



Wisconsin Broadband Expansion Grant

Project Review for Jackson County, Wisconsin
Ray Ransom – County Board Chairman
Cindy Altman – County Clerk

March 8, 2022

Submitted on behalf of UScellular by:

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This project is dependent upon final financial review and UScellular approval prior to grant submission.

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1. THE NEED

UScellular seeks support from Jackson County, WI to apply to the Wisconsin Broadband Expansion Program which significantly improves broadband access, speed & affordability. Our phased investment approach brings immediate benefit to some, and substantial benefit to all in 2023 with our further commitment to ongoing collaborative technology development. Beyond home & business broadband development, our project also significantly improves mobile coverage, equally important to participation in a fully connected economy.

Across rural America, far too many people lack reliable access to high-speed broadband internet, including many of the citizens of Jackson County, Wisconsin.

The Wisconsin PSC mapping, Jackson County's ongoing broadband evaluation and UScellular's analysis reveals that many citizens of the county lack affordable access to the 25 Mbps download/3Mbps upload internet speed, which is the definition established by the Federal Communications Commission (FCC) for web surfing, video conferences, streaming services, remote work, education, and healthcare. In fact, many of the households in Jackson County have less than 5/1 Mbps DL/UL prohibiting them from basic participation in the benefits of our digital economy. UScellular analytics indicate the number of locations at deficient level of service in Jackson County are 4044, with 1481 at less than 5/1.

UScellular is a leader in bridging the connectivity gap in Rural America. UScellular has over 1000 towers in Wisconsin and is actively advancing its 5G Technology.

Further, lack of reasonable broadband further restricts economic and business development essential to population stabilization and community growth.

The impact of the Covid-19 pandemic has accelerated the need for investment, creating urgency for innovative, fiscally responsible, and quick to deploy broadband improvement plans. Government programs, at various levels of federal, state, and local support, have created new focus on the importance of public-private collaboration to address this situation.

This extensive project represents a path to further both broadband and mobile connectivity development in Jackson County. It provides a long-term plan to comprehensive connectivity excellence, helping to close the digital divide and improving mobile coverage throughout the community.

2. THE SOLUTION

At UScellular, our mission centers around connectivity. We have always focused on the needs of rural, often underserved, areas in rural America. Most recently, we have begun to provide the latest 5G wireless technology across Wisconsin where economically feasible to do so. The combination of our technical expertise, coupled with grant programs like the Wisconsin Broadband Expansion program, enable us to help close the digital divide regardless of how geographically dispersed the population may be.

Our solution begins with cell towers and then takes advantage of one of the most advanced elements of 5G technology, Fixed Wireless Access (FWA). It is a “last mile” solution that delivers broadband connectivity to homes and businesses in rural areas at reasonable cost and without timing burdens associated with typical wired solutions.

Importantly, the infrastructure investments used to provide FWA broadband also provide the equally important benefits of 5G cell phone coverage – that’s a dual benefit, **connecting people both at home or work or on- the-go when out and about**. This includes towers, radio equipment, spectrum, and antennas.

2.1 OUR PHASED APPROACH

Our project is designed to deliver 5G Fixed Wireless Access Home Internet Service to significant areas of Jackson County where the need is great. It has a proposed capital investment of \$2,980,000, supported by a combination of private, public county and state grant funds.

Beyond these capital investments, the project leverage UScellular’s prior investment in licensed spectrum and requires ongoing commitment in network operations expense.

Phase 1:

This phase will begin shortly after grant award, enabled by highly specialized home antennas on UScellular’s 5G low band licensed frequency. The result will be broadband speeds starting at 25/3 Mbps DL/UL available throughout the county. We are preparing a precise number of locations for the grant submission. Some locations will exceed that minimum expected performance based upon location to the transmitting signal.

Phase 2:

By the close of 2023, we will complete the construction of 4 new towers, and the activation of our mid band radio spectrum. This phase will deliver broadband speeds at 100/20 DL/UL Mbps to approximately 835 homes and businesses. Additionally, we will expand minimum speed of 25/3 Mbps to approximately 1,369 additional households and businesses. We are preparing a precise number of locations to include in the grant submission.

Phase 3:

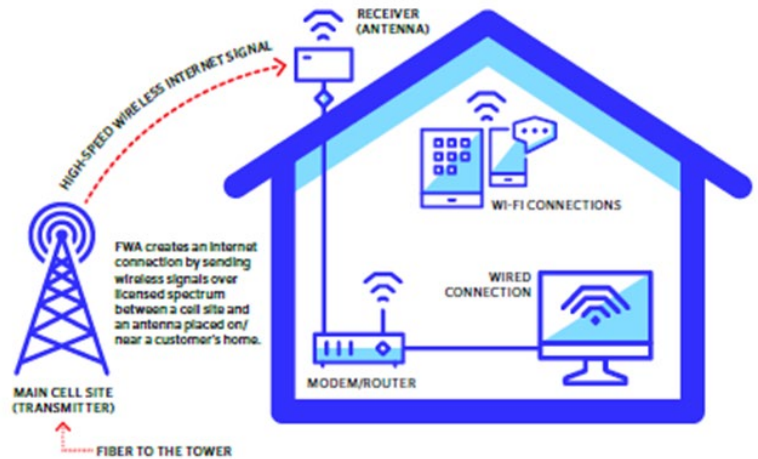
Upon the implementation of anticipated State grant programs, enabled through the federal Infrastructure Investment and Jobs Act (IIJA), we will continue to explore ways to enhance remaining areas of Jackson County. It's important to know that this landmark legislation provides a generational opportunity improve broadband coverage in areas where rural economic realities would not permit private investment before. Additional information on these programs will be available in late 2022.

PHASE	DESCRIPTION	BENEFIT/OUTCOME
1 – Launch enhanced Home Internet on existing towers, including 5G - Shortly after release of grant funds.	Specialized CPE and subscriber offers will become available in Jackson County where we have modernized service and capacity. This is enabled by low band 5G spectrum and technically advanced home antennas (CPE.). See Associated Maps below.	Home Internet at minimum of 25/3 Mbps, covering a vast array of homes and businesses. See Phase I map in the Technical Detail section of this project.. Some locations will exceed 25/3 Mbps dependent on distance to the tower and other topographical factors. It's reasonable that some will attain up to 50/5 Mbps. This investment will also significantly improve mobile performance in the area surrounding the tower.
2: - Construction of 4 new cell towers, at 250 ft each. - by end of 2023	Construct a total of four cell towers – add mid-band (C-band) spectrum on all Towers. One of these towers will replace an existing tower that is just over the border of Clark County. The relocation will optimize overall coverage. See Associated Maps below.	Home Internet at minimum of 100/20 Mbps covering approximately 835 homes and businesses in Jackson County. Additionally, the activation of our mid band spectrum will also provide a minimum of 25/3 to approximately an additional 1,369 homes and businesses. 100/20 Mbps is the future-oriented federally based IIJA funding standard. See Attachment A for details. This investment will also significantly improve mobile performance in the area surrounding the tower.
3 - Future Phase (IIJA)	To be developed and will be focused on where additional infrastructure is needed to reach the remaining residents.	Our solution provides ongoing and substantive improvement for Jackson County over a period of 3-4 years.

2.2 HOW DOES FIXED WIRELESS ACCESS WORK?

Fixed Wireless Access (FWA) is a wireless solution to broadband connectivity for the home or business. An antenna on the home or business connects wirelessly to a nearby cell tower via a targeted wireless signal, providing high speed internet. The tower is connected to the internet through a combination of microwave and fiber technologies.

Once the signal is received by the antenna, an in-home router enables further connection to devices through WI-FI, just like a traditional wired connection works today. And, all this is accomplished without the burdens of extended deployment times and complex laying of cables, right of ways, and pole connections.



UScellular's wireless broadband solution is delivered securely, and reliability based on the adoption of the highest international standards and using our dedicated licensed spectrum. Only UScellular has access to the spectrum used allowing us to carefully control the user experience.

One of the most exciting aspects of FWA is the dual benefits investment in wireless infrastructure provides. For each dollar of investment, citizens of Morrison will receive both improved internet connectivity in the home and on-the-go. Our experience shows that people aren't satisfied unless they have both, and we don't believe they should have to choose one or the other.

In summary, our solution, coupled with our mid band licensed & regulated spectrum provides home AND mobile benefits, fast deployment and is fiscally responsible at lower costs than alternative solutions. It does so with high speed, suitable to today and tomorrow's usage needs. It ushers in the benefits of the 5G technology, building economic benefits.

Fixed Wireless Access Provides Three Key Benefits

1. Support for both Home Broadband and Mobility
2. Faster time to market
3. Lower cost to deploy

2.3 BENEFITS OF OUR SOLUTION

The combination of higher speeds for in home/business broadband and better cell coverage on-the-go will produce numerous lifestyle and economic development benefits for the community.



Education. UScellular's solution is suitable for conducting video learning, online research, and meetings through all contemporary mediums, such as Zoom and TEAMS. We have a proven track record of providing higher throughputs than alternative satellite services and DSL, commonly found in rural areas, which will allow teachers to extend learning both in and out of the physical classroom. Our comprehensive view of connectivity extends beyond the school or home. Imagine a teacher taking a class outside to learn about local plant life and students having the ability to research what they are seeing on a wireless device.



Remote Work. As flexible work locations continue to become the norm for many businesses, reliable, high-performance internet is essential to maintaining productivity and employment. Traditional urban dwellers are moving at rapid pace to smaller communities, often with lower costs of living, but only where there is supportive infrastructure. For employers, reliable connectivity solutions establish confidence in remote working arrangements, reducing the need for premature return-to-work decisions and increased employee satisfaction. For employees, it provides the security and assurance that they can perform their responsibilities and continue to contribute to the workplace irrespective of location.



Telehealth. The widespread need for reliable broadband provides the foundational connectivity layer to drive telemedicine adoption. Our solution enables the advent of telemedicine taking advantage of video consultations and high-resolution imagery sharing.



Additionally – the mobility aspect of our solution is important for all the above AND emerging work in **precision agriculture**, location **tracking of high value assets**, and more Internet of Things options essential to the farming community.

2.4 FLEXIBLE, AFFORDABLE PLANS

2.4.1 Commercial Plans

- UScellular will provide a variety of plans, at varying speeds to meet the needs of all consumers beginning at a highly affordable rate of \$30/month, with Autopay Discount.

2.4.2 Customer Premises Equipment Options: External Antenna + Indoor WIFI Router

1. Purchase Up Front: \$865
2. Easy Equipment Installment Program (EIP) – 36 zero interest installments at \$24/month.

Typical Outdoor CPE

Outdoor unit to maximize coverage, higher performance, remote upgrade for mid-band




36 mo. financing for cost of CPE and router

UScellular to offer free installation (\$180 value) for intro period

New mid-band units are expected in Q3 2023

2.4.3 Promotions: UScellular will assist with user adoption, launching introductory offers as follows:

- **36 monthly credits** of \$10 -20 offsetting Equipment Installment Payments. (EIP)
- **Free Professional Installation** – valued at \$185-200

2.4.4 Additional Support for Low Income Households

UScellular participates in providing access to the federally funded **Affordable Connectivity Program (ACP)** for eligible households based on income level and participation in other government subsidy program. The benefit of the ACP includes a monthly credit to the UScellular service of \$30/month, and additional support to offset device charges. A description of the program is included in **Appendix B**

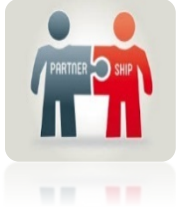
2.4.5 Bringing it Together - Illustrative Monthly Range of Expected Monthly Cost

Illustrative Monthly Costs		
Morrison residents who sign up will pay monthly for affordable service and equipment		
Monthly Costs	25/3 mbps	100/20 mbps
MRC*	\$30	\$55
Financed CPE	\$24	\$24 ¹
Total	\$54	\$79
ACP (if eligible) ²	-\$30	-\$30
CPE Promotion ³	-\$10	-\$20
Total Cost Range	\$14-\$54	\$29-\$79

*Assumes \$10 auto-pay discount

- 1) Latest Model CPE expected prior to Tower Completion
- 2) Affordable Connectivity Program
- 3) Customer Premises Equipment promotion to drive adoption

3. PARTNERSHIP



The investment proposed is funded through a combination of UScellular spectrum investment, capital funds and ongoing operations expenses plus the essential element of a successful grant from the Wisconsin PSC's Broadband Expansion Program.

We are excited and passionate about this opportunity! We know the UScellular difference will be maximized through an effective partnership with the stakeholders of Morrison.

Given the importance of public-private partnerships, both to a successful Broadband Expansion Program application and to our combined success in Morrison, UScellular needs further public support of our proposal from the Town of Morrison as follows:

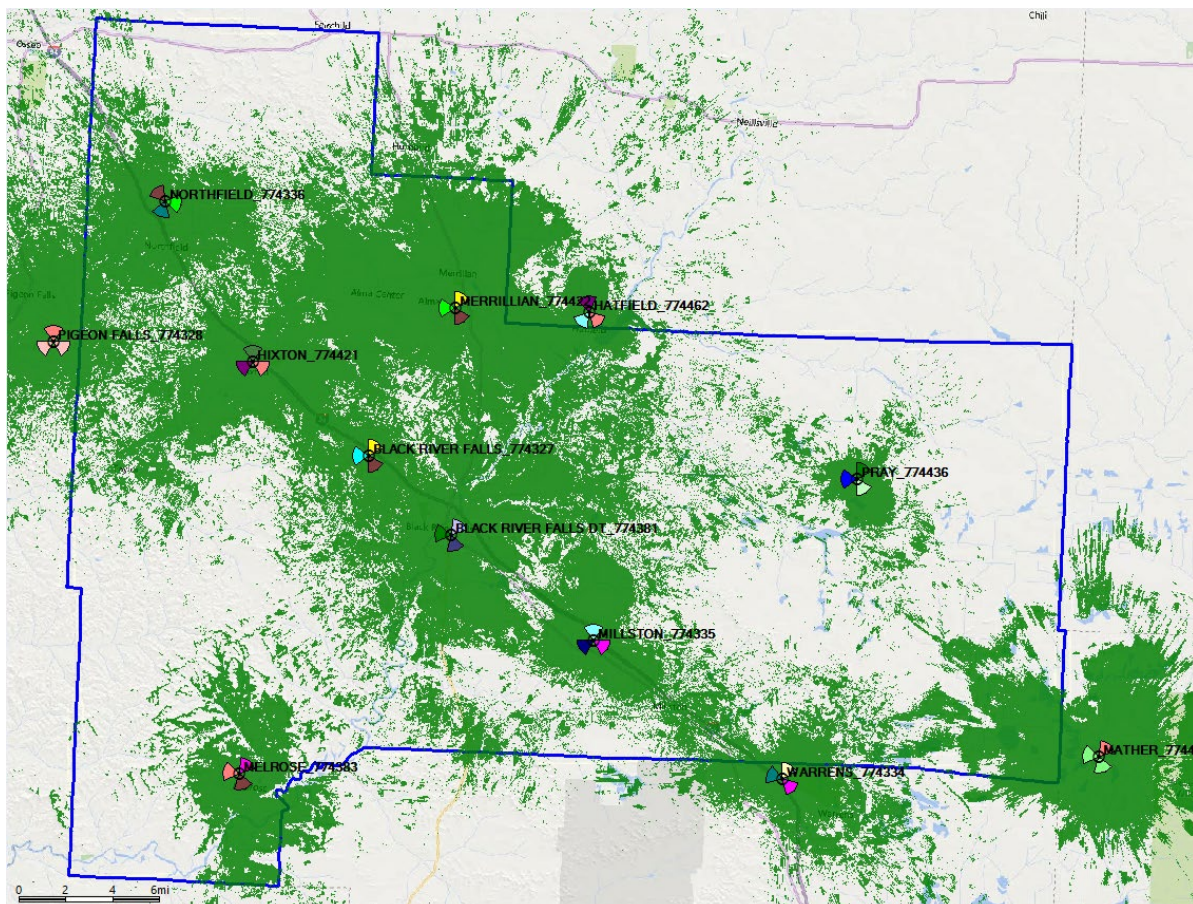
- 1) **Service Availability Statement: - Jackson County to provide by 3/14** While the Wisconsin PSC maps indicate expansive areas of insufficient broadband coverage in Jackson County, we would like to supplement that data with local intelligence on the communities included in our project.
- 2) **Town Resolution: - Jackson County to provide by 3/14** A Town Board resolution stating firm support of UScellular's grant submission. Example in Appendix F
- 3) **Community Support Testimonials: - Jackson County by 3/15** Additional letters of support from anchor institutions in Jackson County. (i.e., Townships, Education, Public Safety, Small Business, Farming). These testimonials should cite problems experienced and benefits expected. These may include improved quality of education, economic impacts, etc. We will include these in our grant application.
- 4) **Operating Support:** UScellular requests reasonable, ongoing support from Jackson County to keep our operating cost of this wireless infrastructure as low as possible. While more work is needed to define this, it may include support for public land usage for cell sites, favorable negotiation of land leases where not on public property, streamlined permitting and low cost/free energy, access to county middle mile fiber installations, etc. **Ongoing upon project initiation.**
- 5) **Support for User Adoption** - We suggest Jackson County establish a fund to supplement user adoption through an adoption credit off the activation expenses of the enhanced broadband service of their choice. **For example:** Any resident adopting enhanced broadband service is eligible for a one-time \$100 -\$150 Jackson County for broadband adoption. The economic viability of our solution is directly related to the level of user adoption achieved over time. UScellular's business case is built upon significant service adoption which we believe is achievable with our effective, affordable solution, supplemented by county led communications and digital literacy and equity programs.

4. DESIGN TECHNICAL DETAIL

4.1 Description of Technical Design Elements and Covered Households.

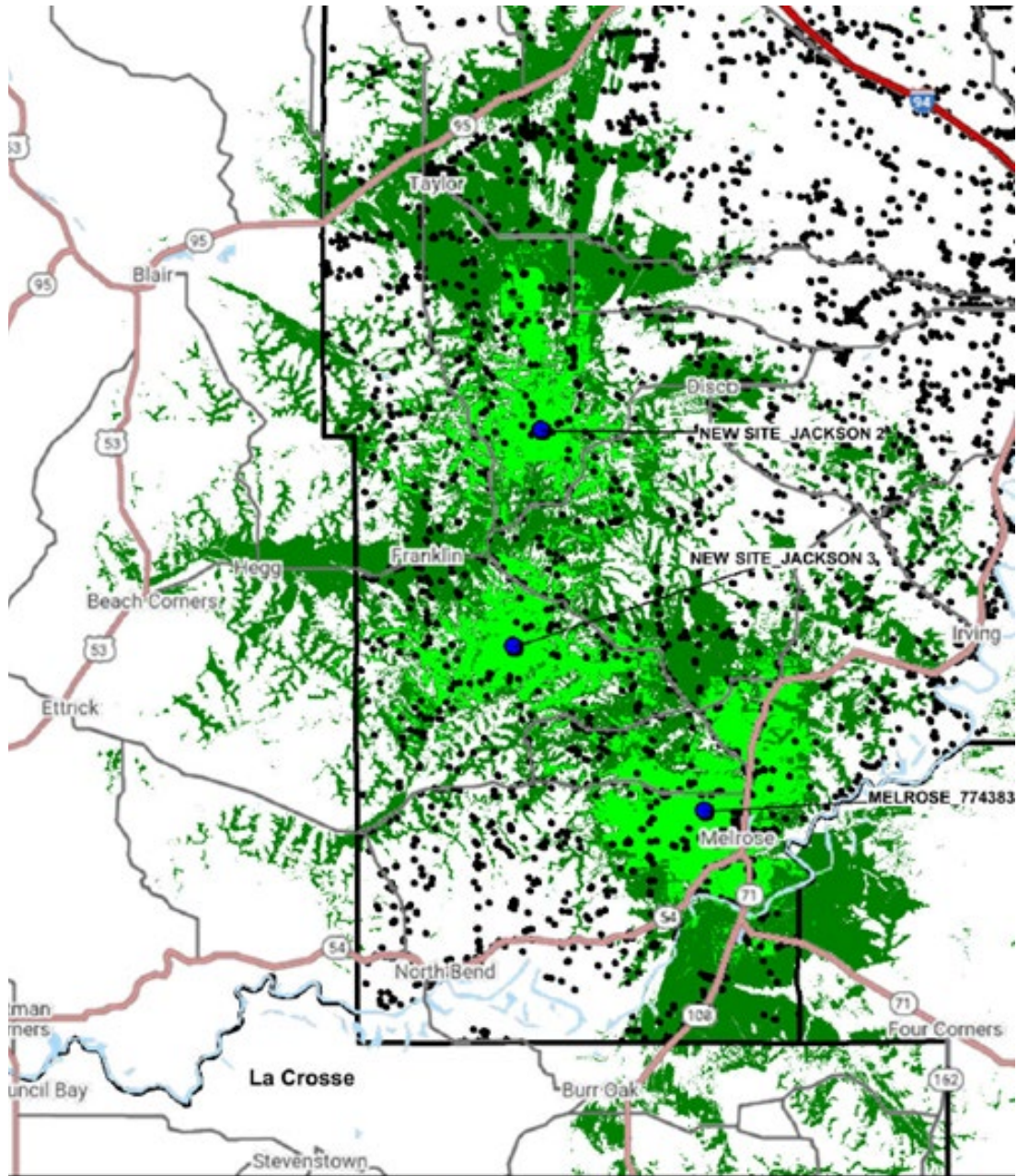
- **Project Scope** – Jackson County, WI (Southwest, Southeast & North Central (see maps below)
- **Approach** - Modernize existing sites with 5G, build 4 new sites, activate Mid Band (C-band) spectrum using 60 MHz Bandwidth on all towers, and deploy antennas using CPE EIRP 39dBm.
- **Throughput Target:** DL/UL 100/20 Mbps where possible, and 25/3 broadly.
- **Homes & Businesses covered** with 100/20 Mbps – 835. An incremental 1,369 Homes and Businesses enhanced to 25/3 Mbps.
- **Additional Benefit** – increased mobility coverage.

Phase 1: Low Band/Unique CPE/Modernized 5G - Minimum 25/3 Mbps Coverage Area

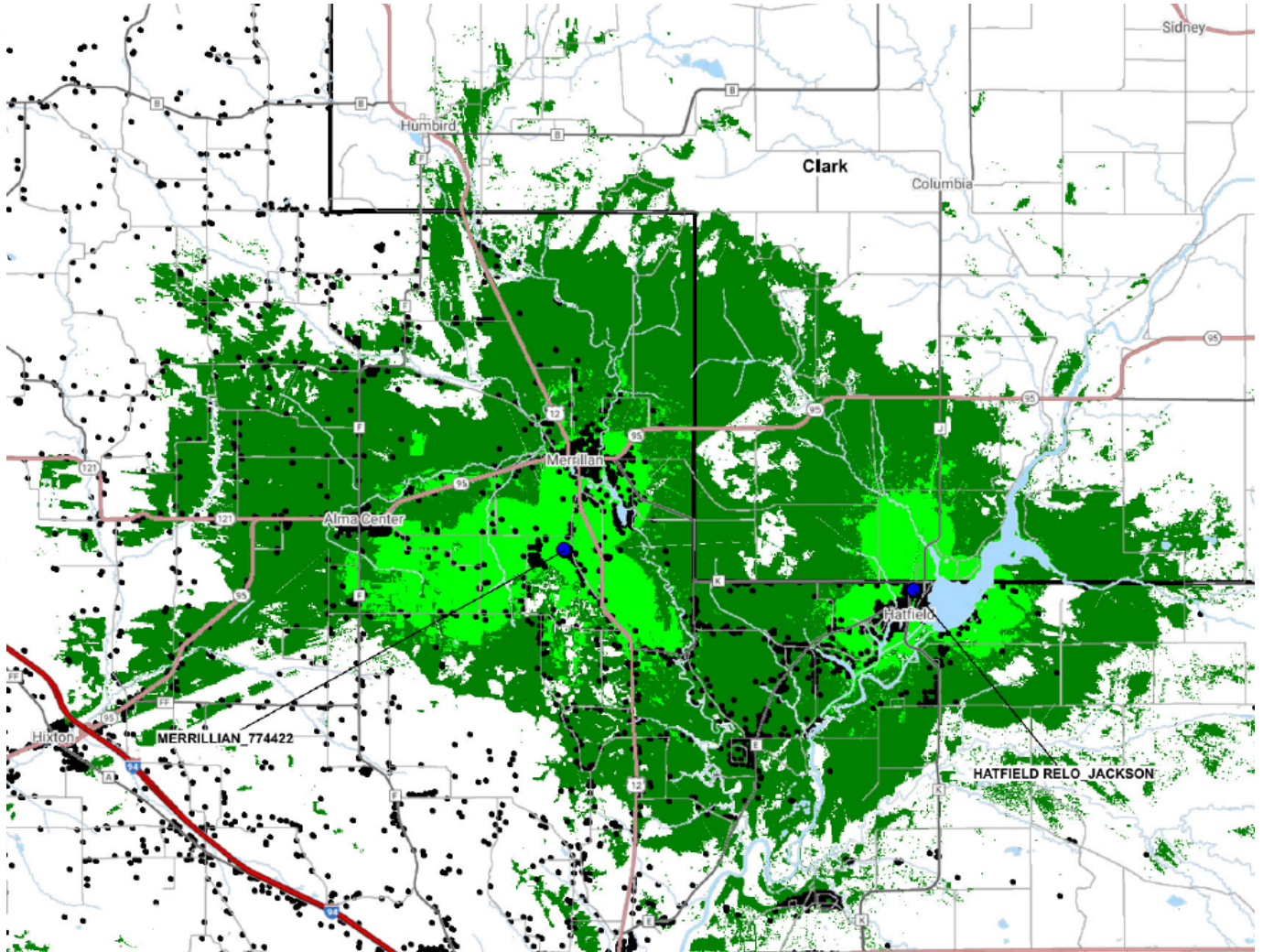


Phase 2: New Sites/Mid Band Spectrum

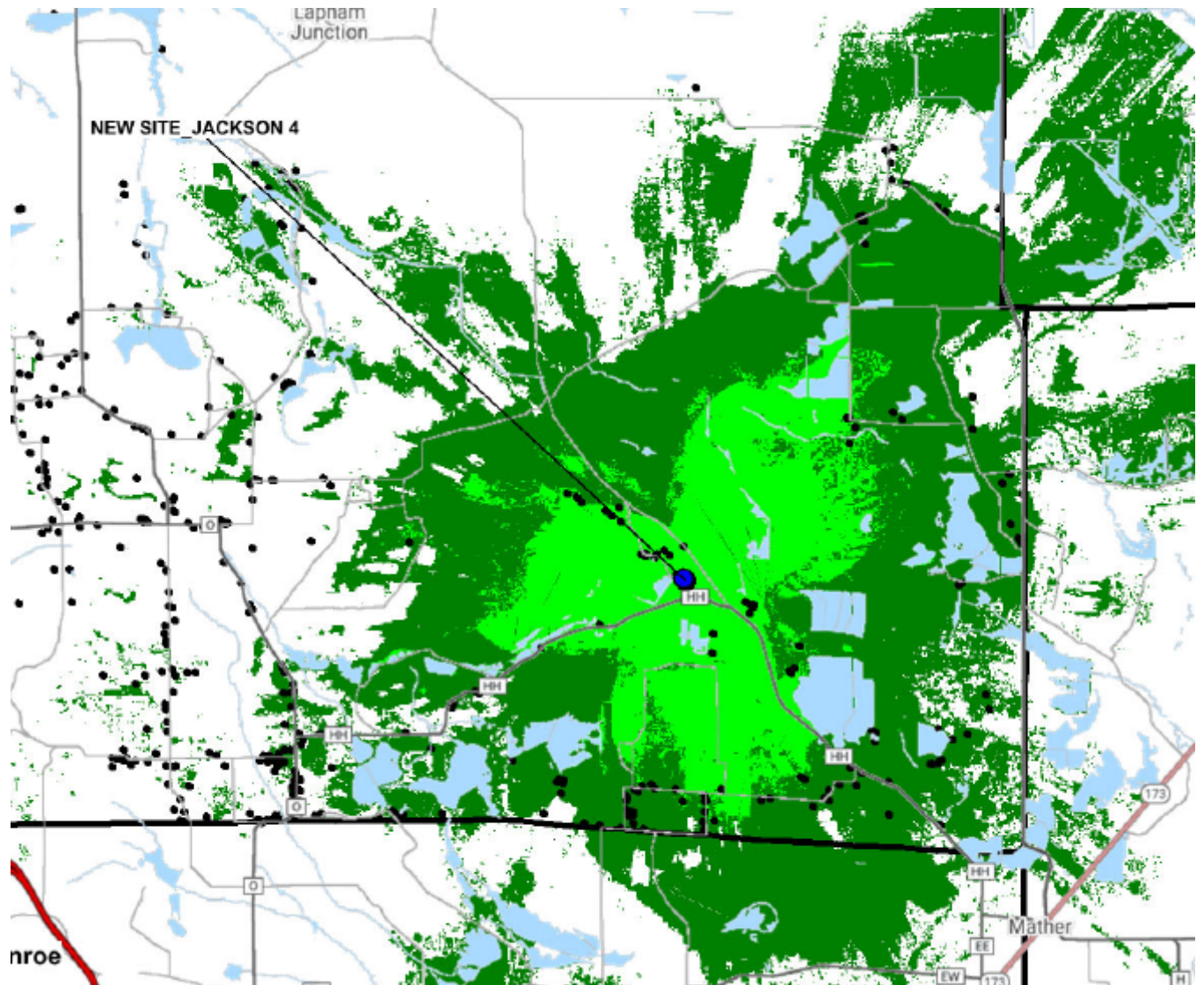
Southwest Communities of Jackson County, Wisconsin



North Central area of Jackson County, WI



Southeast Jackson County, WI








4.2 Description and Picture of Typical Tower and Proposed CPE

See Attachment D

4.3 QoS and Reliability Statement

UScellular's Fixed Wireless Access (FWA) network is built upon use of licensed spectrum. UScellular designs its microwave network to exceed ethernet fiber conditions. Microwave hops are carefully engineered to 99.9995% reliability, > ethernet fiber at 99.999% reliability.

 Speed & Capacity	<ul style="list-style-type: none"> UScellular utilizes licensed spectrum bands across low, mid and <u>mmWave</u> spectrum bands to increase capacity and throughput. Expect further speed improvements due to 5G's enhanced spectral efficiency
 Licensed Spectrum	<ul style="list-style-type: none"> Expect increased reliability and performance as licensed spectrum leverages exclusive and fully-controlled subscriber access to protect against interference.
 Security	<ul style="list-style-type: none"> 5G technology supports complete encryption of data between the network and the FWA device. This encryption ensures data confidentiality and protects the subscriber's privacy. 5G networks are a critical national security asset.
 Reliability	<ul style="list-style-type: none"> <u>UScellular's</u> high reliability is backed by a 30-year history of large-scale wireless network expertise. UScellular equips sites with at least eight hours of battery back-up power to ensure functionality without an external power source. UScellular deploys a highly redundant network with back-up power, capability to rapidly deploy cell sites on light trucks ("COLTs") in emergency situations.
 Scalability	<ul style="list-style-type: none"> UScellular leverages the collective R&D of the 5 billion subscriber, \$1 trillion/year mobile ecosystem. UScellular and all wireless operators are continually re-investing in the network to ensure ongoing competitiveness - \$282 billion invested by U.S. mobile network operators since 2010²

5. INVESTMENT APPROACH

- Grant Submission – Jackson County, Phases 1 and 2
- **Total Capital Build Investment \$2,980,000**

Entity	Contribution
UScellular	\$958,000
Wisconsin Broadband Expansion Grant	\$1,937,000
Jackson County	\$25,000*
	Any further contribution by Jackson County may result in higher chance of grant approval.

- UScellular can provide this solution based on our recent investment to acquire recently auctioned mid band spectrum licenses. UScellular's total investment to secure these licenses was \$2 billion. In Jackson County alone, the investment was approximately \$980,000.
- In addition to the above, UScellular will fund the ongoing monthly operations expenses of the infrastructure built. These expenses are significant and require consideration of Public Private Partnership in ongoing expense management and continued adoption of services. (See above section "Partnership")
- Any further direct contribution from Jackson County, or its communities, may increase the likelihood of a successful Grant submission.

6. IMPLEMENTATION APPROACH

Upon Award, UScellular will collaborate with Jackson County on a comprehensive implementation plan for the technical deployment described above.

- UScellular has extensive experience in technological network deployments over 37 years of successful operations across rural America.
- UScellular will establish a project manager to coordinate efforts and communication with the Jackson County.
- UScellular has a working relationship with the Wisconsin PSC and a substantial commercial presence in the State of Wisconsin, employing nearly 800 people and over 1000 towers.
- Total capital network investments in Wisconsin in 2021 exceeded \$400,000,000. See Attachment C for details.

7. APPENDIX

7.1 ATTACHMENT A Typical American Household Needs

5G for Home Broadband Speeds Easily Support the Typical American Household's Needs

Policymakers should focus on the actual connectivity needs of a U.S. household



100/20 Mbps Meets Americans' Broadband Needs

5G for home broadband services' downstream speeds of 100 Mbps and upstream of 20 Mbps can easily support multiple users actively engaged online whether they be working, learning, visiting with doctors, friends, or simply watching videos. The Miller family's home usage depicted above is less than half of the speed capacity Congress required under the Innovation Investment and Jobs Act, leaving ample room to spare.

Wireless providers have already made 5G for home broadband services available to tens of millions of American households. 5G for home services are poised to reach 16x more homes with 100 Mbps+ downstream speeds by 2025.

7.2 ATTACHMENT B – Affordable Connectivity Program



STRUGGLING TO PAY FOR BROADBAND?

*Find out if you're eligible for the federal government's
Affordable Connectivity Program (ACP).*

While it may be more important than ever to reliably connect to the internet to study, work, shop or job hunt — it may be harder than ever for people to pay for broadband service. Congress has funded the ACP program in response. The program can help you pay for your broadband service, which may be included in your USCellular™ smartphone plan or a voice + data bundle.

Eligible households receive a discount up to \$30/mo. or up to \$75/mo. in certain tribal areas.

One member of your household must meet one of the eligibility requirements below:

- Qualifies for the existing Lifeline program
(Use the Lifeline National Verifier at lifelinesupport.org/national-verifier/ to see if you qualify.)
- Received a Federal Pell Grant during the current award year
- Participates in special supplemental nutrition program for women, infants, and children ("WIC")
- Receives benefits currently (or has received benefits) under the free and/or reduced priced school lunch or breakfast program as part of the USDA Community Eligibility Provision
- Has a total household income at or below 200% of the Federal Poverty Guidelines for a household of that size

*The discounts are offered to postpaid consumers in select states:
CA, IA, IL, KS, ME, MO, NC, NE, NH, OK, OR, TN, VA, WA, WI and WV.*

**To learn more or to apply for this benefit, visit
uscellular.com/plans/affordable-connectivity-program**

1112_1120

Things we want you to know: The Affordable Connectivity Program is a government program that reduces your broadband internet access service bill. You may receive this benefit, once at the household level, from a participating provider and may transfer their ACP Program benefit to another provider at any time. ©2021 UScellular

7.3 ATTACHMENT C UScellular Recent Investments



FOR IMMEDIATE RELEASE

UScellular Announces \$407 Million Network Investment in Wisconsin in 2021

Milwaukee (Feb. 11, 2022) – UScellular announced today that it made a \$407 million investment in its Wisconsin network in 2021. This includes \$31.4 million in general network upgrades, \$24.8 million in 5G modernizations and \$350.8 million in 5G spectrum that will bring additional benefits in the coming years and advances the company's multi-year 5G network strategy.

Additionally, in 2021 UScellular provided more than \$187,000 in funding to non-profit organizations, teachers and youth organizations across Wisconsin, including \$145,000 to four Boys & Girls Clubs, \$15,000 to the Waukesha Community Fund, \$5,000 to support Team Rubicon at Fort McCoy, \$5,000 to BASE Fort Atkinson, \$13,854 to teachers through donations to [DonorsChoose.org](https://www.donorschoose.org) and \$3,320 through its [Community Connections](#) program. Seven Wisconsin Boys & Girls Clubs also received \$147,082 worth of hot spots and service to help their members connect to the internet at the Clubs or at home as part of the company's [After School Access Project](#).

"Connectivity is more important than ever right now, and at UScellular we are committed to keeping our customers connected to the people and places that matter most to them," said Kristy Baron, director of sales for UScellular in Wisconsin. "We will continue to invest in creating a great wireless experience for customers, while also ensuring we provide critical resources for youth in our local communities."

To help ensure customers have a great shopping experience, UScellular also invested nearly \$2.4 million in its Wisconsin retail store environments in 2021. This includes one new and 38 relocated, redesigned or upgraded stores that better showcase the variety of products and services the company provides, making it easier for customers to find what they need.

For more news and information about UScellular, please go to newsroom.uscellular.com.

About UScellular

UScellular is the fourth-largest full-service wireless carrier in the United States, providing national network coverage and industry-leading innovations designed to elevate the customer experience. The Chicago-based carrier provides a strong, reliable network supported by the latest technology and offers a wide range of communication services that enhance consumers' lives, increase the competitiveness of local businesses and improve the efficiency of government operations. To learn more about UScellular, visit one of its retail stores or www.uscellular.com. To get the latest news, visit newsroom.uscellular.com. Connect with UScellular on social media at facebook.com/uscellular, twitter.com/uscellular, instagram.com/uscellular, YouTube.com/uscellularcorp and linkedin.com/company/uscellular.

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For more information, contact:

Name
Phone
Email

7.4 ATTACHMENT D Typical Infrastructure

7.4.1 Typical Tower Structures

UScellular will construct two towers to 250 feet, using the most advantageous designs.



7.4.2 Typical Home Antenna (Rooftop upper side of home to be determined by location)



7.5 ATTACHMENT E - Protecting Health and Safety

Protecting Health and Safety

The health and safety of consumers is the wireless industry's first priority. Here's what you should know about radiofrequency (RF) energy and wireless devices.

Read what the experts say:

- World Health Organization
- American Cancer Society
- National Institutes of Health – National Cancer Institute
- Federal Communications Commission (FCC)
- Food and Drug Administration

What is RF Energy?

Many devices we use every day—baby monitors, Wi-Fi routers, and garage door openers—transmit information using radio waves. These radio waves emit energy commonly referred to as RF energy.

Experts agree that wireless devices have not been shown to pose a public health risk.

Overwhelming scientific evidence shows no known health risk to humans from RF energy emitted by wireless devices, including smartphones. This evidence includes numerous, independent analyses of peer-reviewed studies conducted over several decades by national and international organizations.

Federal government statistics show the number of brain tumors has remained unchanged since mobile phones were widely introduced in the 1980s while the number of mobile phones and sites has increased significantly, by a factor of 325 and 140, respectively.

Cellular equipment operates within safety limits.

RF energy from antennas used in cellular transmissions, including 5G small cells, result in exposure levels below FCC safety limits. These limits are based on recommendations from the scientific community and expert non-government organizations. The widely accepted scientific consensus is that towers, small cells, antennas, and other cellular infrastructure pose no known hazard to nearby residents—and as the FCC notes, “the possibility that a member of the general public could be exposed to RF levels in excess of the FCC guidelines is extremely remote.”

FCC regulations protect health and safety.

All wireless devices sold in the U.S. must go through a rigorous approval process to ensure they meet the science-based guidelines set by the FCC. These guidelines—based on internationally-recognized scientific organizations—set limits for the maximum amount of RF exposure from wireless devices and include a significant margin of safety (Christopher C. Davis Testimony, 2018). Wireless devices and antennas operate well under FCC thresholds (Christopher C. Davis Testimony, 2018).

5G and safety

The scientific consensus is that there are no known health risks from all forms of RF energy at the low levels approved for everyday consumer use. The FCC regulates RF emissions, including millimeter waves from 5G devices and equipment. In December 2019, the FCC adopted the recommendations of expert organizations that have reviewed the science, including from the IEEE, and reaffirmed—on a unanimous and bipartisan basis—that its safety standards “ensure the health and safety of workers and consumers of wireless technology,” and that “no scientific evidence establishes a causal link between wireless device use and cancer or other illnesses.”

Typical exposure to 5G devices—such as small cells attached to phone poles or the sides of buildings—is far below the permissible levels and comparable to Bluetooth devices and baby monitors. The FCC continues to monitor the science to ensure that its regulations protect public health.

Expert voices

“Based on our ongoing evaluation of this issue and taking into account all available scientific evidence we have received, **we have not found sufficient evidence that there are adverse health effects** in humans caused by exposures at or under the current radiofrequency energy exposure limits. Even with frequent daily use by the vast majority of adults, we have not seen an increase in events like brain tumors.”

– Director of the FDA’s Center for Devices and Radiological Health (2018)

“[T]he RF waves given off by **cell phones don’t have enough energy to damage DNA directly or to heat body tissues**. Because of this, it’s not clear how cell phones might be able to cause cancer.”

– American Cancer Society (2018)

“We have relied on decades of research and hundreds of studies to have the most complete evaluation of radiofrequency energy exposure. This information has informed the FDA’s assessment of this important public health issue, and given us the confidence that the **current safety limits for cell phone radiofrequency energy exposure remain acceptable for protecting the public health**. ...

[T]he totality of the available scientific evidence continues to not support adverse health effects in humans caused by exposures at or under the current radiofrequency energy exposure limits.”

– Director of the FDA’s Center for Devices and Radiological Health (2018)

More information is available at www.wirelesshealthfacts.com.

1400 16th Street, NW #600
Washington, DC 20036

202.736.3200
www.ctia.org



Agencies and organizations that shape U.S. regulations:

- Institute of Electrical and Electronics Engineers (IEEE)
- National Council on Radiation Protection and Measurements
- International Commission on Nonionizing Radiation Protection



...there is no evidence to support that adverse health effects in humans are caused by exposures at, under, or even in some cases above, the current RF limits. Indeed, no scientific evidence establishes a causal link between wireless device use and cancer or other illnesses.”

—FCC Order reaffirming existing safety standards, Dec 2019

7.6 ATTACHMENT F - Sample Resolution

Example:

To be included in Grant Application

A RESOLUTION AUTHORIZING BROADBAND GRANT APPLICATION/PARTNERSHIP WITH (Gov't Entity Name)

WHEREAS, to address the substantial areas within the (Gov't Entity Name) that are unserved or underserved with access to broadband connectivity, both in home, business and mobile, the Town of Morrison conducted research to gather information and the interests of citizens and businesses, and to encourage providers to invest and provide services within, and

WHEREAS (Gov't Entity Name) desires to pursue Broadband Expansion Grants offered by and through the State of Wisconsin Public Service Commission; and

WHEREAS UScellular is willing and able to partner with (Gov't Entity Name) to provide the latest technical advancements in broadband coverage, affordable adoption and to seek all available grants to provide and subsidize the cost of necessary broadband infrastructure, and

WHEREAS (Gov't Entity Name) desires to pursue and make application for all grant money available for broadband coverage, and

WHEREAS the (Governing Body) considered the proven track record of UScellular bringing connectivity solutions to the citizens of Wisconsin and the United States,

WHEREAS (Gov't Entity Name) has committed (insert \$ amount) of local funds to support the project.

NOW THEREFORE, BE IT RESOLVED, by the (Gov't Entity Name), whose board assembled this ____ day of _____, 2022, that the (Gov't Entity Name) authorizes the application to the State of Wisconsin Public Service Commission for broadband expansion grants in partnership with UScellular.

Official Signature and Date