

Broadband Expansion: Door County, WI



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Agenda

- Door County Broadband Expansion Overview
- GIS Broadband Planning Tools
- GIS Integration with PSC Data
- FCC BSL Location Accuracy
- Next Steps
- Summary
- Questions



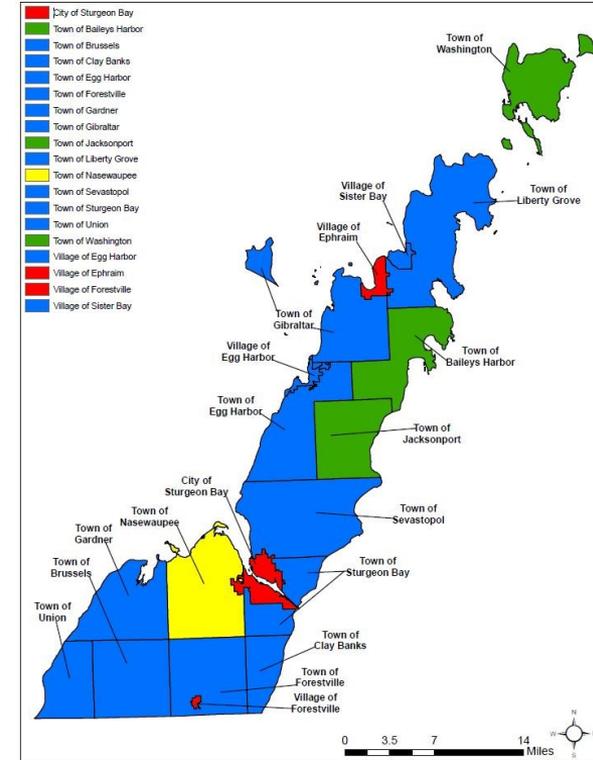
Door County Broadband Expansion Strategy



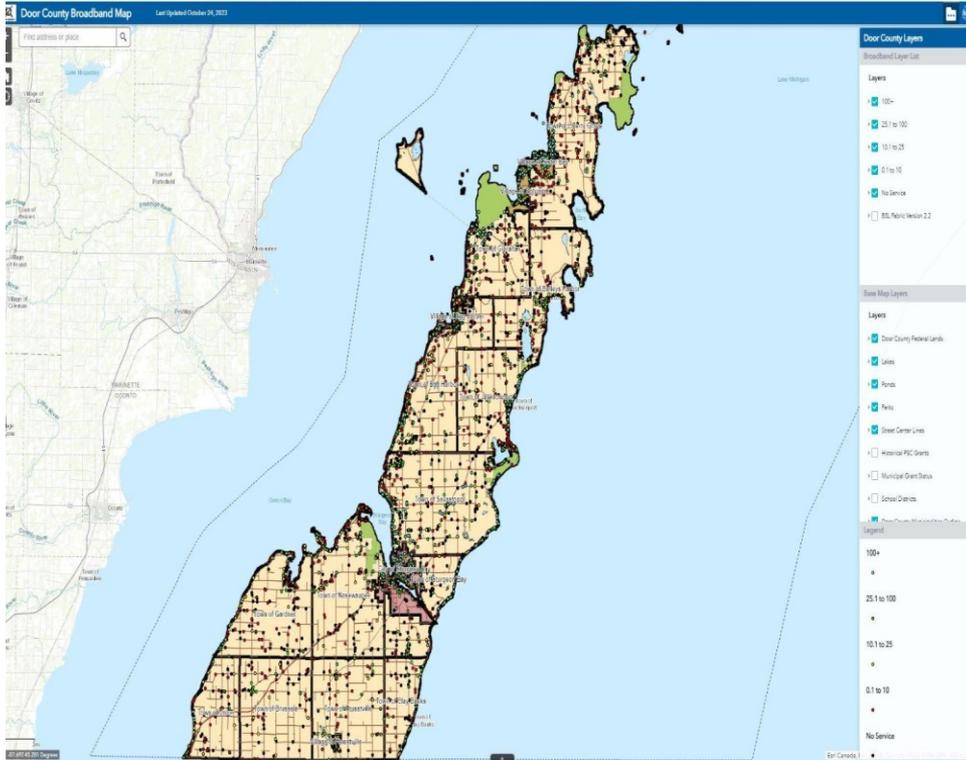
DOOR
COUNTY
WISCONSIN



- County overview
- Broadband Access Statistics
- Federated Deployment Strategy
- Wins



GIS Broadband Planning Tools



Planning Map Initial Layers Include:

- Street Centerlines
- Municipal Boundaries
- Federal Lands
- Inland Lakes
- State and County Parks
- School Districts
- Historic PSC Grants

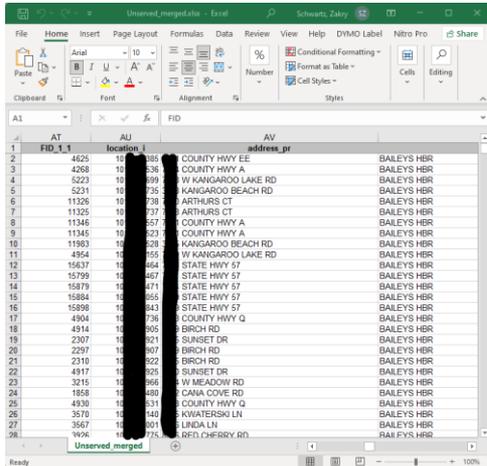
- Location Support
 - E911 addresses (Visual & Excel)
 - Geolocation awareness
 - Aerial Photography

All of this information was to ensure land mass accuracy as well as provide information that was needed by our Municipal partners for local decision making.

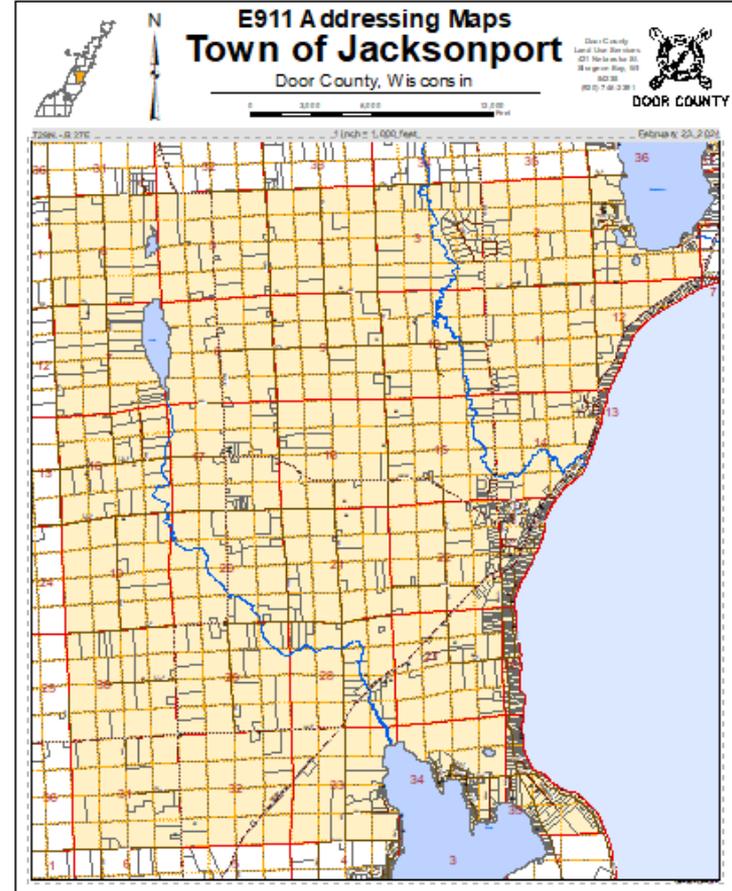
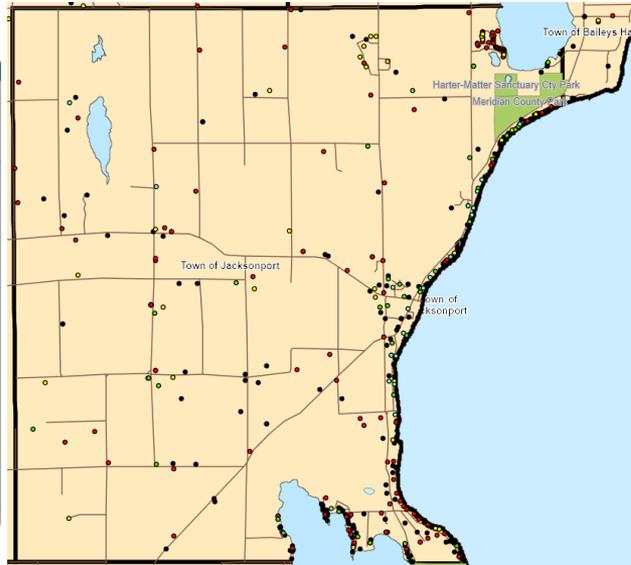
GIS Integration with PSC Processes

Support PSC Geolocation Accuracy Efforts

- What did County do for PSC?
- Results/Learnings
 - Importance of “speaking” geolocations



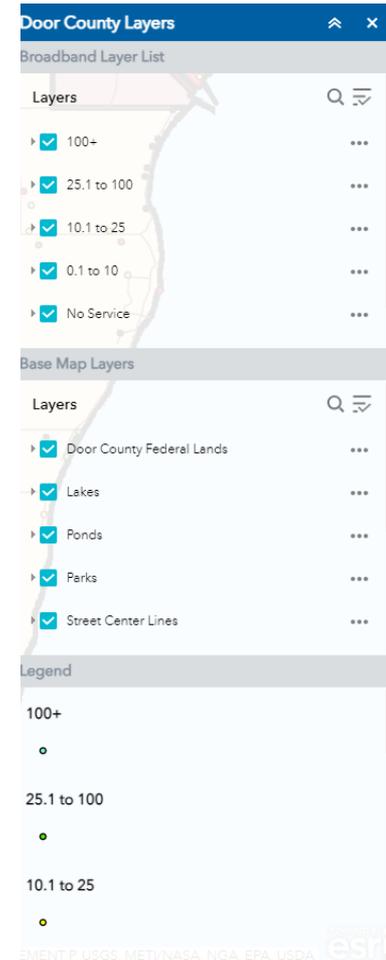
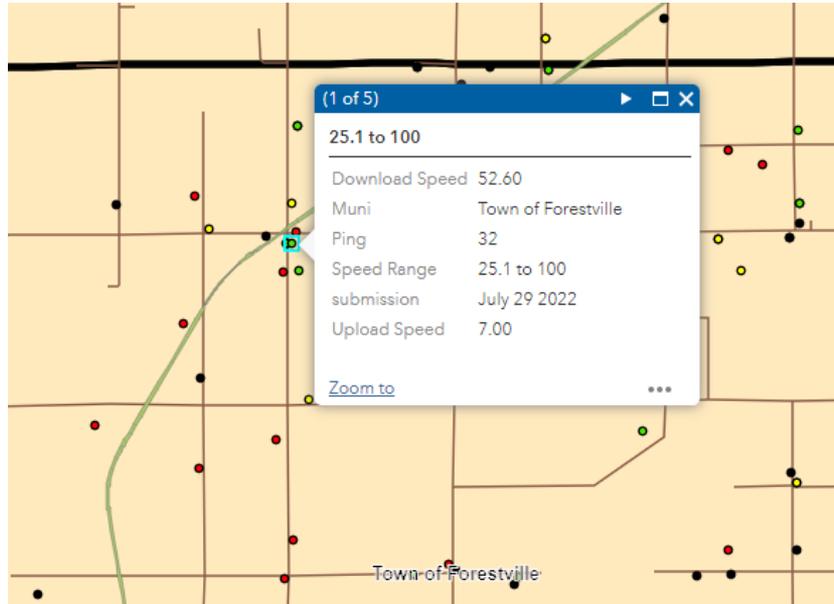
FID	location	address
4425	COUNTY HWY EE	BAILEYS HRR
4268	COUNTY HWY A	BAILEYS HRR
5223	W KANGAROO LAKE RD	BAILEYS HRR
5231	KANGAROO BEACH RD	BAILEYS HRR
11326	ARTHURS CT	BAILEYS HRR
11325	ARTHURS CT	BAILEYS HRR
11346	COUNTY HWY A	BAILEYS HRR
11345	COUNTY HWY A	BAILEYS HRR
11963	KANGAROO BEACH RD	BAILEYS HRR
4954	W KANGAROO LAKE RD	BAILEYS HRR
15637	STATE HWY 57	BAILEYS HRR
15799	STATE HWY 57	BAILEYS HRR
15879	STATE HWY 57	BAILEYS HRR
15884	STATE HWY 57	BAILEYS HRR
15898	STATE HWY 57	BAILEYS HRR
4904	COUNTY HWY Q	BAILEYS HRR
4914	BIRCH RD	BAILEYS HRR
2307	SUNSET DR	BAILEYS HRR
2297	BIRCH RD	BAILEYS HRR
2310	BIRCH RD	BAILEYS HRR
4917	SUNSET DR	BAILEYS HRR
3215	W MEADOW RD	BAILEYS HRR
1858	CANA COVE RD	BAILEYS HRR
4930	COUNTY HWY Q	BAILEYS HRR
3570	KWATERSBORO LN	BAILEYS HRR
3567	LINDA LN	BAILEYS HRR
9096	RFD CHERRY BR.	BAILEYS HRR



GIS Integration with PSC Processes

WISER Survey Results

- What is [WISER](#)
- Important: Visualization of survey speed results
- Compare FCC served status with actual measured speeds
- Provided visual means to educate municipality residents and support grant applications



FCC Broadband Serviceable Location Accuracy

- Broadband Serviceable Location (BSL)
 - Common data set of all residential & business locations in USA where fixed broadband service can be installed
 - Locations comprise the FCC National Broadband fabric
- BSLs used to determine Federal BEAD funding
- There are errors w/ FCC BSLs:
 - Don't match recognized building address
 - Tied to invalid structures
 - Missed "real" locations, e.g., new houses
- Invalid BSLs range from 6% to 17% in municipalities that did location validation

[PSC Broadband Maps \(wi.gov\)](https://www.wisconsin.gov/psc/broadband)

WISCONSIN BROADBAND MAP



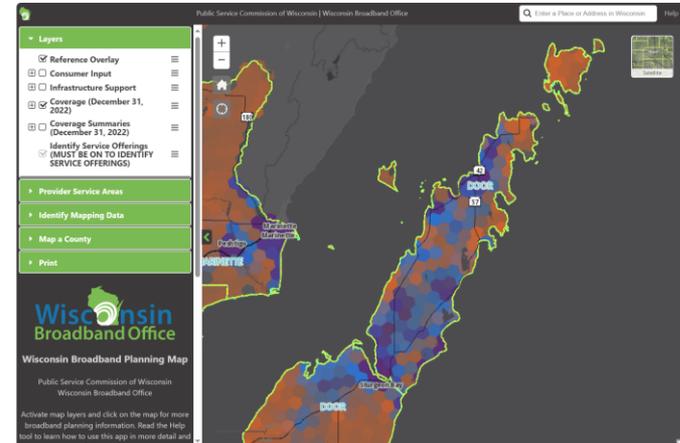
NEW! - Wisconsin Broadband Planning Map

This app depicts statewide internet access as declared by internet service providers through the Federal Communications Commission's (FCC) Broadband Data Collection. Local connectivity summaries, internet survey and speed test results, and areas where broadband expansion funding has already been committed are also available.

Most recently edited on October 31, 2023 to include A-CAM II subsidy eligible areas and preliminary Enhanced A-CAM eligible areas.



[Wis. Broadband Planning Map - Public Service Commission of Wisconsin](https://www.wisconsin.gov/psc/broadband)



Examples of BS-Ls... “BS Locations”

DC GIS View, 2023

E Jorns Ln

Google Earth, 2013

PSC - CPF Map

E Jorns Ln

Google Maps, 2013

If present, click on white arrows at right to see more local providers.

Capital Projects Fund Locations Eligibility Guideline	
Broadband Serviceable Location ID	1019807587
Primary Address	5584 JORNS LN BLDG 2, STURGEON BAY, WI 54235
# of Units	1
Building Type	Non-Residential
Capital Projects Status	Eligible
BEAD Status	Served

Zoom to

Capital Projects Fund Locations Eligibility Guideline	
Broadband Serviceable Location ID	1019807629
Primary Address	5524 JORNS LN BLDG 2, STURGEON BAY, WI 54235-9615
# of Units	1
Building Type	Non-Residential
Capital Projects Status	Ineligible
BEAD Status	Served

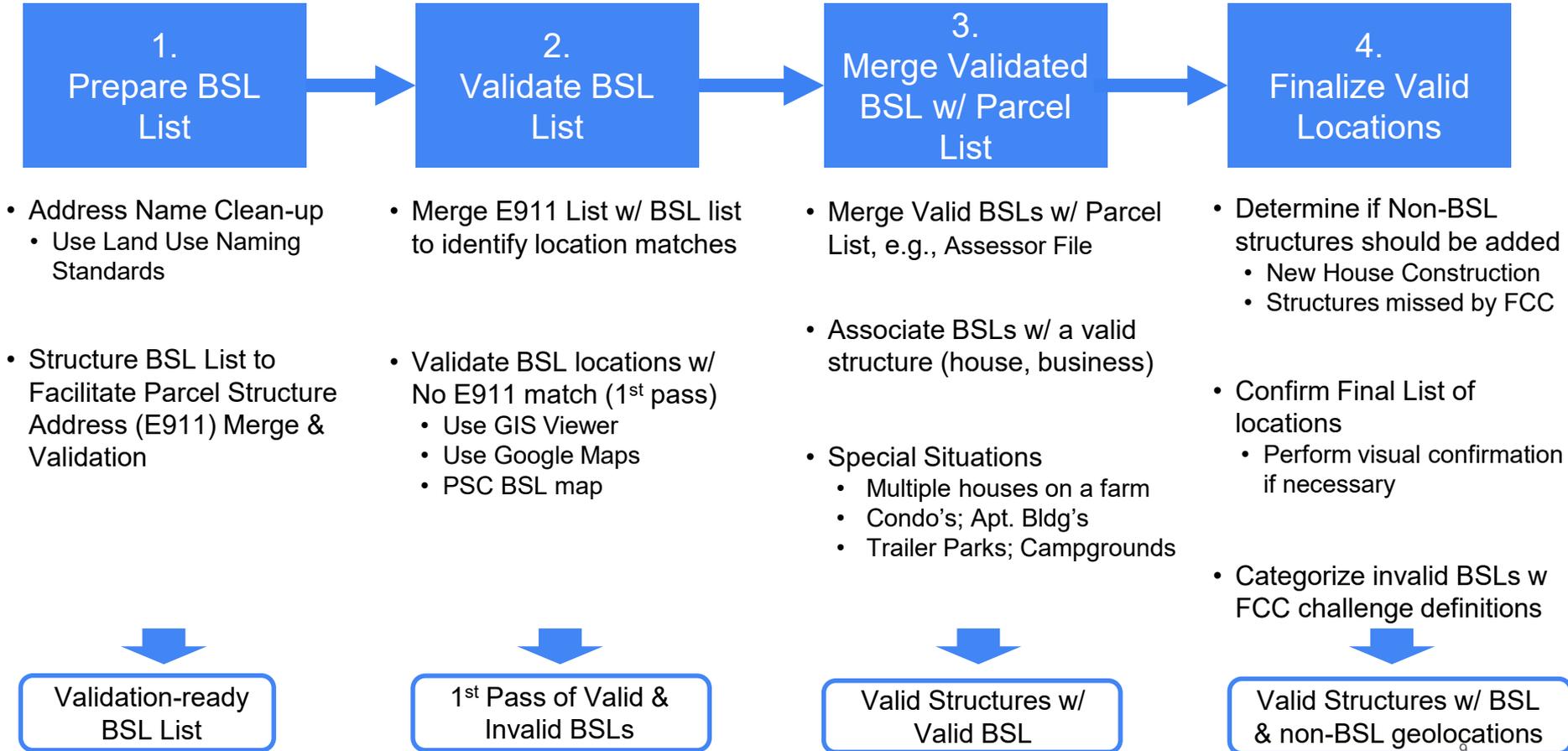
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Zoom to

- BSL does not resolve to a valid geolocation
- FCC Street Number description does not exist
- Not a valid structure (e.g., house, business)

Process Steps to Validate BSLs



Validation-ready
BSL List

1st Pass of Valid &
Invalid BSLs

Valid Structures w/
Valid BSL

Valid Structures w/ BSL
& non-BSL geolocations

Next Steps

- Documenting Invalid Locations for FCC Challenge Process

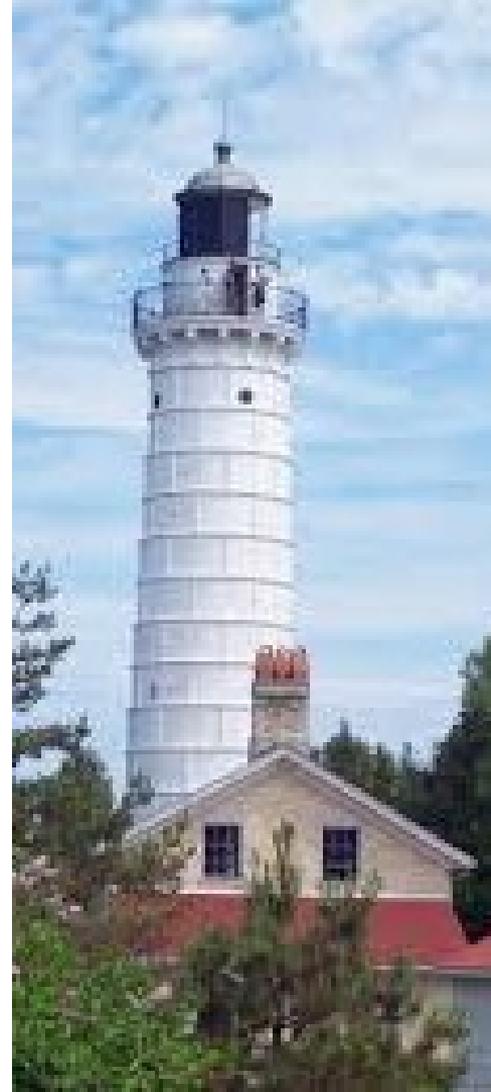


- Regional Development Organization Integration [New North Broadband Equity Access & Deployment Hub](#)



Summary

- County GIS integral to Broadband Planning Processes
- GIS visualization helps municipalities tell the story regarding access gaps and issues with existing broadband performance
- GIS-enabled Broadband tools provide a checks-and-balance w/ ISP location data
- FCC BSL validation creates an accurate location baseline to support cost estimation and building trust w/ residents



Questions

