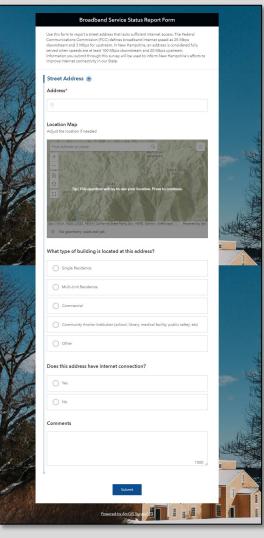
- Connectivity survey developed for citizens to report lack of internet availability
- Developed for use on mobile devices

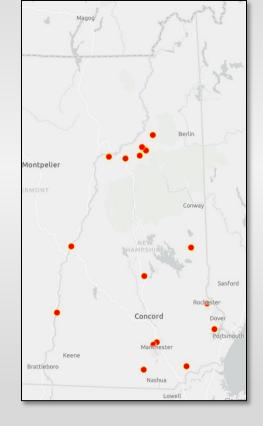
New Hampshire Department of

ECONOMIC AFFAIRS

**BUSINESS AND** 

 Survey information will be used to help validate the mapped data









### Local Assistance

This mapping effort will benefit from local assistance by way of

- Cities and towns requesting E9-1-1 data for their municipalities
- Encouraging participation in the speed test
- Encouraging participation in the online survey







### **Resource Links**

#### NH Broadband Mapping Initiative Website https://NHBroadbandMapping.unh.edu

#### NH Broadband Mapping Initiative Speed Test https://nhbroadbandspeedtest.unh.edu

#### NH Broadband Mapping Initiative Connectivity Survey <u>https://arcg.is/CXDfq</u>







### **Project Contacts**

David Justice, Project Director

University of New Hampshire david.justice@unh.edu

Carol Miller, ISP Liaison National Collaborative for Digital Equity <u>cmiller@digitalequity.us</u>

Scott A. Valcourt, PhD, Fiberoptic Pathway Assessor

Northeastern University <u>s.valcourt@northeastern.edu</u>





