



Special Meeting Agenda

City Council

Rich Constantine - Mayor
John McKay - Mayor Pro Tem
Gino Borgioli - Council Member
Yvonne Martinez Beltran - Council Member
Rene Spring - Council Member

Wednesday, April 28, 2021 7:00 p.m.

Virtual Meeting

SPECIAL MEETING

A Special Meeting of the City Council is called at 7:00 p.m. for the purpose of conducting a Community-City Council Workshop.

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CALL TO ORDER

Mayor Constantine

ROLL CALL ATTENDANCE

City Clerk Michelle Bigelow

DECLARATION OF POSTING OF AGENDA

Per Government Code 54954.2

City Clerk Michelle Bigelow

ADOPTION OF AGENDA

COMMUNITY-CITY COUNCIL WORKSHOP

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1. Introduction & Recap of Previous Workshops
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 - a. Etheric Networks
 - b. Bullet Wireless
4. Customer Tips for Troubleshooting In-home Connections
5. Public Input
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7. Future City Actions Relating to Broadband Services

FEBRUARY 24, 2021 COMMUNITY-CITY COUNCIL WORKSHOP MATERIALS

MARCH 24, 2021 COMMUNITY-CITY COUNCIL WORKSHOP MATERIALS

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FUTURE COUNCIL INITIATED AGENDA ITEMS

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ADJOURNMENT

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SUSTAINABLE MORGAN HILL



VISION

To sustain a safe, equitable, inclusive, socially responsible, environmentally conscious, and economically sound community

Choose Morgan Hill

The City of Morgan Hill is the best community for people to live, work, visit, and operate their businesses.

City Council Ongoing Priorities

- Enhancing Public Safety
- Protecting the Environment and Preserving Open Space and Agricultural Land
- Maintaining Infrastructure
- Supporting our Youth, Seniors, and Entire Community
- Fostering a Positive Organizational Culture
- Preserving and Cultivating Public Trust
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- Enhancing Equity, Diversity, and Inclusiveness
- Advancing Regional Initiatives
- Advocating for Local Control

2020-2021 Strategic Priorities

- **Fiscal Sustainability**
- Affordable Housing and Homelessness
- Community Outreach, Engagement, and Messaging
- Economic Development
- Transportation



These strategic priorities were established prior to the COVID-19 pandemic. In light of recent events, we recognize that all of these goals and priorities will be viewed through the lens of the global pandemic, and we will continue to have equity, public health, and financial responsibility in mind.





CITY COUNCIL STAFF REPORT

MEETING DATE: April 28, 2021

PREPARED BY: Angie Gonzalez, Council Services Assistant
APPROVED BY: City Manager

FEBRUARY 24, 2021 COMMUNITY-CITY COUNCIL WORKSHOP MATERIALS

RECOMMENDATION(S)

LINKS/ATTACHMENTS:

1. FEBRUARY 24, 2021 COMMUNITY-CITY COUNCIL WORKSHOP MATERIALS



CITY COUNCIL STAFF REPORT

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PREPARED BY: Angie Gonzalez, Council Services Assistant
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MARCH 24, 2021 COMMUNITY-CITY COUNCIL WORKSHOP MATERIALS

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LINKS/ATTACHMENTS:

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Prepared for: Bullet Wireless Inc & City of Morgan Hill Broadband Workshop
A Vision for Bullet and the City of Morgan Hill
What a public private partnership could be
Presented by: Trevor Bacolini
4-28-2021

The Vision of Bullet

From its inception in 2017 my vision for Bullet was founded on the following basis; a green grid independent company that would provide last mile connectivity to underserved urban and rural areas of Morgan Hill, San Martin, and Beyond. I am proud to say after 4 years of hardwork and dedication that's what we have accomplished. This plan was executed bypassing traditional construction and infrastructure roadblocks and going straight the heart of Morgan Hill's history and its foundational bedrock, the ranchers. It was through the support of these private individuals and businesses such as the Tilton Ranch that Bullet was able to build a robust infrastructure and as a result Bullet now can offer service to 95% of Morgan Hill residences and businesses.

Strategic Tower Locations



The Bullet Infrastructure

Bullet has multiple feed locations with 3.8 gigs of redundant circuits with multiple providers.

Bullet has built out 11 Solar based towers reaching from Chesboro Reservoir to above Jackson Oaks and running from North of Bailey south into Gilroy. This was made possible thru my design of a small form factor tower called a Solarmicropop. In January of 2020 we made our El Toro tower operational to serve the private residences left behind El Toro to offer for the first time high speed internet.

Our Power Grid independence also affords us an additional layer of autonomy and resilience.

Bullet activity in the Morgan Hill Community

- Mushroom Mardi Gras
- Friday night Music
- Taste of Morgan Hill
- Morgan Hill Downtown Association
- Poppy Jasper Film Festival
- Freedom Fest

The voice of Morgan Hill

- When will we have better / faster service options?
- What is Morgan Hill doing to establish a solution to address outages?
- Failover and redundancy

The Morgan Hill Customer Base

Local Morgan Hill	Total	Underserved / Rural
Residential households	14,853	2,122
Commercial businesses	1,000	250+
City of Morgan Hill		
10 Gig infrastructure enhancement opportunity		
South County / Gilroy	Total	Underserved / Rural
Gilroy residential households	15,874	2,200
San Benito residential households	17,740	6,000+
State, National & Global		
50% or more of the county population lives in a rural area 25,000,000* people current underserved in the US “Forget the 5G market we need to focus on the 0G market. . .” Clyde Aiken, WISPA CEO - Global Solar Micro Pop market		

*As per Fox News report January 2020

Mesh Redundancy Solution

What is mesh redundancy?

- A mesh network provides multiple possible paths for transferring data from point A to point B, the network will selectively use the fastest most efficient path allowing the signal and network to spread further.

The value of mesh?

- A mesh network enables the management of high amounts of traffic. A failure of one device does not cause a break in the network or transmission of data.

Strategic Partnerships

Bullet wireless has entered into an agreement with multiple carriers for providing modems that have failover capability utilizing multiple infrastructures based on the customers location as even cell coverage in Morgan Hill is location dependent. This new offering will minimize downtime and provide a much needed backup to our existing infrastructure in the event of a manmade or natural disaster.

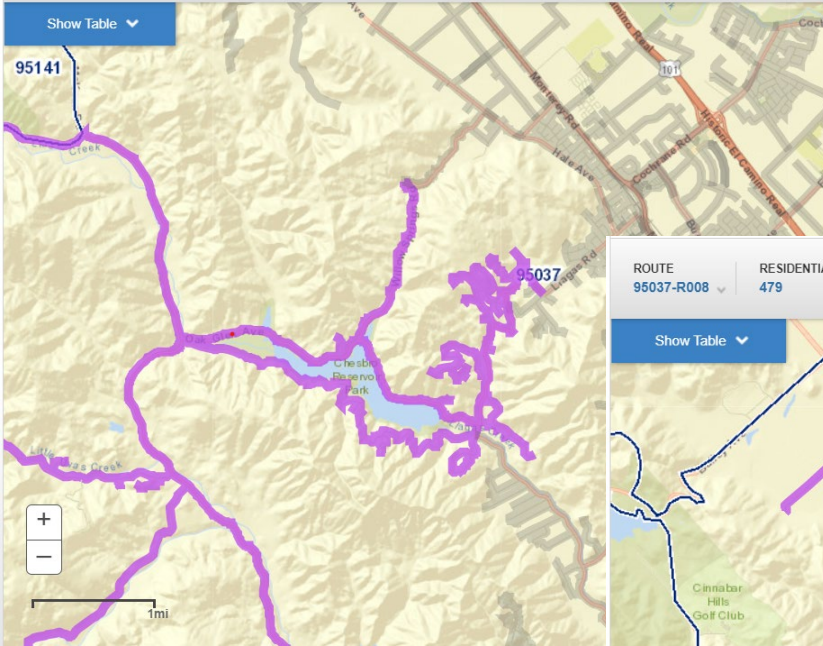
We cannot prevent every event, but we can certainly mitigate most of them as can the city with proper planning.

What a public private partnership could be.

- Public Private Partnership (PPP) - accomplish what the City and/or Bullet cannot do on its own.
- PPP brings private sector competencies and efficiencies to improving public assets and services.
- As I have said in the past there is no magic “Bullet” but together with cooperation we can certainly avoid the impact of future events.

Current Coverage Map

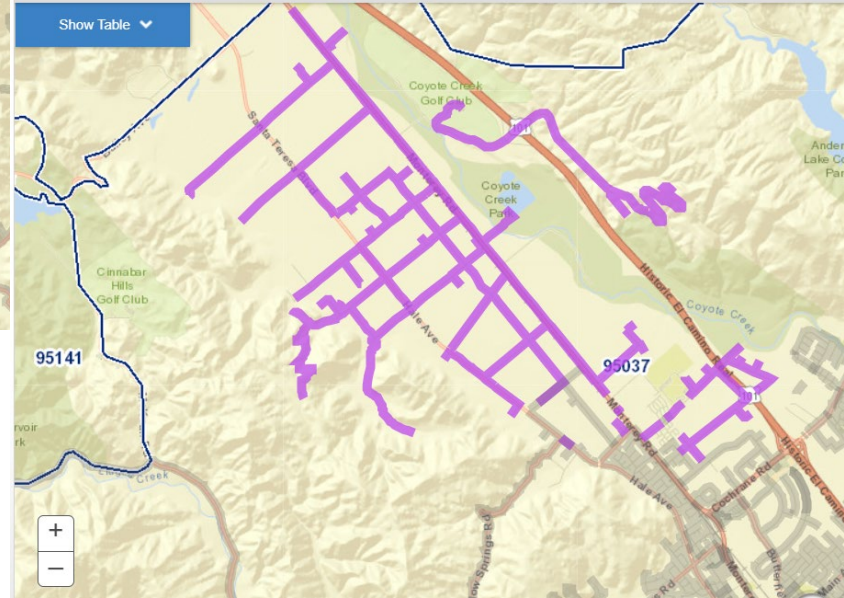
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Multiband Redundancies

2.4, 3.5, 5, 24, 60 GHz Radio Deployment

Bullet is proudly entering 60 Ghz market with the following understanding of the limitation of the technology currently available:

- Limited to 1 mile or less for P2P
- Limited to 400 yards as an AP to personal devices
- We have obtained several radios for testing
- The likely deployment point will be Downtown Morgan Hill

Operational Security (OpSec)-

OPSEC (Operational Security) is a term derived from the U.S. military and is an analytical process used to deny an adversary information that could compromise the secrecy and/or the operational security of a mission.

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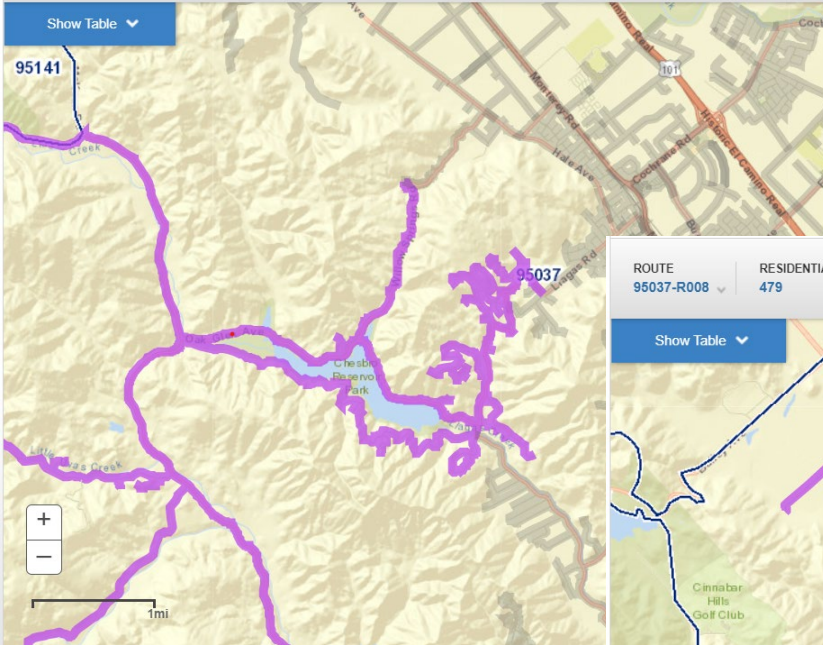
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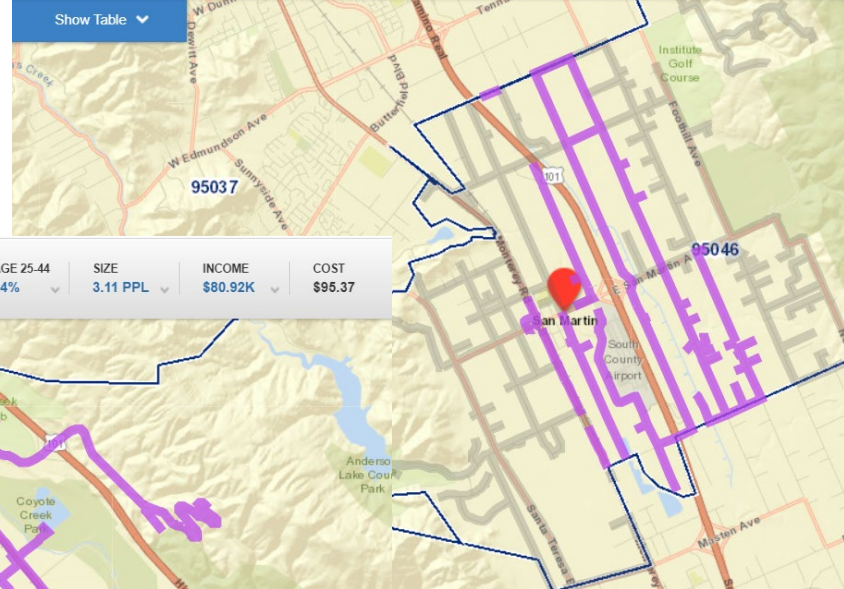
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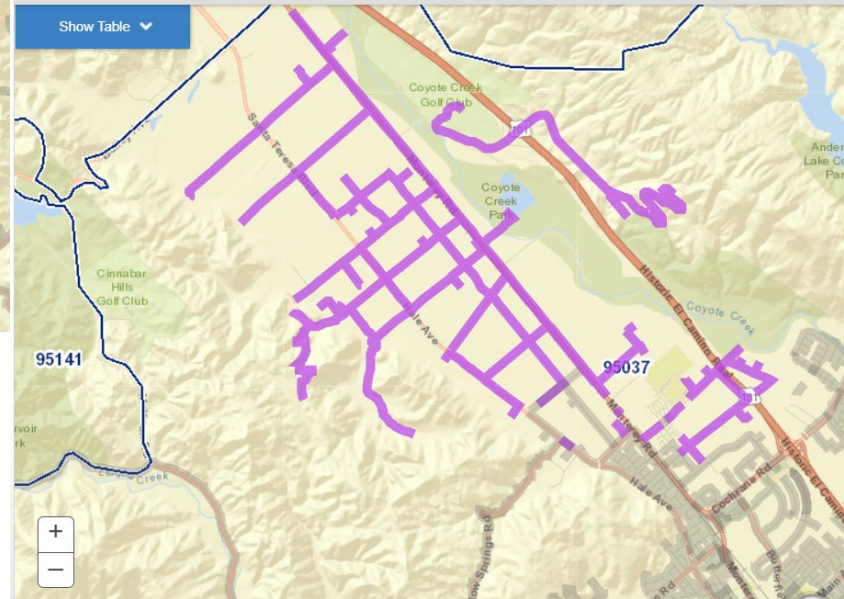
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ETHERIC NETWORKS
ULTRA - HIGH - SPEED INTERNET

Connecting California

Morgan Hill Broadband Workshop

Andrew Brickweg & Laura Schaub - Etheric Networks

April 28, 2021

Everyone Deserves to be Connected to the Internet

- Etheric was founded to bring fast, reliable broadband to rural communities
- We have been serving customers in Morgan Hill since 2003
- Etheric is known for its rapid deployment to difficult to reach or underserved areas
- In December 2020 Etheric won bids to provide service to over 64K locations across 25 counties in California in the Rural Digital Opportunity Fund (RDOF) auction, including the Morgan Hill area





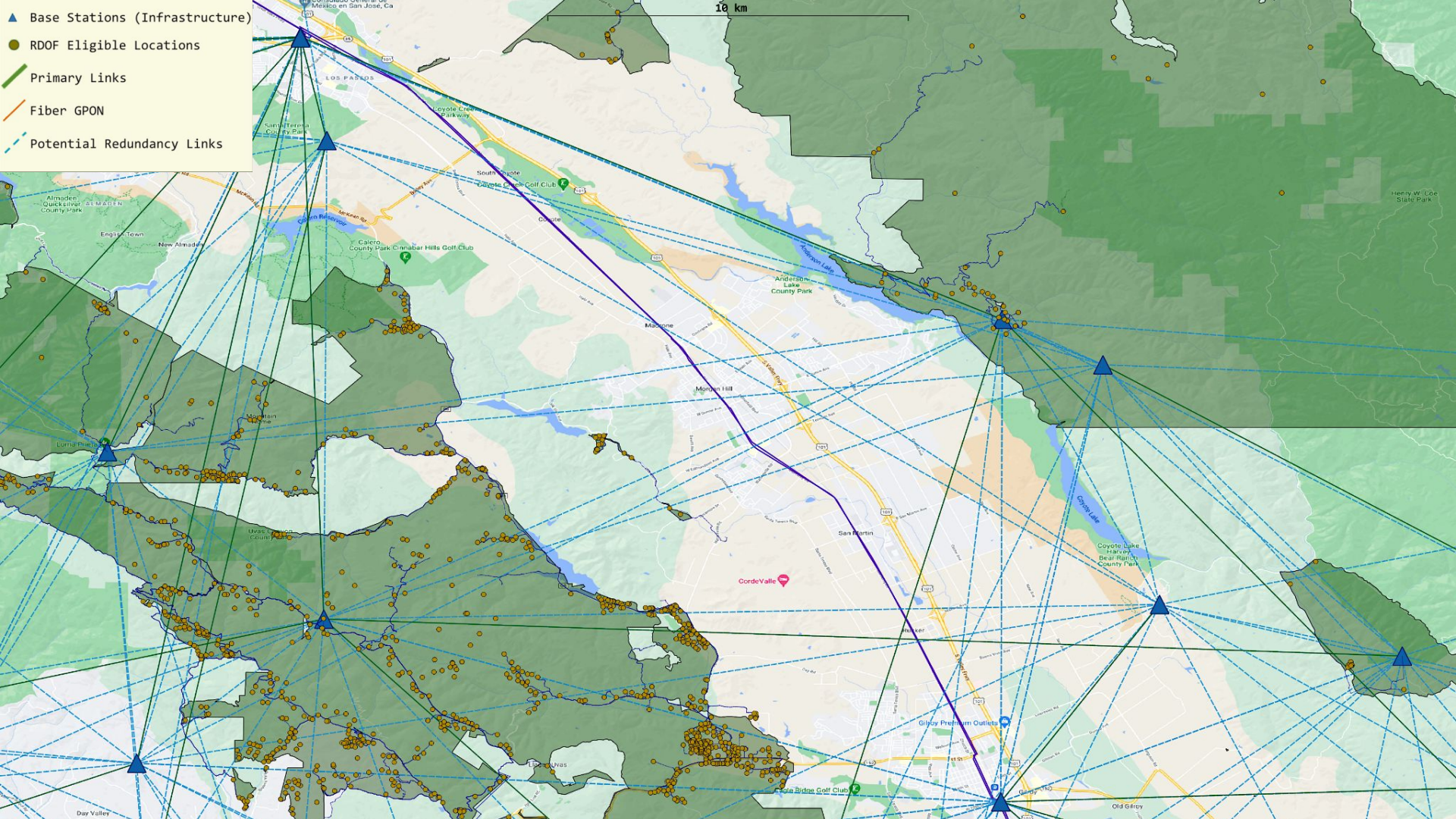
Etheric's RDOF Mission

Etheric will leverage its RDOF assignments in the hills around the South Valley to harden and expand its existing network in Morgan Hill, helping local businesses and residents to:

- Work & learn from home
- Support fire & emergency services
- Enable “smart” agricultural tools
- Ensure business continuity & redundancy

Etheric is committed to touching the land lightly, with energy independent base stations that stay up when power grid goes down





Network Technology

Etheric will deliver 1 Gbps down/500 Mbps up voice and broadband connectivity using a combination of:

- Fixed wireless
- Dark fiber
- Wave services
- Mid-band & Millimeter Wave spectrum (licensed & unlicensed)

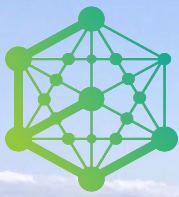
Our hybrid approach allows us to reach even the most remote areas.





How Congress Can Support Fair Rural Broadband Access

- Focus first on communities that have NO broadband
- Ensure subsidies don't favor one technology over another
- Promote diverse solutions & providers who can quickly deliver them
- Leverage providers who already serve the hardest to reach
- Provide more meaningful access to spectrum for small providers
- Allow access to infrastructure for all broadband providers



Get Involved and Stay Informed!

It takes a village to build a network - please add your name to our RDOF customer/vendor portal.

connect.ethericnetworks.com/rdof



ETHERIC NETWORKS
ULTRA - HIGH - SPEED INTERNET

Thank You!