

VERMONT COMMUNITY BROADBAND BOARD

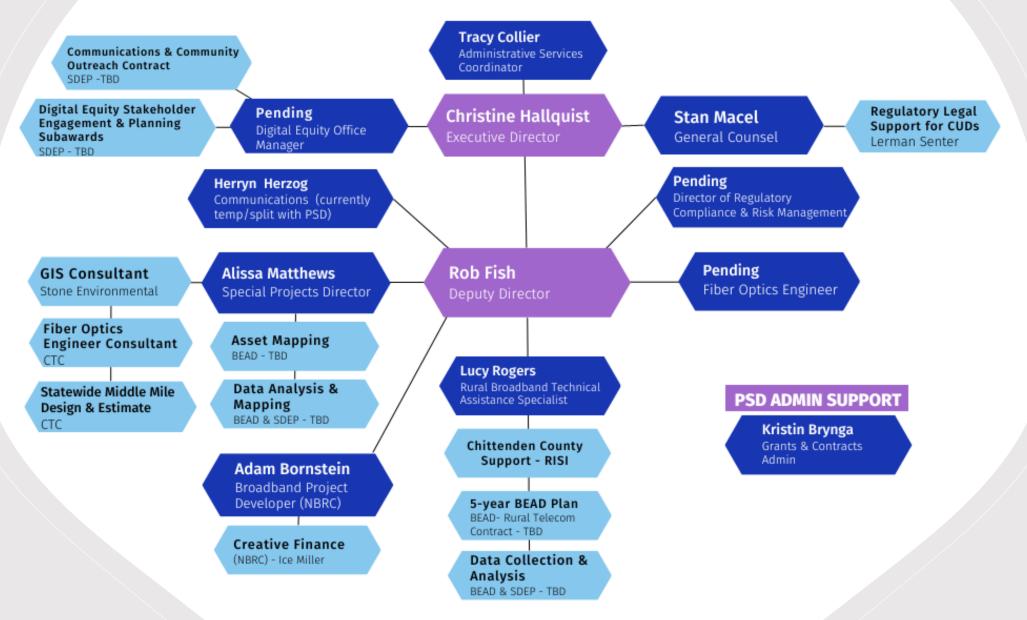
January 10, 2023 Senate Committee on Finance

- Christine Hallquist, Executive Director
- Rob Fish, Deputy Director

https://publicservice.vermont.gov/vcbb



VCBB STAFF & CONTRACT SUPPORT



Public Accountability



First Meeting – August 2021



43 Public Meetings 4 hrs each



Average attendance 30 participants



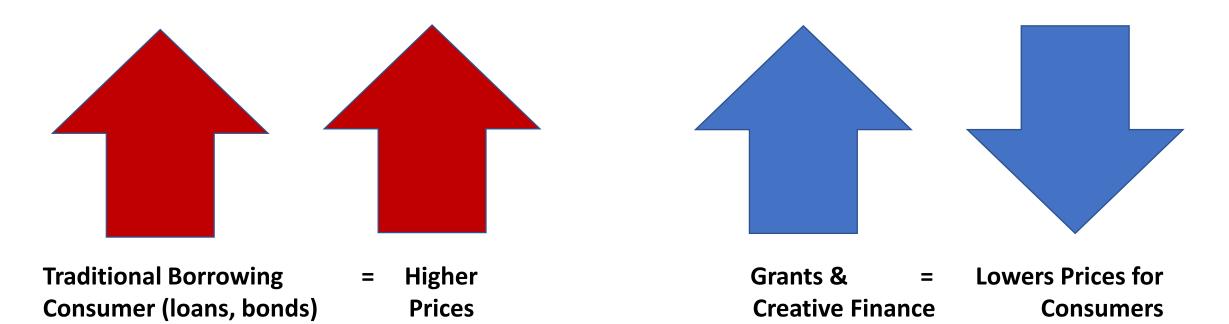
Minutes and Recordings Posted on Website

Goals and Mission

"It is the purpose of the VCBB and **Vermont Community Broadband** Fund to support policies and programs designed to accelerate community efforts that advance the State's goal of achieving universal access to reliable, highquality, affordable, and fixed broadband. The VCBB was created to coordinate, facilitate, support, and accelerate the development and implementation of universal community broadband solutions."

Funding Model

- Grant funding and donations provide initial funding (~ 60%)
- CUDs build and own infrastructure. Operator provides the service
- CUDs access the Revenue Bond Market or other financing to complete the build-out
- Rural Broadband is expensive, but on avg, statewide, every addl \$50M provided in grants reduces consumer rate by about \$10/mo.



Act 71 Grant Programs

Act 71 PreConstruction

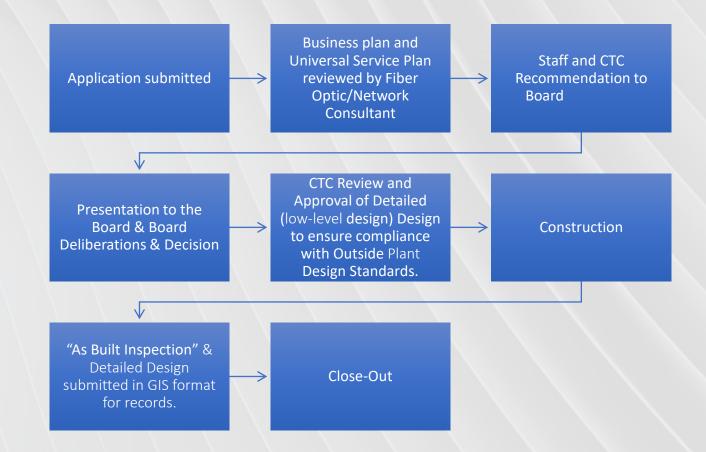
to provide grants to CUDs ("Districts") for preconstruction costs related to broadband projects that are a part of a universal service plan and meet other criteria as specified in Act 71. As provided by Sec. 2 § 8085 of Act 71, eligible costs include expenses for feasibility studies, business planning, pole data surveys, engineering and design, and make-ready work associated with the construction of broadband networks, including consultant, legal, and administrative expenses, and any other cost deemed appropriate by the Board.

Act 71 Construction Program

to provide grants to Eligible Providers ("Providers") for construction costs related to broadband projects providing service of at least 100/100 Mbps that are a part of a Universal Service Plan and meet other criteria as specified in Act 71 as well as those criteria established by the Vermont Community Broadband Board.



Construction Grant Process



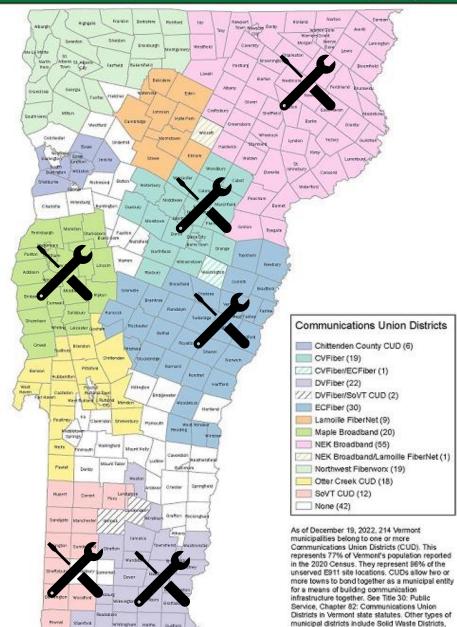
Communications Union Districts

- 10 Districts
- 214 Member Towns
- 428 Volunteer Board Representatives & Alternates
- More than 76% the state's population
- 93% of premises statewide without access to 25/3
- 76% of all serviceable addresses
- Construction in 2022



Communications Union Districts

Vermont Community Broadband Board December 19, 2022

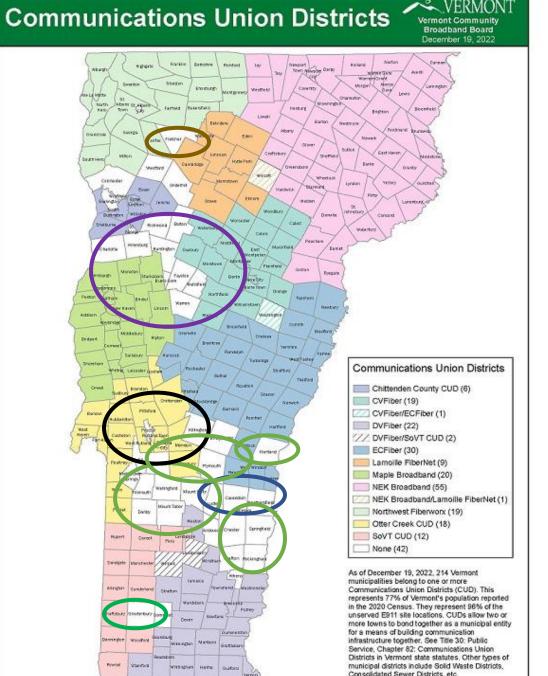


Consolidated Sewer Districts, etc.

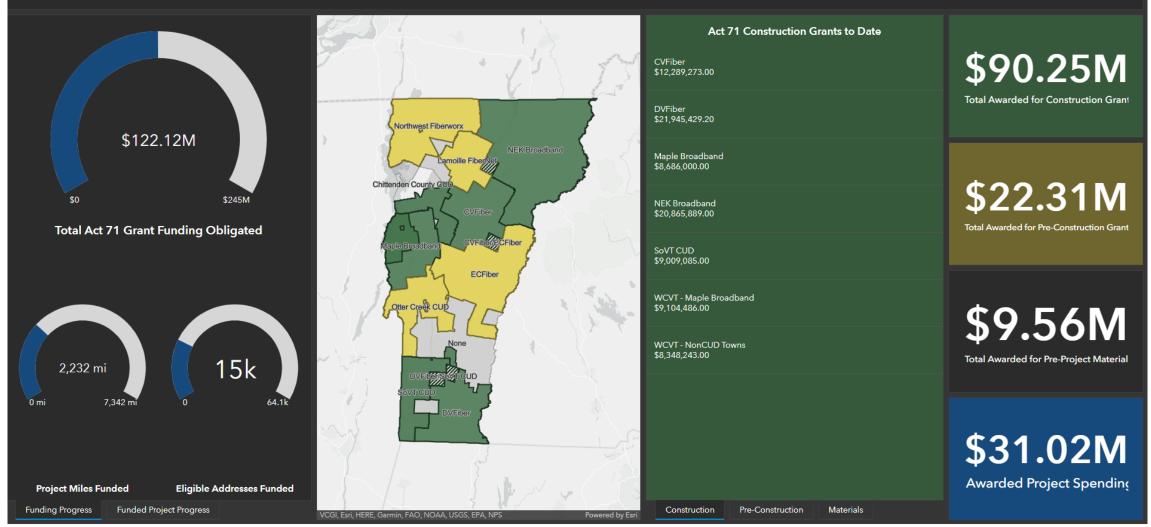
8

Towns Not Members of a CUD

- NBRC grant to MCFiber for Fletcher
- Act 71 Construction Grant issued to build to remaining addresses in phased approach in WCVT towns.
- Towns served with fiber by Consolidated/Fidium or Vtel.
- TDS planning on building fiber to 90%+ addresses. Other areas may be served by ECFiber in the future.
- VTel reports serving addresses within its ILEC territory with fiber.
- SoVT will serve with fiber via partnership with Fidium for Glastonbury.



VERMONT VCBB Act 71 Grant Funding As of December 2022



- \$150 Million in ARPA
- \$95 Million in ARPA Capital
- ~\$100 Million + Infrastructure Bill/BEAD

A LOT OF \$\$ BUT.

- Inflation
- Rising Interest Rates
- Material Shortages
- Workforce Challenges

BEAD Delays

As of December 2022

https://vcbb.maps.arcgis.com/apps/dashboards/75 eb5dd3e4454c18a31ef25d97b3d3da

Board Approved: \$1.8M in new PreConstruction; and \$577k in Materials on 1/9/23

Key Constraints

- Delays with Make-Ready
- Access to Capital
- Access to Materials
- Access to Labor
- FCC Maps & delays with BEAD

With billions of dollars being invested nationwide in fiber optic broadband networks, materials and labor will be two of the most important and difficult constraints to address.

• • • • • • • • • • •

Access to Capital/Materials - Creative

Finance

Creative Finance involves adapting, improvising, and blending traditional financial products and concepts to unlock public and private capital thus increasing the prospect of delivering high-quality outcomes.

Examples of Mechanisms

- Joint Fiber Purchase Backed by Letters of Credit Saved over \$2M and avoided supply chain disruptions.
- Leveraging Existing Programs By granting NEK Broadband \$400,000 they can access a VEDA Loan at a lower rate. The loan will be the matching funds for a \$24M USDA grant.
- Pay-it-Forward Workforce Development Programs
- Climate financing and broadband infrastructure
- Blended finance for digital equity in health
- Environmental, social, and governance (ESG) bonds

Access to Capital - Matching Program

Cornwall Select Board Chair Benjamin Marks said, "I am proud that Cornwall was able to take a leadership role in early ARPA fund allocation to Maple Broadband. The VCBB grant match doubles the good we were able to do with our initial grant and will be an important consideration for our future allocation of ARPA funds. Cornwall is underserved by the legacy DSL copperwire currently in place. I firmly believe that fiber optic service at the highest speeds is necessary for us to function in a 21st century environment. The more Maple Broadband's build-out is funded outside of the debt markets, the lower the cost will be to Cornwall residents who need this vital service."

- The VCBB will match additional contributions from town ARPA up to \$100,000
- The funds will be used during the IIJA -BEAD program for match
- Discuss with your CUD the best use of the funds
 - Accelerating construction
 - Paying for high-cost drops
 - Cover additional areas of town
 - Affordability

To-Date: 40 Towns Have Committed \$2,485,622

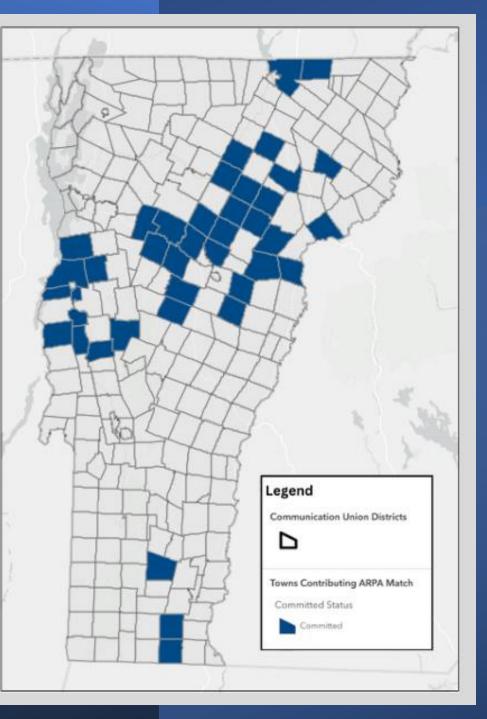
\$833,000	
Calais	\$200,000
Moretown	\$50,000
Roxbury	\$20,000
East Montpelier	\$100,000
Waterbury	\$50,000
Woodbury	\$50,000
Washington	\$20,000
Cabot	\$50,000
Duxbury	\$20,000
Northfield	\$90,000
Middlesex	\$100,000
Worcester	\$53,000
Orange	\$30,000

DVFiber Total Match To-Date: \$86,742		
Marlboro	\$24,642	
Jamaica	\$22,100	
Halifax	\$40,000	

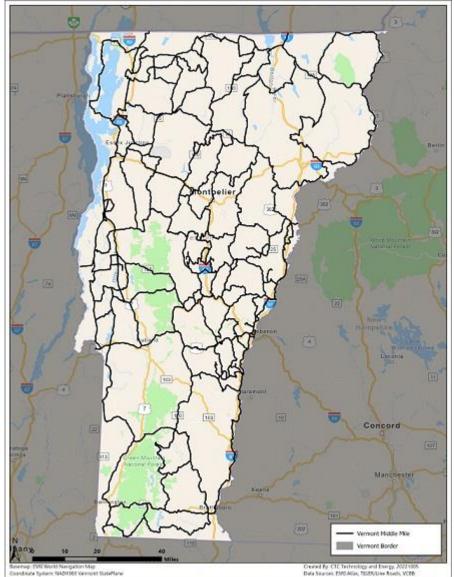
WCVT Total Match To-Date: \$243,830	
Bolton	\$200,000
Charlotte	\$43,830

NEK Broadband Total Match To-Date: \$942,050		
Peacham	\$30,000	
Groton	\$40,800	
Rygate	\$76,000	
Walden	\$40,000	
Hardwick	\$139,800	
Derby	\$72,417	
Waterford	\$110,883	
Wheelock	\$40,900	
Holland	\$123,833	
Craftsbury	\$116,733	
Wolcott	\$52,917	
Glover	\$41,267	
Burke	\$56,500	

Maple Broadband Total Match To-Date: \$380,000		
Bridport	\$40,000	
Cornwall	\$50,000	
Ferrisburgh	\$50,000	
Monkton	\$50,000	
Panton	\$50,000	
Ripton	\$25,000	
Salisbury	\$30,000	
Waltham	\$45,000	
Weybridge	\$40,000	



Middle Mile Application



- Proposes \$114 Million Fiber-Optic Middle Mile Network.
- 1,663 miles total (1,107 new miles, leverages previous state fiber, and IRUs).
- Public control via a Special Purpose Vehicle
- Increases resiliency and redundancy of all networks.
- Addresses public safety concerns around remote host isolation.
- Accelerates deployment of last mile and reduces end cost to consumer.
- Developed via discussions with CUDS and Private Telecoms.
- Match: \$30M General Funds & \$16M in-kind using existing public and private assets.

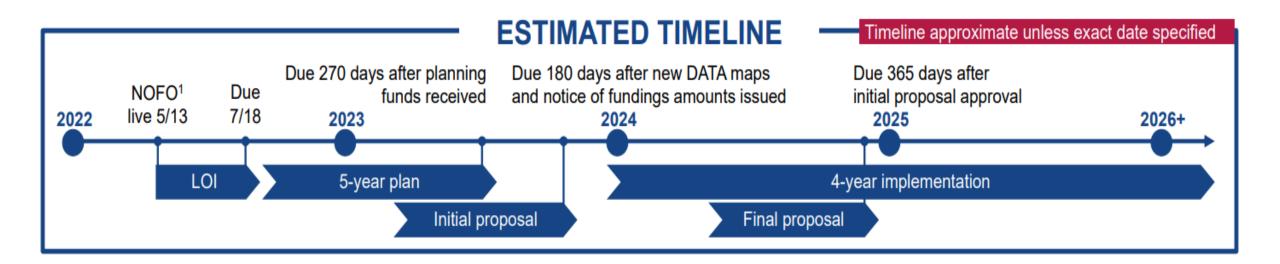
For illustrative purposes only

Workforce Development

Build-out requires the construction of 8,000 miles of fiber over a 5-year period, 200 fiber optic technicians, as well as interrelated jobs, such as tree-trimmers and electric utility lineworkers.

- The Workforce Development Plan includes apprenticeship programs, tuition assistance, job placement, an earn-to-learn program, a centralized resource for sourcing workers
- Targeting, recruiting, and training people to work on all aspects of universal build-out of broadband
- Collaboration including VCBB, Vermont Department of Labor, the Vermont Agency of Commerce and Community Development, CUDs, the Vermont Technical College, Vermont State Colleges, and industry leaders

Broadband Equity, Access, and Deployment (BEAD) Program Delays



FCC Map Challenges

- <u>Locations</u> 11% of the locations in the FCC Map didn't match Vermont's. An additional 22% of addresses in the Vermont database didn't appear in the federal map.
- <u>Availability</u> Up to 20,000 addresses may be reported inaccurately.
- Each address that's corrected could mean \$4,000-\$5,000 in additional federal funding.

= Millions more to connect Vermonters and make it affordable

Vermont Community Broadband Board

• Questions?

Christine Hallquist, Executive Director Vermont Community Broadband Board <u>Christine.Hallquist@vermont.gov</u>

Communications Union Districts Contact info: <u>https://publicservice.vermont.gov/content/ver</u> <u>mont-communications-union-districts</u>

