

City of Fitchburg

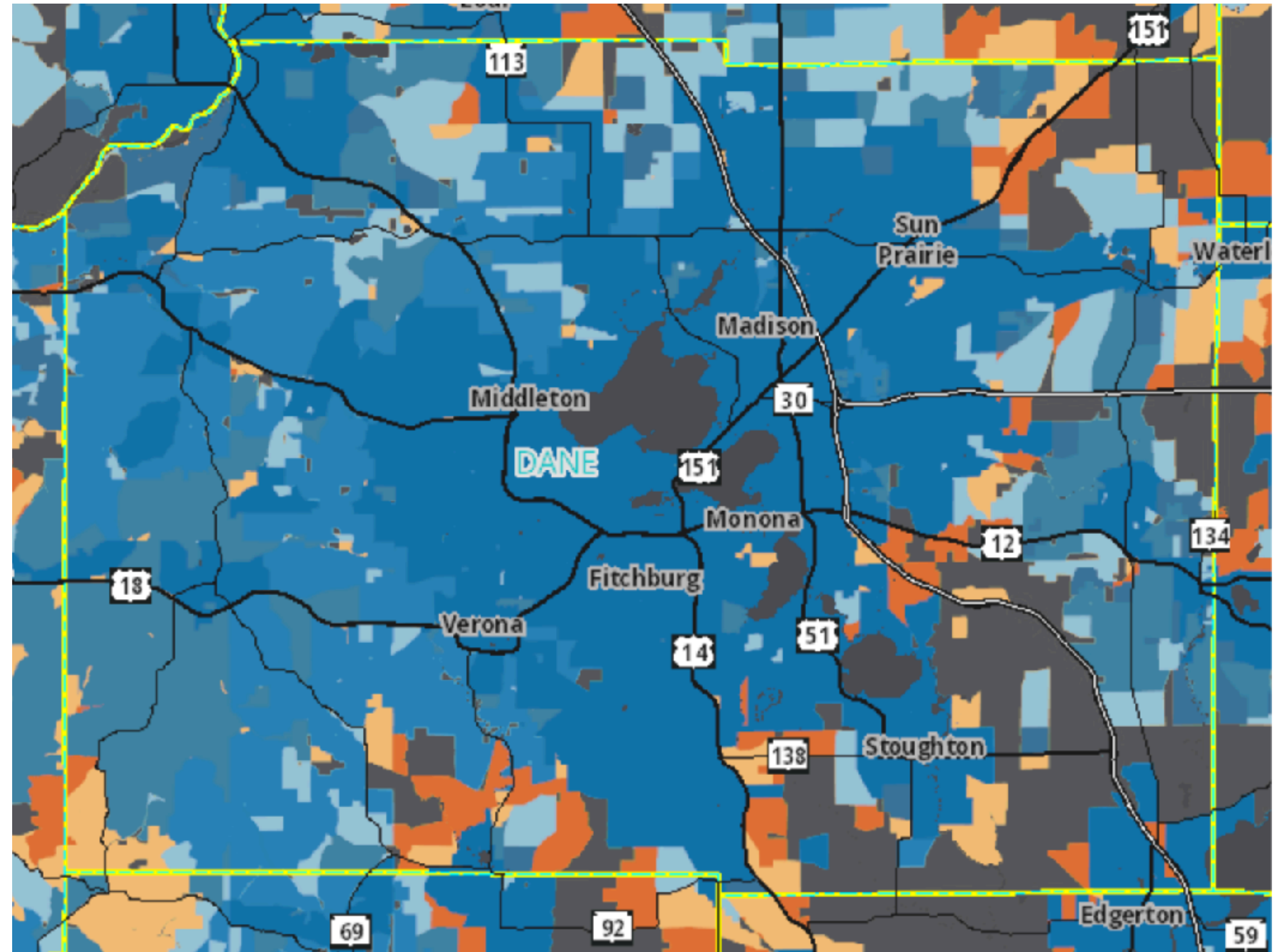
Broadband Presentation, Date 2-16-2021

**Jeremy Crosby, Community Media Services Manger
Fitchburg Access Community Television-FACTv**



City of Fitchburg Broadband Presentation

- Definitions
- Infrastructure
- Federal, State, Local
- Speeds & Testing Speeds
- City Broadband Assessment
- Providers
- WI Broadband Grant
- Future of Broadband



Definitions

Broadband Service for the Home: A Consumer's Guide

The FCC's first-ever test of broadband speeds across the country, [Measuring Broadband America](#), compares providers, technologies and the actual speeds they provide. Here's a step-by-step guide to using that information, and other resources, to make choices about the kind of broadband service that's best for you.

1. What is broadband speed?

Every page, image and video on the web comes to your home device as small pieces of data, or packets. How fast these packets move on the network is measured in Megabits per second, abbreviated Mbps. Broadband technology can move those packets to and from your home much more quickly than dial-up access using a modem and telephone line. A broadband connection has two speeds: download and upload. Download speed is the speed of getting information from the web to your computer, and upload speed is the reverse.

2. What speed do you need?

You may go online to monitor a health condition; watch high-definition (HD) movies or watch videos for the latest news; get your children's homework assignments via email; or log on to a real-time, interactive classroom. Whatever your goals, you'll need a broadband Internet service that works predictably and dependably. And keep in mind that the next generation of devices and applications may require faster speeds.

If you're interested in the speed you need for a particular online activity, see the FCC's [Broadband Speed Guide](#). This guide shows the minimum download speed that's needed for good performance for each kind of activity.

Higher speeds than the minimums in this chart can give you better performance, up to a point. [Measuring Broadband Across America](#) found that the ease of basic web browsing – measured by the time it takes to download a page – improves with higher speeds up to 10 Mbps, but not beyond. However, higher speeds may be beneficial for demanding applications such as HD streaming video.

Definitions

Internet Speed Glossary

- **Bandwidth** – Bandwidth measures the total number of frequencies, or capacity, a network connection can handle at any given moment. The higher the bandwidth, the faster your internet speed.
- **Broadband** – Broadband basically tells you how fast your internet connection is.
- **Bit** – Internet speed is measured in bits per second (bps). This is the smallest unit of computer information, so you'll often see internet speeds referred to as megabits per second (Mbps).
- **Byte** – 1 byte is equal to 8 bits. We use bytes to refer to how much memory is available or being transferred.
- **Download** – This tells you how quickly information from external sources is received by your router.
- **Latency** – Latency measures the delay in data transfer, telling you how fast data gets from a source to its destination.
- **Mbps** – “Megabits per second” is how we gauge internet speeds. This number represents the bandwidth of an internet connection, which is how much data can be transferred each second.

Definitions

Internet Speed Glossary

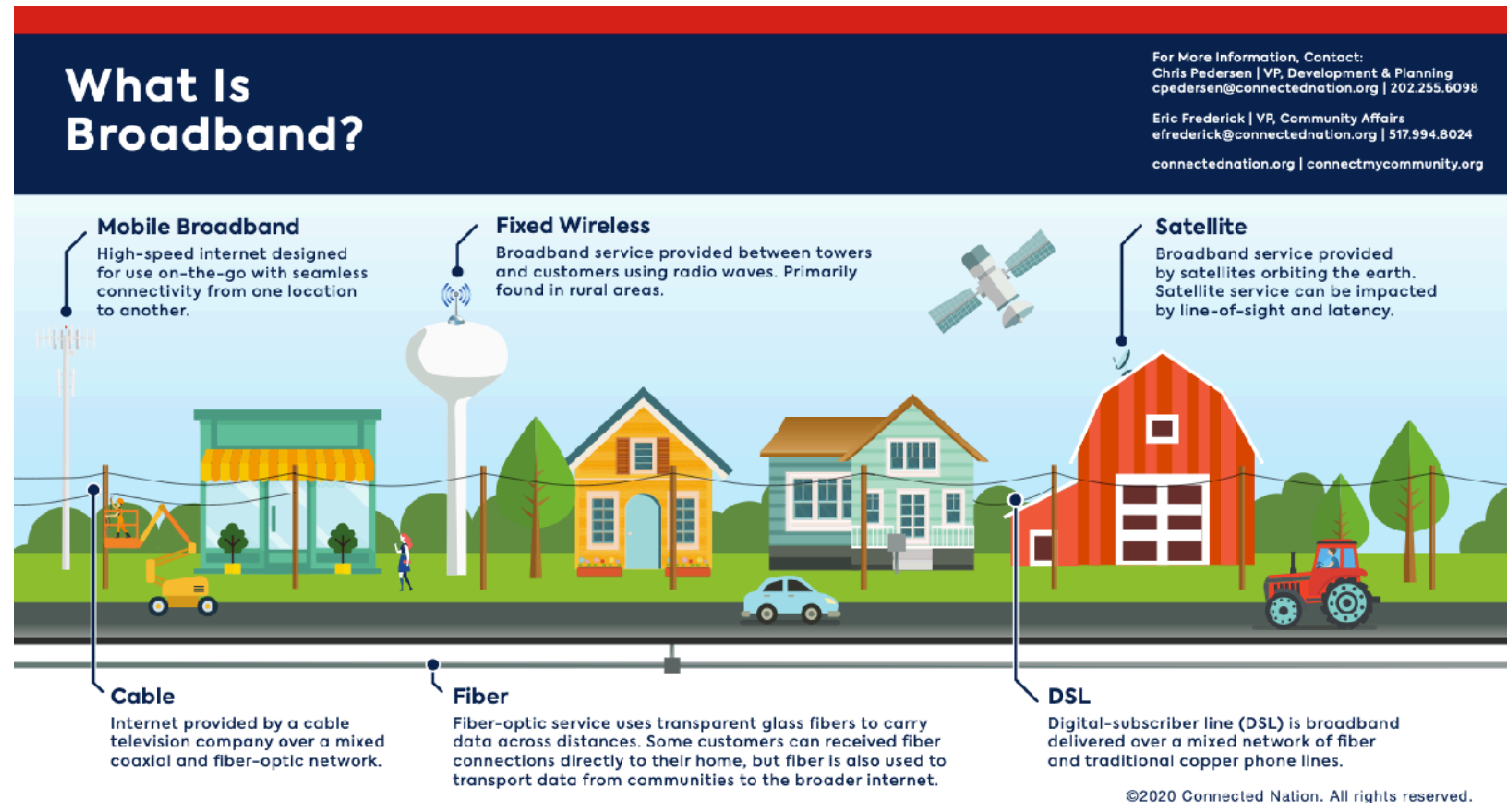
- **MBps** – “Megabytes per second” measures the file size when talking about how much data can be transferred each second. You might also see this figure represented as MB.
- **Modem** – The modem is what connects the devices on your private network to external global networks.
- **Ping** – A ping is a test which determines if a server is reachable. The test sends a data packet to the server to see if the data comes back.
- **Ping time** – Measured in milliseconds, ping time tells you how fast a data packet travels to the server and back. If your connection doesn't register the data request for a couple of seconds, you may see a lag in your connection.
- **Router** – This piece of hardware is at the center of private internet networks. It facilitates all of the connections between devices and your network.
- **Upload** – This tells you how quickly information from your network is sent to external networks.
- **Wi-Fi** – Wi-Fi offers a wireless internet connection, negating the need for devices to connect via hardware, such as an ethernet cable.

Definitions

Internet Connection Types

- **Cable** – Recommended for moderate users who enjoy web browsing, streaming movies and music, gaming and video chats. Largest providers include Spectrum and Xfinity, despite widespread availability.
- **Dial-up** – Recommended for occasional to light usage, such as budget-friendly users who enjoy casually browsing and checking email, social media and news updates. The largest provider is AOL.
- **DSL** – Recommended for moderate users who enjoy streaming, browsing and gaming. Largest providers include AT&T, CenturyLink and Windstream.
- **Fiber-optic** – Recommended for avid users who enjoy streaming, gaming, video chats and downloading large files on the fastest speeds available. The largest provider is Verizon Fios.
- **Fixed wireless** – Recommended for moderate users who enjoy streaming, browsing and gaming. Largest providers include AT&T Fixed Wireless and Rise Broadband.
- **Satellite** – Recommended for light to moderate internet users who enjoy streaming music and movies. Largest providers include HughesNet and Viasat, formerly Exede.

Infrastructure



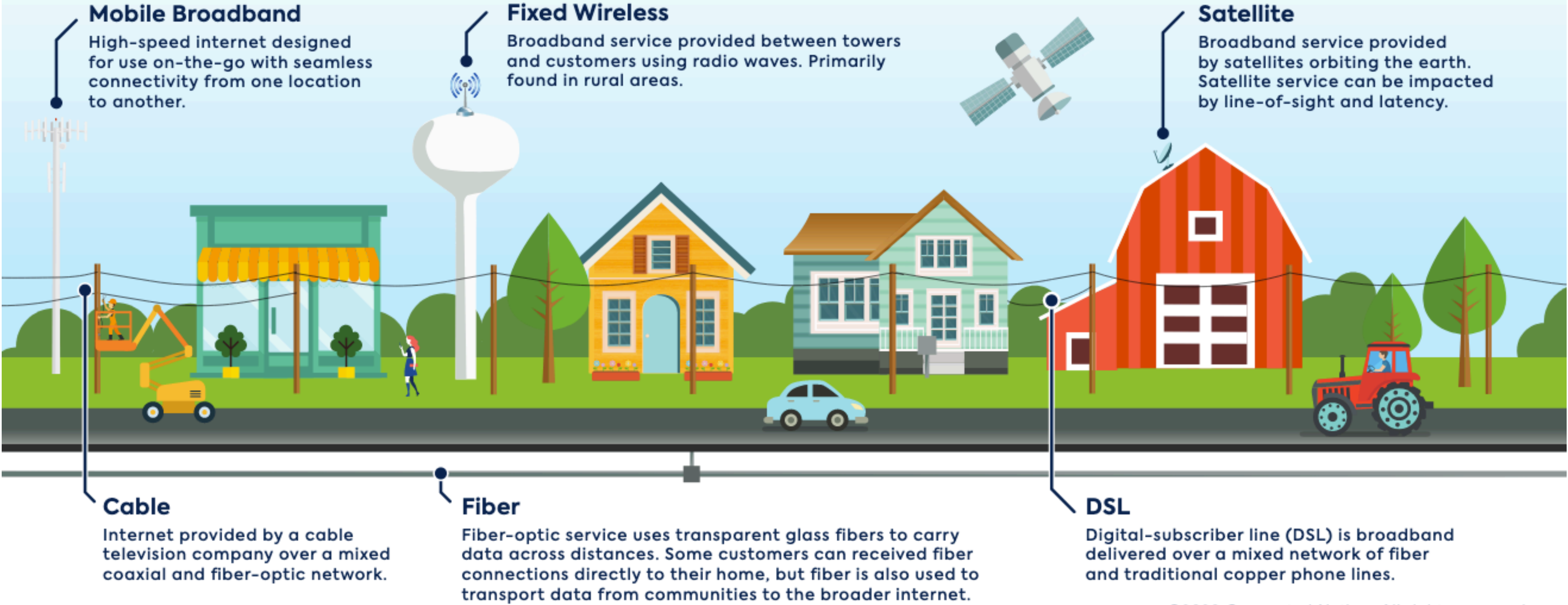
Infrastructure

What Is Broadband?

For More Information, Contact:
Chris Pedersen | VP, Development & Planning
cpedersen@connectednation.org | 202.255.6098

Eric Frederick | VP, Community Affairs
efrederick@connectednation.org | 517.994.8024

connectednation.org | connectmycommunity.org



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Image Source: https://connectednation.org/wp-content/uploads/2020/12/CN_WHATISBROADBAND_2020_ONLINE-updated.pdf://www.pud3.org/service/additional-services/pud-3-fiber-optic-network/underground-fiber-service

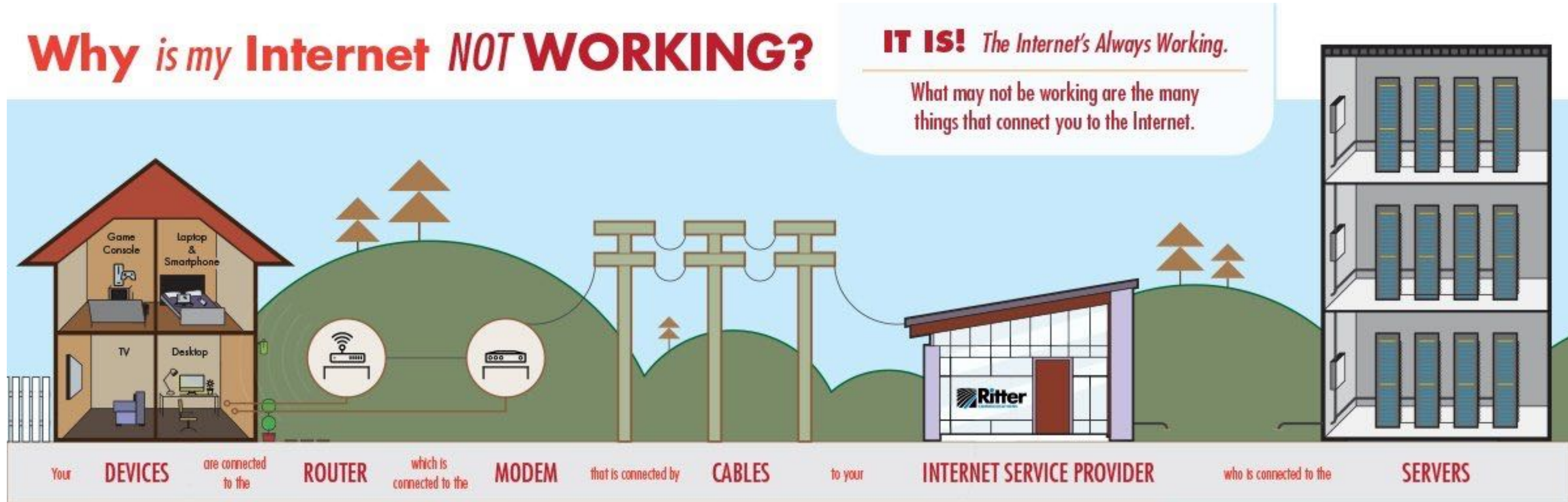
Infrastructure

How does the internet travel to our homes?

Why is my Internet NOT WORKING?

IT IS! *The Internet's Always Working.*

What may not be working are the many things that connect you to the Internet.



It's easy to see how quickly your Internet can "stop working," considering all the avenues it has to travel through in order to get to you!



Right by You™

Infrastructure

How does the internet travel to our homes?

- Cable internet service uses the same coaxial cable network as cable television to provide your home with internet.
- First, your internet service provider sends a data signal through the coaxial cable, or coax cable, into your home—specifically, to your modem.

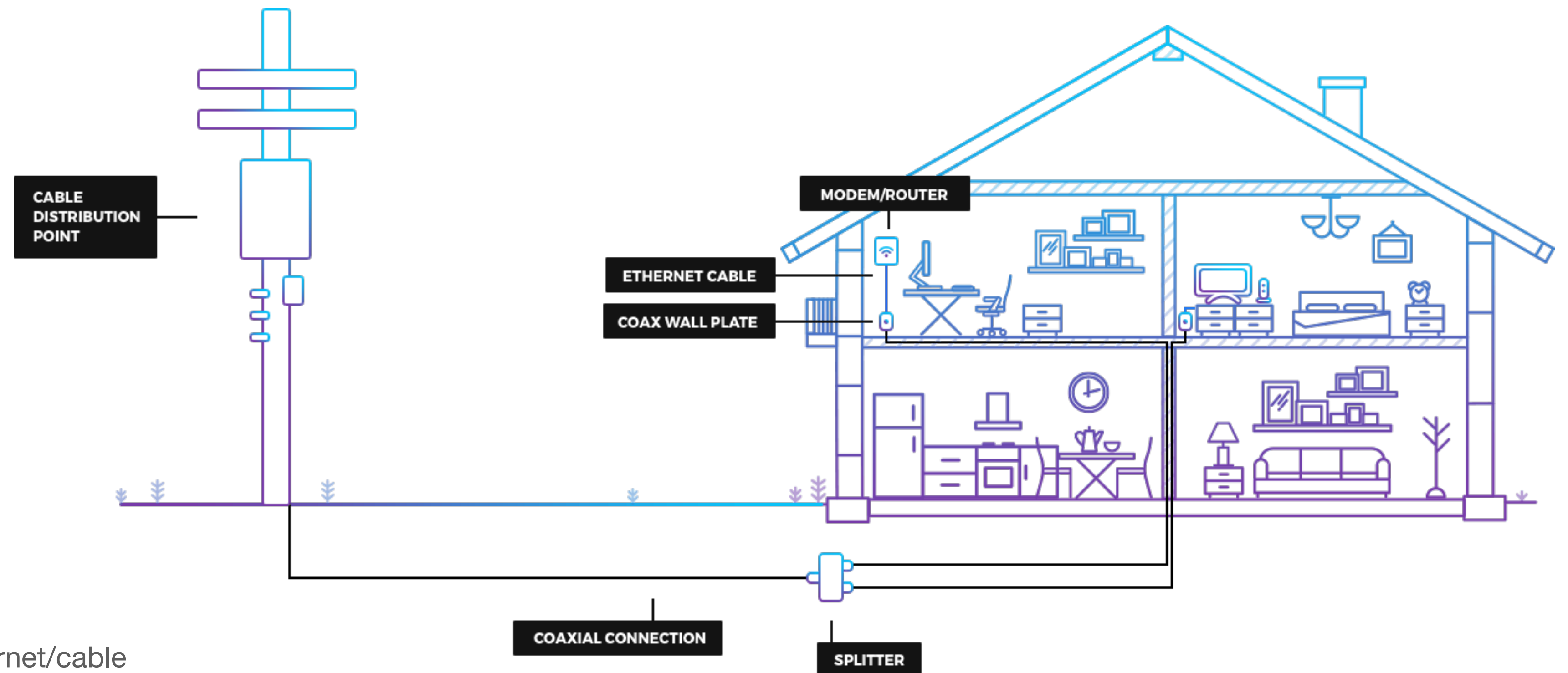


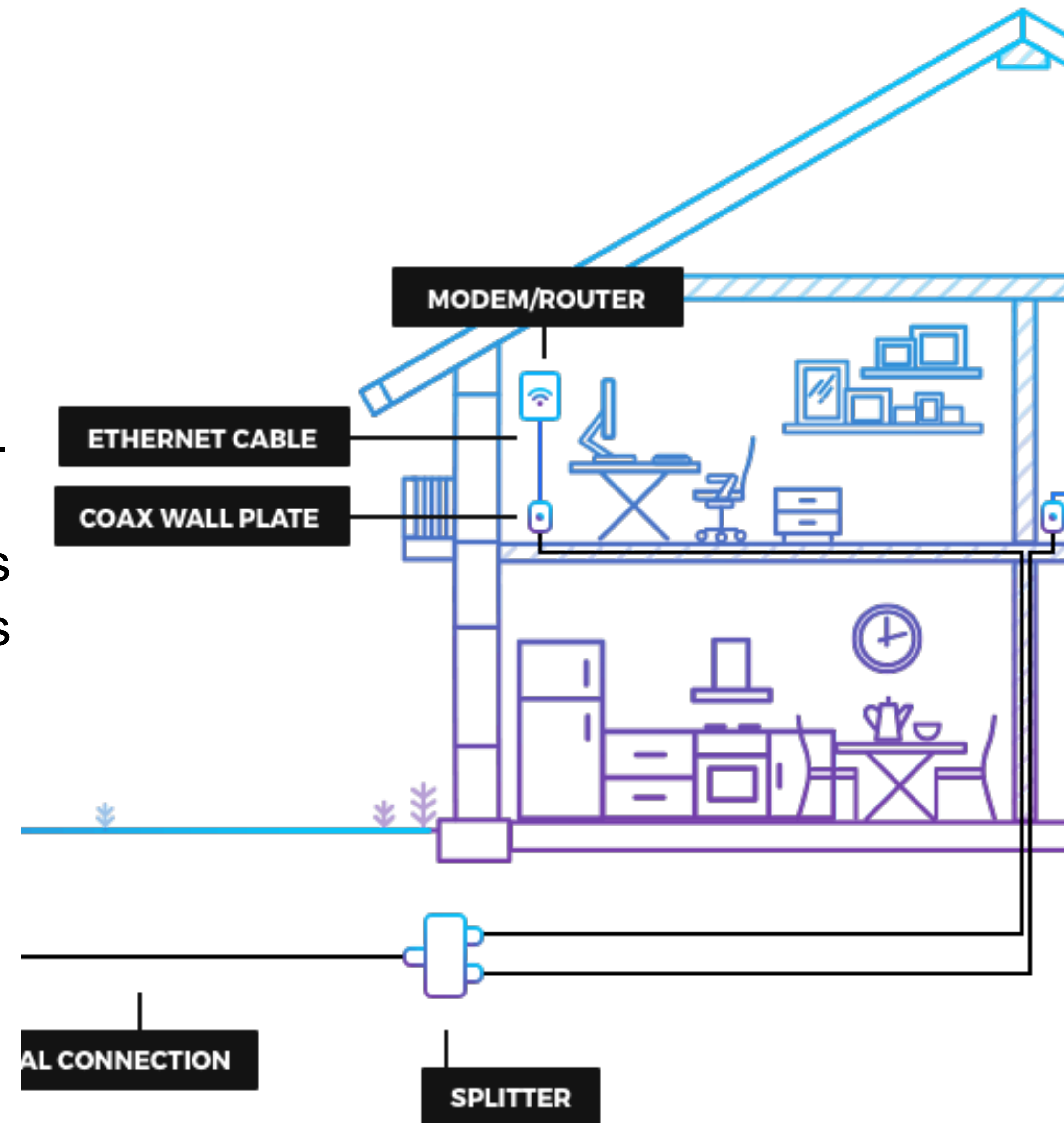
Image Source: <https://www.inmyarea.com/internet/cable>

Source: <https://www.reviews.org/internet-service/cable-internet-work/>

Infrastructure

How does the internet get into homes?

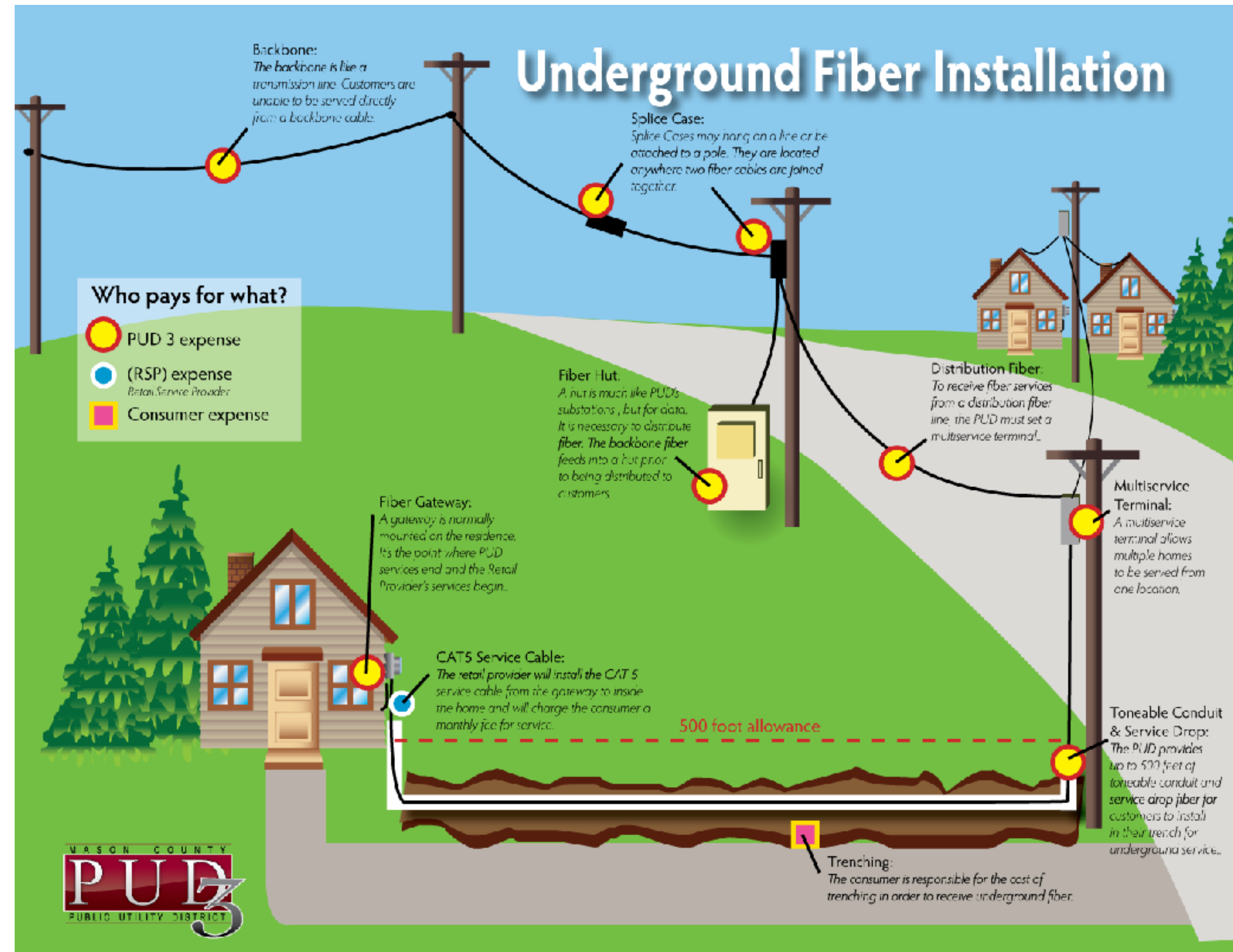
- The modem then uses an Ethernet cable to connect to your computer or router, which is what gives you access to high-speed internet. If you choose to use a router, you can then broadcast a Wi-Fi signal throughout your home.
- Cable internet service providers transmit data between servers using this coaxial cable, and since TV itself takes up only a small portion of the cable's bandwidth, it leaves room for internet service to work within the same network.



Infrastructure

How does the internet get into homes?

- These cable networks stretch all across the country, and there are even undersea cables that reach between water-separated areas. Plus, cable internet can spread speeds evenly among individual users. It also means that if you pay more, you have access to more bandwidth, which means faster speeds.



Federal, State, Local



Federal, State, Local

Federal- FCC



The Federal Communications Commission regulates interstate and international communications by radio, television, wire, satellite and cable in all 50 states, the District of Columbia and U.S. territories. An independent U.S. government agency overseen by Congress, the commission is the United States' primary authority for communications law, regulation and technological innovation. In its work facing economic opportunities and challenges associated with rapidly evolving advances in global communications, the agency capitalizes on its competencies in:

- Promoting competition, innovation and investment in broadband services and facilities
- Supporting the nation's economy by ensuring an appropriate competitive framework for the unfolding of the communications revolution
- Encouraging the highest and best use of spectrum domestically and internationally
- Revising media regulations so that new technologies flourish alongside diversity and localism
- Providing leadership in strengthening the defense of the nation's communications infrastructure

Federal, State, Local Federal- FCC

Bridging the Digital Divide

High-speed Internet access, or broadband, is critical to economic opportunity, job creation, education, and civic engagement. But there are too many parts of this country where broadband is unavailable. In urban areas, 97% of Americans have access to high-speed fixed service. In rural areas, that number falls to 65%. And on Tribal lands, barely 60% have access. All told, nearly 30 million Americans cannot reap the benefits of the digital age.



The screenshot shows the FCC website's page for 'Bridging The Digital Divide For All Americans'. The page features a navigation bar with the FCC logo, 'Browse by CATEGORY', 'Browse by BUREAUS & OFFICES', and a search bar. Below the navigation bar, there are links for 'About the FCC', 'Proceedings & Actions', 'Licensing & Databases', 'Reports & Research', 'News & Events', and 'For Consumers'. The main content area includes a breadcrumb trail 'Home / About the FCC / FCC Initiatives /', the title 'Bridging The Digital Divide For All Americans', and a graphic of a suspension bridge with colorful lines representing data or connectivity. Below the graphic, there is a section titled 'Bridging the Digital Divide' with a paragraph of text, a 'Key Initiatives' section with a list of bullet points, and a 'Featured' section with a news release link. A small accessibility icon is visible in the bottom right corner.

Home / About the FCC / FCC Initiatives /

Bridging The Digital Divide For All Americans



Bridging the Digital Divide

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Key Initiatives

The FCC has moved aggressively to expand broadband across America. Initiatives include:


- Starting a process to solve the Homework Gap by [seeking comment on several petitions](#) requesting permission to use E-Rate program funds to support remote learning during the COVID-19 pandemic.
- Expanding broadband accessibility and affordability during the COVID-19 pandemic by initiating the \$3.2 billion [Emergency Broadband Benefit Program](#) to enable eligible households to receive a discount on the cost of broadband service and certain

Featured

News Release
[FCC Announces Roundtable on Emergency Broadband Benefit Program](#)

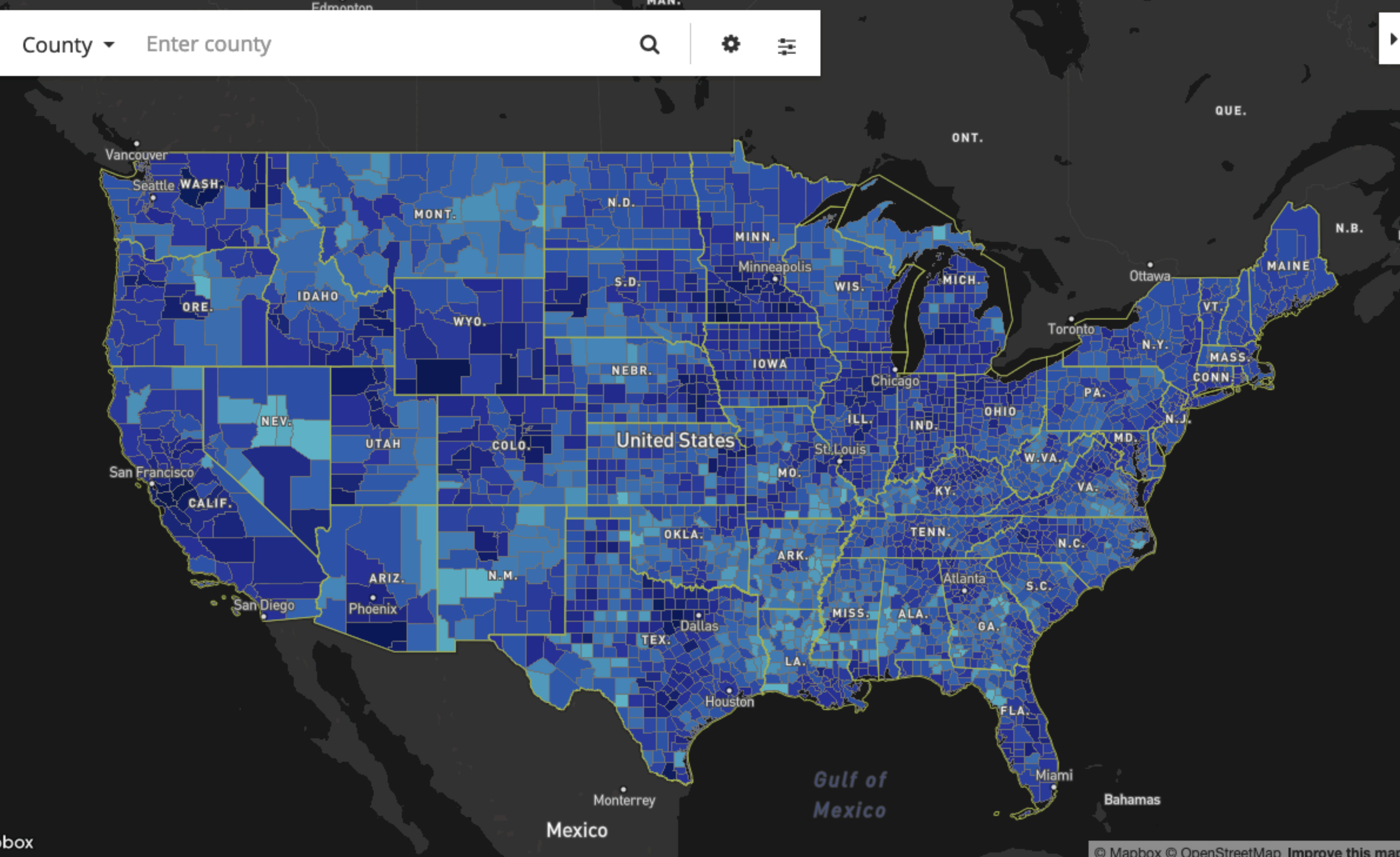
City Broadband Assessment

Federal-FCC Broadband Map


Federal Communications Commission
Fixed Broadband Deployment

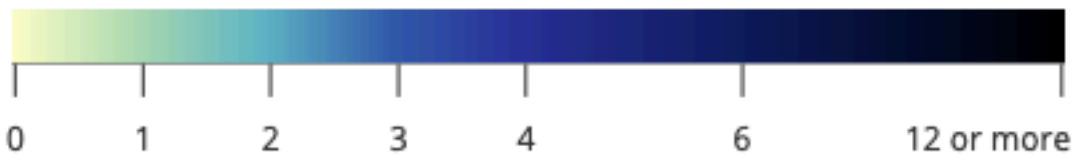
Home Location Summary Area Summary Area Comparison Provider Detail Data Download About

County ▾



Nationwide

Number of Fixed Residential Broadband Providers

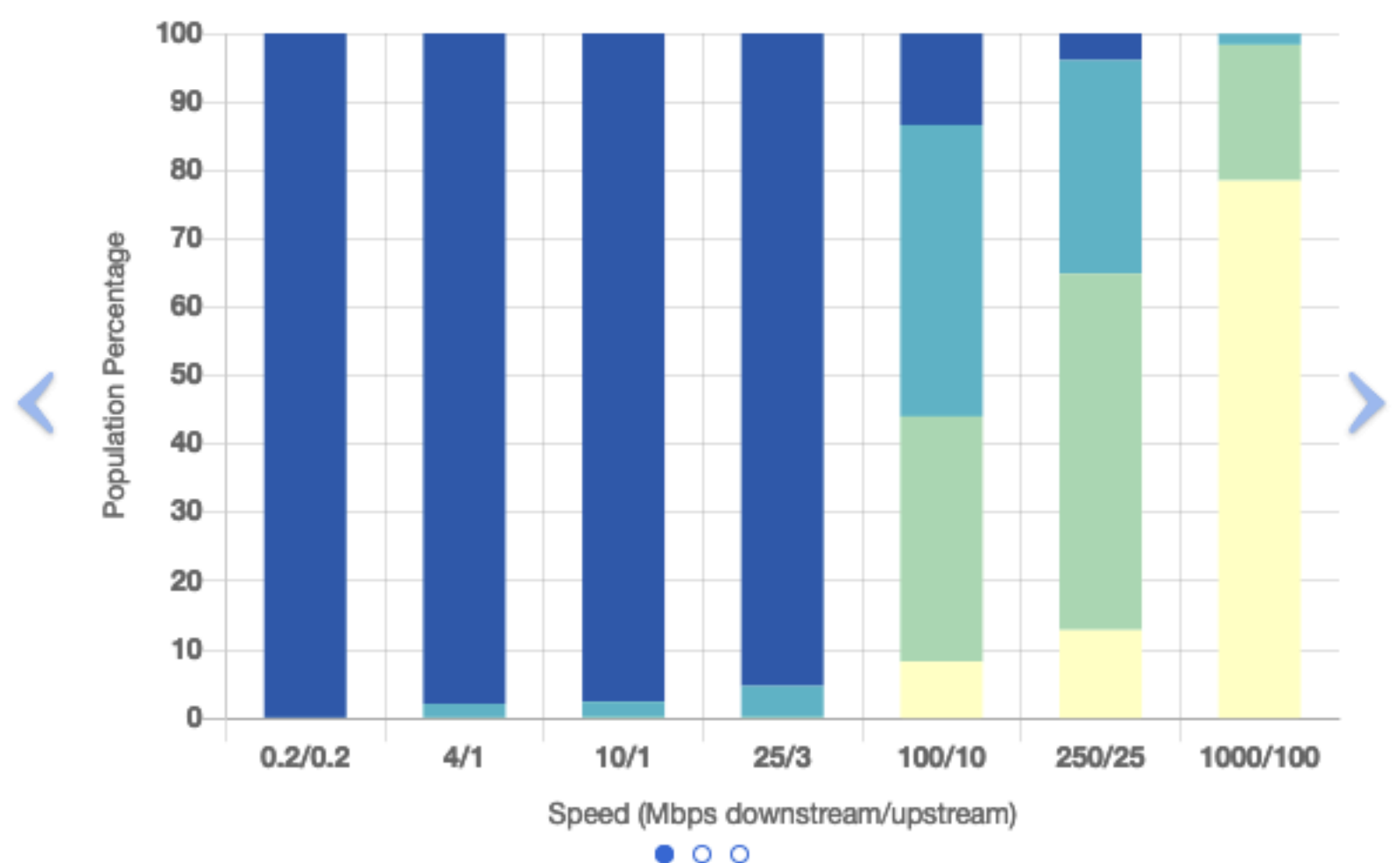


Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other

Speed ≥ 25/3 Mbps

Date Dec. 2019 *(latest public release)*



Speed (Mbps downstream/upstream)	Population Percentage
0.2/0.2	~100%
4/1	~100%
10/1	~100%
25/3	~100%
100/10	~100%
250/25	~100%
1000/100	~100%

Federal, State, Local

State- PSC

Mission Statement:

The PSC of Wisconsin ensures safe, reliable, affordable, and environmentally responsible utility services and equitable access to telecommunications and broadband services.

To carry out our mission, the PSC:

- Values diversity in the work place, allowing employees to fully develop and contribute their individual skills in meeting the needs of our diverse customer base;
- Ensures fair pricing for utility services to customers and to utility investors;
- Sets quality standards for utility services and ensures that the standards are met or exceeded;
- Ensures reliability so there will be sufficient resources, facilities and alternatives available to meet the needs of present and future utility customers at a reasonable price;
- Ensures utility services are provided in an efficient and environmentally responsible manner;
- Protects the interests of both investors and customers and ensures that securities issued by utilities meet the needs of utilities;
- Provides fairness in transactions between utilities and their customers, other utilities, and other entities specifically provided protection by law;
- Adjusts our oversight of utilities according to the level of competition in their markets and according to the degree of customer satisfaction with their services;
- Educates Wisconsin citizens on utility issues and promotes their involvement in our decision-making process.

In all of the above, the PSC considers and balances diverse perspectives and endeavors to protect the environment, public interest, and public health and welfare.

Federal, State, Local State- PSC



FOR IMMEDIATE RELEASE

Monday, December 7, 2020

Contact: Jerel Ballard, 608-266-9600

jerel.ballard@wisconsin.gov

PSC Receives 124 Applications requesting more than \$62 Million for State Broadband Expansion Grants

MADISON – The Public Service Commission of Wisconsin (PSC) announced today that it received 124 applications requesting more than \$62 million in the most recent round of funding in the State Broadband Expansion Grants program. The applications seek to fund projects that will expand high-speed broadband internet access to underserved areas of the state. This is the second round of funding appropriated in the 2019-2021 state biennial budget and the highest request for broadband expansion grants in the state's history. Since last year, the PSC has received more than \$112 million in requests to fund the expansion of broadband internet.

"Once again, we received an overwhelming response demonstrating an immense need for funding to provide broadband service. This spring we will decide which projects to fund, but clearly, there is a pattern of higher demand for these grants than what is available", said PSC Chairperson Rebecca Cameron Valcq. "Governor Evers' commitment to connect all of our residents is unwavering and I want to thank him for this investment."

"We hear from folks around the state about the need for access to high-speed internet. COVID-19 has underscored this demand and the need to continue to support broadband grant funding, as well as all other alternatives to get people connected," said Governor Tony Evers. "Our investments are connecting people, but the demand for funding is clearly outpacing supply, so we look forward to continuing our work to expand access to broadband across Wisconsin."

The 2019-2021 biennial budget, which Governor Evers signed last year, provided \$48 million over the biennium for broadband expansion grants. While the Governor's original budget proposal included over \$78 million for broadband, \$48 million remains an historic investment.

The broadband expansion grants help find a path to return on investment in areas of the state that are challenging to serve due to population density. Since 2014, 210 grants have been awarded and have connected or are in the process of connecting over 7,000 businesses and 117,000 homes to high-speed broadband internet service.

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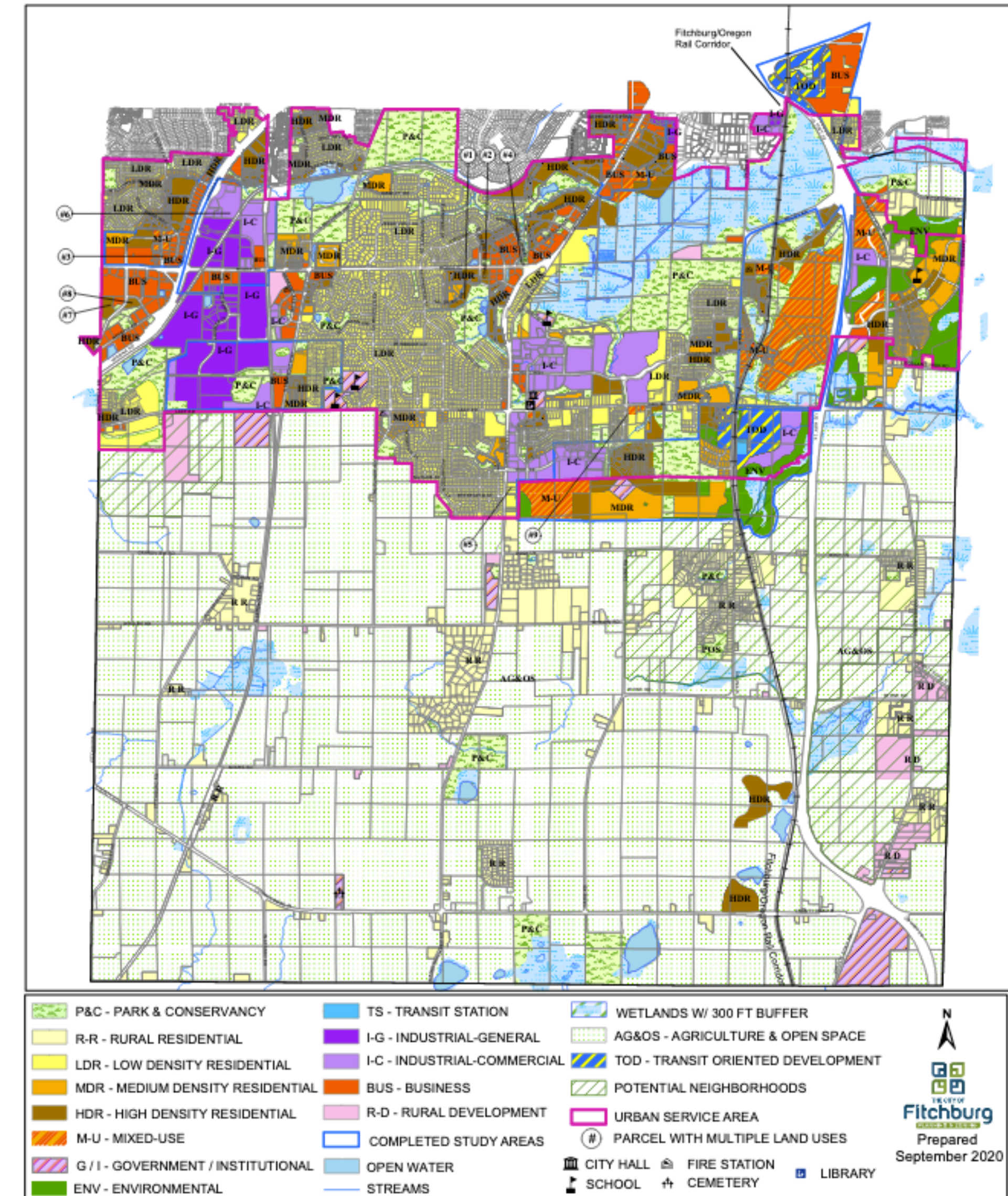
Federal, State, Local

Local- City of Fitchburg

- City of Fitchburg has limited to no control of broadband companies.
- Developers, businesses, and residents work directly with the broadband companies.
- Public Works helps make sure developers do work with broadband companies as part of a checklist.



FUTURE LAND USE PLAN MAP



Federal, State, Local Local- City of Fitchburg



Growing Fitchburg 2030

Growing Fitchburg 2030

Goals, Objectives & Policies

Policy 5.1.4: Favor gravity flow sewer growth, in accord with the long-term growth boundary and phasing policies.

Objective 5.2: Expand public utilities to areas without urban services only after a neighborhood plan has been approved and subsequent urban service adjustment requests have been approved by the Capital Area Planning Commission and Wisconsin Department of Natural Resources. Public utility extensions will be staged in a contiguous manner from the existing infrastructure with minimal disruption to the environment and in accord with any staging plans provided by the neighborhood plan.

Policy 5.2.1: Discourage utility extensions across substantial vacant land.

Policy 5.2.2: Construct water and sewer extensions concurrently with new streets.

Policy 5.2.3: Avoid utility placement in wetlands and other environmentally sensitive areas.

Objective 5.3: Ensure that utility services are provided throughout the City.

Policy 5.3.1: Guarantee equitable access for cooperatives and investor-owned utility service providers in reaching their customers.

Policy 5.3.2: Ensure that cooperatives and investor-owned utilities are extended as the City develops and promote the underground installation of these lines.

Policy 5.3.3: Encourage cooperatives and investor-owned utility providers to develop an assertive funded program to bury facilities in established neighborhoods.

Policy 5.3.4: Support renewable energy and conservation techniques to reduce energy demands.

Policy 5.3.5: Ensure that the utility service providers or the City provides state of the art broadband with the highest level of connectivity at any given time, available to all City residents and businesses.

Resources, Energy & Communications Themes

Funding

The City should utilize various revenue streams, both internal and external, to maintain and enhance its resources, and energy and communications infrastructure and service delivery.

Technology

The City should continue to ensure that its residents and businesses have access to required technological needs, including the latest iterations of high-speed broadband.

Federal, State, Local Local- City of Fitchburg

Goals, Objectives & Policies

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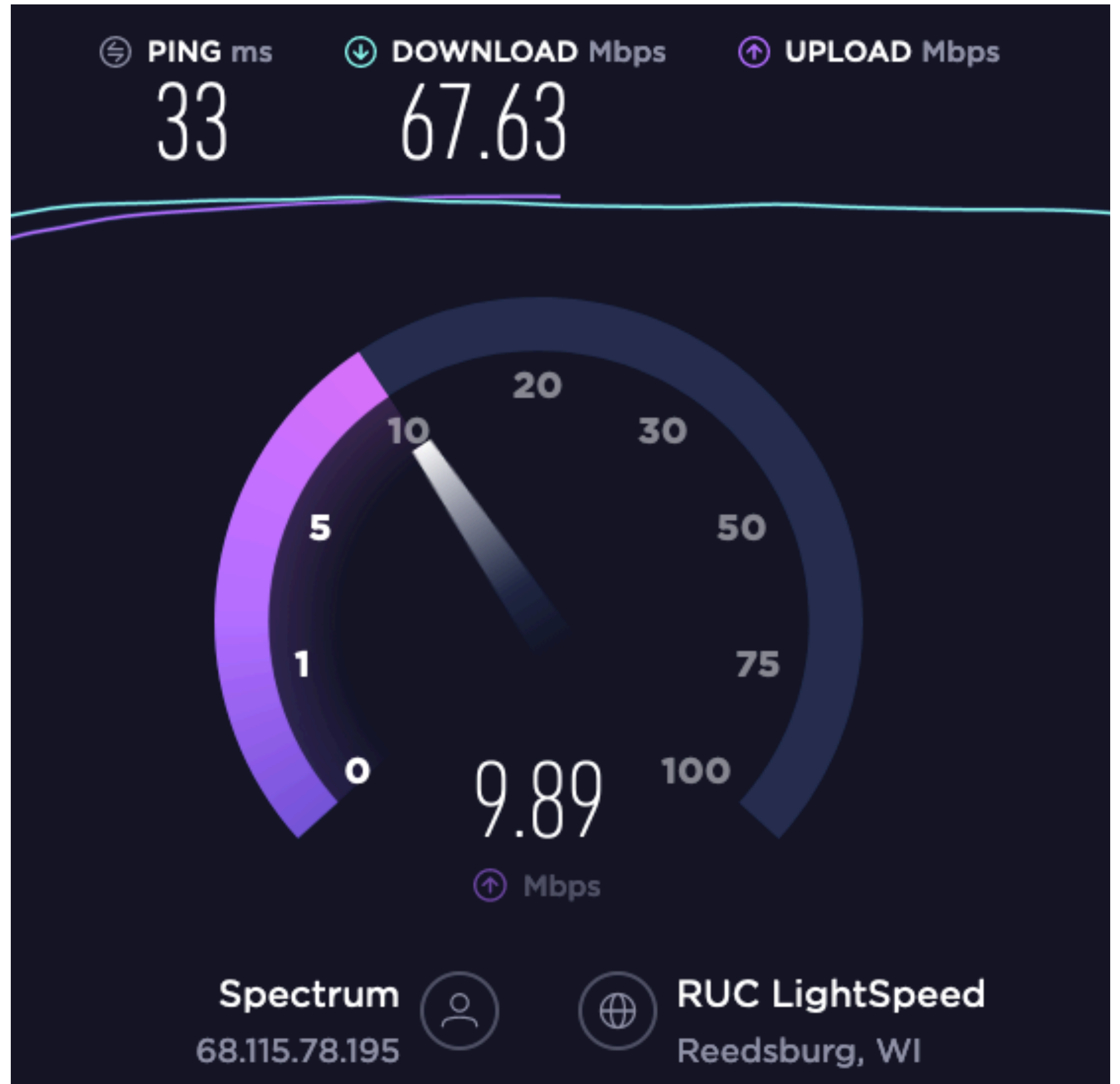
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Speeds & Testing Speeds



Speeds & Testing Speed

National Broadband Speed

The current definition, 25 Mbps download speed/3 Mbps upload speed, was [set](#) by the Federal Communications Commission, led by former FCC Chairman Tom Wheeler, in 2015. In an official statement, Wheeler noted that the previous standard, 4 Mbps/1 Mbps, had been established in 2010 and that “consumer behavior and the marketplace has changed.”

Source: <https://www.govtech.com/network/Does-the-Federal-Broadband-Definition-Reflect-Real-World-Need.html>

As part of its 2015 Broadband Progress Report, the Federal Communications Commission has voted to change the definition of broadband by raising the minimum download speeds needed from 4Mbps to 25Mbps, and the minimum upload speed from 1Mbps to 3Mbps, which effectively triples the number of US households without broadband access. Currently, 6.3 percent of US households don't have access to broadband under the previous 4Mbps/1Mbps threshold, while another 13.1 percent don't have access to broadband under the new 25Mbps downstream threshold.

FCC Commissioner Tom Wheeler was vehement in his support for the new broadband standard. "When 80 percent of Americans can access 25-3, that's a standard. We have a problem that 20 percent can't. We have a responsibility to that 20 percent," Commissioner Wheeler said.

Source: <https://www.theverge.com/2015/1/29/7932653/fcc-changed-definition-broadband-25mbps>

**25 Mbps
Download Speed**





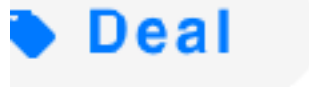


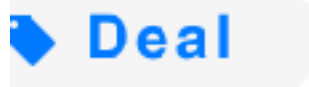


**3 Mbps
Upload Speed**

National Internet Speeds Set by FCC 2015

Speeds & Testing Speed

What are you buying?

- Mostly shown download speeds in advertising.
- Not necessarily told what type of internet you are purchasing- DSL, Cable, Fiber
- Need to check the fine print!
 - Check for up & down Mbps
 - What equipment, contracts, average speeds, services

	 Max speeds	3-90 Mbps
	Starting price	\$37.99/mo View details ▾
	 Max speeds	100 Mbps
	Starting price	\$49.99/mo View details ▾
 Deal 	 Max speeds	75-940 Mbps
	Starting price	View price ⓘ View details ▾
 Deal 	 Max speeds	25 Mbps
	Starting price	\$59.99/mo View details ▾

Speeds & Testing Speed

What speeds do I need to.....

**25 Mbps
Download Speed**

**3 Mbps
Upload Speed**

National Internet Speeds Set by FCC 2015

Activities	Suggested speeds	Cable	DSL	Fiber	Fixed wireless	Satellite
Email, web surfing & online shopping on 1-2 devices	5-10 Mbps	X	✓	X	✓	✓
Email, web surfing & online shopping on 3+ devices	10-25 Mbps	✓	✓	X	✓	✓
Streaming video in standard definition	5-10 Mbps	X	✓	X	✓	✓
Streaming video in HD	10-30 Mbps	✓	✓	✓	✓	X
Online gaming, 1-2 devices	10-25+ Mbps	✓	✓	✓	✓	X
Online gaming, 3+ devices	25+ Mbps	✓	✓	✓	X	X
Working from home	40+ Mbps	✓	X	✓	X	X

Speeds & Testing Speed

Activity	Minimum Download Speed (Mbps)
General Usage	
General Browsing and Email	1
Streaming Online Radio	Less than 0.5
VoIP Calls	Less than 0.5
Student	5 - 25
Telecommuting	5 - 25
File Downloading	10
Social Media	1
Watching Video	
Streaming Standard Definition Video	3 - 4
Streaming High Definition (HD) Video	5 - 8
Streaming Ultra HD 4K Video	25
Video Conferencing	
Standard Personal Video Call (e.g., Skype)	1
HD Personal Video Call (e.g., Skype)	1.5
HD Video Teleconferencing	6
Gaming	
Game Console Connecting to the Internet	3
Online Multiplayer	4

**25 Mbps
Download
Speed**

**3 Mbps
Upload Speed**

*National Internet Speeds Set by FCC
2015*

Speeds & Testing Speed

How many devices can I use at anytime?

	Light Use (Basic functions: email, browsing, basic video, VoIP, Internet radio)	Moderate Use (Basic functions plus <i>one</i> high-demand application: streaming HD video, multiparty video conferencing, online gaming, telecommuting)	High Use (Basic functions plus <i>more than one</i> high-demand application running at the same time)
1 user on 1 device	Basic	Basic	Medium
2 users or devices at a time	Basic	Medium	Medium/Advanced
3 users or devices at a time	Medium	Medium	Advanced
4 users or devices at a time	Medium	Advanced	Advanced

Basic Service = 3 to 8 Mbps*

Medium Service = 12 to 25 Mbps

Advanced Service = More than 25 Mbps

*Mbps (Megabits per second) is the standard measure of broadband speed. It refers to the speed with which information packets are downloaded from, or uploaded to, the internet.

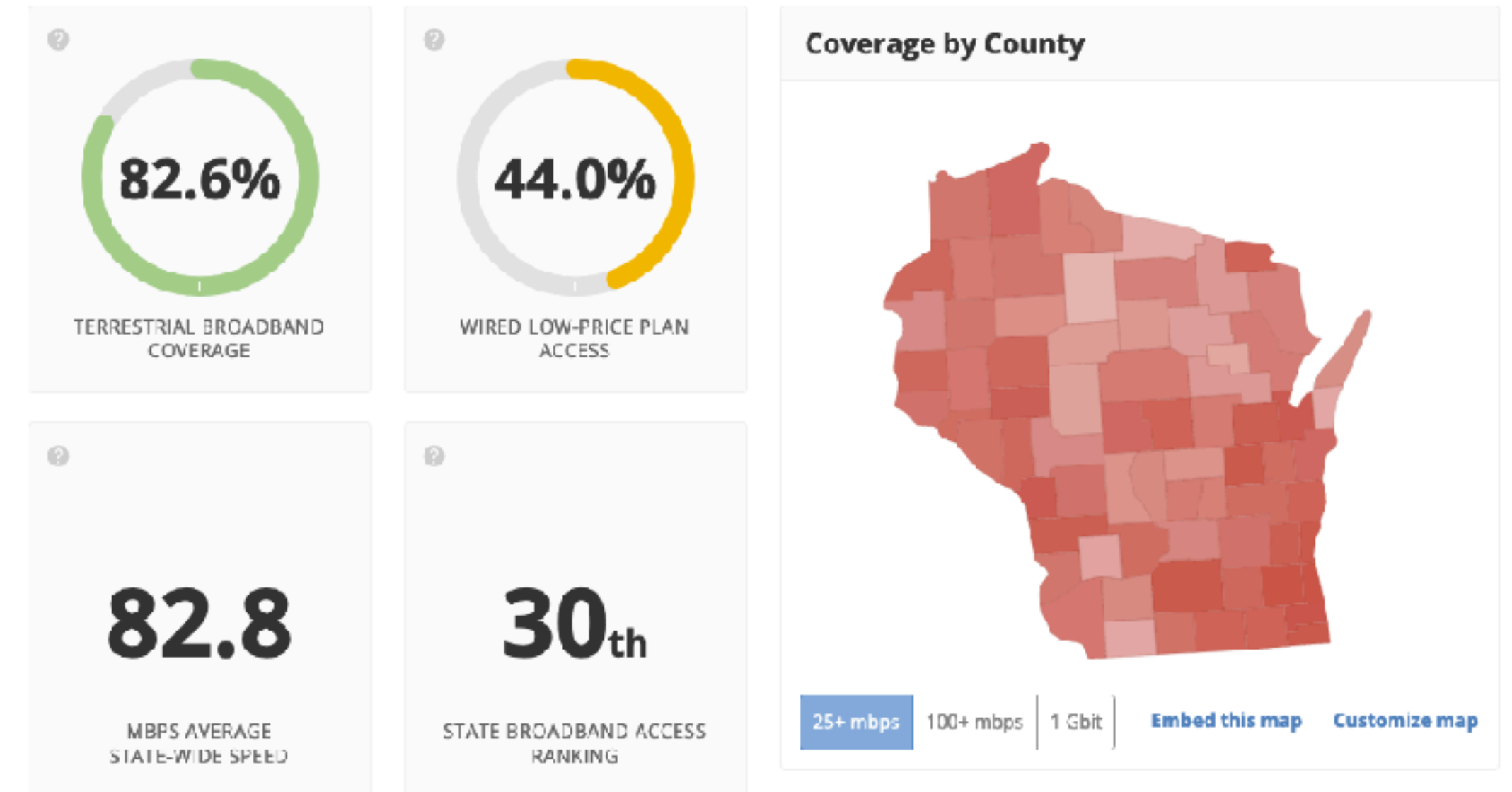
Speeds & Testing Speed

What are the states rating of internet speed and access?

The State of Broadband in Wisconsin, 2021

Written by the [BroadbandNow team](#). Last updated 2/2/2021.

Wisconsin ranks 30th when compared to the rest of the states in the US in terms of broadband coverage. Within Wisconsin, none of the counties have less than 45% high-speed internet coverage. The counties with the best coverage are largely concentrated in the southeast corner of the state. Only 13.4% of Wisconsinites have access to fiber-optic service, which is nearly half the national average of 25% of Americans with access to the same. According to user speed tests, Wisconsin's statewide average download speed is 126.0 Mbps, which is significantly faster than a number of higher-ranking states.



Broadband Speeds

86.3% of Wisconsinites have access to broadband 100mbps or faster.
18.6% of Wisconsinites have access to 1 gigabit broadband.

Wired Coverage

97.1% of Wisconsinites have access to wireline service.
20.7% of Wisconsinites have access to fiber-optic service.
82.5% of Wisconsinites have access to cable service.
90.6% of Wisconsinites have access to DSL service.

Largest Competing Providers In Wisconsin

1. [AT&T Internet vs TDS](#)
2. [AT&T Internet vs Spectrum](#)
3. [Spectrum vs TDS](#)
4. [Spectrum vs Frontier](#)
5. [Spectrum vs CenturyLink](#)

Coverage by County in Wisconsin

County Name	% Broadband Coverage
Adams	69.2%
Ashland	69.2%
Barron	76.6%
Bayfield	87.3%
Brown	96.0%
Buffalo	82.5%
Burnett	87.6%
Calumet	87.0%
Chippewa	85.5%
Clark	50.7%
Columbia	67.0%
Crawford	73.8%
Dane	96.8%

CITY	AVG. DOWNLOAD SPEED	NO. OF PROVIDERS
1. Milwaukee	115.4 MBPS	25 Providers
2. Madison	95.5 MBPS	27 Providers
3. Green Bay	61.7 MBPS	19 Providers
4. Racine	168.0 MBPS	20 Providers
5. Appleton	89.1 MBPS	19 Providers

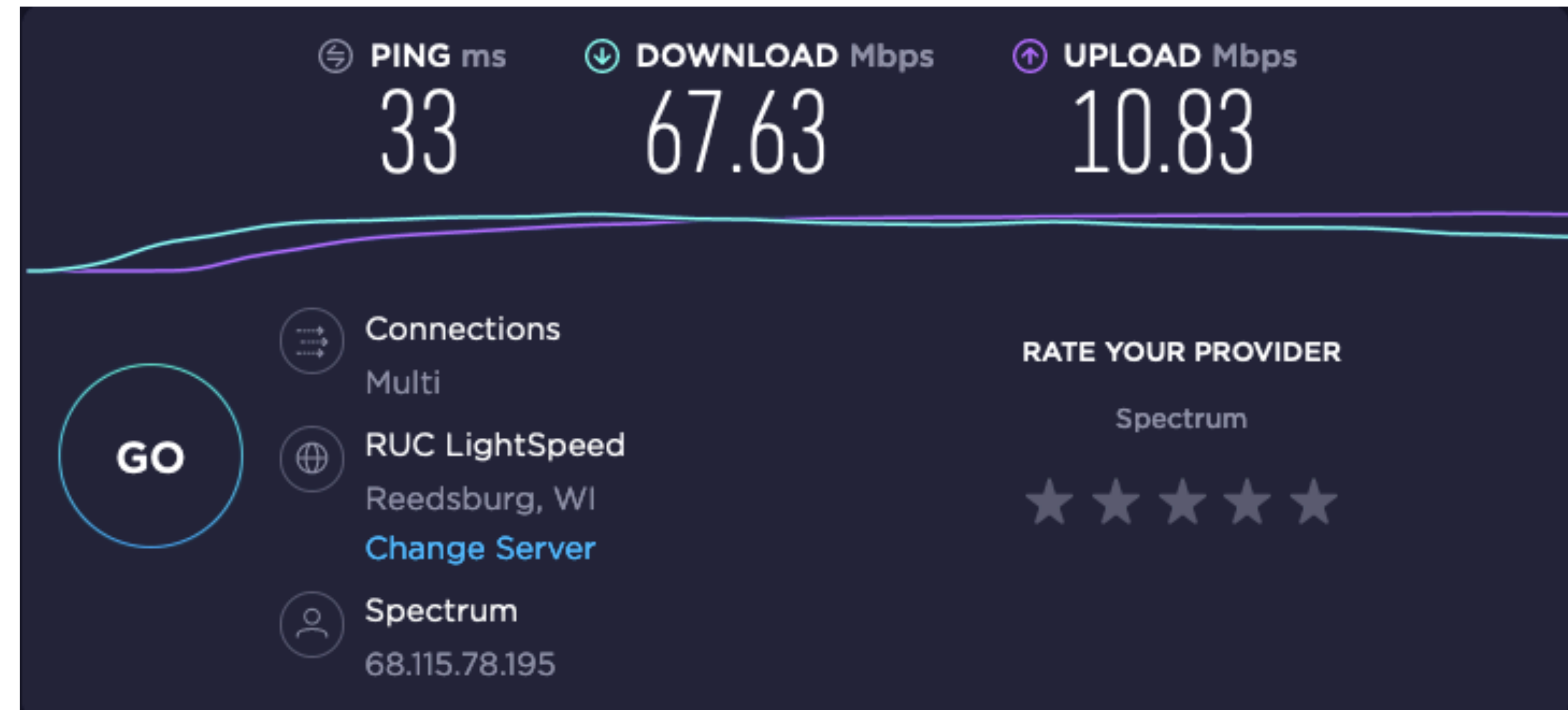
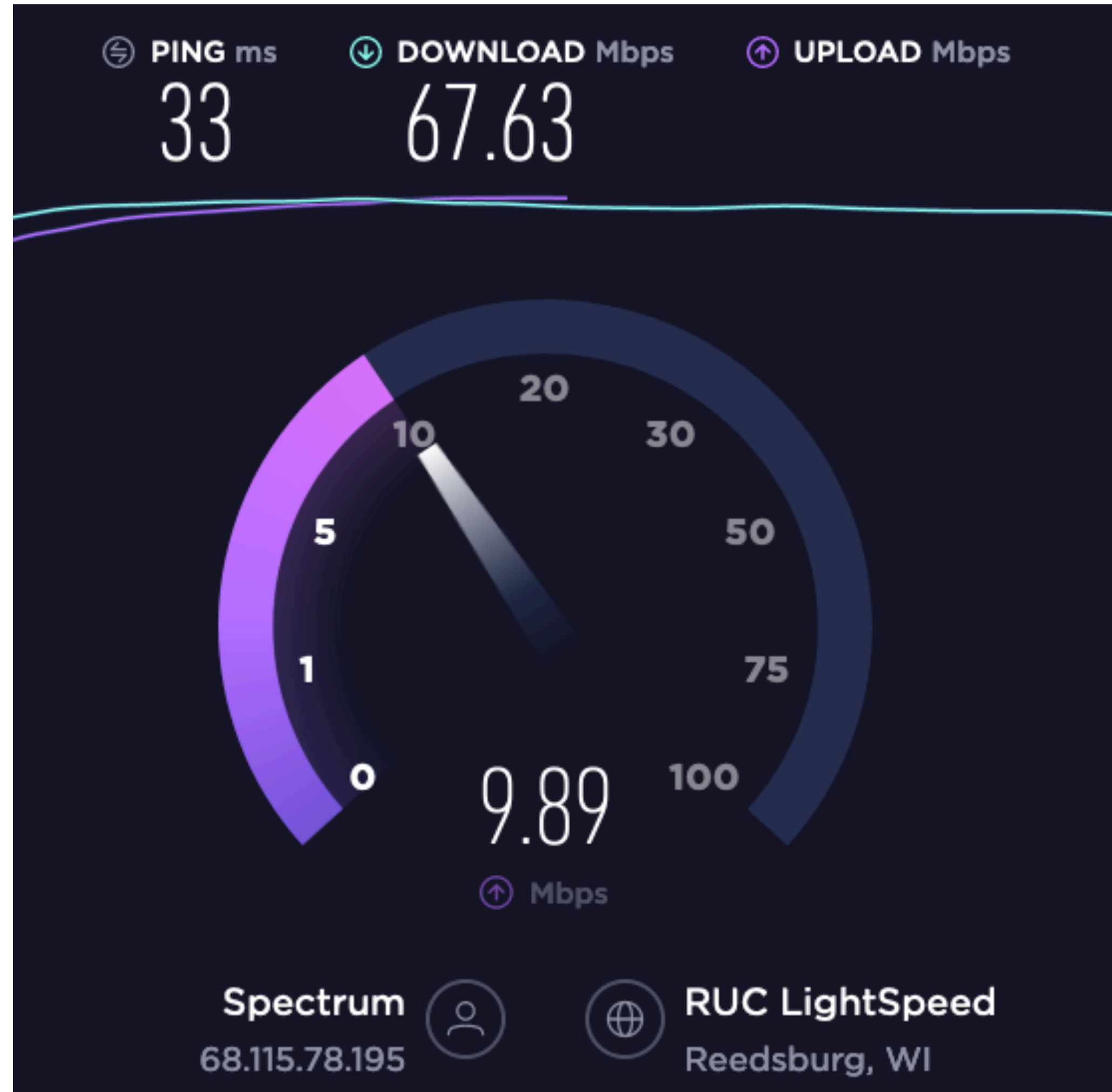
PROVIDER	AVG. DOWNLOAD SPEED
TDS Telecom	139.6 MBPS
AT&T Internet	109.5 MBPS
Charter Spectrum	102.6 MBPS
CenturyLink	80.1 MBPS
Bertram Internet	13.4 MBPS

MLA
Cooper, Tyler. "Internet Access in Wisconsin: Stats & Figures." *Broadband Now*. Broadband Now, 02 Feb. 2021. Web. Accessed 13 Feb. 2021. <<https://broadbandnow.com/Wisconsin>>.

APA
Cooper, T. (2021, February 02). Internet access in Wisconsin: stats & figures. Retrieved from <https://broadbandnow.com/Wisconsin>

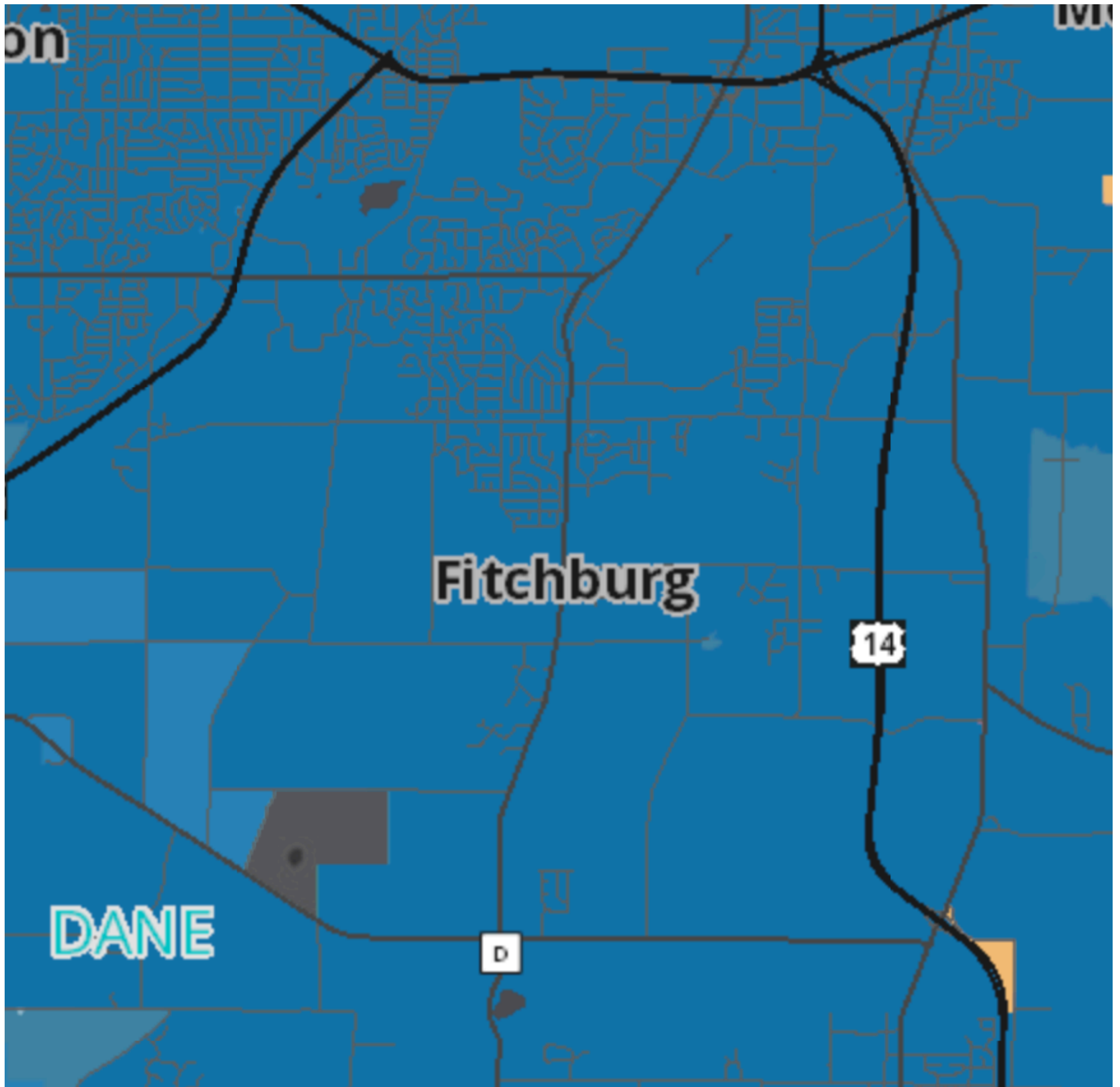
CHICAGO
Cooper, Tyler. "Internet Access in Wisconsin: Stats & Figures." *Broadband Now*. Last modified February 2, 2021. Accessed February 13, 2021. <https://broadbandnow.com/Wisconsin>.

Speeds & Testing Speed



Source: <https://www.speedtest.net/>

City Broadband Assessment



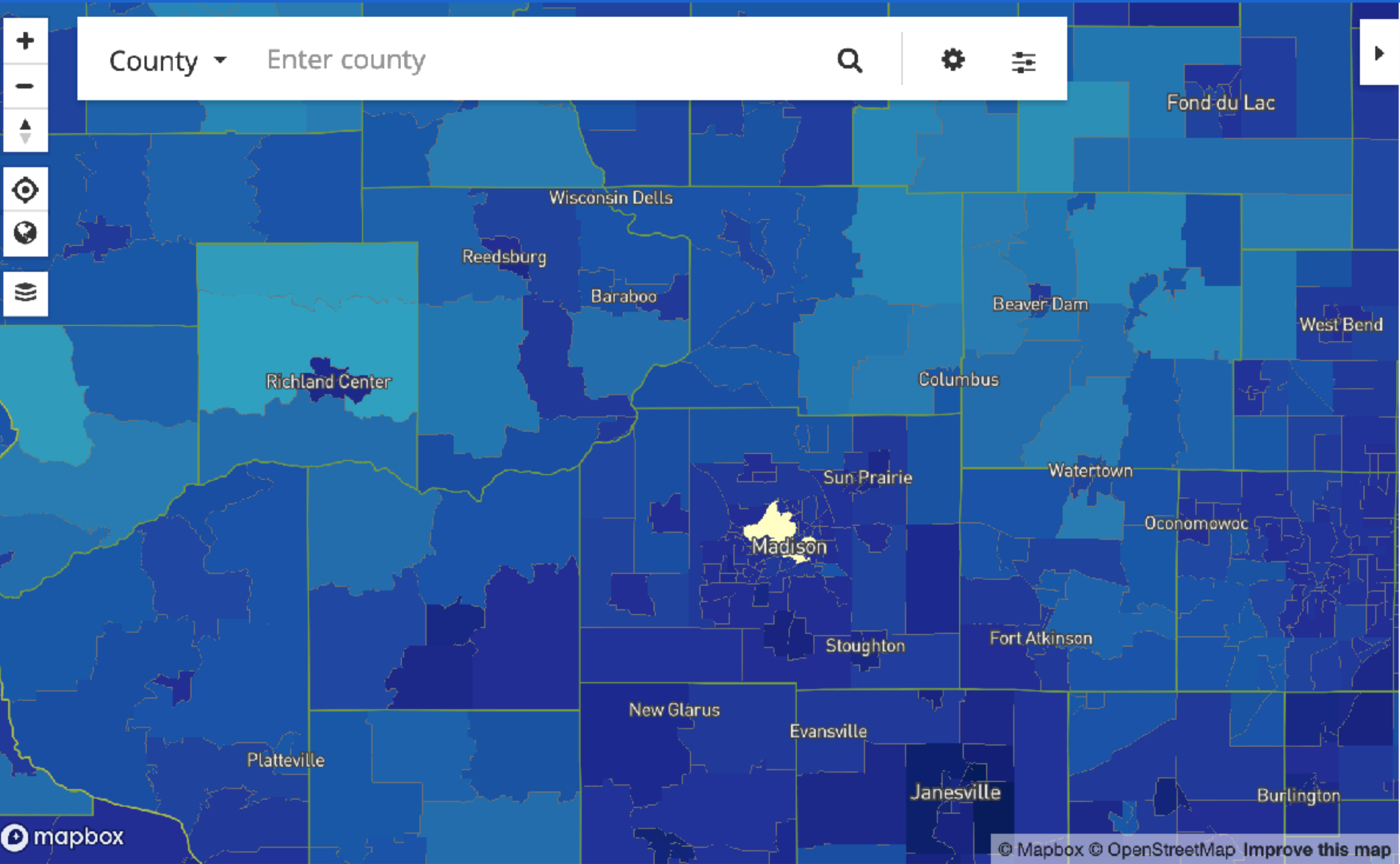
City Broadband Assessment

Federal-FCC Broadband Map



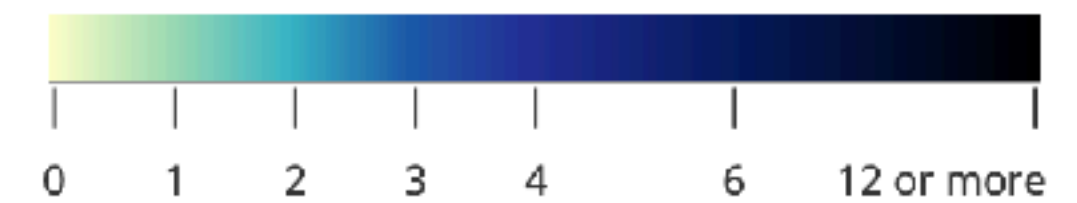
Fixed Broadband Deployment

- Home
- Location Summary
- Area Summary**
- Area Comparison
- Provider Detail
- Data Download
- About



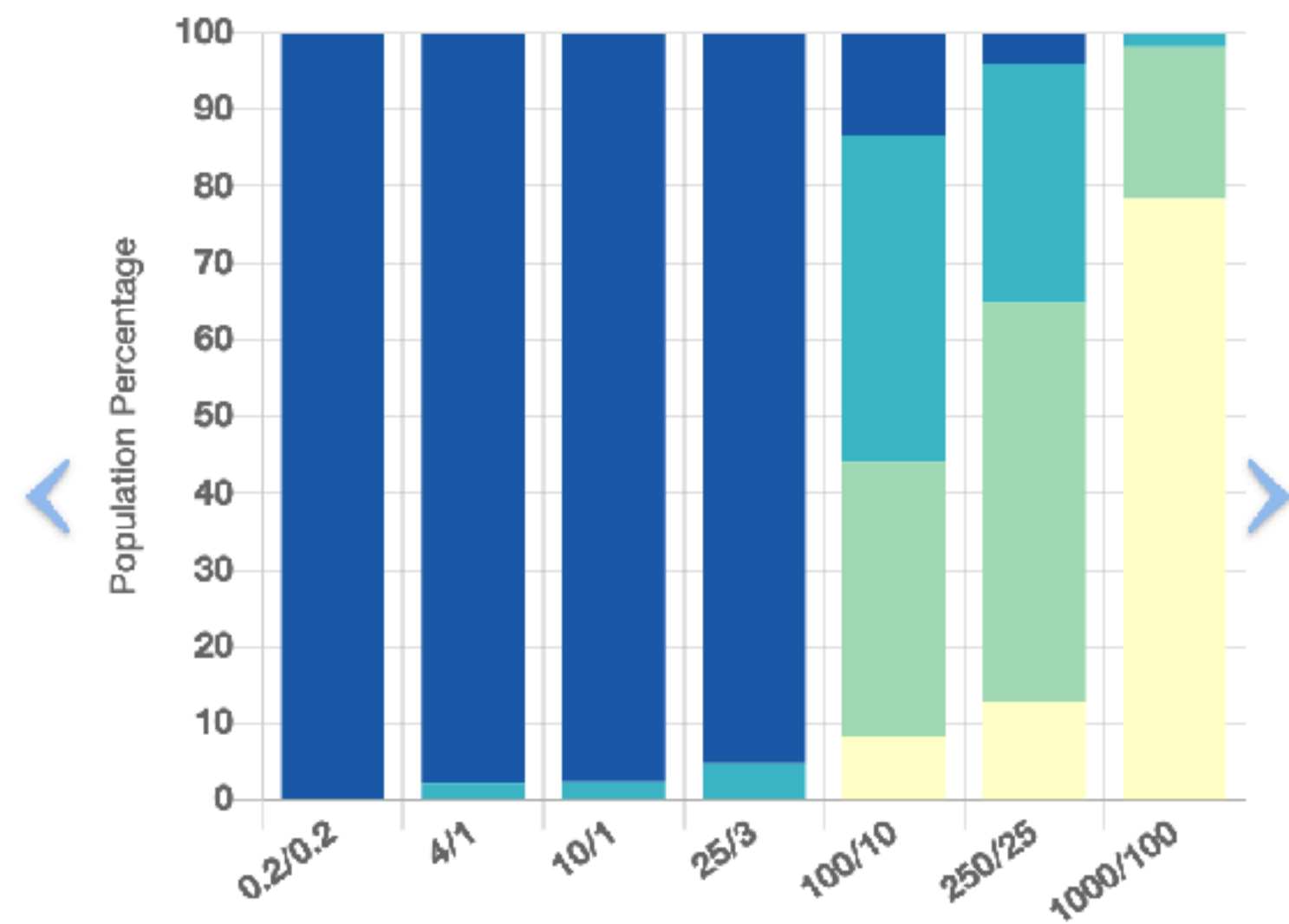
Nationwide

Number of Fixed Residential Broadband Providers



Broadband

Technology ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other
Speed ≥ 25/3 Mbps
Date Dec. 2019 (latest public release)

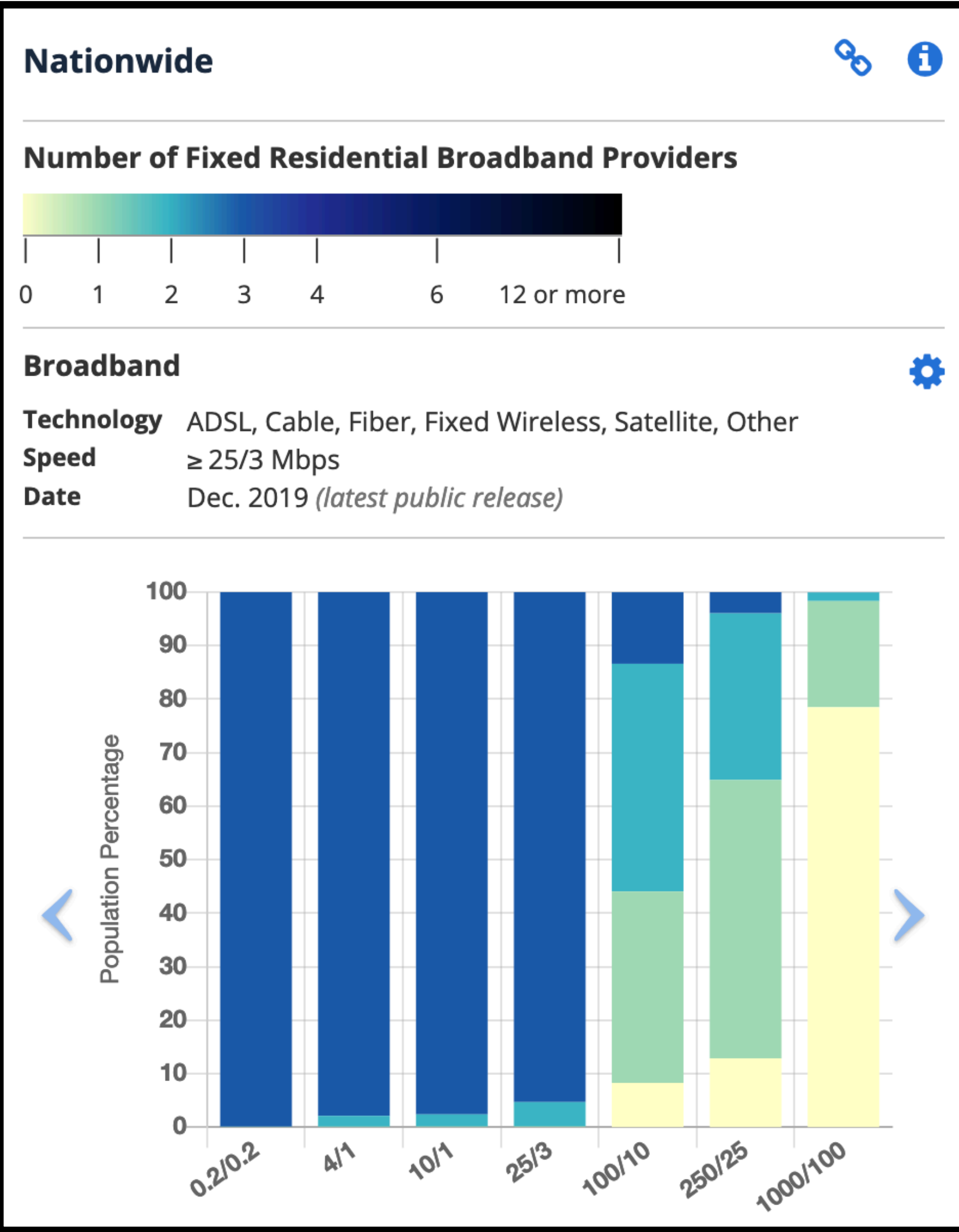
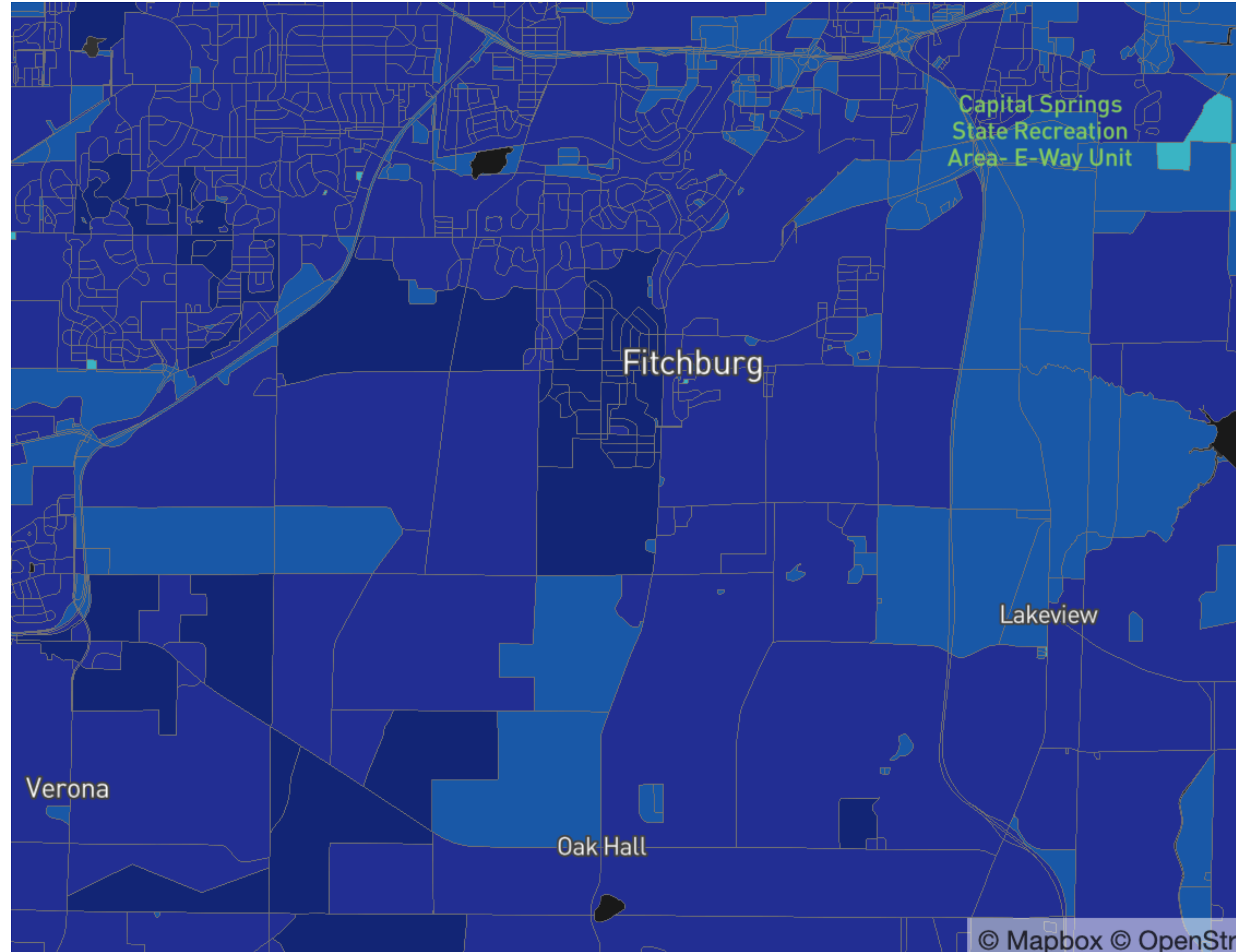


Source: https://broadbandmap.fcc.gov/#/area-summary?version=dec2019&type=nation&geoid=0&tech=acfosw&speed=25_3&vlat=39.68903884096571&vlon=-98.24923541450886&vzoom=3.67544968444768

Speed (Mbps downstream/upstream)

City Broadband Assessment

Federal-FCC Broadband Map



City Broadband Assessment

State-PSC Broadband Map

Source: <https://maps.psc.wi.gov/apps/WisconsinBroadbandMap/>

Layers

- Reference Overlay
- Wireline Download Speed
- Wireline Upload Speed
- Fixed Wireless Download Speed
- Fixed Wireless Upload Speed
- Mobile Coverage
- Broadband Expansion Grant Eligible Status Guideline
- Identify Providers

Legend

Wireline Download Speed

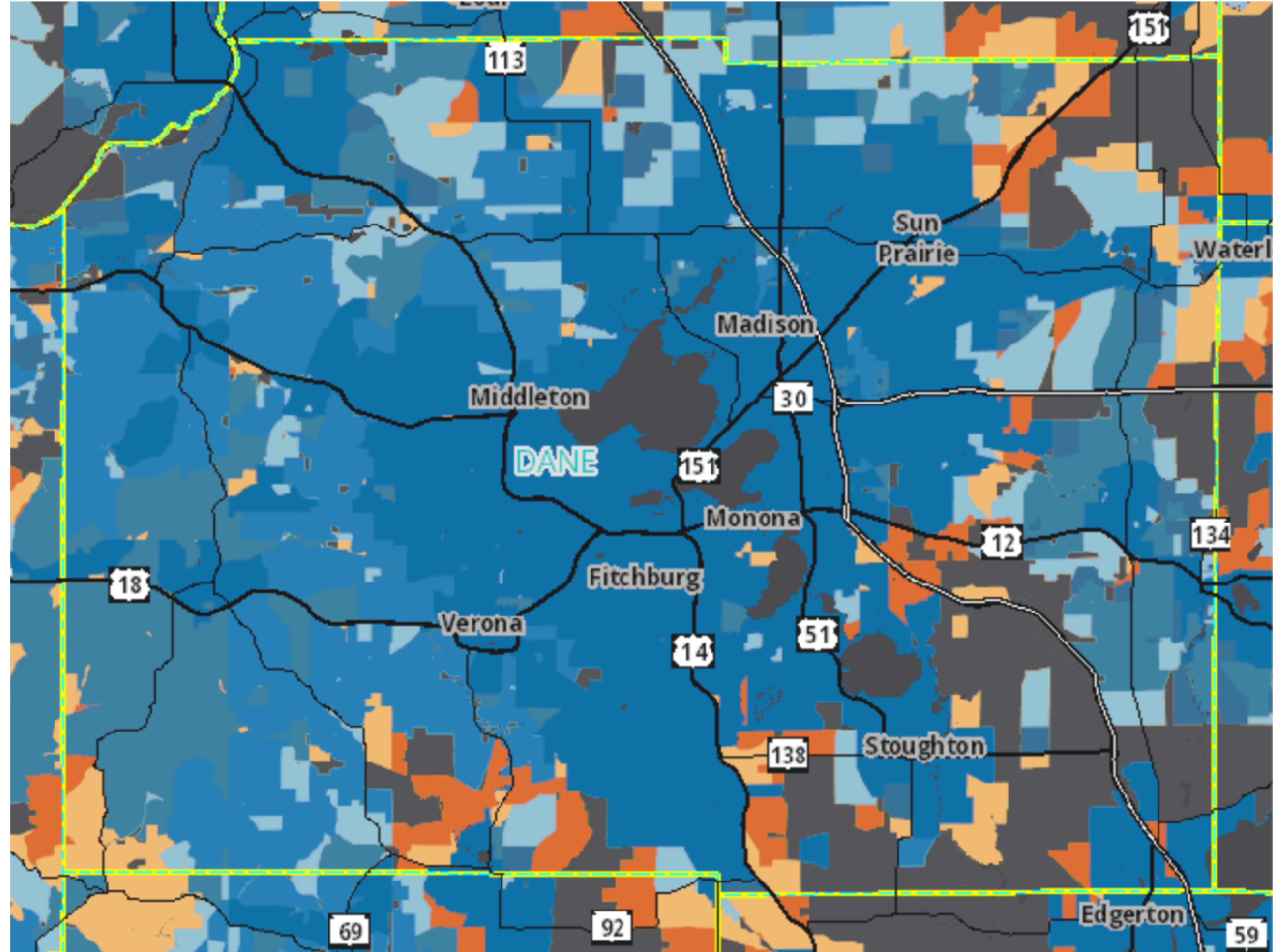
Advertised Speeds

- 25 + Mbps (Megabits per Second)
- 10 - 24.99 Mbps
- 3 - 9.99 Mbps
- Less than 3 Mbps

Wireline Upload Speed

Advertised Speeds

- 25 + Mbps (Megabits per Second)
- 10 - 24.99 Mbps
- 3 - 9.99 Mbps
- Less than 3 Mbps



City Broadband Assessment State-PSC Broadband Map

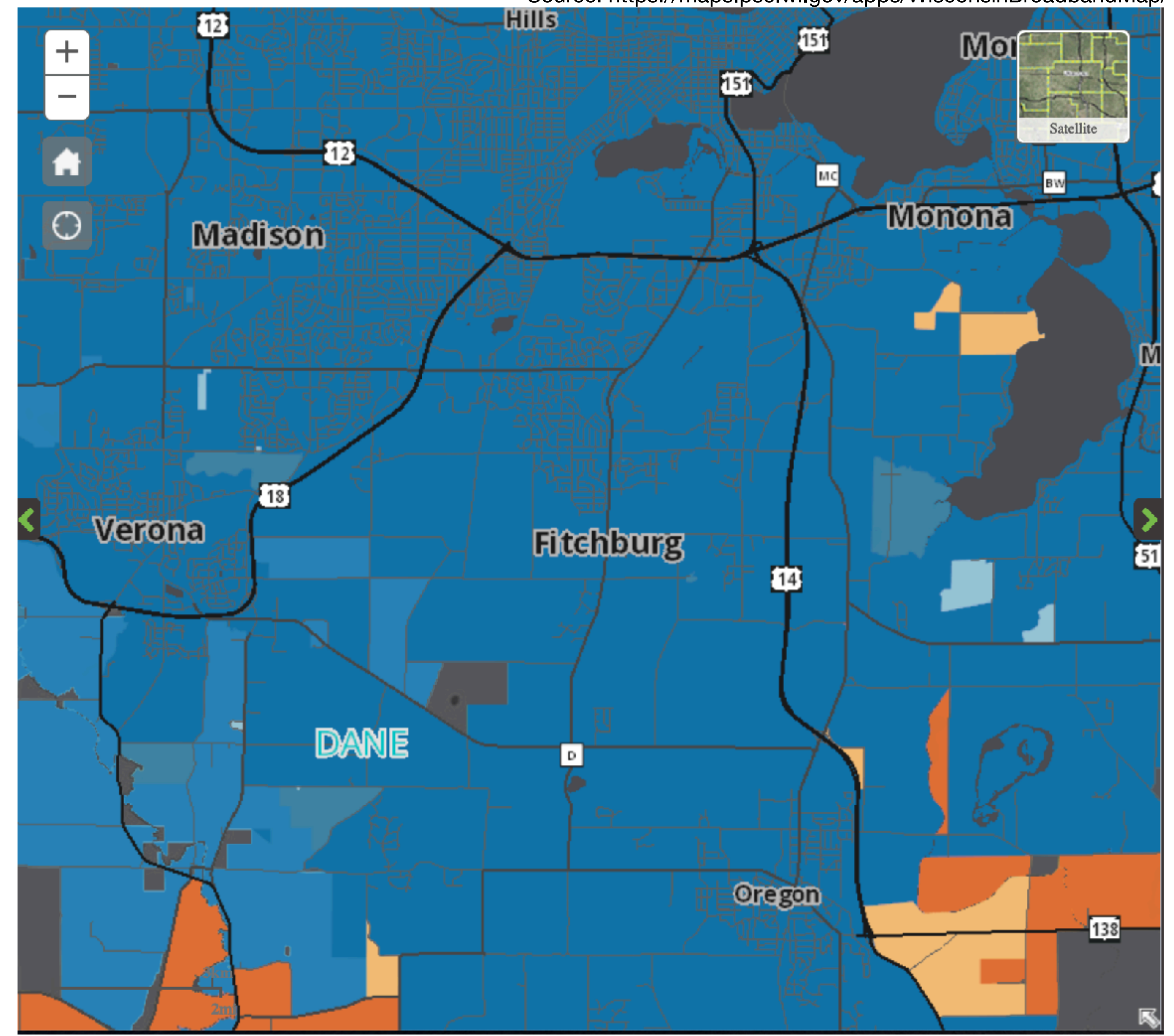
Layers

- Reference Overlay
- Wireline Download Speed
- Wireline Upload Speed
- Fixed Wireless Download Speed
- Fixed Wireless Upload Speed
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- Identify Providers

Legend

- ### Wireline Download Speed
- Advertised Speeds
- 25 + Mbps (Megabits per Second)
 - 10 - 24.99 Mbps
 - 3 - 9.99 Mbps
 - Less than 3 Mbps

- ### Wireline Upload Speed
- Advertised Speeds
- 25 + Mbps (Megabits per Second)
 - 10 - 24.99 Mbps
 - 3 - 9.99 Mbps
 - Less than 3 Mbps



City Broadband Assessment

State-PSC Broadband Map

Layers

- Reference Overlay
- Wireline Download Speed
- Wireline Upload Speed
- Fixed Wireless Download Speed
- Fixed Wireless Upload Speed
- Mobile Coverage
- Broadband Expansion Grant Eligible Status Guideline
- Identify Providers

Legend

Wireline Download Speed

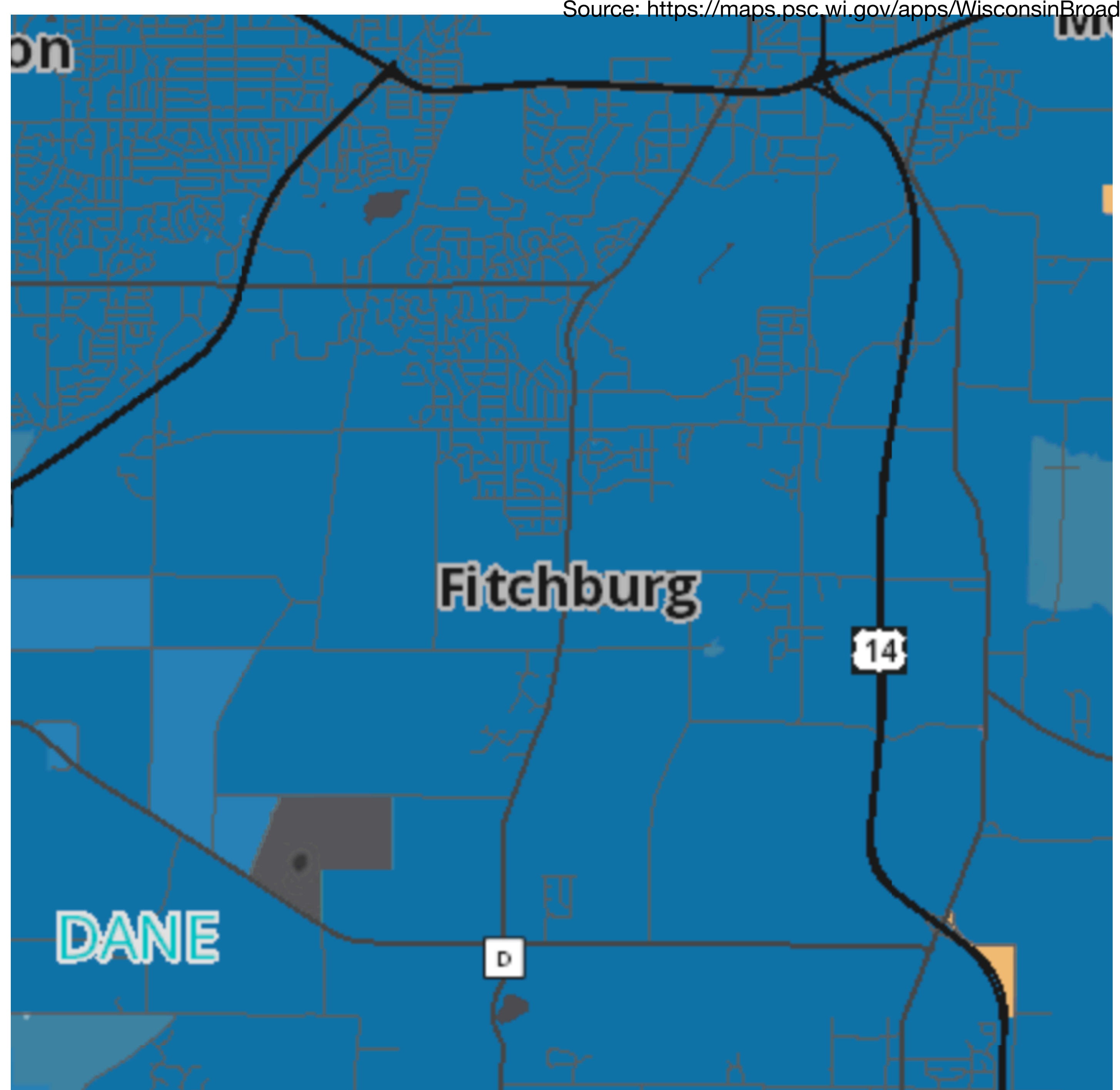
Advertised Speeds

- 25 + Mbps (Megabits per Second)
- 10 - 24.99 Mbps
- 3 - 9.99 Mbps
- Less than 3 Mbps

Wireline Upload Speed








Advertised Speeds

- 25 + Mbps (Megabits per Second)
- 10 - 24.99 Mbps
- 3 - 9.99 Mbps
- Less than 3 Mbps



Providers

All Residential Internet Providers in Fitchburg, Wisconsin

1. Spectrum - 96.0% Available in Fitchburg		Speeds up to: 940mbps	Pricing starts at: \$49.99 per month	Plans: 9	SET UP NEW SERVICE: (855) 423-9813 See All Plans »
<small>Cable Internet</small>					
2. AT&T Internet - 94.5% Available in Fitchburg		Speeds up to: 1,000mbps	Pricing starts at: \$35 per month	Plans: 9	SET UP NEW SERVICE: (844) 914-2533 See All Plans »
<small>IPBR Internet</small>					
3. AT&T Fiber - 25.5% Available in Fitchburg		Speeds up to: 1,000mbps	Pricing starts at: \$35 per month	Plans: 4	SET UP NEW SERVICE: (844) 914-2533 See All Plans »
<small>Fiber Internet</small>					
4. Frontier - 5.1% Available in Fitchburg		Speeds up to: 115mbps	Pricing starts at: \$37.99 per month	Plans: 3	SET UP NEW SERVICE: (855) 964-4414 See All Plans »
<small>DSL Internet</small>					
5. Viasat - 100.0% Available in Fitchburg		Speeds up to: 35mbps	Pricing starts at: \$89.99 per month	Plans: 3	SET UP NEW SERVICE: (855) 254-2812 See All Plans »
<small>Satellite Internet</small>					
6. HughesNet - 100.0% Available in Fitchburg		Speeds up to: 25mbps	Pricing starts at: \$49.99 per month	Plans: 4	SET UP NEW SERVICE: (844) 470-0252 See All Plans »
<small>Satellite Internet</small>					
7. TDS - 61.9% Available in Fitchburg		Speeds up to: 100mbps	Pricing starts at: \$29.95 per month	Plans: 2	SET UP NEW SERVICE: (855) 220-2592 See All Plans »
<small>DSL Internet</small>					

Providers







- AT&T
- Spectrum (Charter)
- TDS
- Frontier
- Satellite Companies
- Wireless Companies

Shop plans near Fitchburg, WI 5520 Lacy Rd, Fitchburg WI 53711-5318 [Edit](#)

Build your package

Internet
 Video
 Phone

Need help?
One of our experts can make a recommendation based on your needs or take your order by phone.
Call: (877) 498-5128

	 Internet 100Mbps <small>Download speeds</small>	Plans starting at \$49.99/mo View details	Call to order (877) 629-7738 or Order online <small>Secure checkout</small>
View deal 	 Internet 75-300Mbps <small>Download speeds</small>	Plans starting at \$45/mo <small>for 12 mos, plus taxes & equip. fee \$10/mo equip. fee applies. Ltd. avail/areas. Spds vary. Download max 940Mbps. Not g'd.</small> View details	Call to order (844) 259-4665 or Order online <small>Secure checkout</small>
View deal 	 Internet 25Mbps <small>Download speeds</small>	Plans starting at \$59.99/mo View details	Call to order (877) 842-9855 or Order online <small>Secure checkout</small>

Providers

City of Fitchburg Review

Internet Access in Fitchburg Wisconsin

Fitchburg is one of the more competitive markets for broadband service in the US. With Viasat Internet (formerly Exede), HughesNet, Charter Spectrum, AT&T Internet, and TDS Telecom all offering wired internet access to major parts of the city. These providers use a variety of wired technologies including satellite, cable, IPBB, and DSL. Additionally, there are 3 other wired providers covering limited areas of Fitchburg.

Whether you're looking for enterprise services like bonded T1 or you're just looking for a small business internet plan to get online, there are multiple options in Fitchburg. In the table above you'll find providers that we've identified as specializing in either small business internet service or enterprise-level service.

Depending on your unique needs, some residential providers (under the residential tab) do offer business internet access, but we would not list those providers in the results above unless they specifically advertise business-centric plans or enterprise services on their website.

The fastest residential internet available in the city is 1,200 mbps.

- There are 19 internet providers in Fitchburg with 9 of those offering residential service.
- The fastest zip code in Fitchburg for January 2021 is 53593. (see all below).

Providers

City of Fitchburg Review

Summary Of Fastest Internet Providers In Fitchburg, Wisconsin

PROVIDER	SPEED	TYPE	TIME TO DOWNLOAD 1 GB
AT&T Internet	1,000 Mbps	DSL and Fiber	8s
TDS Telecom	1,000 Mbps	DSL and Fiber	8s
XFINITY from Comcast	1,200 Mbps	Cable	6s
Charter Spectrum	940 Mbps	Cable	8s
Viasat Internet (formerly Exede)	35 Mbps	Satellite	3m 54s
HughesNet	25 Mbps	Satellite	5m 27s
Frontier Communications	115 Mbps	DSL	1m 11s

Summary Of Internet Provider Availability In Fitchburg, Wisconsin

- **AT&T Internet** - 94.5% Availability in Fitchburg - Speeds up to 1,000 Mbps
- **Spectrum** - 96.0% Availability in Fitchburg - Speeds up to 940 Mbps
- **TDS** - 61.9% Availability in Fitchburg - Speeds up to 1,000 Mbps
- **Frontier** - 5.1% Availability in Fitchburg - Speeds up to 115 Mbps
- **Xfinity** - 1.7% Availability in Fitchburg - Speeds up to 1,200 Mbps
- **Viasat** - 100.0% Availability in Fitchburg - Speeds up to 35 Mbps
- **HughesNet** - 100.0% Availability in Fitchburg - Speeds up to 25 Mbps

Providers

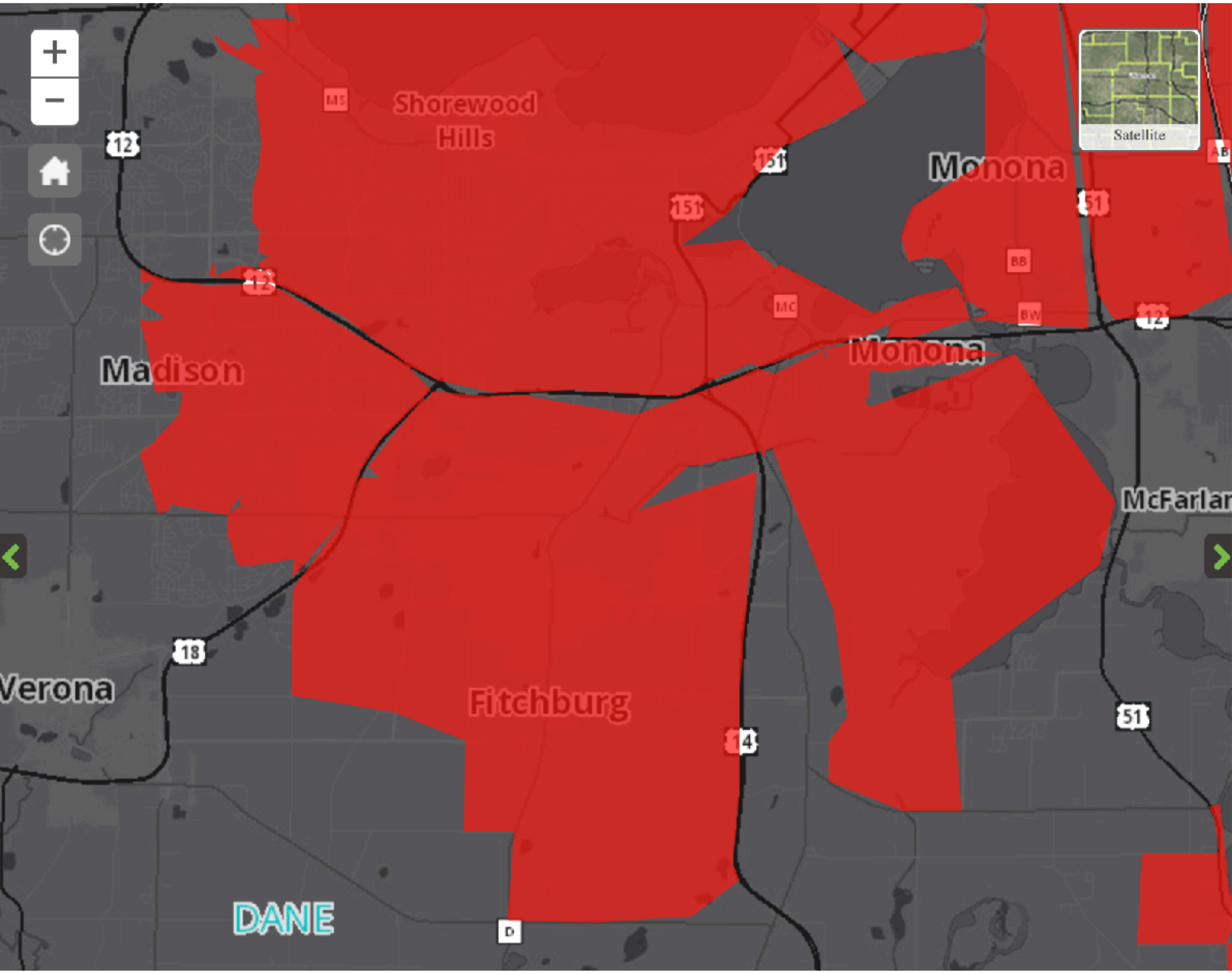
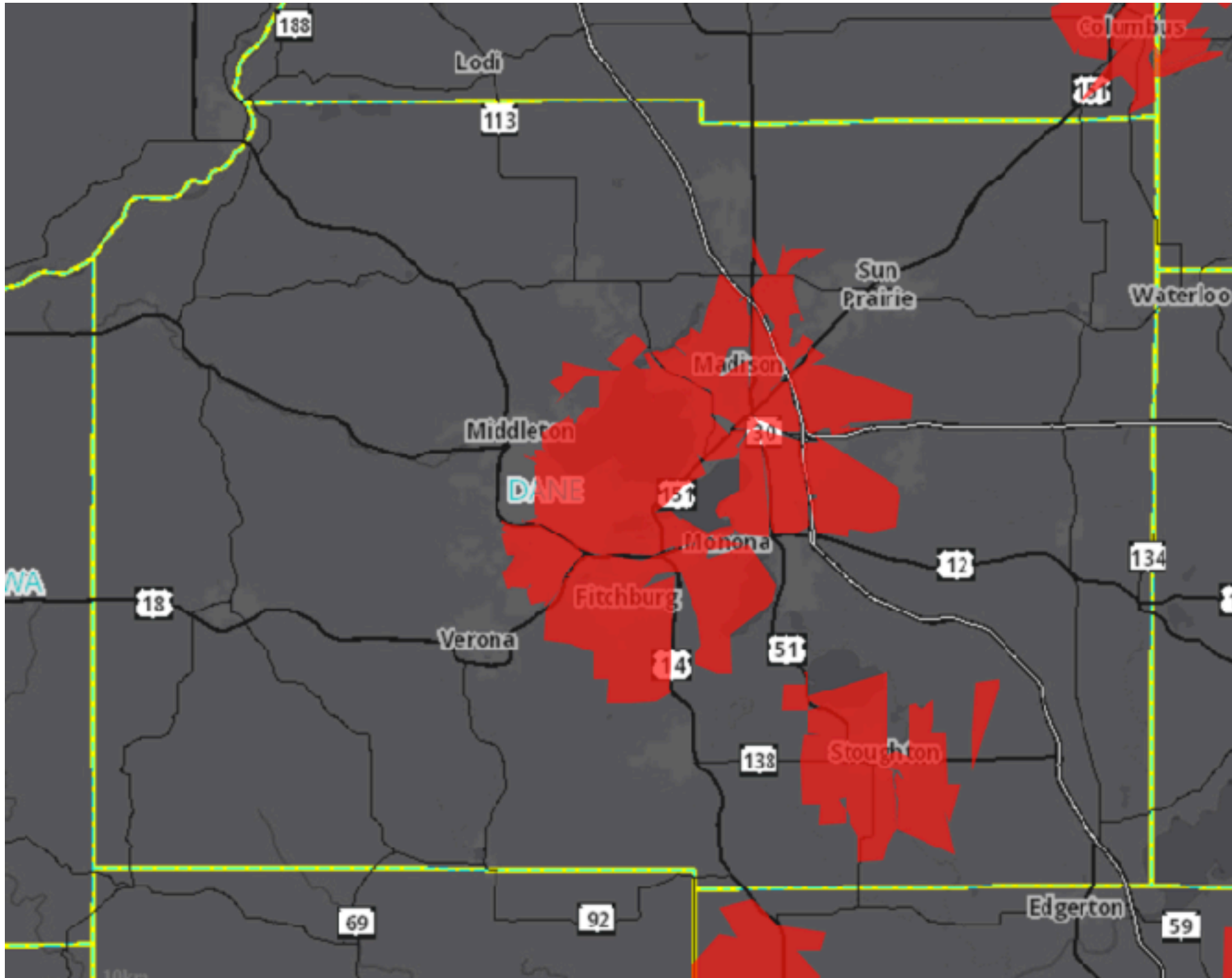
City of Fitchburg Review

Summary Of Internet Providers In Fitchburg

Provider	Type	Coverage	Speed
<small>RESIDENTIAL</small> AT&T Internet	DSL and Fiber	94.5%+	1,000 Mbps
<small>RESIDENTIAL</small> Charter Spectrum	Cable	96.0%+	940 Mbps
<small>RESIDENTIAL</small> TDS Telecom	DSL and Fiber	61.9%+	1,000 Mbps
<small>RESIDENTIAL</small> Frontier Communications	DSL	5.1%+	24 Mbps
<small>RESIDENTIAL</small> XFINITY from Comcast	Cable	1.7%+	987 Mbps
<small>RESIDENTIAL</small> Viasat Internet (formerly Exede)	Satellite	100%	35 Mbps
<small>RESIDENTIAL</small> HughesNet	Satellite	100%	25 Mbps
<small>BUSINESS</small> Spectrum Business	Cable and Fiber	89.3%+	940 Mbps
<small>BUSINESS</small> Frontier Business	DSL	23.6%+	24 Mbps
<small>BUSINESS</small> AT&T	Fiber	10.8%+	1,000 Mbps

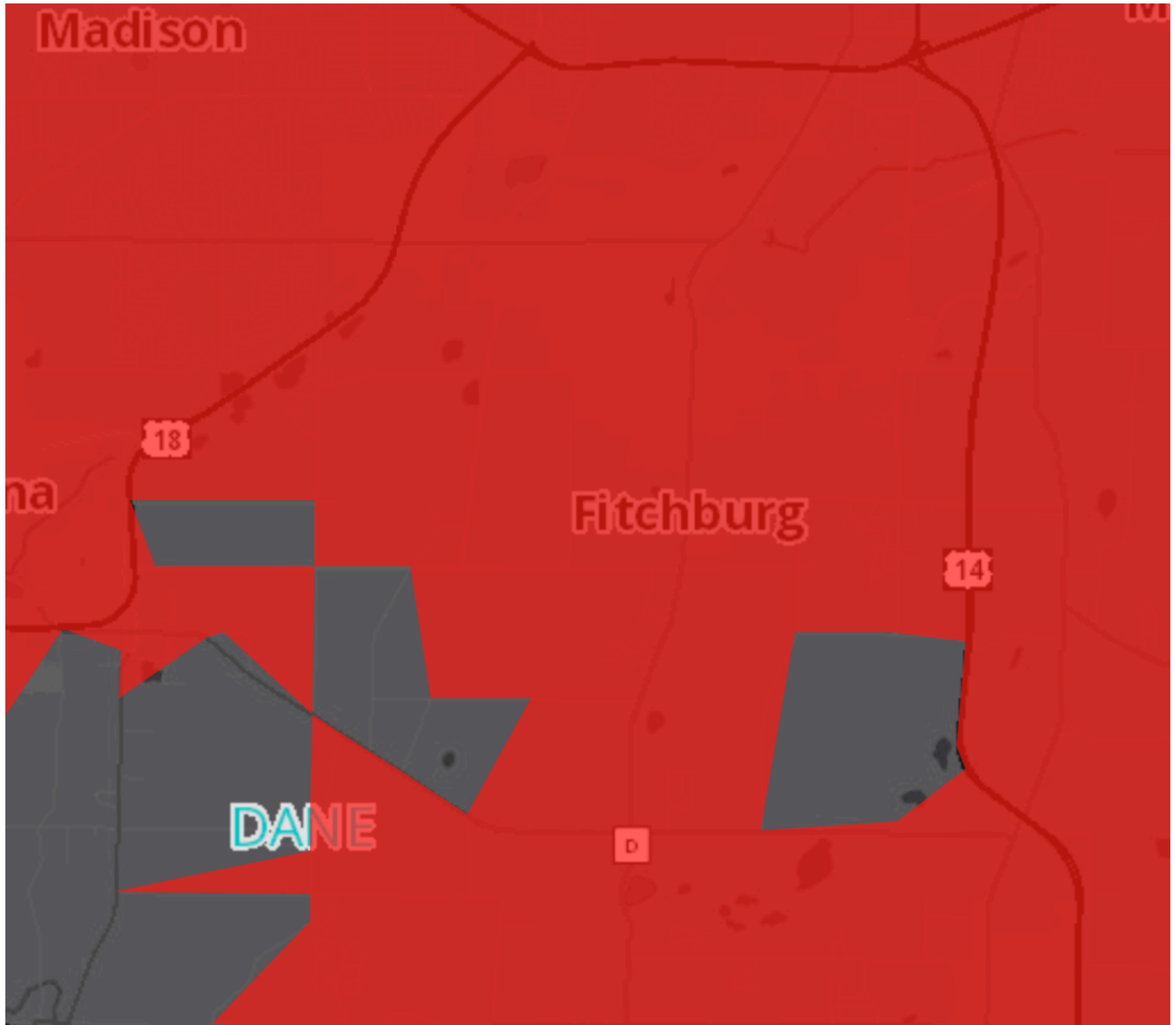
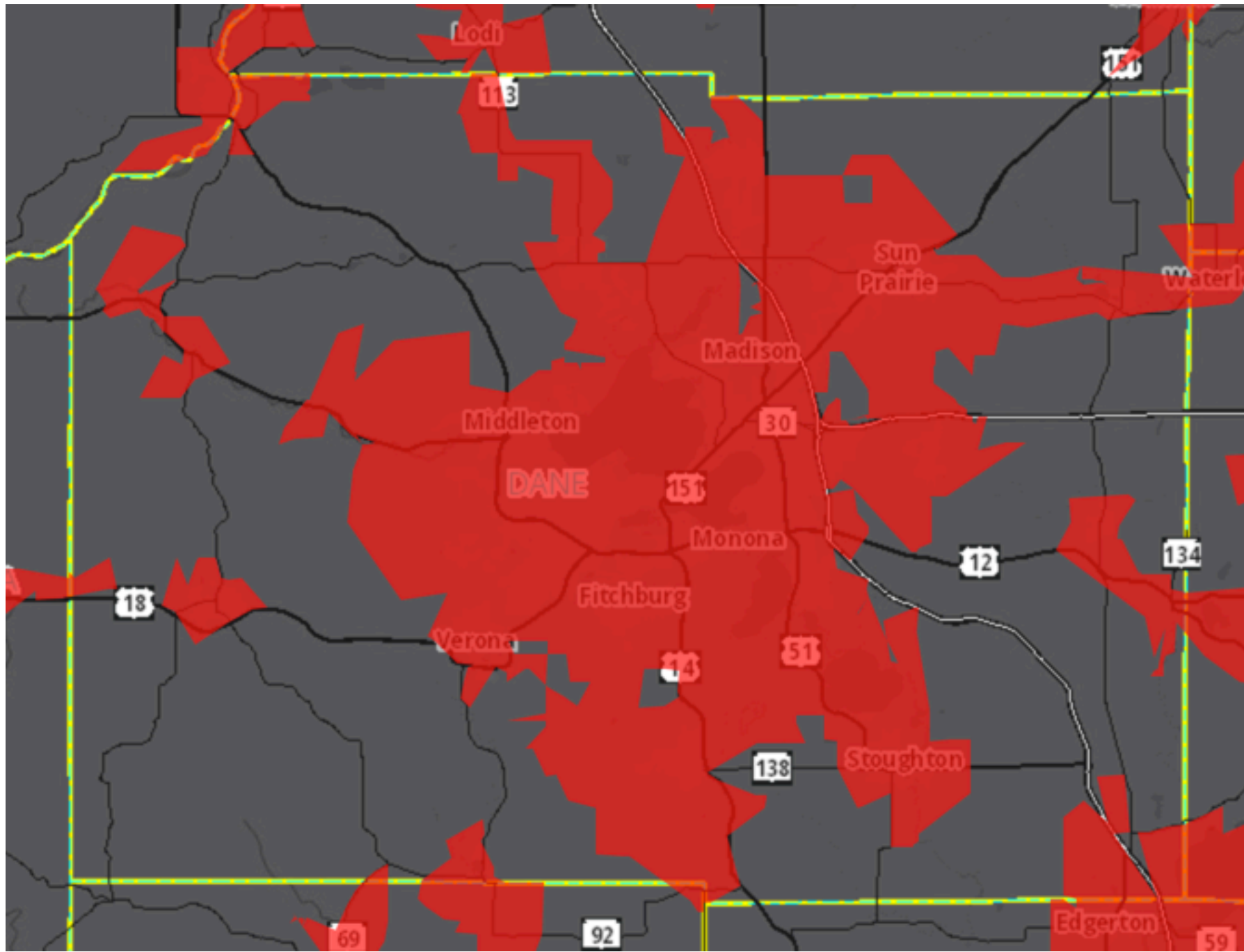
Providers

- AT&T



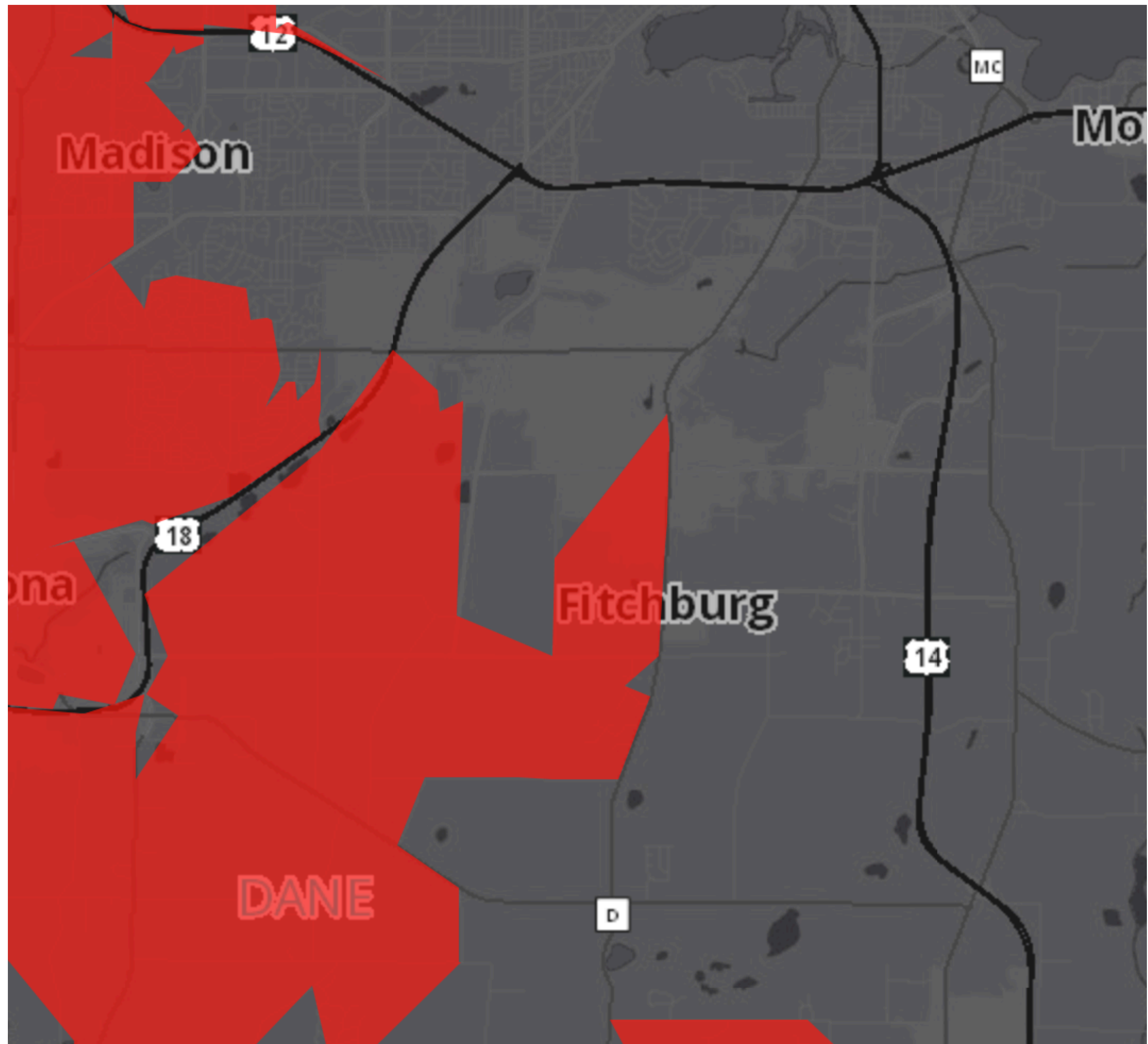
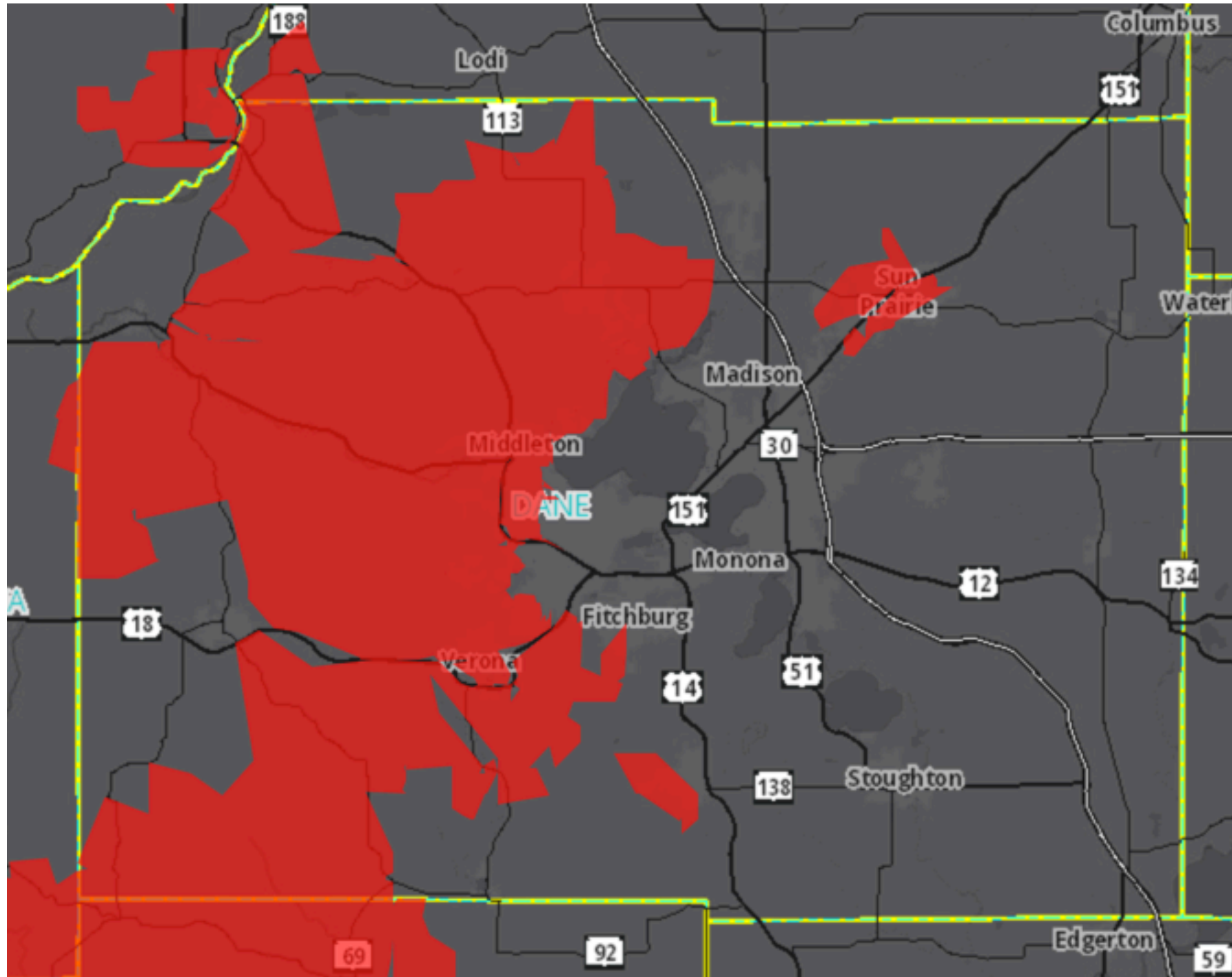
Providers

- Spectrum (Charter)



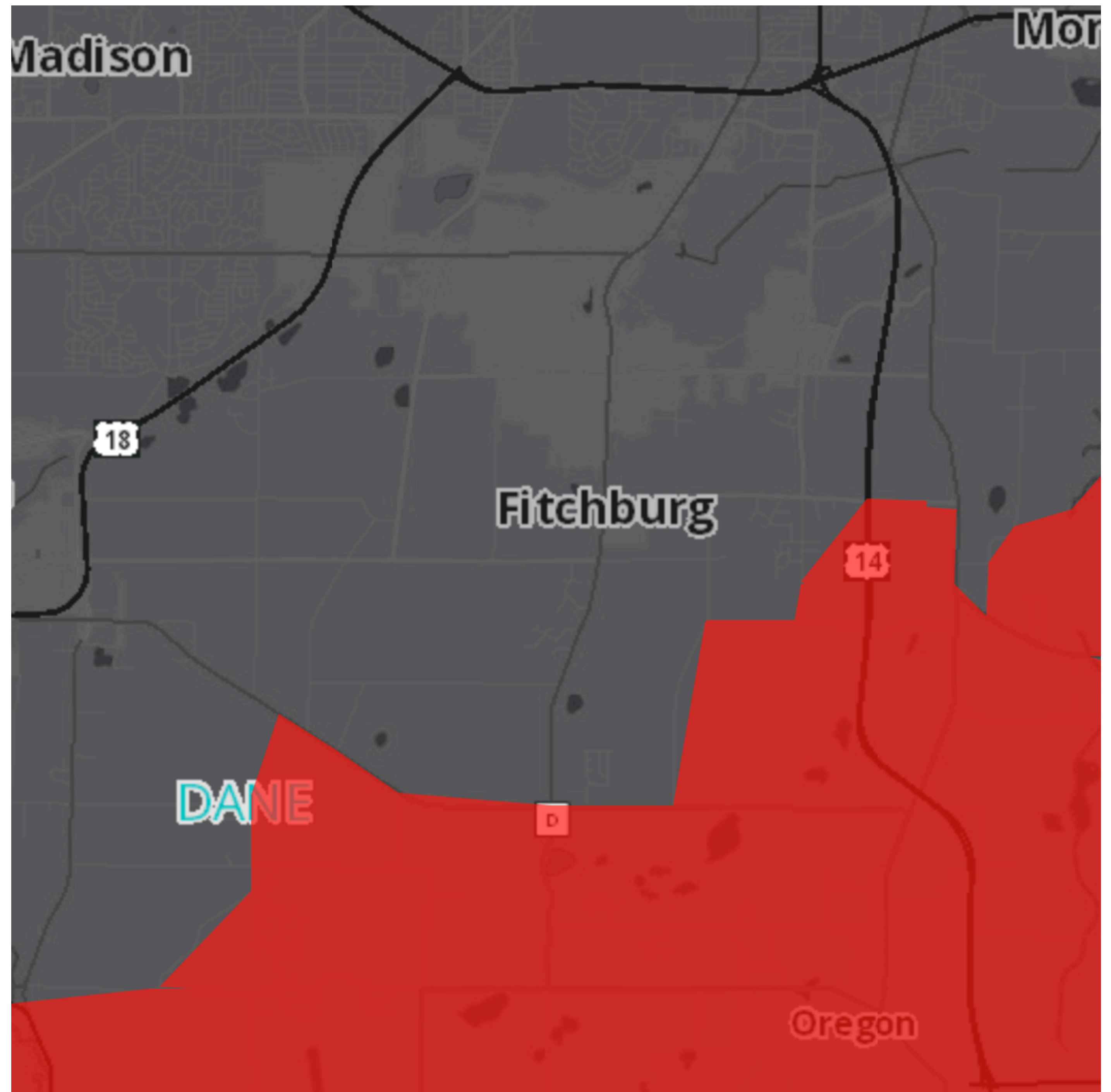
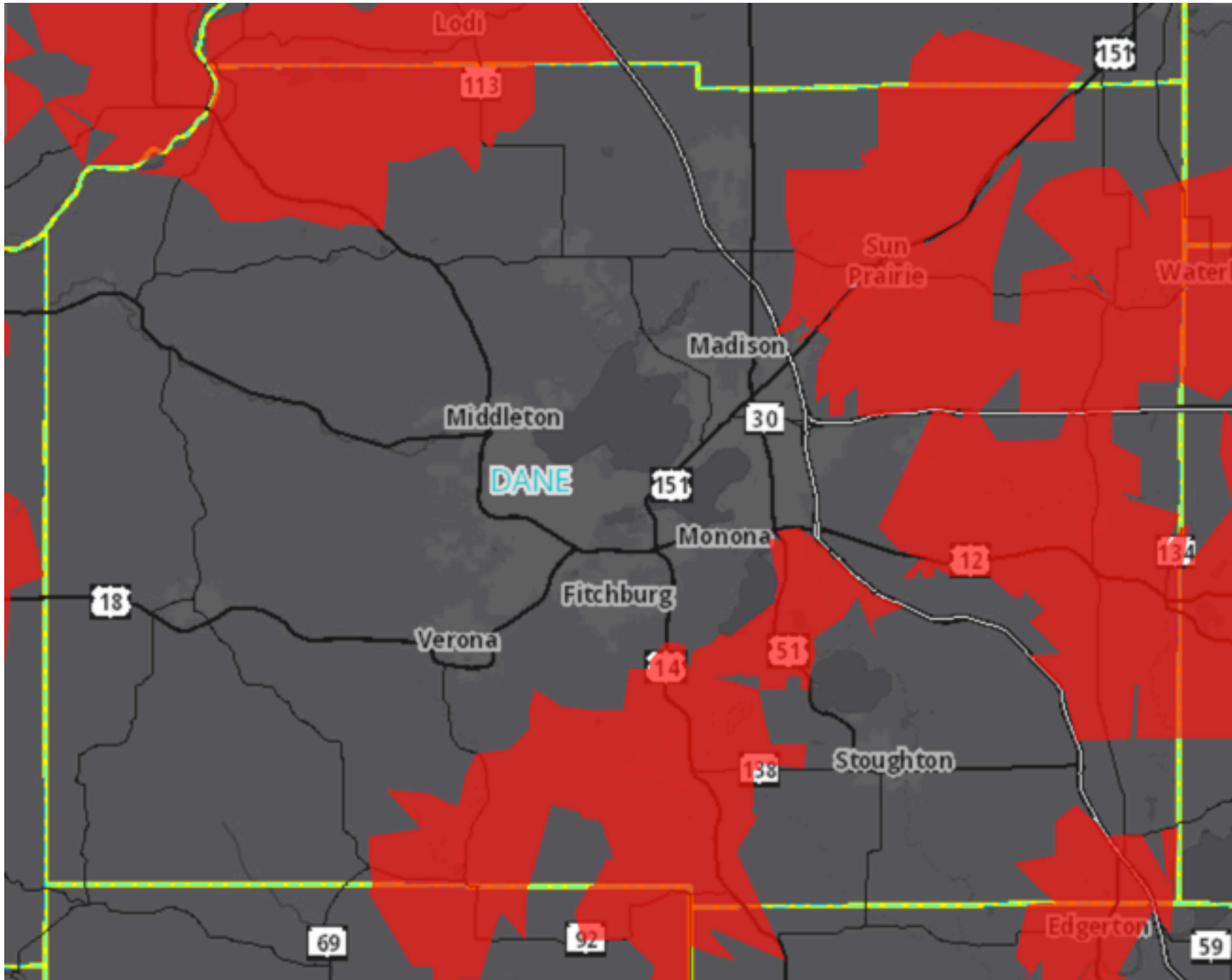
Providers

- TDS



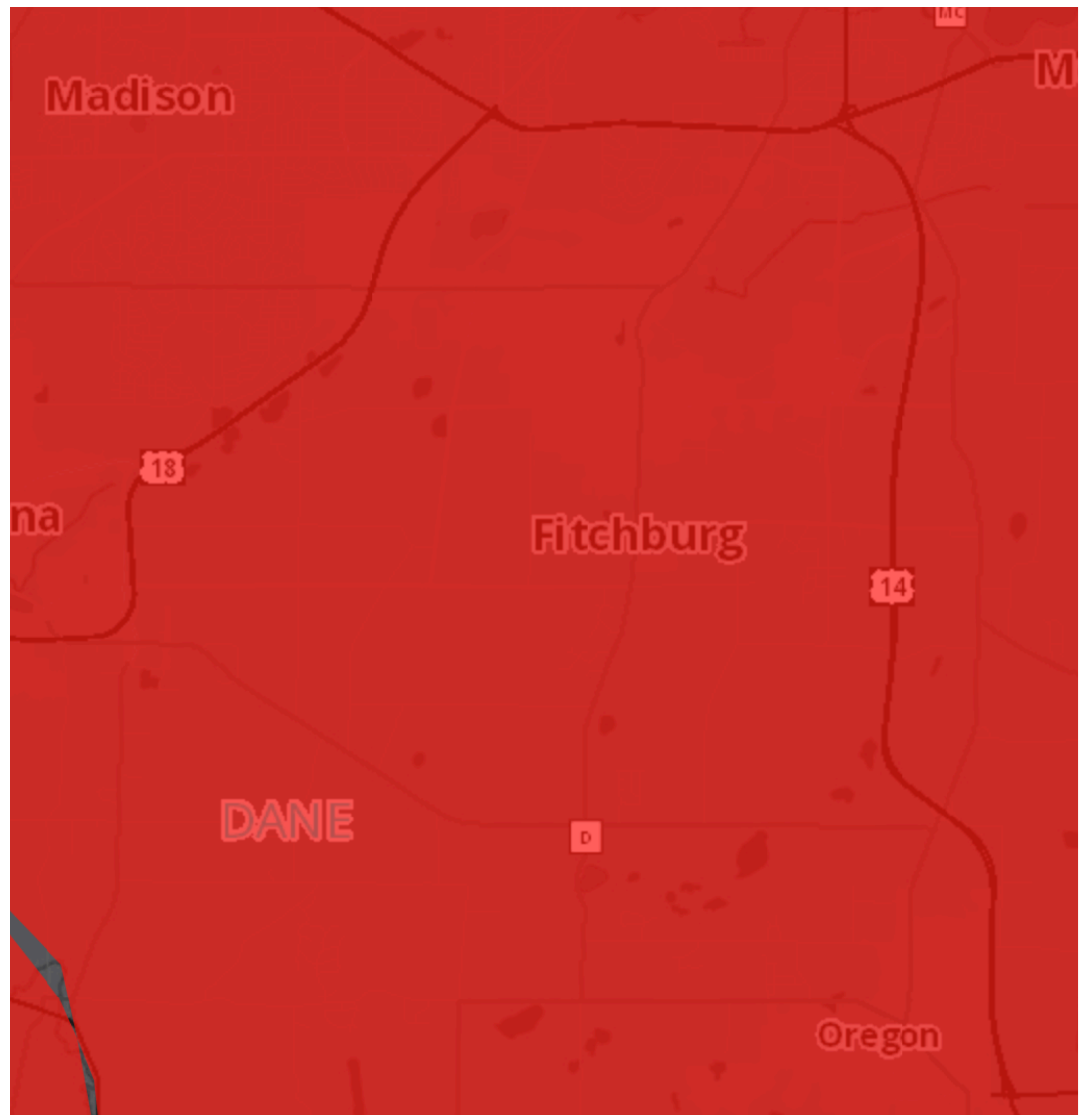
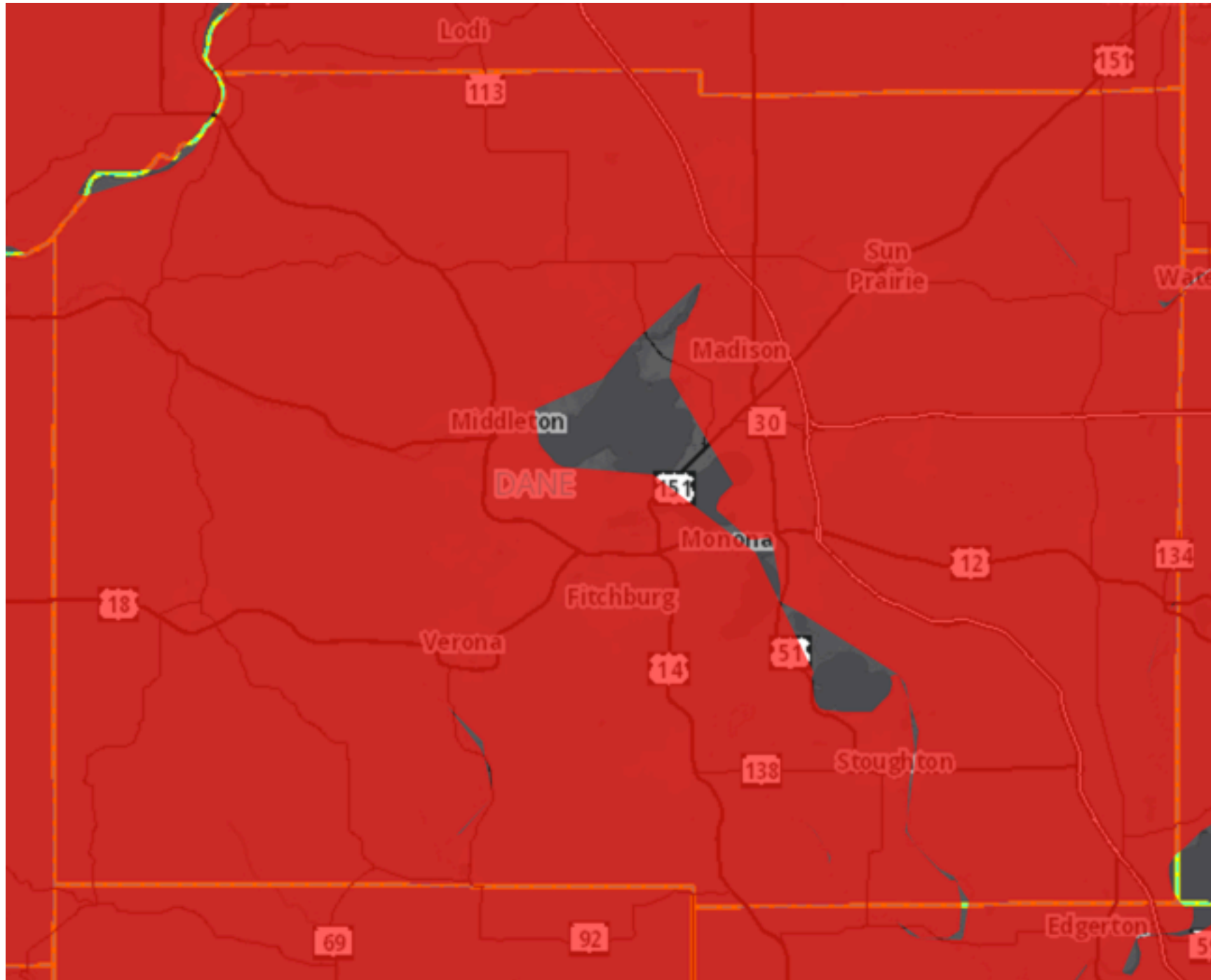
Providers

- Frontier



Providers



- **Satellite Companies**



Providers

•Satellite Companies

The best satellite internet providers of 2021

Provider		
Data	15–300 GB/mo.	10–50 GB/mo.
Speeds	Up to 100 Mbps	Up to 25 Mbps
Price	\$30.00–\$150.00/mo.*	\$59.99– \$149.99/mo.
Get it	View plans or call: 855-413-9012	View plans or call: 855-820-6707

Actual speeds may vary and are not guaranteed.

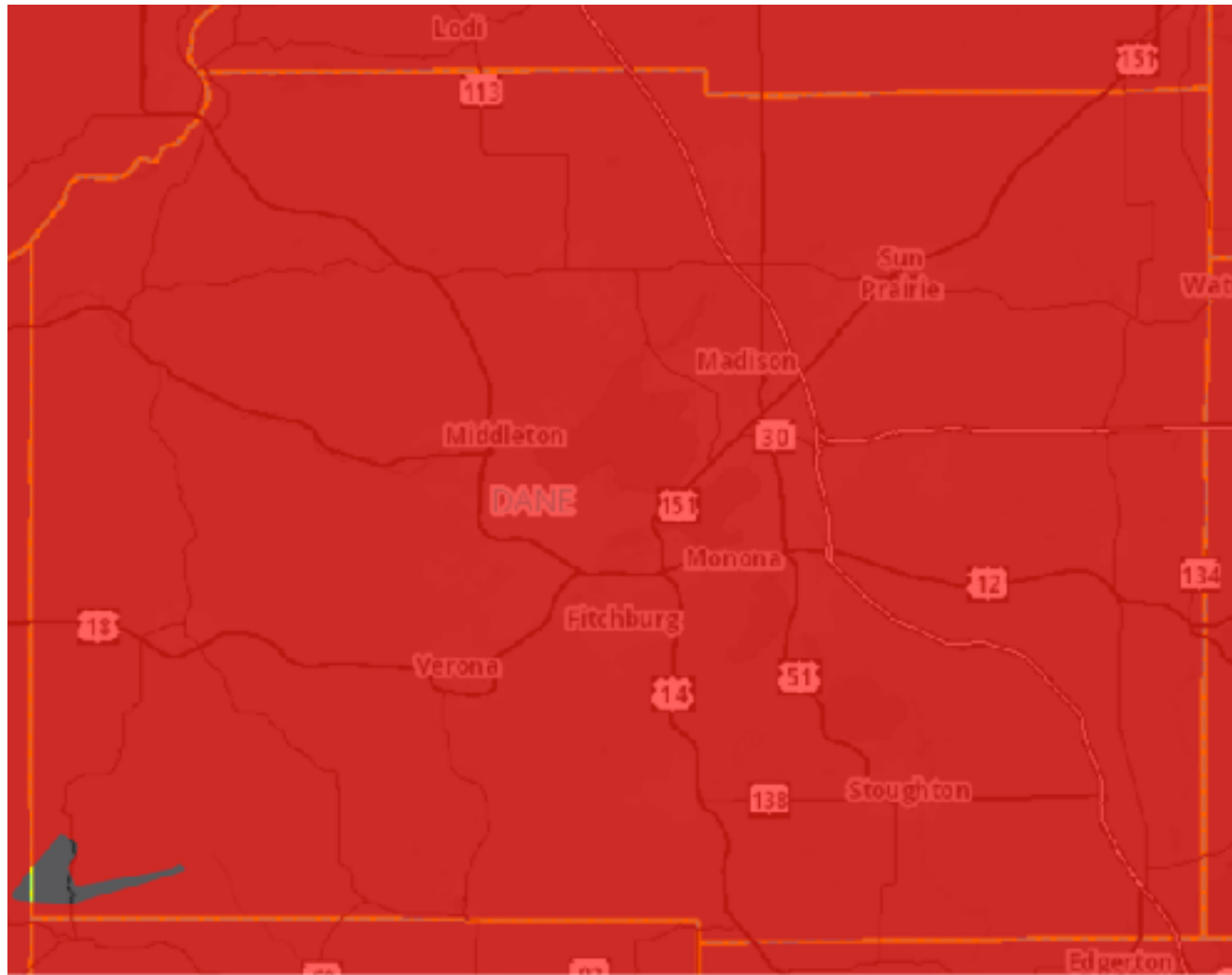
*Promotional price is for the first 3 months. Regular internet rate applies after 3 months (\$50–\$200/mo.).

†Service plans require a 24-month commitment.

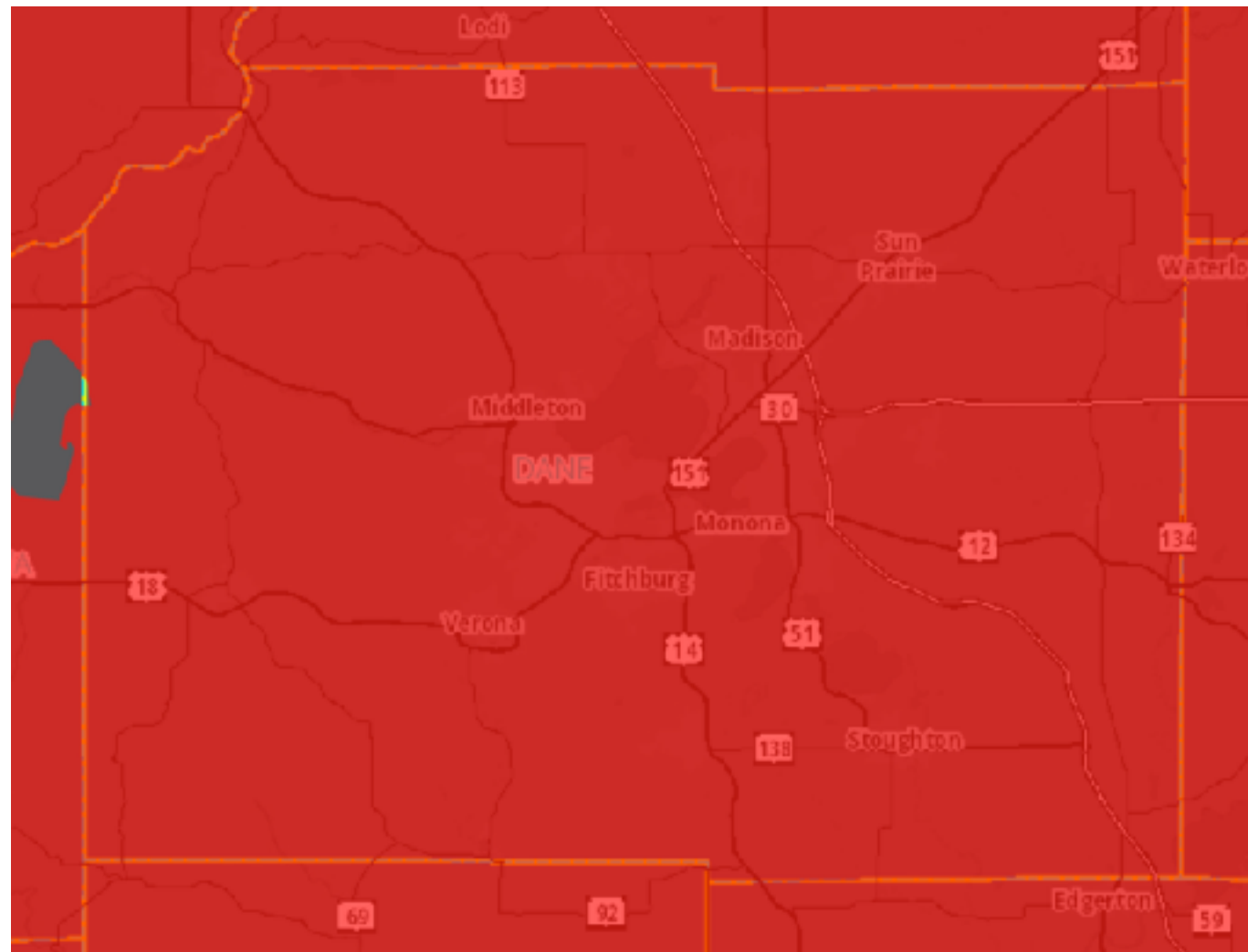
Providers

•Wireless Companies

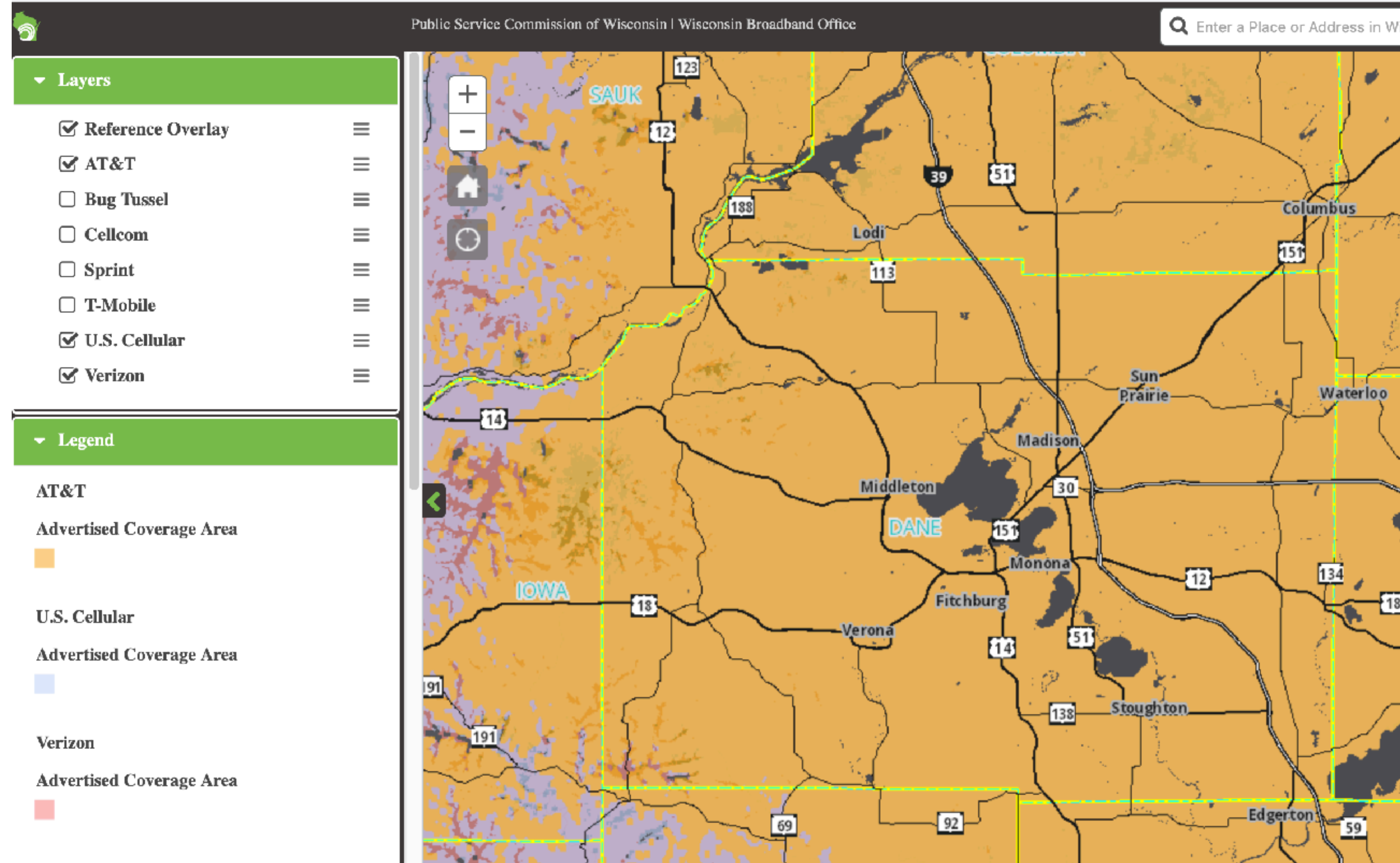
Broadband Coverage Map



US Cellular

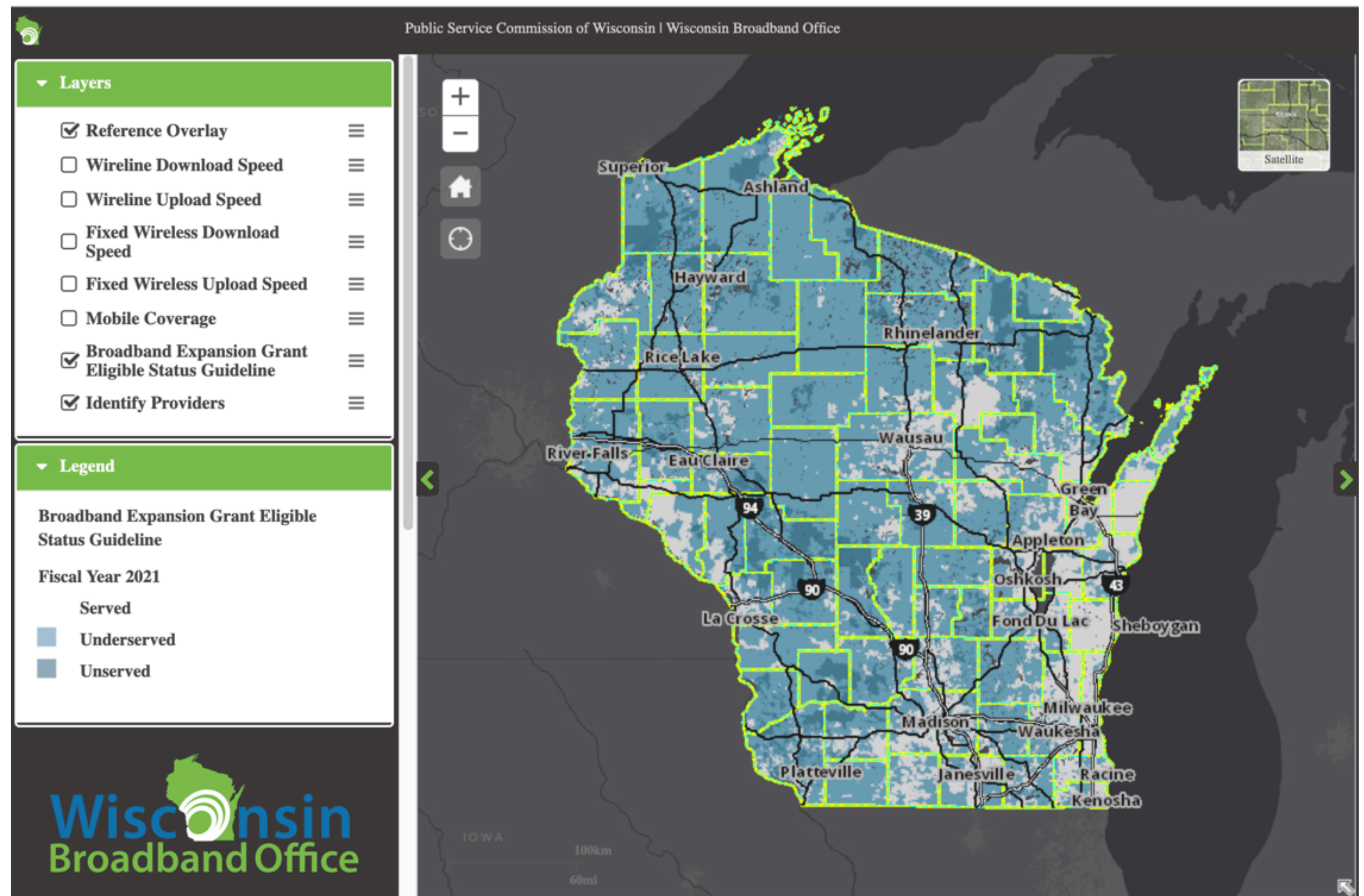


Verizon Wireless



Mobile Wireless Coverage

WI Broadband Grant



WI Broadband Grant

What is the purpose of the Broadband Expansion Grant Program?

The purpose of the Broadband Expansion Grant Program is to encourage the deployment of advanced telecommunications capability in underserved areas of the state.

Broadband Expansion Grants

Fiscal Year 2021

On June 8, 2020, Governor Tony Evers and Rebecca Cameron Valcq, Chairperson of the Public Service Commission of Wisconsin, announced key application dates for the next round of grants available from the Broadband Expansion Grant Program.

- Applications are available on September 1, 2020.
- Applications are due on December 1, 2020.

In this grant round, \$24 million has been made available to applicants to help expand broadband internet to unserved areas of the state.

Application Materials for Fiscal Year 2021

Application materials may be found at the following links:

[Letter to Persons Interested in the Broadband Expansion Grant Program](#)

 [Application Instructions](#)

 [Application Instructions](#)

 [Budget and Income Summary](#)

[View Unserved and Underserved Areas \(Wisconsin Broadband Map\)](#)

[Unserved and Underserved Areas Mapping Data \(Includes Census block listing with grant eligibility status.\)](#)

 [Sample Grant Agreement \(DRAFT\)](#)

 [Frequently Asked Questions](#)

Broadband Expansion Grant Webinars

The Wisconsin Broadband Office is hosting a number of webinars for interested persons and potential applicants to attend to learn more about the grant application process.

New this year we are hosting a special session on "How to Map Your Project."

[Webinar Schedule](#)

[Broadband Grant and Instructions Overview](#)

[Recording Available \(Registration required to view\)](#)

[How to Map Your Broadband Grant Project](#)

[Recording Available \(Registration required to view\)](#)

WI Broadband Grant State-PSC Broadband Map

Layers

- Reference Overlay
- Wireline Download Speed
- Wireline Upload Speed
- Fixed Wireless Download Speed
- Fixed Wireless Upload Speed
- Mobile Coverage
- Broadband Expansion Grant Eligible Status Guideline
- Identify Providers

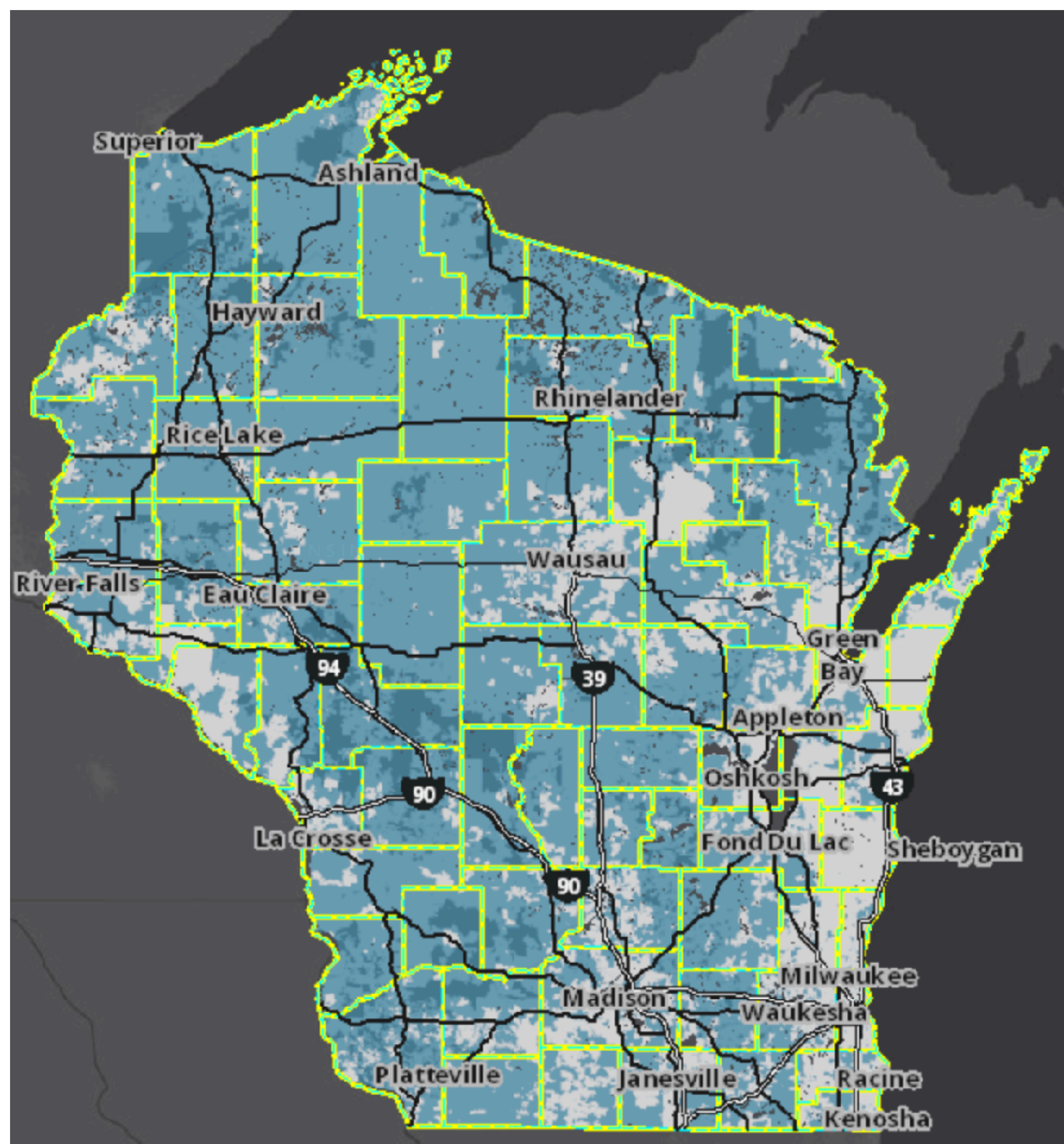
Legend

Broadband Expansion Grant Eligible Status Guideline


Fiscal Year 2021

- Served
- Underserved
- Unserved

Wisconsin Broadband Office



WI Broadband Grant State-PSC Broadband Map





Layers


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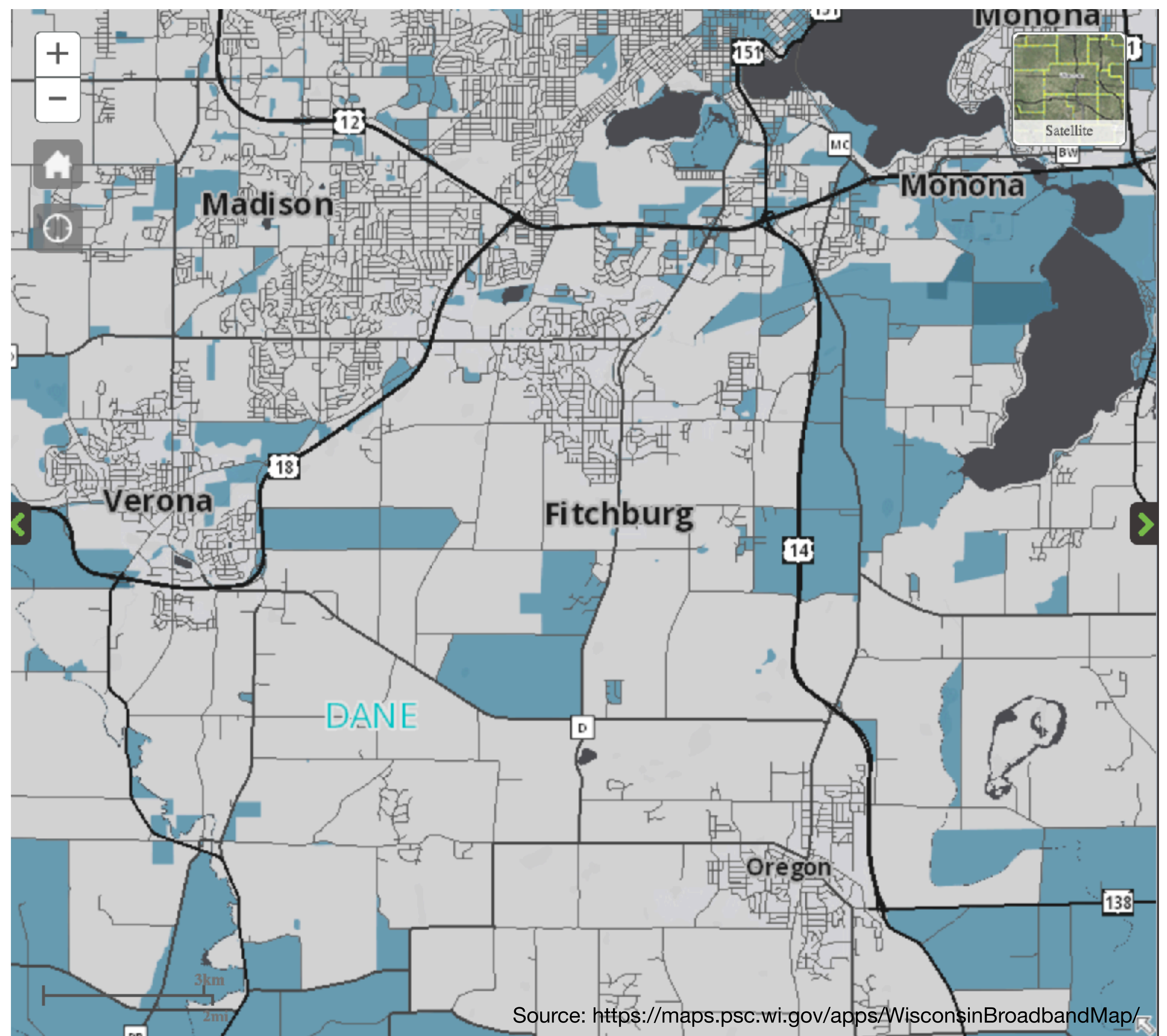
Legend

Broadband Expansion Grant Eligible Status Guideline


Fiscal Year 2021

- Served
-  Underserved
-  Unserved





WI Broadband Grant State-PSC Broadband Map





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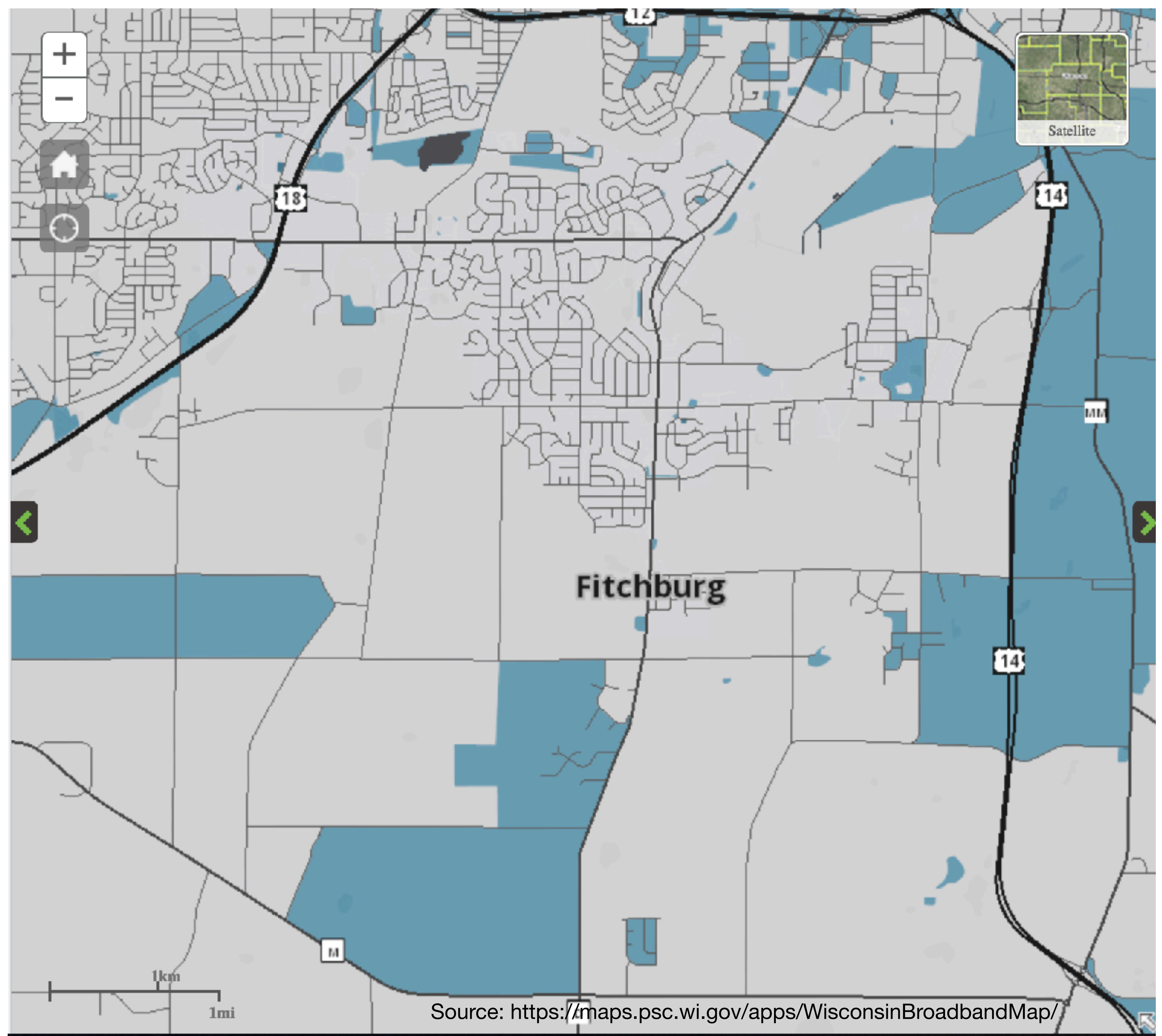
Legend

Broadband Expansion Grant Eligible Status Guideline

Fiscal Year 2021

- Served
-  Underserved
-  Unserved



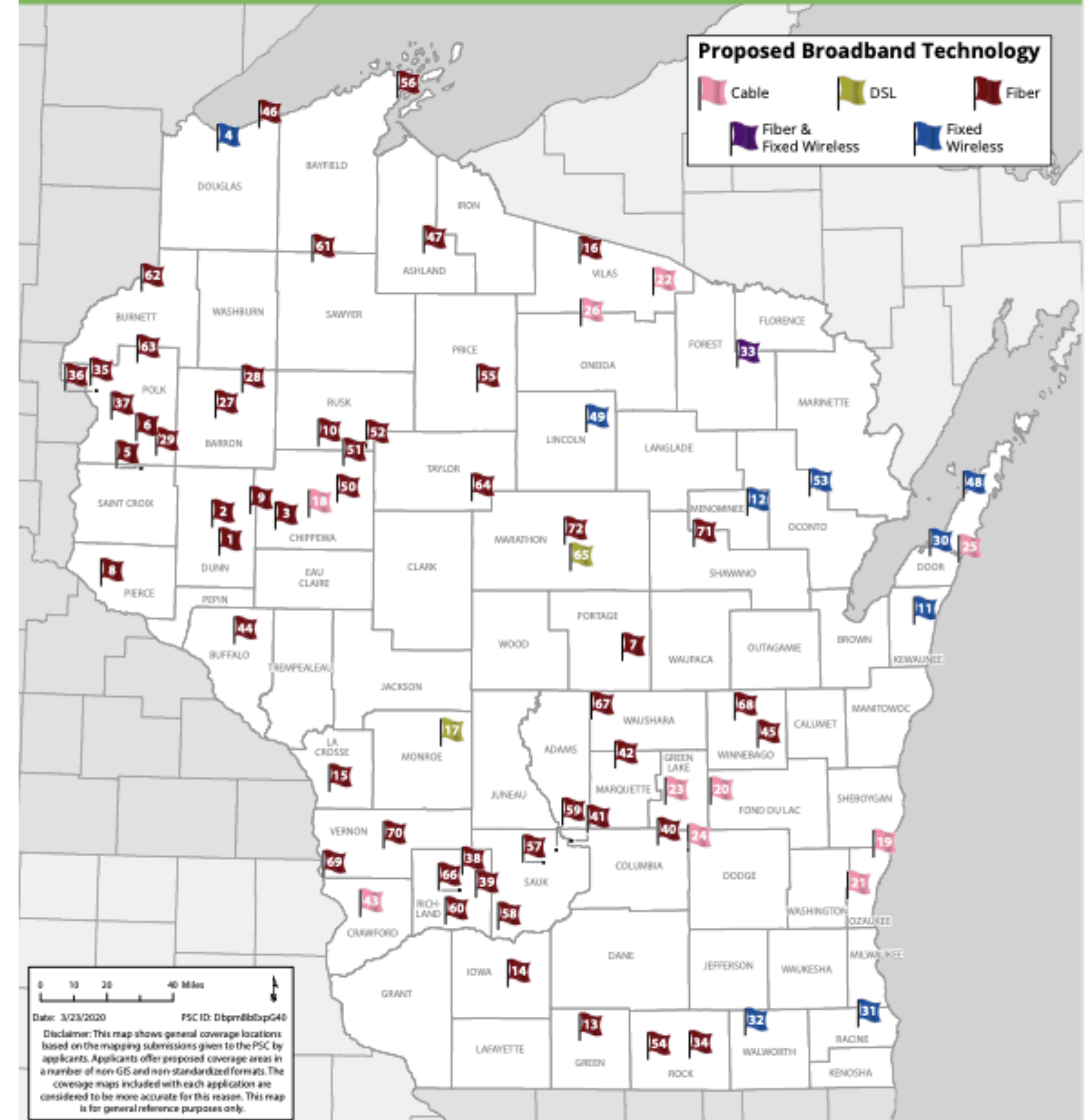


WI Broadband Grant Broadband Expansion Grant Awardees 2021

BROADBAND EXPANSION GRANT AWARDEES, FISCAL YEAR 2020 Presented by the Wisconsin Broadband Office

Map Label	Project	Request Total	Map Label	Project	Request Total
1	24-7 Telcom, Inc. #1 (CTH J)	\$273,300	37	Lakeland Comm. #6 (T. St. Croix Falls, Deer Lake)	\$41,850
2	24-7 Telcom, Inc. #2 (T. Sherman)	\$680,000	38	LaValle Tel. Coop. #1 (T. Rockbridge, Phase 2)	\$399,000
3	24-7 Telcom, Inc. #3 (T. Wheaton)	\$79,500	39	LaValle Tel. Coop. #2 (STH 58)	\$290,000
4	AirFiber, Inc. (Douglas Co.)	\$140,000	40	Marquette-Adams Tel. Coop. #1 (T. Marcellon, Randolph, & Scott)	\$193,689
5	Amery Telcom, Inc. #1 (T. Cylon)	\$82,250	41	Marquette-Adams Tel. Coop. #2 (T. Newport)	\$172,801
6	Amery Telcom, Inc. #2 (T. Lincoln)	\$81,000	42	Marquette-Adams Tel. Coop. #3 (T. Newton)	\$116,808
7	Amherst Tel. Co. (T. Buena Vista & Dayton)	\$478,985	43	Mediacom LLC #1 (Co. Crawford)	\$256,685
8	BEVCOMM / Hager Telecom (T. Diamond Bluff, Phase 3)	\$444,211	44	Nelson Comm. (Gehrke Road)	\$12,500
9	Bloomer Tel. Co. (T. Colfax)	\$608,538	45	Northern Tel. & Data #1 (EAA Grounds)	\$199,782
10	Bruce Tel. Co. (Chippewa Ave.)	\$36,307	46	Norvado/Chequamegon Comm. Co-op. #1 (T. Cloverland)	\$443,000
11	Bug Tussel Wireless #1 (Co. Kewaunee)	\$960,000	47	Norvado/Chequamegon Comm. Co-op. #2 (STH 13)	\$392,000
12	Bug Tussel Wireless #2 (Menominee Indian Tribe of WI.)	\$756,000	48	Nsight Teleservices #2 / Bayland Tel. (V. Egg Harbor)	\$48,960
13	Bug Tussel Wireless #4 / Hilbert Comm., LLC (Green County)	\$1,000,371	49	Nsight Teleservices #7 / Brown County C-LEC, LLC (Co. Langlade & Lincoln)	\$358,205
14	Bug Tussel Wireless #5 / Hilbert Comm., LLC (Iowa County)	\$732,310	50	Ntera #1 (T. Arthur & Estella)	\$397,641
15	CenturyLink #3 (Boma Coulee)	\$35,676	51	Ntera #2 (Cranberry Lake)	\$63,117
16	CenturyLink #4 (Boulder Junction)	\$1,624,094	52	Ntera #3 (V. Sheldon)	\$238,660
17	CenturyLink #9 (Tomah)	\$111,010	53	Oconto County EDC (Phase 2)	\$182,058
18	Charter Comm. #1 (T. Anson)	\$49,000	54	Orfordville, Town of	\$303,224
19	Charter Comm. #2 (T. Belguim)	\$8,658	55	Price County Tel. Co. (T. Prentice)	\$950,000
20	Charter Comm. #5 (V. Fairwater)	\$76,744	56	Red Cliff Band of Lake Superior Chippewa Indians	\$107,698
21	Charter Comm. #8 (T. Jackson)	\$54,716	57	Reedsburg Utility Commission #1 (T. Excelsior)	\$173,000
22	Charter Comm. #10 (T. Lincoln & Washington)	\$133,645	58	Reedsburg Utility Commission #2 (River Valley, Phase 2)	\$542,500
23	Charter Comm. #12 (V. Marquette)	\$341,461	59	Reedsburg Utility Commission #3 (Vanhy & Reedsburg Roads)	\$182,500
24	Charter Comm. #16 (V. Randolph)	\$104,034	60	Richland Grant Tel. Coop. (STH 80)	\$405,000
25	Charter Comm. #20 (T. Sturgeon Bay)	\$188,044	61	Sawyer County & Lac Courte Oreilles EDC (Co. Sawyer)	\$41,400
26	Charter Comm. #21 (T. Woodruff)	\$16,500	62	Siren Tel. Co. #2 (Hayden Rd. & Yellow River)	\$152,447
27	Chibardun Tel. Coop. #2 (T. Barron)	\$71,163	63	Starwire Technologies #3 (T. Clam Falls, Phase 3)	\$300,566
28	Chibardun Tel. Coop. #3 (Tuscobia)	\$123,423	64	TDS #4 / Midway Tel. Co., LLC (Stetsonville)	\$265,460
29	Clear Lake Tel. Co. (V. Clear Lake)	\$350,000	65	TDS #5 / Mosinee Tel. Co., LLC (Mosinee)	\$1,058,610
30	Door County Broadband LLC #4 (T. Nasewaupsee)	\$65,282	66	Tech Com (Co. Richland)	\$228,000
31	e-vergent.com (T. Raymond & V. Yorkville)	\$248,458	67	Union Telephone (T. Coburn & Hancock)	\$598,805
32	Edge Broadband / Whitewater Wideband (Lake Lorraine, North & Turtle Lakes)	\$283,467	68	US Internet (Co. Winnebago)	\$2,250,000
33	Forest County	\$939,200	69	Vernon Comm. Co-op. #1 (V. De Soto)	\$129,525
34	Janesville, City of	\$114,230	70	Vernon Comm. Co-op. #2 (Co. Vernon, Phase 4)	\$472,600
35	Lakeland Comm. #2 (T. Eureka, Phase 3)	\$153,100	71	Wittenberg Tel. Co. #1 (V. Bowler)	\$457,508
36	Lakeland Comm. #3 (T. Eureka, Phase 4)	\$187,825	72	Wittenberg Tel. Co. #2 (C. Marathon City)	\$36,902

BROADBAND EXPANSION GRANT AWARDEES, FISCAL YEAR 2020 Presented by the Wisconsin Broadband Office

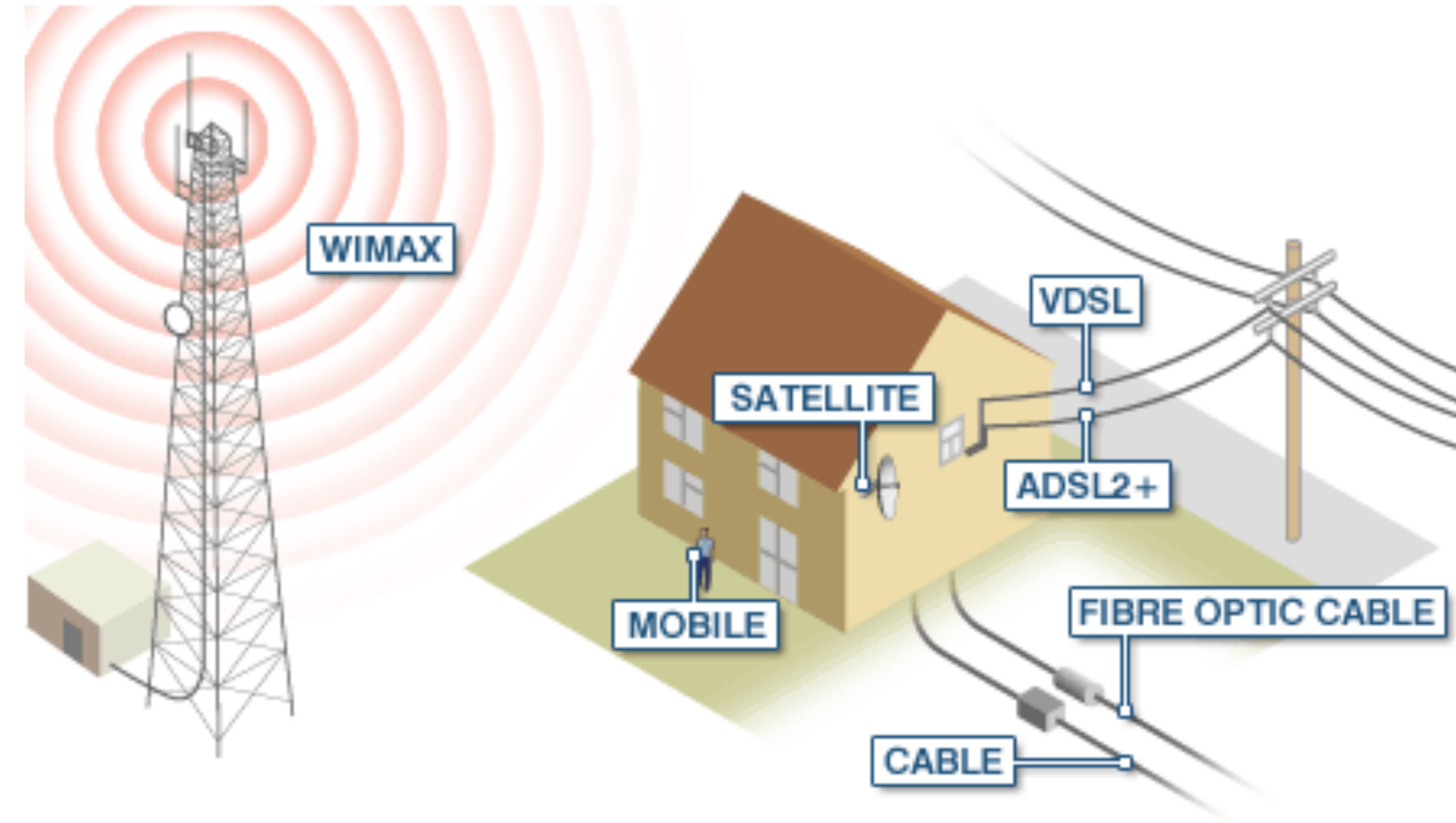


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Future of Broadband

HOW FUTURE BROADBAND GETS INTO THE HOME



Future of Broadband

Internet Speeds Are Rising

Most of America already has access to home internet speeds of 1 Gigabit per second (Gbps) via cable's broadband networks. Millions of miles of fiber-rich broadband networks have been deployed over the last several decades, powering our video and broadband internet experiences. New technologies have dramatically improved the ability to transfer data at a much higher rate. In the near future, further development and deployment of these technologies will enable the same networks to deliver 10 Gigabit speeds in the coming years.

The Path To Gigabit Internet

Over the last decade, top broadband speeds have increased exponentially from 16 Mbps all the way to 2 Gbps. In 2008, only 16% of Americans had access to internet service of 10 Mbps. Today, 96% of Americans can access a 25/3 Mbps connection and 1 gigabit speeds are available to over 80%.

80%

U.S. homes have access to 1 Gbps internet speeds

12,400%

Increase in top available internet speeds in the last ten years

15GB

Amount of data needed daily to make autonomous cars a reality

Future of Broadband

Home broadband providers face an uncertain future in the 5G era

Analysts, mobile network providers, and home broadband companies have starkly different views about how 5G will impact how consumers get online. Some say 5G will upend the current broadband reality, while others, including the cable companies that stand to lose a huge cash cow, argue that 5G will have limited impact on their businesses.

What is clear is that 5G can provide download speeds of up to 10 Gbps, which is much faster than most existing wireless and home broadband connections. Cable company home broadband plans often start at 100Mbps—a fraction of what's possible with 5G.

T-Mobile, Verizon, and [AT&T](#) plan to invest billions of dollars in 5G networks over the next several years. They say they can replace home broadband providers, like Cox, [Comcast](#), and Charter, which for decades, have had a big share of the home Internet market. Cable company Cox insists that 5G won't significantly impact its home broadband business. In fact, it says 5G and broadband are complementary, similar to existing broadband and wireless networks.

At minimum, Cox says that 5G cell towers will have to be connected to wired lines to function. Providing that back-end infrastructure is a huge opportunity, says the company, which already powers 82% of the non-5G towers currently in operation in its coverage area.

Future of Broadband

Wireless Internet

10G: The Next Great Leap for Broadband

10G is the broadband platform of the future that will deliver residential internet speeds of 10 gigabits per second – 10 times faster than today's networks. With upgraded power and capacity, 10G will enable creators and innovators to fulfill their dreams while providing reliability and security

Speed

Getting to 10G

Reaching 10Gbps speeds requires innovation. Deployment of several types of DOCSIS technologies will improve performance of our existing networks, without having to update the infrastructure. For example, DOCSIS 3.1 gives the ability to transmit up to 50 percent more data, enabling improved quality of video conferencing, virtual reality, live gaming, and connected devices. It also supports symmetrical upload and download speeds, therefore shortening response time to 1 millisecond, and removing lag time, or "latency."

Future of Broadband

Satellite Companies



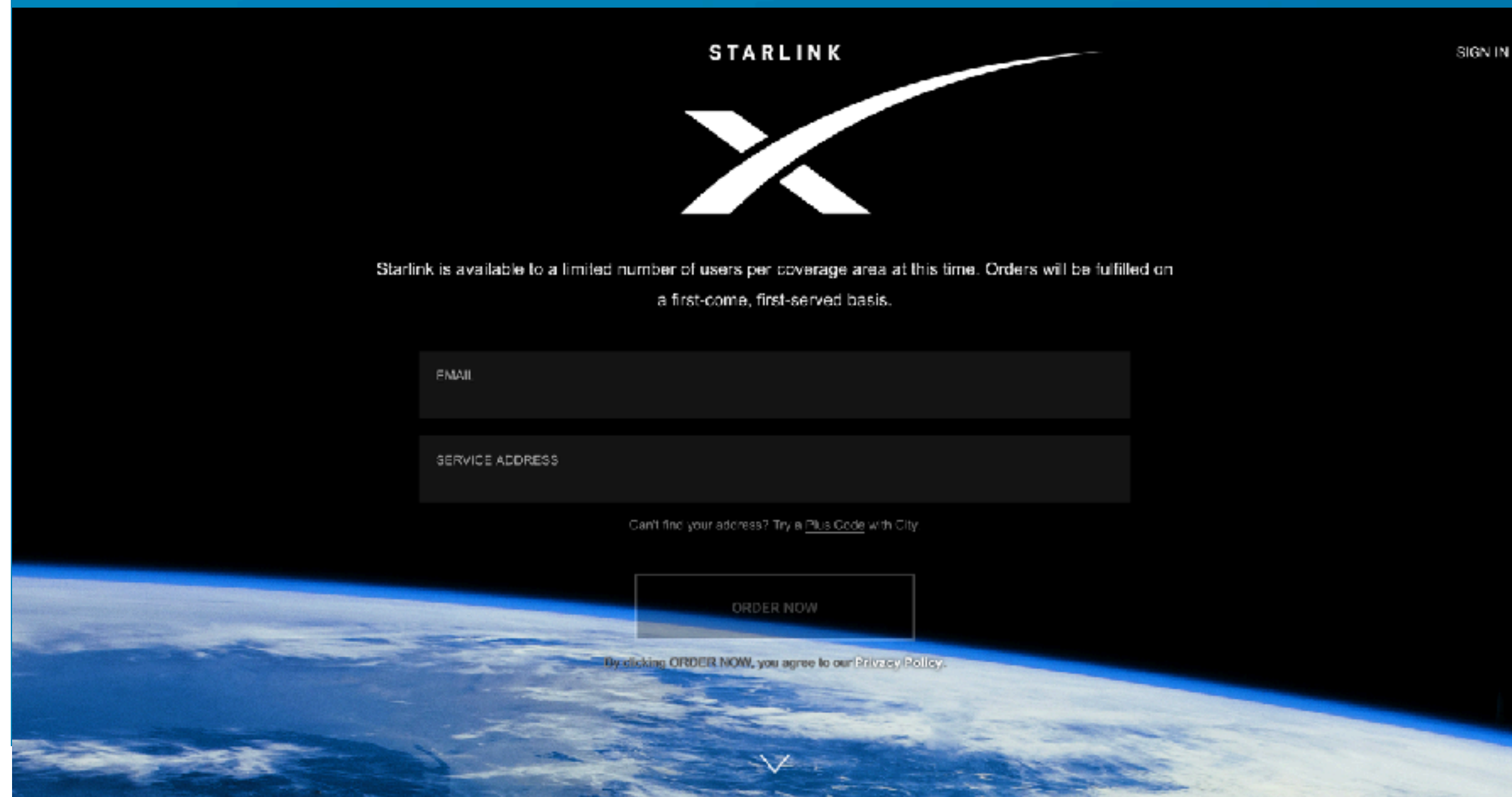
Find Providers

Resources

Search for...

SpaceX Starlink Satellite Internet Service

What to know about Starlink before you sign up for the "Better than Nothing Beta."



- ✓ \$99/mo. satellite internet service
- ✓ Download speeds vary: 50–150 Mbps
- ✓ Unlimited data
- ✗ \$499 one-time equipment fee
- ✗ Periodic outages (beta test phase)
- ✗ Limited availability