



Accelerating Your Connected Life

May 6, 2024



Lakeland Internet – Build Plan and Funding

- Lakeland Internet a Surack Enterprises owned company has a strong precedence of bringing broadband internet to rural communities
 - Deploy wireless infrastructure to get people connected
 - Upgrade that infrastructure to increase reliability and speeds (Next Generation Fixed Wireless) NgFWA (Tarana)
 - When economically viable – Potential Fiber to the Home Deployments
 - Public Private partnerships
 - ARPA Funds
 - Next Level Connections
 - BEAD Funding
- **Lakeland Internet has proposed to Dekalb County to allocate some available ARPA funds to deploy a 10 Site county wide NgFWA coverage plan.**
- Tarana and Prediction software, indicate over 71+% predicted coverage greater than 100Mbps DL with only 9 towers.
- **Future Software release to double potential speeds**



Lakeland Internet – Scalability – NgFWA

- A typical household in uses approximately 6 Mbps of peak busy hour throughput, a number that has been growing by 20% year-over-year for the last decade. Over the last two decades, broadband speeds have increased from 1 Mbps to 100/20 Mbps or even faster.
- With a site capacity of 9.6 Gbps, Tarana G1 has enough capacity to support up to 1000 subscribers at the current use cases.
- Carriers or sectors can be added easily to vertical assets
- Tarana G1 Provides
 - Up to 9.6 Gbps Capacity per Cell
 - Up to 1000 Clients per Cell
 - 5 GHz (unlicensed) or 3 GHz (CBRS)
 - Works in NLoS and nLoS
 - Cancels Self and External Interference
- Lakeland Internet deployed Tarana G1 NgFWA technology in Butler last year
- We have a customer that is 9 miles away in St. Joe, Indiana served by the Butler tower who consistently sees 140 Mbps Down/50 Mbps up
- Currently waiting for results of OCRA's NLC4 to see where Lakeland Internet can help close the void in broadband connectivity



Lakeland Internet – Project Updates

- **Fiber to the Home Projects**

- Hamilton Lake
 - West side of the lake covered and deployed – Launched 12/15/23 - 130 customers active and actively installing in the area
 - East side of the lake engineering and design completed, permitting process currently ongoing
- Lake James and Crooked Lake
 - Network built and expected turn-up in the next couple weeks
- Multiple Dwelling Units (MDU)
 - Fort Wayne – The Pearl
 - Fremont – Crossroads Place
 - Angola – Terrace Ridge, Terrace Place
 - Lake James – Whisper Bay
- Future project areas and opportunities
 - Butler
 - Fremont

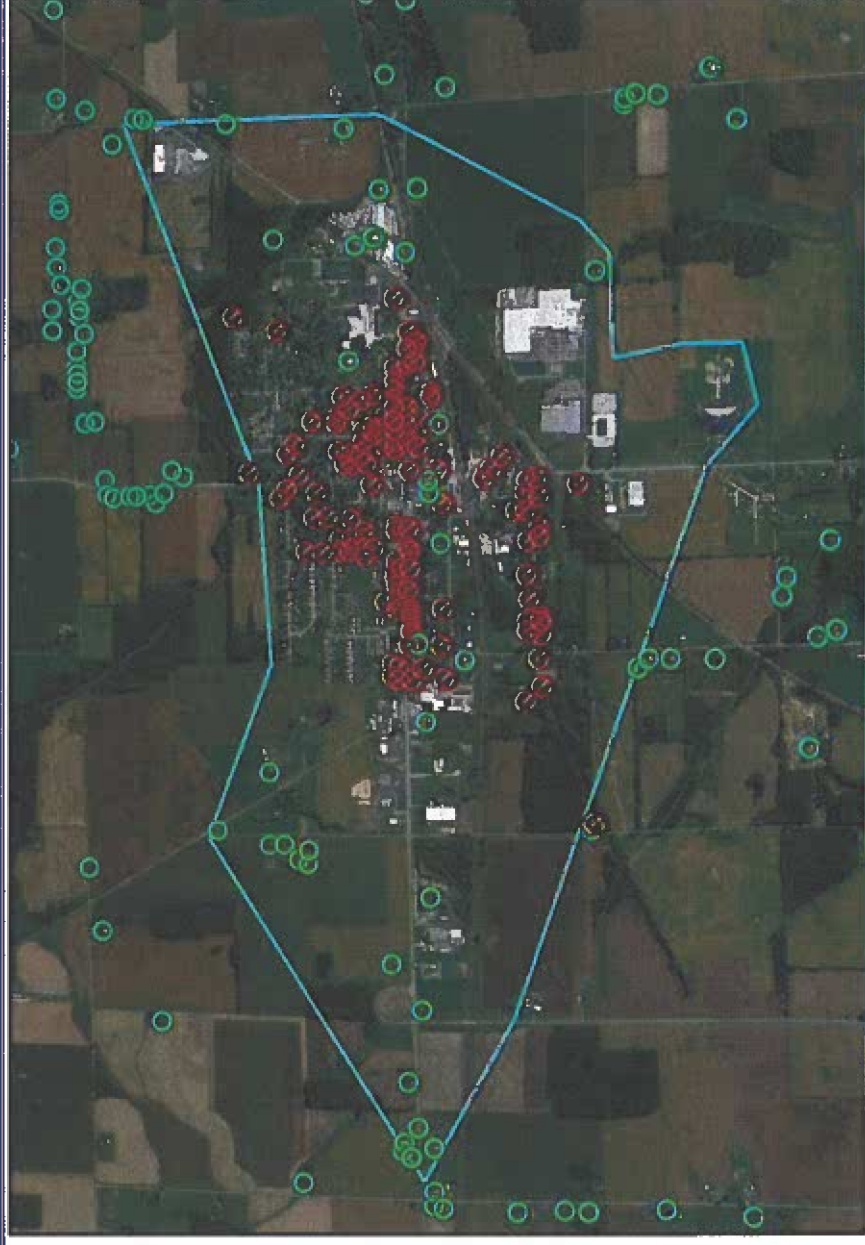
- **Wireless Infrastructure upgrades**

- Dekalb and Steuben County – ongoing project to upgrade our sites to deliver 100 Mbps Down/20 Mbps Up



Lakeland Internet – Butler NLC round 4

- Mercury, Watch and Mediacom Challenged our submission claiming existing service or service available in 10 days.
- Red Circles = addresses challenged by Mediacom
- As a result, OCRA considers Butler, IN served except for a few addresses



Lakeland Internet – Butler BEAD

- Potential for BEAD Funding?
 - Red – Unserved 9 addresses according to Bead eligibility
- Not likely to get funding
- Map from Indiana Broadband Office BEAD funding map
- ** <https://apply.connectingindiana.com/challenge/bead-challenge-map>



Lakeland Internet – How can you help?

- Community leaders and elected officials have an ability to accelerate the fiber expansion process in their communities.
 - 1.) Allocate available ARPA funds to encourage private investment
 - Communities that allocate local funds are more likely to secure projects to enrich their communities. Financial commitments from local jurisdictions, often through community development grants and ARPA funds, are crucial in attracting additional funding. **Lakeland chose Hamilton as our first market to deploy due to an allocation of ARPA funds. Not only did this show the communities commitment to enriching their resident's life, but it also showed their willingness to partner with Lakeland Internet and our continued investment into the community.**
 - 2.) Simplify Engineering Review and Permitting
 - A simple permitting process by local jurisdictions can not only reduce construction costs but also improve project timelines. Lowering the costs of projects makes fiber-to-the-home initiatives more attractive to private investors, and residents may gain connectivity sooner. **Both Steuben County and the Town of Hamilton waived permit fees and made the process extremely easy for Lakeland to navigate.**
 - 3.) Help us get the word out
 - Clear communication to residents and business owners is an important part. Lakeland Internet prides itself on being locally owned, operate and maintained. We love being involved in our communities, but sometimes we need help. We like to clearly communicate when projects are starting and be available along the way with updates and to answer questions.

