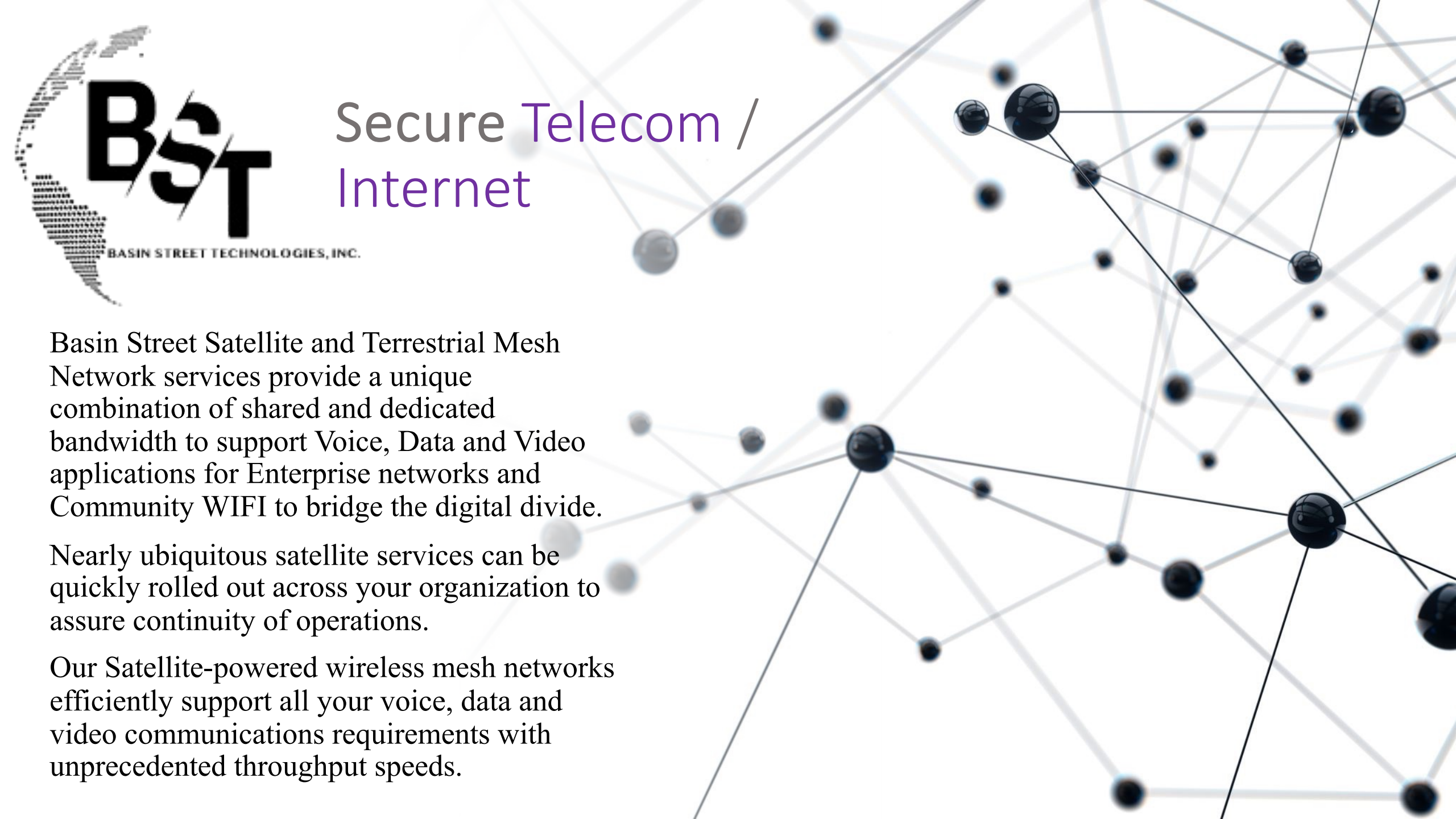




BASIN STREET TECHNOLOGIES, INC.

Connecting the unconnected





## Secure Telecom / Internet

Basin Street Satellite and Terrestrial Mesh Network services provide a unique combination of shared and dedicated bandwidth to support Voice, Data and Video applications for Enterprise networks and Community WIFI to bridge the digital divide.

Nearly ubiquitous satellite services can be quickly rolled out across your organization to assure continuity of operations.

Our Satellite-powered wireless mesh networks efficiently support all your voice, data and video communications requirements with unprecedented throughput speeds.



# Last Mile

The following is a proposal for a Satellite Communication and Telecom Access project Last Mile to provide service to approximately 1,400 users with Basic internet data package of 5 Mbps for smooth operation (a mix of email, browsing, streaming, video calls) BST will design, procure and install the equipment and materials necessary to provide internet service to a minimum of 1,400 users. The system will be scalable in terms of users and capacity for data packets on a on-call basis.

A backhaul node will use cluster nodes to maximize the spread of the internet. Each Backhaul node will cover an estimated 700 to 800 USERS. Node estimated AP range is targeted at 130m (426ft) and will be place approximately 221m (725ft) apart. Nodes will be solar powered where applicable.



**BASIN STREET TECHNOLOGIES, INC.**





BASIN STREET TECHNOLOGIES, INC.

# COMMUNITY SOLUTIONS

Broadband connection via WIFI with existing last mile infrastructure





## SAT BROADBAND

- Two-way satellite broadband
- Internet coverage where traditional terrestrial provider cannot reach or provides poor coverage

## COMMUNITY WIFI

- Combining with point to point, Point to multi-point , and our WIFI Nodes
- Providing connectivity to communities, neighborhoods, and entire cities





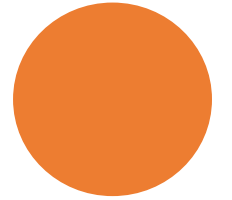
# Mesh Networks

Breakthrough decentralized self-healing Industrial-Mesh wireless communications technology.

Originally developed to provide internet connectivity to underserved communities throughout the world, it can economically extend signal over the “last mile” from any internet source.

Currently utilizing unlicensed Wi-Fi spectrum, the network provides true mesh connectivity (<5% loss of throughput/node) at ranges of a mile or more

Access points deliver connectivity over a 400-meter diameter.

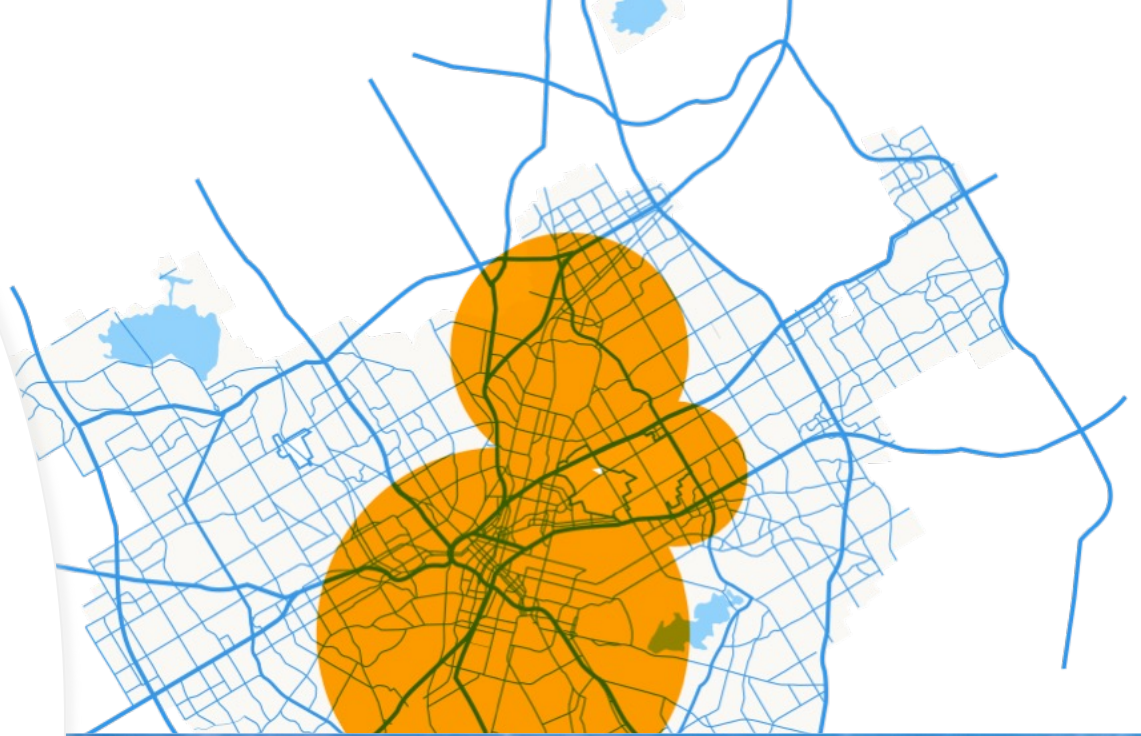






## POINT TO POINT

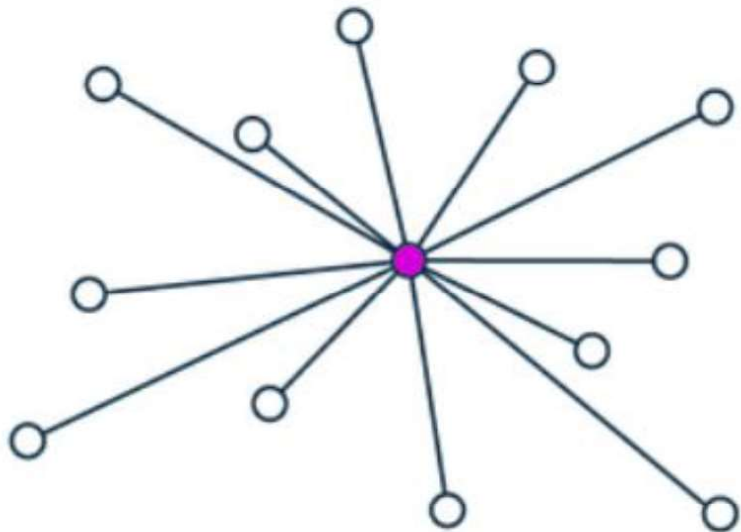
- Using last mile technology, we offer point to point distribution as well as point to multi point for our last mile.
- Direct to Customer
- Direct to WIFI Nodes



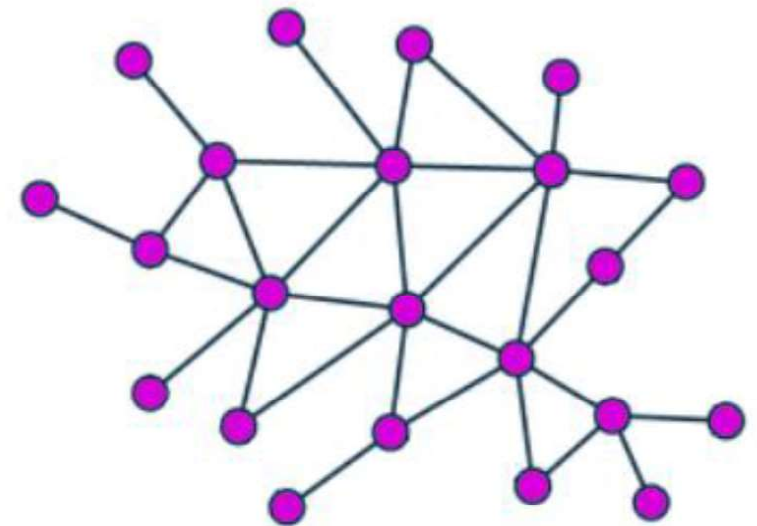




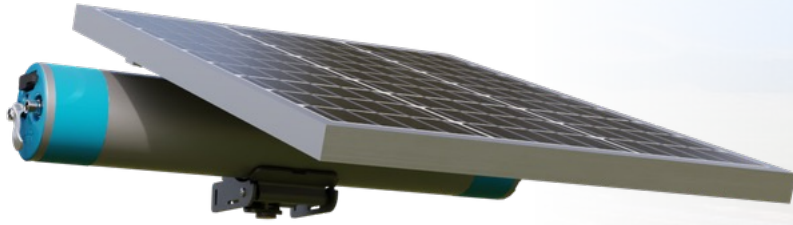
# CENTRALIZED Network Intelligence



# DE-CENTRALIZED Network Intelligence







# WIFI Anywhere

- Turn the nodes on. Insert a SIM card or Sat Broadband ethernet somewhere in the network. The other nodes will figure out the rest to blanket hundreds of areas with internet access without laying cable.
- Our routing algorithm loses only 15% of available throughput on each wireless "hop."
- With dual-SIM 5G or CAT20 4G-LTE support, up to 2Gbps backhaul is fully integrated via internal antennas.
- Low-loss broadband networks across neighborhoods, towns, or entire cities



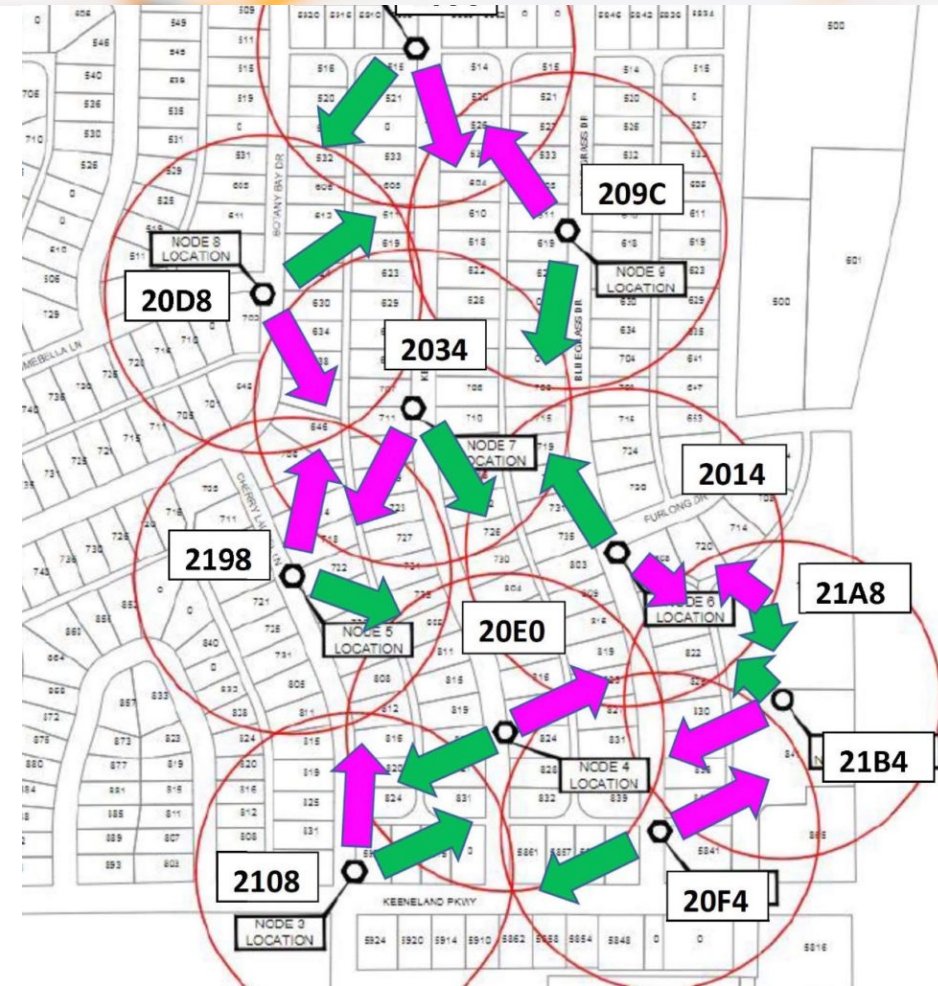
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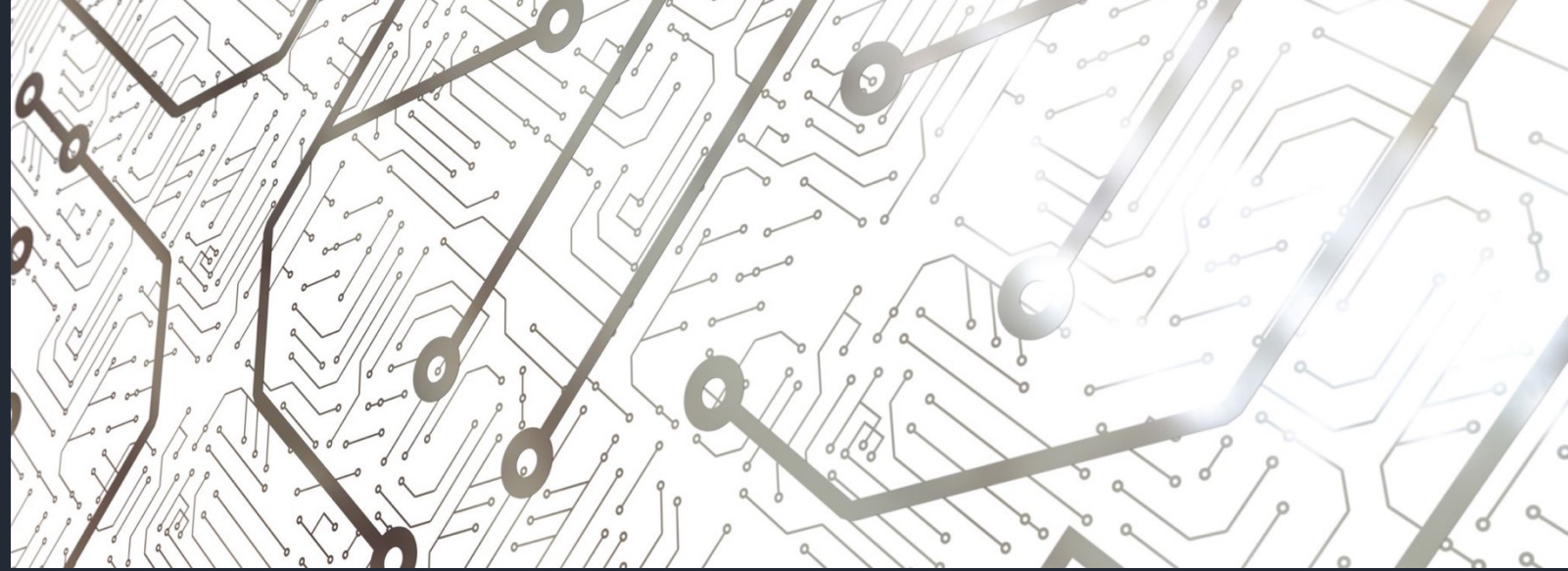
## How Units are Configured

- Nodes are **up to 200 meters apart** in suburban environments
- **Overlapping node coverage** ensures connectivity in case of any individual node outage
- **5GHz** connects the nodes
- **2.4 GHz** distributes **Wi-Fi** to the students' homes





## POWER OPTIONS



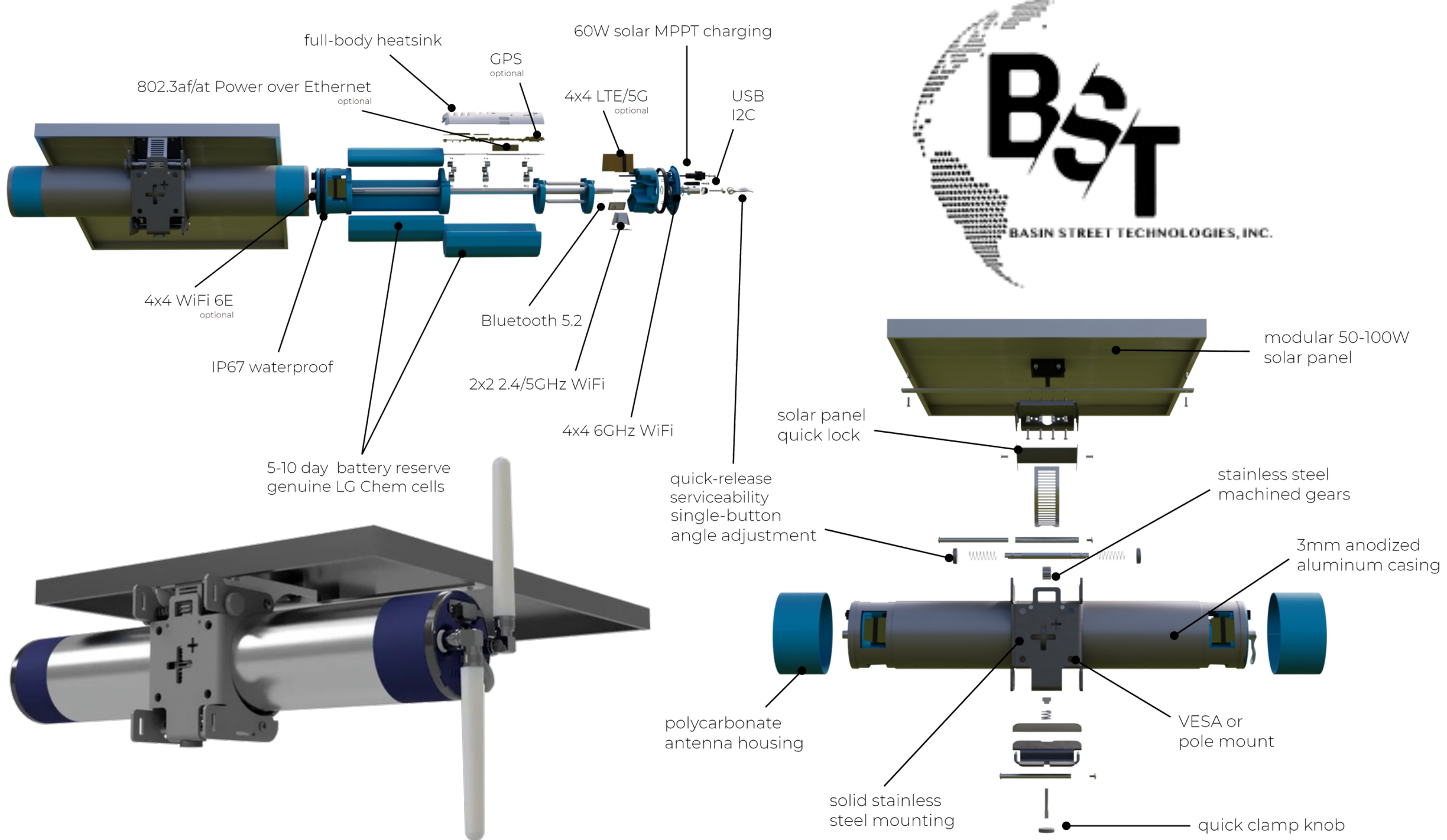
- Sources providing Backhaul are powered through POE at 48VDC



- ALL other nodes are powered by solar (minimum 24V)











## SOLAR NODES UNITS

- Range up to 400m line-or-sight
- Support 25-500 users per Nodes
- 22lbs (10kg)
- Fully solar-powered
- Weatherproof
- 2X2 dual-band WIFI 6
- Bluetooth activation
- 4-day battery reserve





# Rural vs Urban Deployment

**Most unconnected areas have access to nearby fiber - but can't afford to distribute that connectivity across the landscape to individual homes and businesses.** BST innovation solves this problem for both urban and rural deployments, but there are differences.

## Key Differentiators

- **Distance.** In suburban environments, routers are placed up to 200 meters from one another. However, in rural environments the routers can be up to a mile away from one another without loss of performance.
- **Urban & suburban environments allow multiple users to** access unique nodes, where rural applications may only yield one family per node.
- **Factors to consider:**
  - Line of sight
  - Landscape features (e.g. hills/depressions)
  - Antenna height



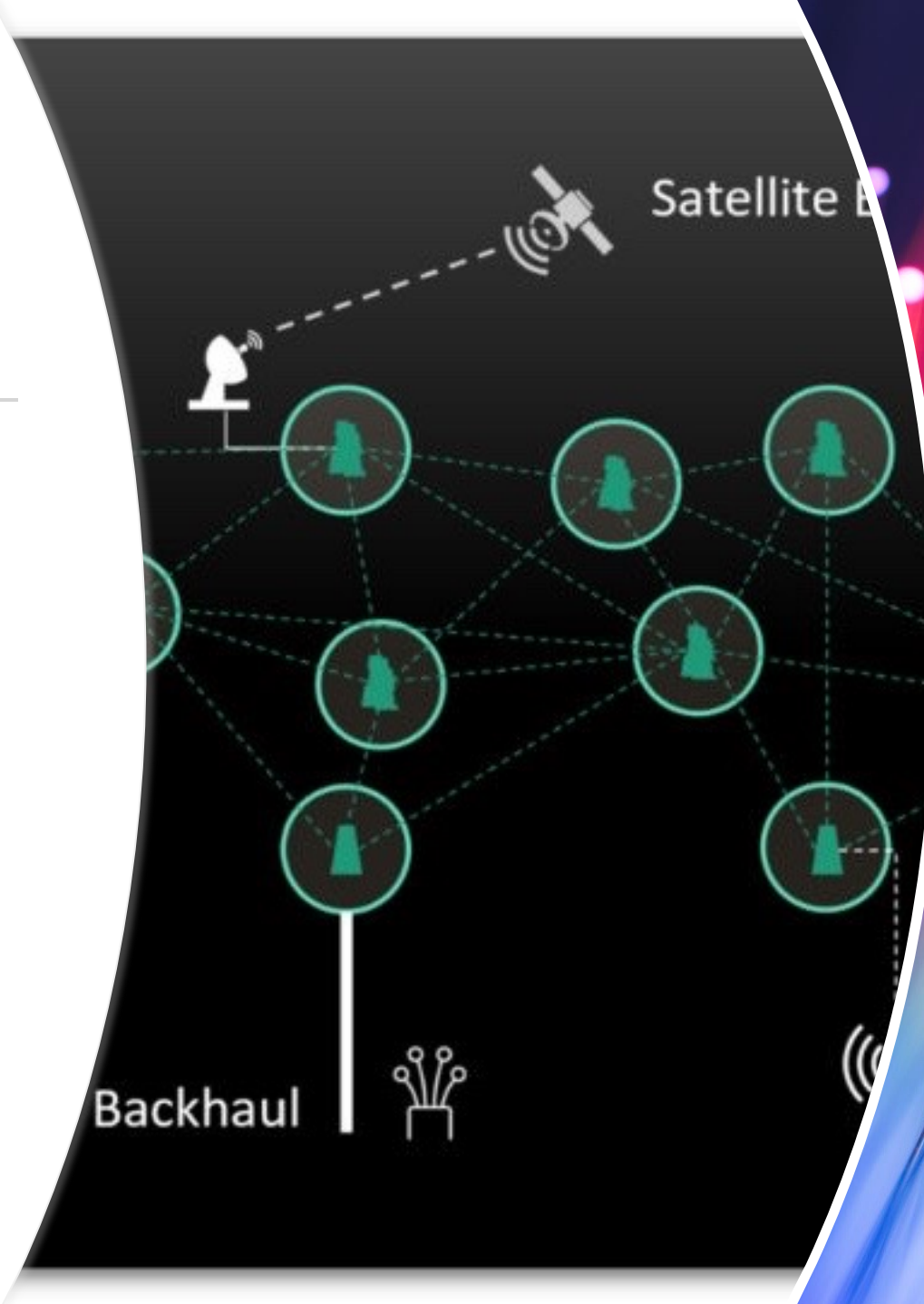


# BACKHAUL

## Requirements

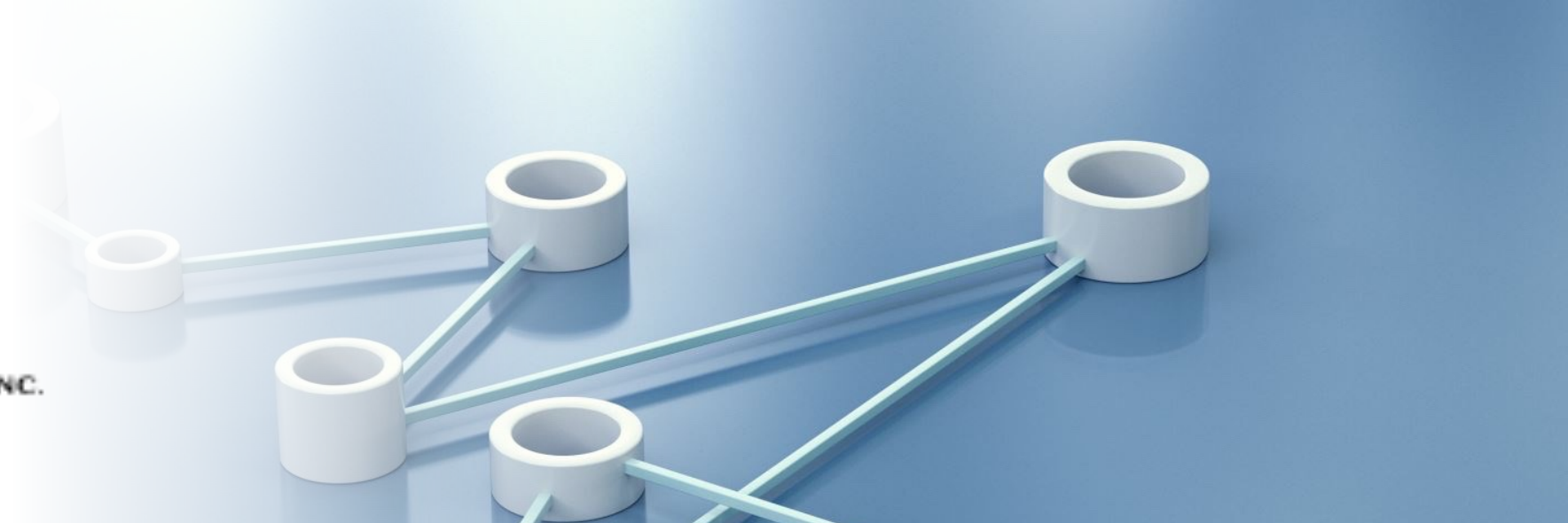
Plug and Play  
Backhaul via Satellite

- Provides ultimate flexibility
- Automatic load balancing
- Organic network growth won't break the network like traditional methods
- Provides each node with the opportunity to optimize its signal (the more points of backhaul, the better)
- Helps ensure network stability
- Eliminates single point of failure (but will run off a single "base")



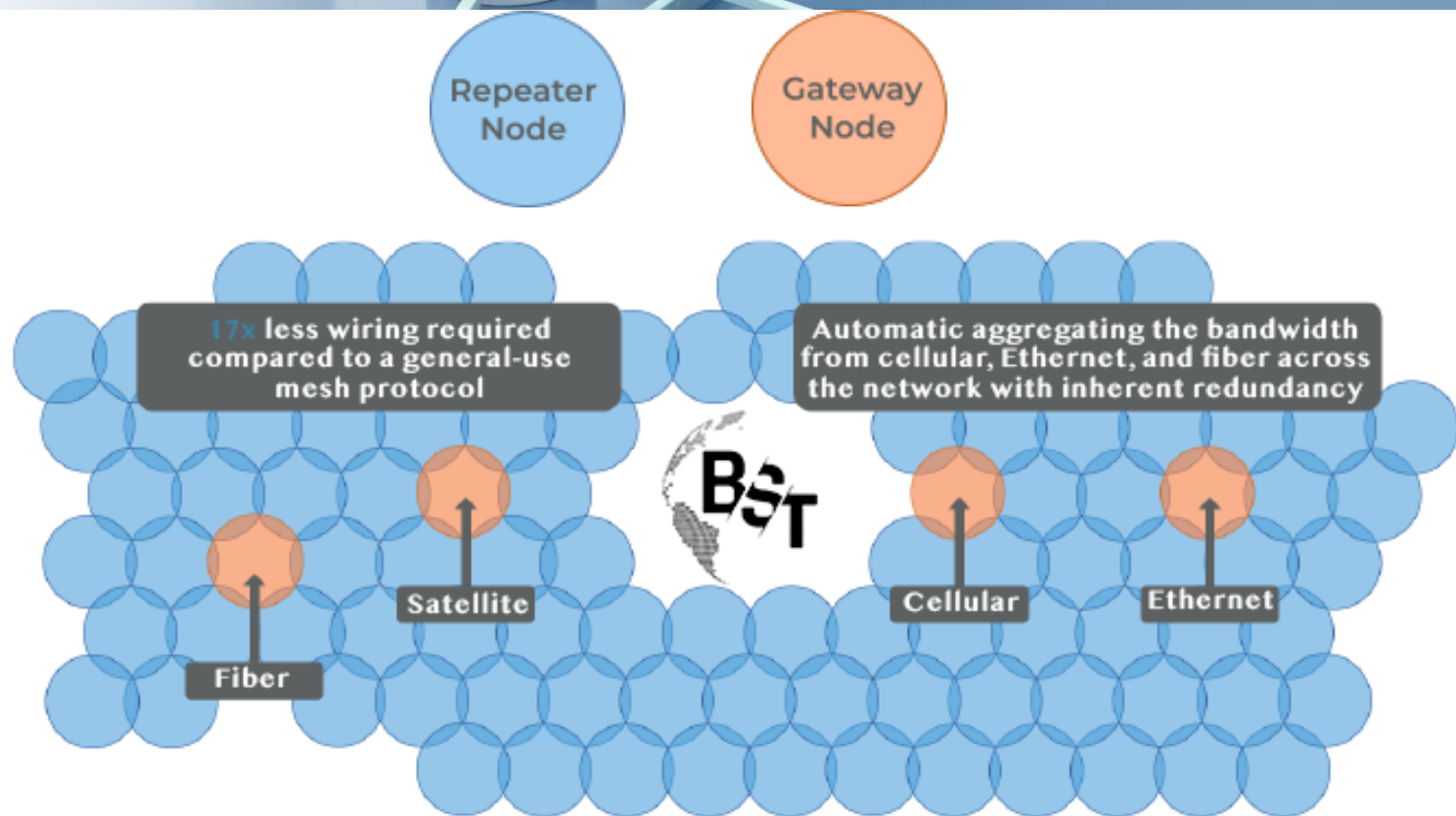
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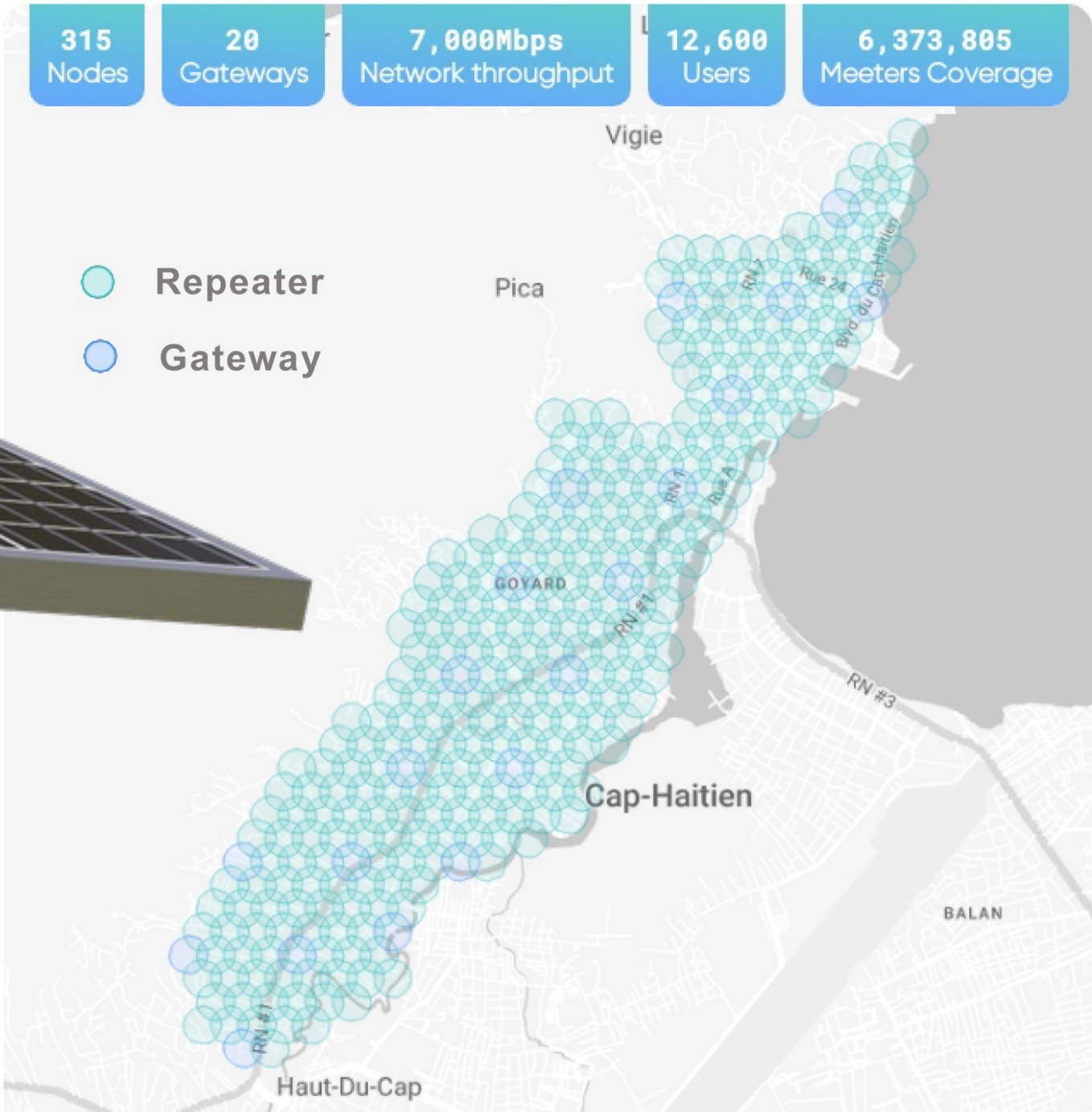
## Use Case

- Public Wi-Fi Security  
Cameras IoT Data Collection  
Parks & Sports
- Universities & Schools
- Military
- Air Force Drones Border Wall
- Forward deployment bases Joint Exercise communications
- Emergency Services Disaster relief
- Disaster preparedness





# SCALABLE NETWORK







## WHERE OTHER NETWORKS END OR FAILS. WE'LL BE THERE


- Simplified Deployment easily scalable
- Decentralized, self configuring, automatic load balancing and self healing mesh network
- Multilayered software with included Billing suite
- Game changing throughput efficiency per node
- Each device can act independently as bay station, CPE or AP









The background of the entire image is a complex network diagram. It consists of numerous dark blue, glossy spheres of varying sizes connected by thin, light gray lines. These lines form a web-like structure that fills the entire frame. On the right side, there is a stylized representation of a globe, also composed of these network elements. The globe is formed by a series of concentric, slightly offset rings of nodes and lines, giving it a three-dimensional, digital appearance. The overall aesthetic is clean, modern, and tech-oriented.

Connecting the  
Unconnected

**BST**

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