

Vermont Community Broadband Implementation Atlas

STONE
ENVIRONMENTAL
100% EMPLOYEE-OWNED

Services / Expertise

Geospatial Data & Solutions
Web Application Development
ArcGIS Online

Technology

ArcGIS Online
ArcGIS Hub Premium
ArcGIS Web App Builder
ArcGIS Experience Builder
ArcGIS Dashboards
Javascript & NodeJS
ArcGIS Pro

Markets

Local and Regional Planning
State Government

Project Location

Vermont—Statewide

Date Completed

2021—Present

Project Owner

Vermont Community Broadband Board

Project ID#

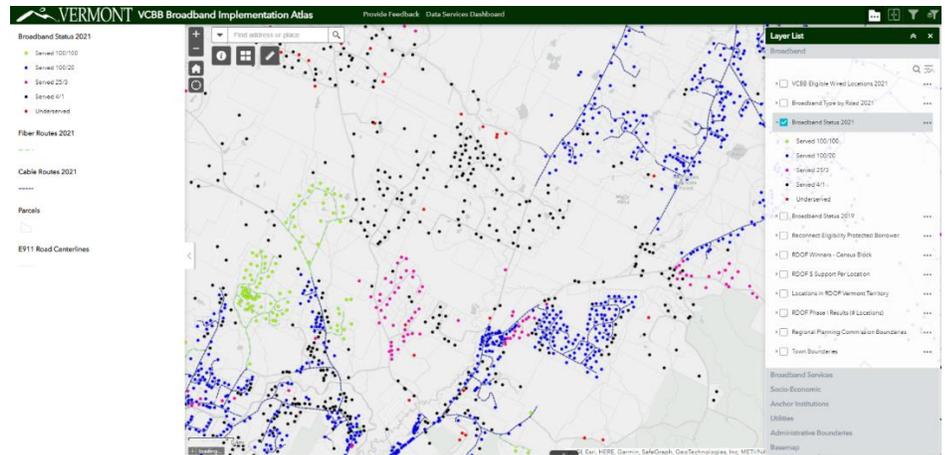
20211239

Project Manager

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Project Team

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The VCB Broadband Implementation Atlas is an interactive map showing a wide variety of GIS data layers that give context to broadband, including utilities, municipalities, and transportation.

BROADBAND has become a vital service in the United States but is essential for those living in rural states such as Vermont. The federal government prioritized expanding broadband capacity in the United States by providing the funding necessary to build broadband to underserved areas of Vermont. Because of the traditional individuality of the towns, counties, and regions in the state, the towns are organized into Communications Union Districts (CUDs) responsible for building broadband in each area while balancing the needs and interests of the member towns. Governor Phil Scott installed the VCB in 2021 to distribute state and federal funding to the CUDs and oversee broadband expansion across the state. The VCB required a GIS approach to track the dollar allocations related to network buildout.

Stone's history of building and using GIS and roots in Vermont made our team a natural fit for the task. Stone designed, implemented, and configured ArcGIS Online, ArcGIS Hub, ArcGIS Dashboards, and ArcGIS StoryMaps for the VCB to capture and track data from the CUDs' implementation work. The CUDs used the same ArcGIS tools to plan their networks and perform outreach to their towns. As is common in Vermont, some CUDs developed their planning solutions and data management systems. Stone collaborated effectively with the CUDs and other private firms to manage the spatial data in different formats. We developed data standards and shared them with the CUDs and collaborators to ensure data could be moved from its source to the data platform. Effective communication is critical in implementing a statewide system, and Stone has played an essential role in maintaining strong communication and providing training to CUDs.

This work is ongoing as broadband implementation continues in Vermont. The VCB requires data submittals to arrive in a specific schema to consistently track the network's progress funded by grants. Stone has further developed specifications to define the data needed to track the progress of network buildout.



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VERMONT Vermont Community Broadband Board Home Data Catalog Data Schema & Training More Sign In

Explore VCBB

The Vermont Community Broadband Board (VCBB) was established by Act 71 (2021), an act relating to accelerated community broadband deployment—to coordinate, facilitate, support, and accelerate the development and implementation of universal community broadband solutions. [Read more about Act 71 \(2021\).](#)

The board will develop policies and programs to accelerate community efforts that advance the state's goal of achieving universal access to reliable, high quality, affordable, fixed broadband achieving speeds of at least 100 Mbps symmetrical.

GIS Data Specifications & Training

Data must be submitted in a specific schema. Access the documentation, template geodatabase and ArcGIS Online training video below.

[View](#)

The ArcGIS Hub site that is currently available for Board Members to access information.

Explore the state's broadband implementation status through focused maps and tools.

Construction Grant Statewide Eligible Wired Locations

VCBB Broadband Implementation Atlas

Communications Union Districts

Dig in to the various datasets that support the VCBB's ongoing oversight and planning.

Search datasets

To view the data in the VCBB Broadband Implementation Atlas as a table, [click here](#). To view in a dashboard, [click here](#).

ACS Population Variables - Boundaries
This layer contains the most current release of data from the American Community Survey...

ACS Median Household Income Variables ...
This layer contains the most current release of data from the American Community Survey...

Opportunity Zones
This layer provides spatial data for all U.S. Decennial Census tracts designated as Qualified...

Colleges and Universities in the United States
This feature layer contains data from Hierarchical Infrastructure Foundation-Level Data (HIFLD)...

County Subdivisions
This feature layer, utilizing National Geospatial Data Asset (NGDA) data from the U.S. ...

VT Public WiFi ? WiFi
Public WiFi hotspots at schools, libraries, town halls, state office buildings, and crowd-sourc...

Hospitals Registered with Medicare
This feature layer, utilizing data from the Centers of Medicare and Medicaid Services, depicts...

Rail Lines
A map service of main rail lines in Vermont including rail trails

