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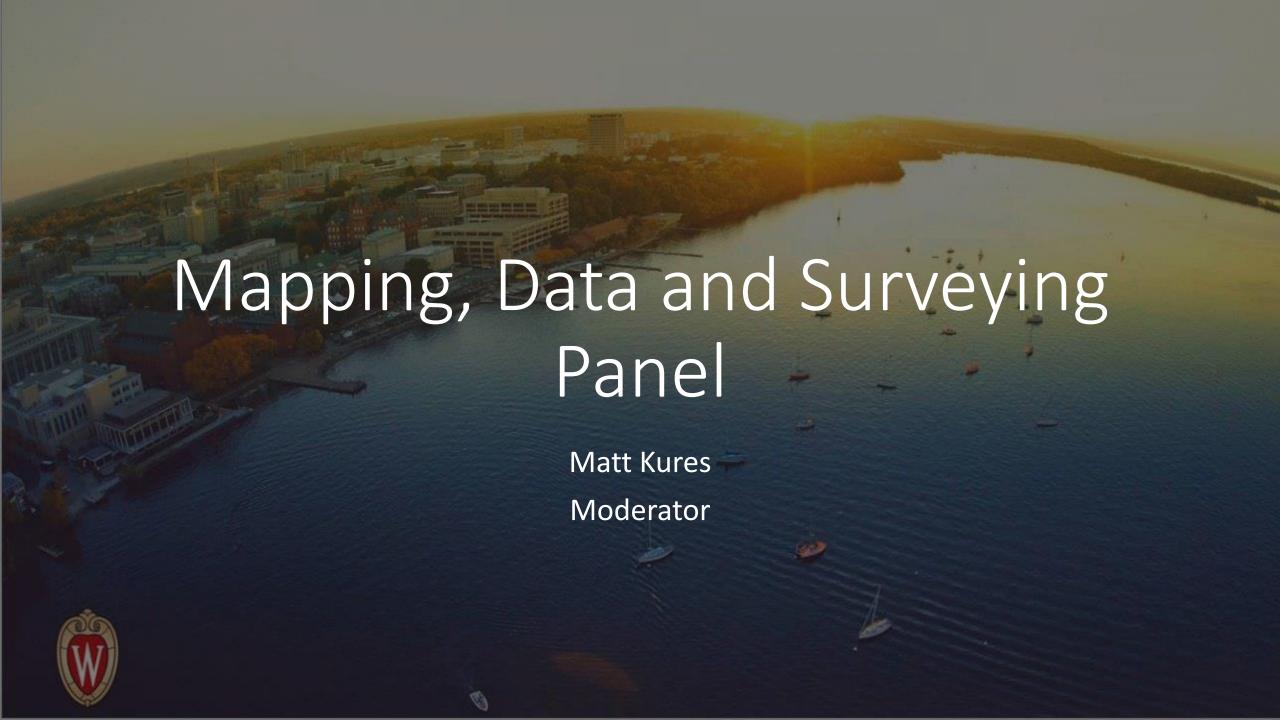


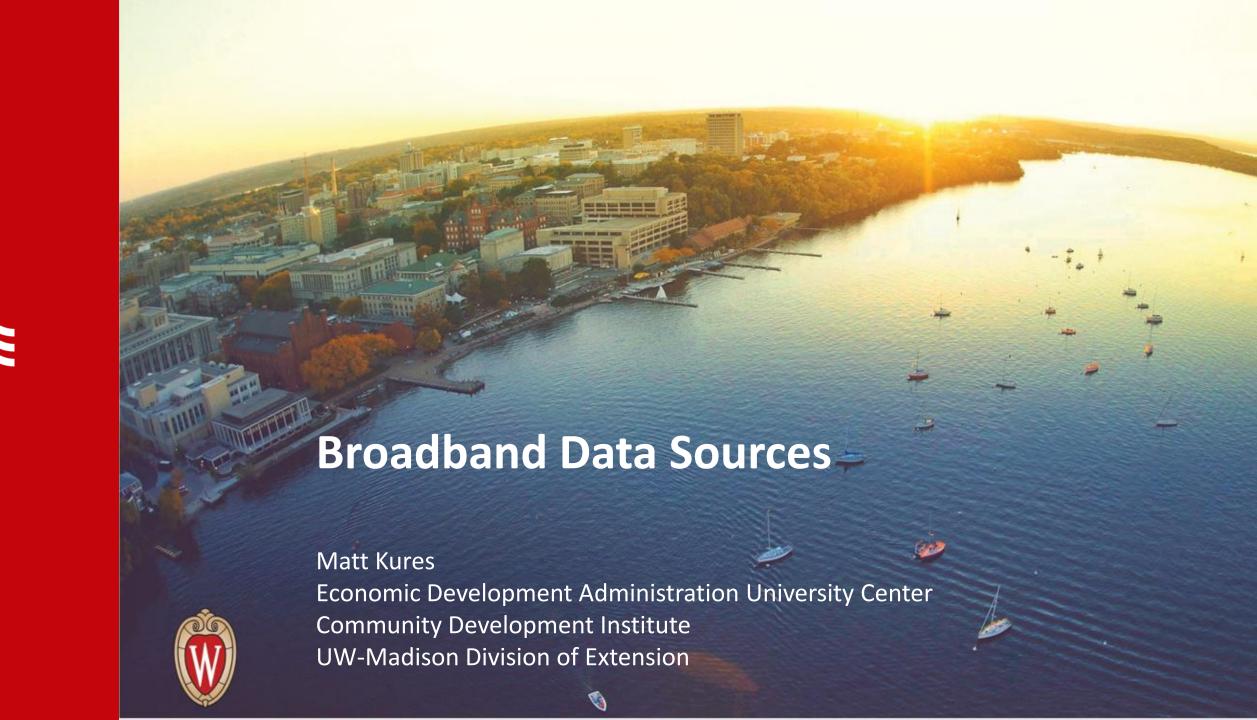


Today's meeting was made possible by a grant from the
United States Department of Commerce Economic Development Administration
in support of the
Economic Development Administration University Center
at the
Community Development Institute
Division of Extension
University of Wisconsin-Madison.

Any opinions, findings, conclusions or recommendations are those of the presenters and do not necessarily reflect the views of the U.S. Department of Commerce Economic Development Administration

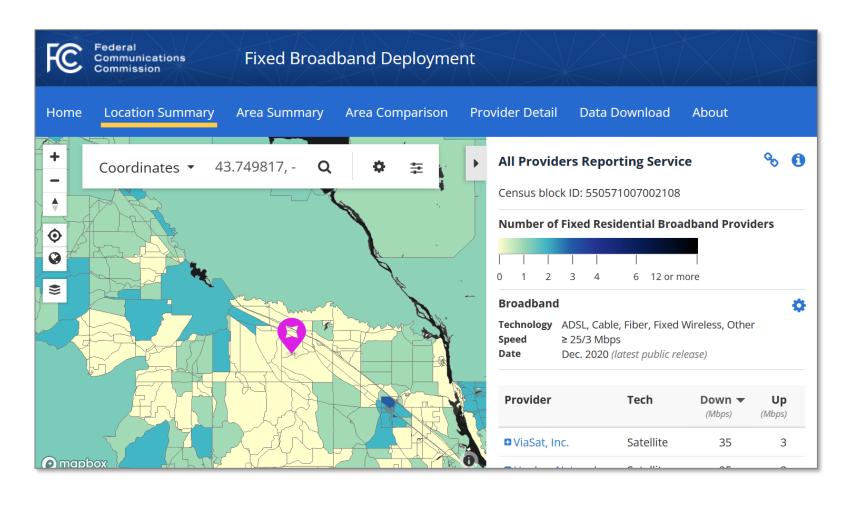






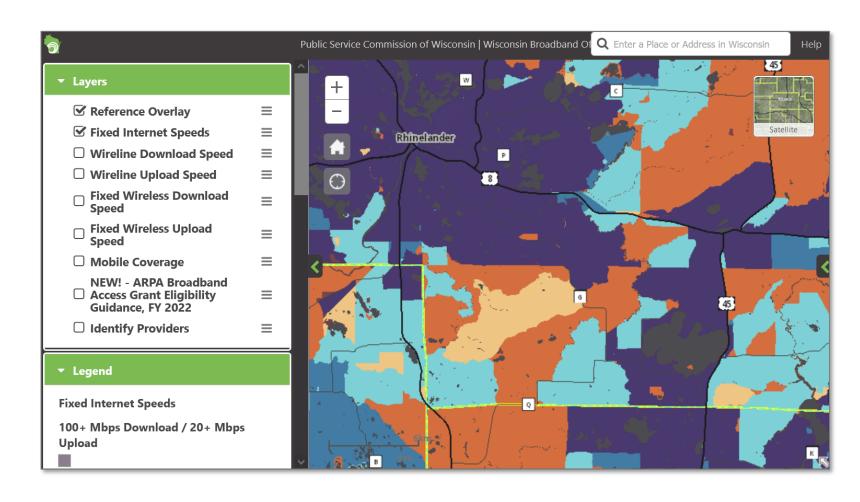
Federal Communications Commission Broadband Map - https://broadbandmap.fcc.gov/

- Based on FCC Form 477 Data, available at the Census Block level which can be aggregated to other geographies.
- Ability to filter access by speed, technology and year;
- Overestimates
 coverage one
 household served =
 entire census block
 served;
- Maximum advertised speeds, not necessarily actual speeds.



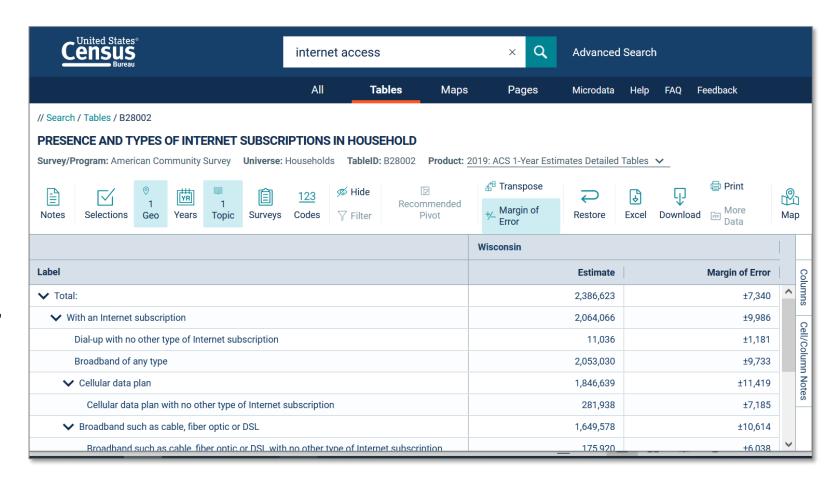
Wisconsin Broadband Map – Wisconsin Broadband Office, Public Service Commission of Wisconsin https://maps.psc.wi.gov/apps/WisconsinBroadbandMap/

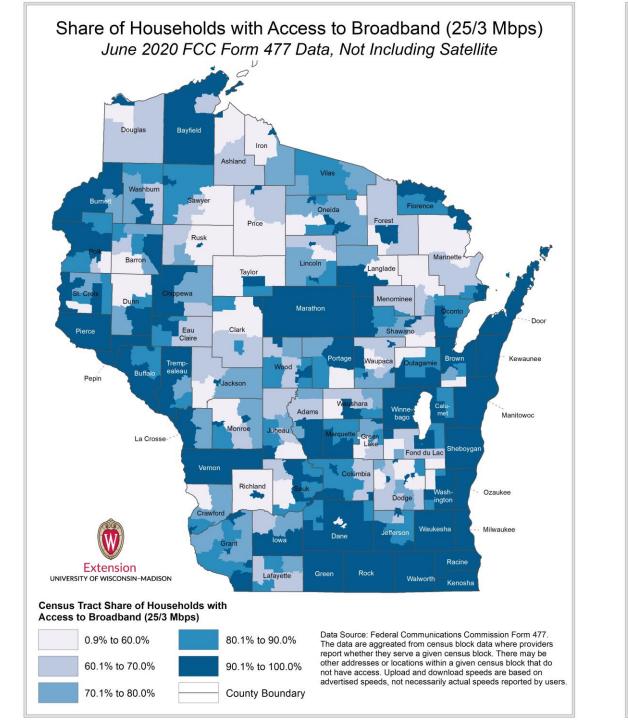
- Based on FCC Form 477 Data supplemented with submitted provider data
- Coverage layers for wired, wireless, mobile, etc.;
- Additional information on individual providers;
- Ability to map a specific county;
- Allows maps to be exported/printed in a variety of formats.



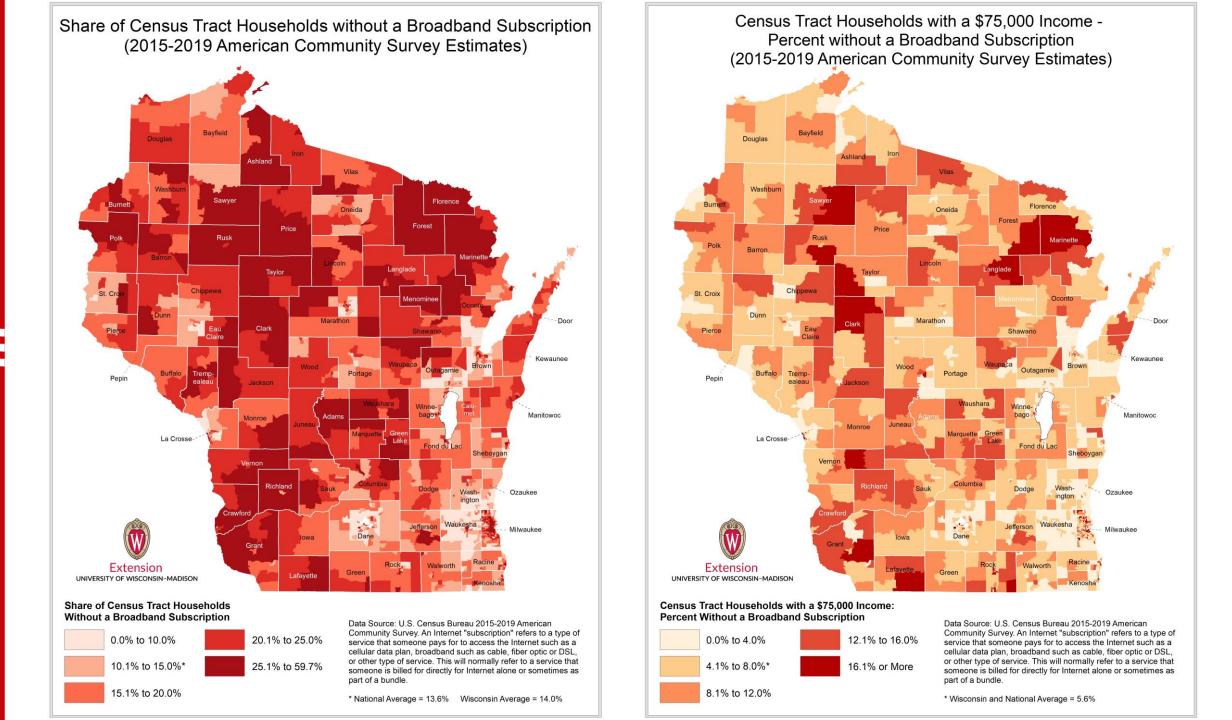
American Community Survey – U.S. Census Bureau data.census.gov

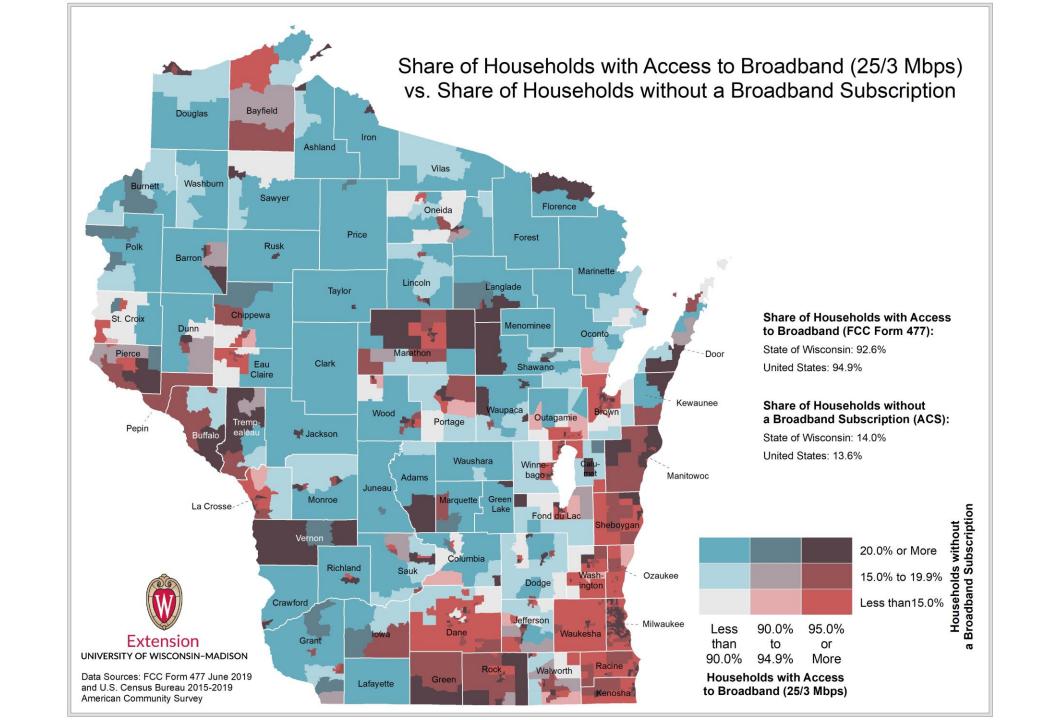
- Estimates of Internet and broadband access by total households/population and demographic characteristics;
- Some table numbers of interest: S2801,S2802, B28001, B28002, B28003, B28004, B28005, B28006, B28007;
- Available by different geographic levels (county, place, census tract, etc.);
- Estimates include margins of error.





Census Blocks without Access to Broadband (25/3 Mbps) June 2020 FCC Form 477 Data, Not Including Satellite -Door Kewaunee Manitowoc Milwaukee Racine Extension UNIVERSITY OF WISCONSIN-MADISON Walworth Data Source: Federal Communications Commission Form 477. Census Block without Broadband Access (25/3) The data are aggreated from census block data where providers report whether they serve a given census block. There may be other addresses or locations within a given census block that do County Boundary not have access. Upload and download speeds are based on advertised speeds, not necessarily actual speeds reported by users.

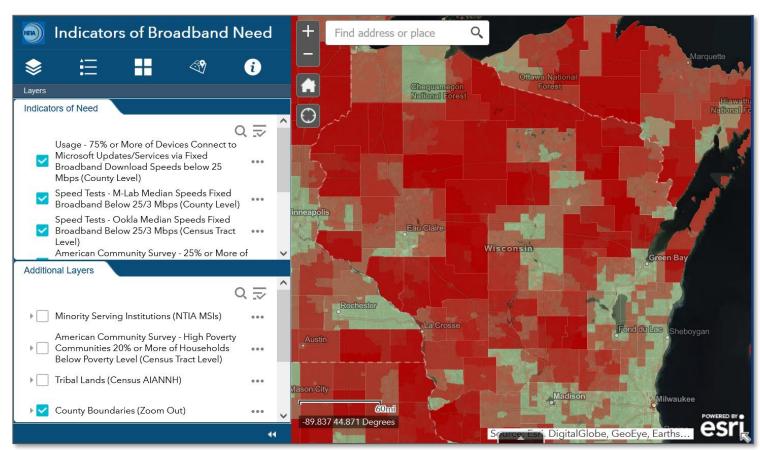




National Telecommunications and Information Administration (NTIA) Indicators of Broadband Need

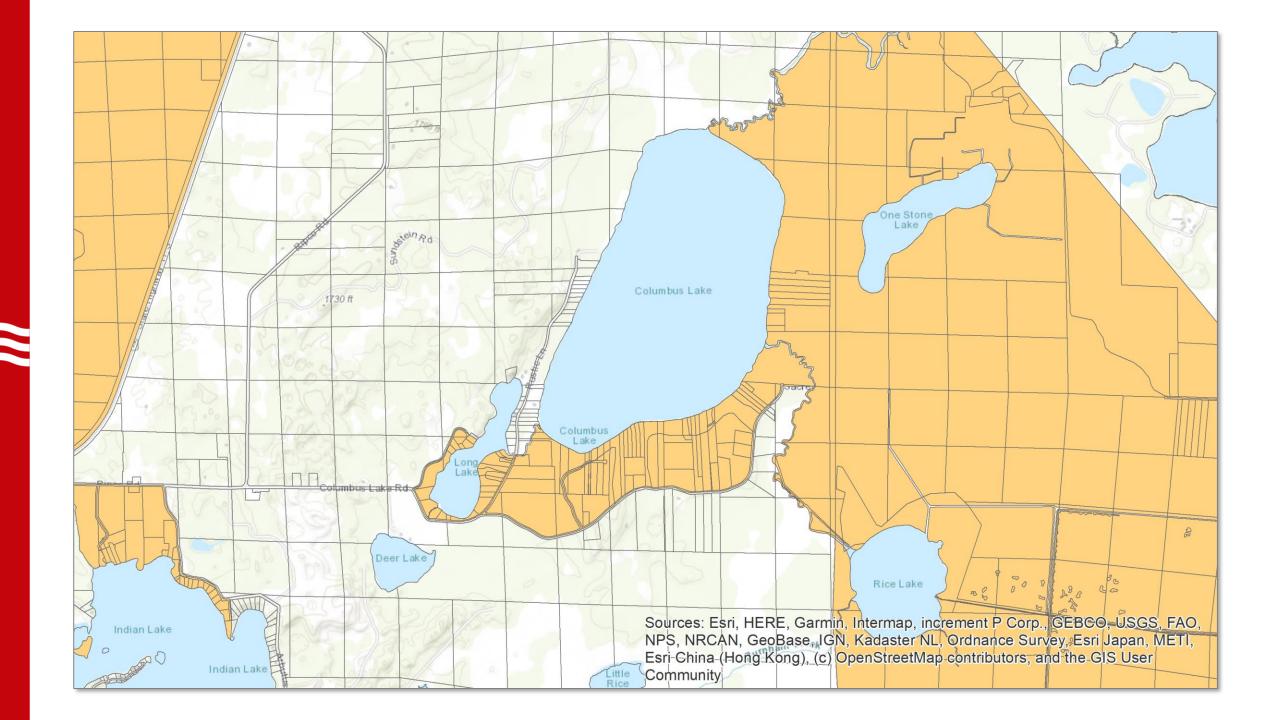
https://broadbandusa.ntia.doc.gov/resources/data-and-mapping

- Census Tracts with 25% of households reporting no internet access or without a device;
- Speed Tests from Ookla and M-Lab;
- Connection speeds from Microsoft;
- High poverty Census Tracts
- Eligible Minority Serving Institutions (MSIs) under NTIA's Connecting Minority Communities grant program



Additional Resources

- Michigan State Broadband Integrated Time Series (BITS) https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0250732
- Speed Tests M-Lab, Ookla, Local and Regional Efforts (Brown County, MadREP, New North, DPI, etc.);
- Surveys New North, Dunn County, Iowa County, etc.
- Statewide Parcel Dataset https://maps.sco.wisc.edu/Parcels/
- Broadband Now
 - National Broadband Map: https://broadbandnow.com/national-broadband-map
 - Zip Code Pricing Data: https://github.com/BroadbandNow/Open-Data



Contact Information

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Mapping, Data and Surveying Panel

August Neverman

Brown County Broadband and BCCAN Director.

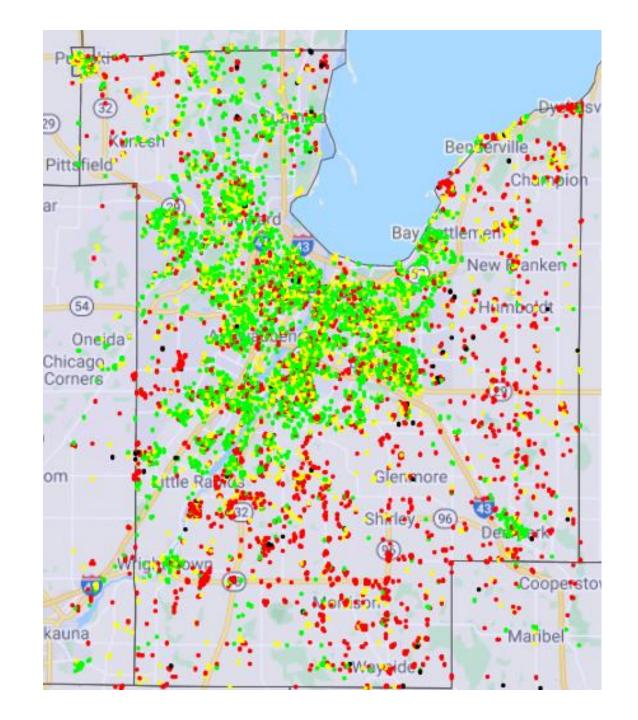
Broadband Champion, I/T Team leader, cyber security evangelist, futurist and geek.

VP and writer for CommonSenseHome.COM, Former Brown County CIO, IT Director Medical College of Wisconsin, IT Manger with Prevea and Hospital Sisters Health System, private consultant, and served in the MN Air National Guard

https://www.linkedin.com/in/augustneverman/

What we did in Brown County

- Started Rural Broadband Sub-Committee of County Board
- Got Townships and Villages to share link to speedtest
- Social Media Blitz with link to speedtest
- QR code linking to Speedtest with printable handouts for Libraries, schools, local gov.
- Got on TV



Communication: https://www.browncountywi.gov/broadband

We did a vanity URL on the website to simplify public access.



Government

Departments

Community

Brown County Broadband Speed Test

Brown County Broadband Speed Test Initiative > General Information

Choose Section



Help Us Improve Brown County Broadband

Take our speed test to help define and advance broadband infrastructure improvement throughout Brown County - or click on our interactive photos below to learn more.



Take the Speed Test



Broadband In **Brown County**



View Map of **Current Results**



What Speeds Do Need?

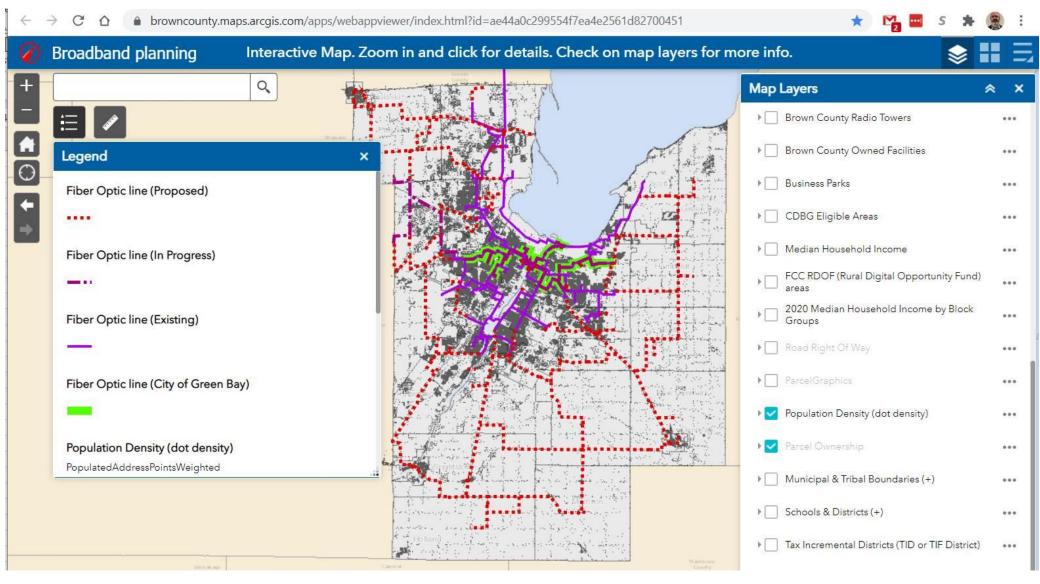


What Are Others Doing?



Broadband Affordability

Data layers help ALL utilities



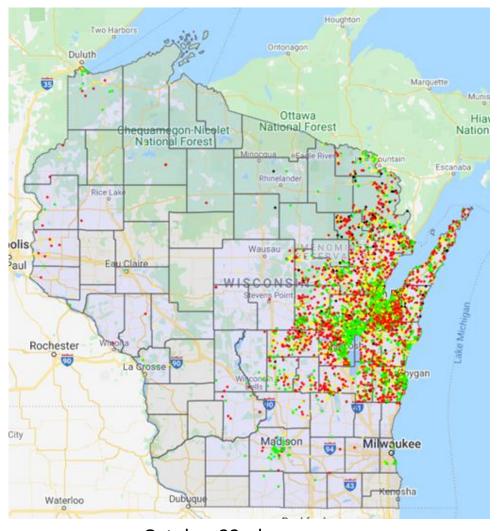
Results

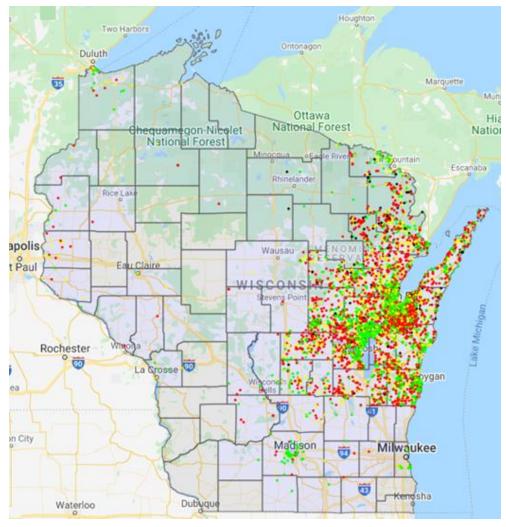
Direct access to raw data (even after the survey ends) we keep the data Information isn't perfect because some people clearly chose not to pay for service. Also we know some data is flawed because people could have been doing uploads/downloads.

Even with those limitations we have good data

- 1. Found out nearly entire region is below 100mbps down and 20mbps up
- 2. Rural areas below even the minimum 25/3
- We can share population data mixed with speed tests to help smaller providers know WHERE to provide services.
- 4. We can ensure ARPA, NTIA and other grant compliance
- Utilities are aware of the municipal fiber and that they can lease it at cost.

Regional Progress NewNorth 18 County Region

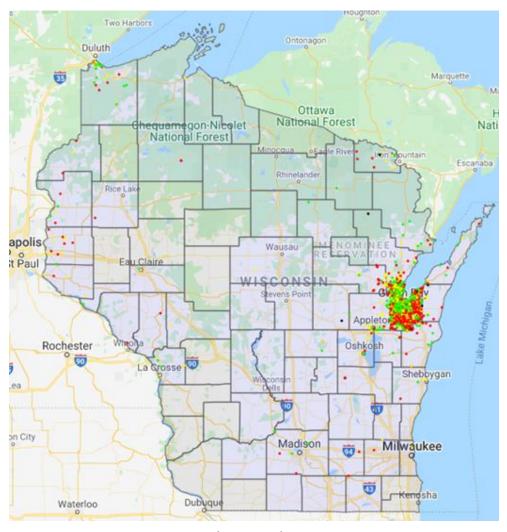


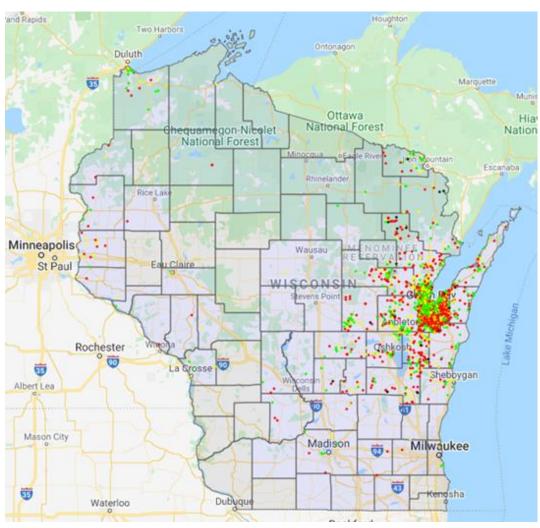


October 22nd

November 4th

Regional Progress NewNorth 18 County Region





September 30th

October 15th

NewNorth Regional Broadband Study

- Survey AND speed test
- High participation likely because of direct mailing, TV, and social media blitz
- Goal is to provide regional data similar to Brown County PLUS information regarding the NEEDs of the home or business

Partnered with Design Nine and GeoPartners LLC

More info on the NewNorth Grant: https://www.thenewnorth.com/broadband-access/

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Brown County Broadband and BCCAN Director
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Community Survey

Prepared by:

Barry Hottmann

Community Development Educator

University of Wisconsin-Madison, Division of

Extension

Iowa County, Wisconsin



Survey Details

- Previous broadband survey completed in 2017
- •6653 paper surveys sent out in 2020
- 1350 survey responses
 - ~250 paper surveys were returned
 - Majority received via our online survey portal
- •>20% response rate
- Marketing
 - Facebook
 - Articles in local papers (press release)
 - The paper surveys themselves
 - School districts



Why the survey?

- Some background
 - Current situation
 - Opportunities for improvement
 - Grants, partners, resources, and services
- But really for so many reasons...
 - Education/Learning
 - Telecommuting for work
 - Telemedicine
 - Mental Health
 - Economic Development



Some results.

- 92% of respondents stated the internet is extremely to very important (64% in 2017)
- 43% said they are somewhat to extremely dissatisfied with their available service(s)
- 27% would be willing to pay \$81 over \$100 per month, as compared to only 10% in 2017.
- 92% said yes or maybe regarding a willingness to pay a one-time installation fee, and 51% would pay from \$250 to over \$1000

Results continued...

- 267 have home-based businesses, and another 226 would like to start a home-based business in the future
- 486 would like to telecommute in the future, but over 15% were unable to telecommute due to poor or no access
- 14 pages of additional comments
- 594 interested in helping if they can



What did we find?

- It's not good in our rural areas and we need to be committed to improving it. – SWWRPC GIS resource
- It's not a one size fits all solution in stages.
- It's going to take a committed effort
 - Strategic partnerships public/private, healthcare, education, business and industry
 - Out of the box thinking
 - Financial support
 - Grants and planning



Recent study.

Broadband is becoming increasingly important to community and economic well-being. It is linked to better business performance, including rural entrepreneurship and farm profits. It is also linked to higher home values and higher educational outcomes at both the grade school and high school levels. Broadband access also corresponds to improved health outcomes, which can lead to higher worker productivity.

Source: EDA University Center Page on Broadband in Wisconsin

https://economicdevelopment.extension.wisc.edu/eda-university-center/the-wisconsin-economy/broadband-internet-and-the-wisconsin-economy/



What was learned?

- Changes to the language in the survey confusion around what is broadband
- More education prior to the survey
- Building relationships with partners
- Commitment by county
- Commitment by municipalities
- Plan ahead shovel ready projects



Questions?

- Send me an email or give me a call:
 - barry.hottmann@wisc.edu
 - 608-930-9850



