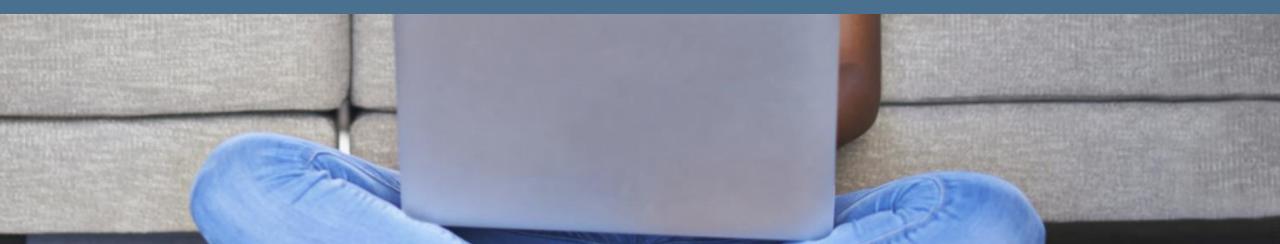


High Speed Internet Feasibility Study for the Town of Westport





Prepared in collaboration with the Westport Internet Advisory Committee and EntryPoint Networks.



ESSENTIAL INFRASTRUCTURE – DIGITAL ROADS





If Today's Road Systems Worked Like Current Incumbent Broadband Networks Closed Infrastructure

NETWORK INFRASTRUCTURE AS A UTILITY



Open Broadband Networks or Broadband Infrastructure as a Utility Open Infrastructure



KEY PRINCIPLES



- Nobody will be forced to participate. (Participation would be on a voluntary, optin basis).
- 2. Any Town revenues used to initiate the network will be refunded.
- 3. The ongoing operation of the network would be self-sustaining and not dependent on any kind of subsidy from the Town.

KEY OBJECTIVES



- Significantly increase the speed and reliability of internet access.
- Lower the cost of internet access for both residents and businesses.
- Increase competition & choice with four to five new Internet Service Providers (ISPs).
- Build a state-of-the-art network that will foster economic development and the ability to work from home.
- Leverage the network to improve the available services, including public safety, healthcare, education, etc.

SURVEY RESULTS - 2021



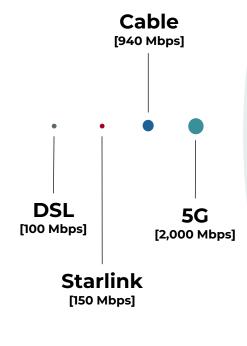
Two surveys were conducted targeting Westport residents and business owners to understand opinions regarding current internet services and future needs. A total of <u>543 residents</u> and <u>54 businesses</u> completed the surveys.

The major findings from these two surveys are that <u>there is considerable</u> <u>dissatisfaction with current internet services for many reasons but</u> <u>primarily for unreliability, cost, and lack of provider choice</u>. Most respondents indicate that they depend heavily on the internet, that their dependence increased significantly during the pandemic, and many expect that trend will continue in the post-pandemic era.

The survey of business owners indicated that internet speed is very important for their business and that <u>80% would welcome access to a higher-speed fiber optic network</u>.

WHY FIBER? - COMPARISON BY MEDIUM

Current Maximum Download Speeds



Fiber

25 Tbps [25,000,000 Mbps]

PROJECTED MONTHLY COST (1,000 x 1,000 Mbps)



Projected Subscription Cost (Gig Speed)

Projected Residential Services Monthly Costs	40% Take-Rate	50% Take-Rate	60% Take-Rate
Infrastructure	\$49.56	\$40.58	\$34.61
Maintenance and Operations	\$21.50	\$21.50	\$21.50
ISP Services (Dedicated 1 GB Symmetrical)	\$9.99	\$9.99	\$9.99
Public Access Programs	\$4.00	\$4.00	\$4.00
Monthly Total	\$85.05	\$76.07	\$70.10

TOTAL PROJECTED CAPITAL COST

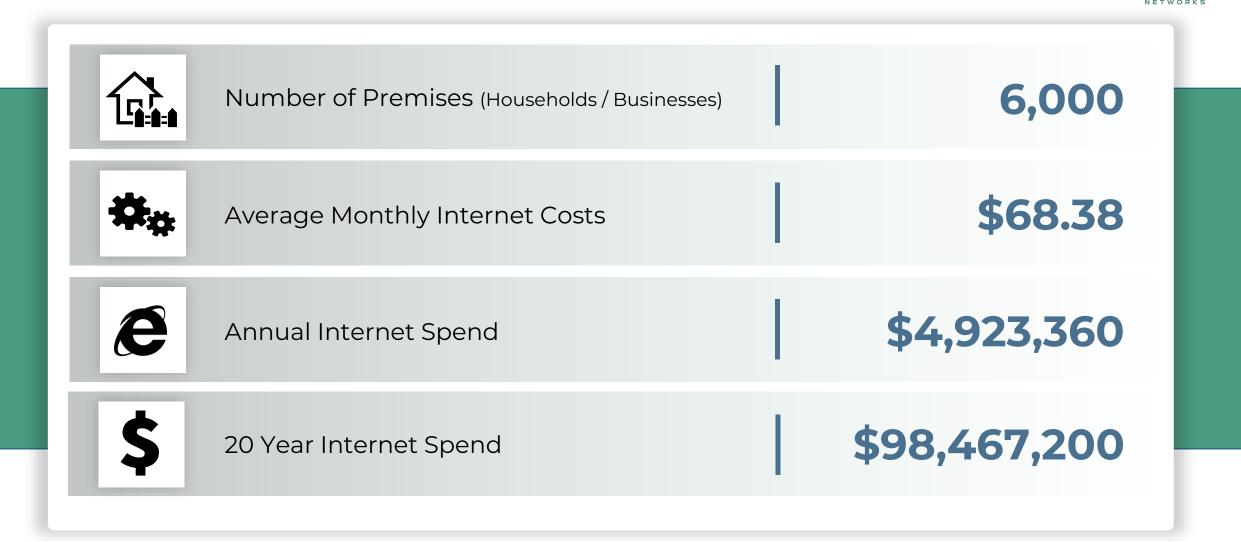


Projected Infrastructure Investment Total Costs

Financial Pro-Forma of Full Project Costs - Two Year Build - Ethernet Architecture

Network Segment	40% Take-Rate	50% Take-Rate	60% Take-Rate
Common*	\$18,864,949	\$18,864,949	\$18,864,949
Drop*	\$1,992,066	\$2,490,082	\$2,988,383
Total Projected Costs	\$20,857,015	\$21,355,031	\$21,853,332

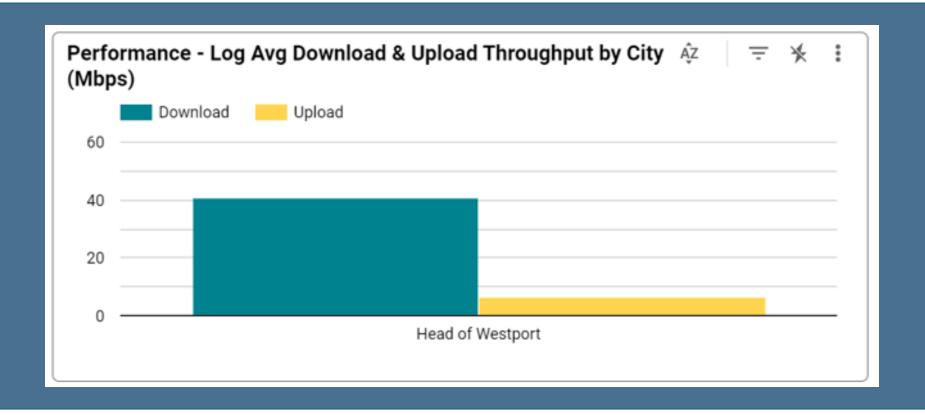
THE MONEY IS ALREADY HERE



CURRENT SPEEDS (Data from mLABs)



The average speed by Spectrum in Westport is 47.58 Mbps download / 6.97 Mbps upload



COMPLETED WORK

- 1. 2021 Survey.
- 2. Identify sections of the Town for a phased implementation.
- 3. Ran fiber backbone through the center of town with enough capacity to expand into the community.
- 4. Identified the location of additional fiber loops off the backbone and started the work to construct two of the six using grant money.
- 5. In the process of connecting all the Town sites to that backbone.
- 6. Created a high-level engineering drawing.

NEXT STEPS



- **1.** Identify sections of the Town for a phased implementation.
- 2. Determine the appropriate governance structure.
- **3.** Decide on the project phasing for a deployment.
- 4. Identify middle mile options and costs.
- 5. Select an open access and Owners Representative partner.
- 6. Select a design / engineering partner.
- 7. Select a construction partner.
- 8. Refine the strategy for financing a phased townwide construction project.
- 9. Develop and implement a community engagement strategy for the initial phase(s).



THE FEDERAL GOVERNMENT WILL RELEASE \$42 - \$65 BILLION IN BROADBAND GRANTS OVER THE NEXT 3 YEARS

THE PROJECT PENCILS WITHOUT THE GRANTS

BUT WESTPORT SHOULD PURSUE ALL GRANT OPPORTUNITIES

EntryPoint, LLC - All Rights Reserved



Robust Community Engagement is Key to Success

- Determine whether the Town will use an outside community engagement resources.
- Develop the project plan for all involved parties
- Organize additional survey work.
- Develop a web presence.
- Conduct direct signup outreach.
- Implement grassroots initiatives.

Thank You

Questions?

