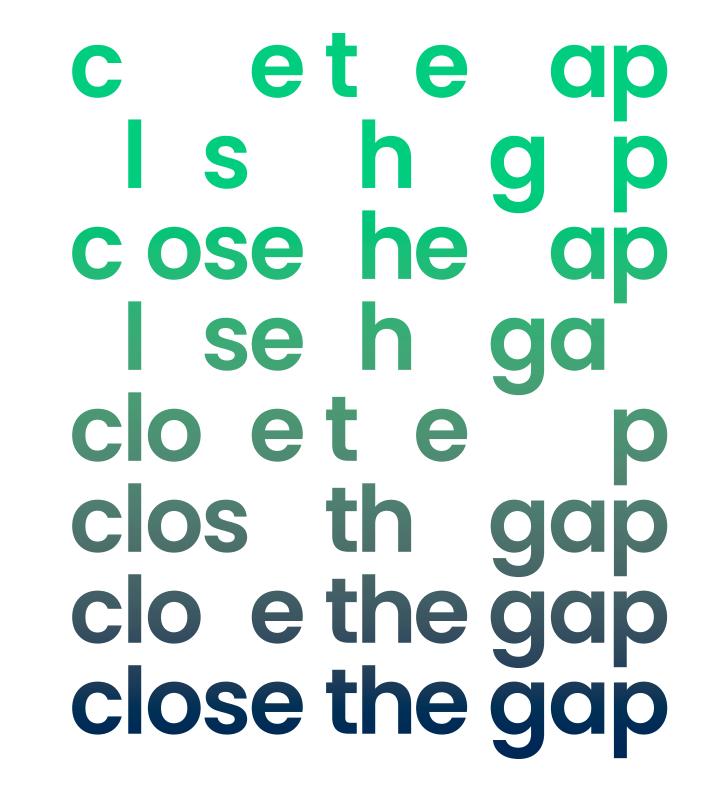aradatum

access absolutely anywhere

5G connectivity has the power to change the world—but even the most innovative ideas can only reach as far as their signals will go. Unlocking the full potential of this technology requires advanced infrastructure that can solve geographic, power, and aesthetic issues, and at Aradatum, that's just what we do.

Say hello to Aradatum, a 21st-century infratech company. We've built on decades of knowledge in energy and technology to rethink telecommunications towers, finding an innovative way to meet the challenges of connection, communication, mobility, and sustainability with one elegant solution.
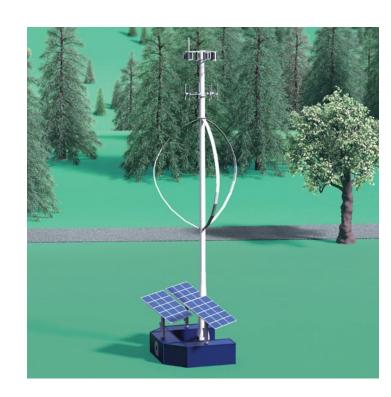
close the gap

innovation from the ground up

we kept the essential functions of a telecommunications tower and cut the cord on the rest...

sustainable power

Our towers rely on clean, renewable energy to power all of our customers' applications. Using a vertical-axis wind turbine and solar panels that tilt to track the sun, each one continually harvests energy from its surroundings, making it completely independent from the grid.

battery storage and backup

Wind and solar energy is stored in the on-site battery, where it can be used to power antenna arrays, servers, EV chargers, and other equipment. Should the battery ever run low, each tower also has a clean fuel generator to provide backup power, delivering 99.999% percent uptime and reliability.

...rethinking everything from the way they get their power to the way they're installed.
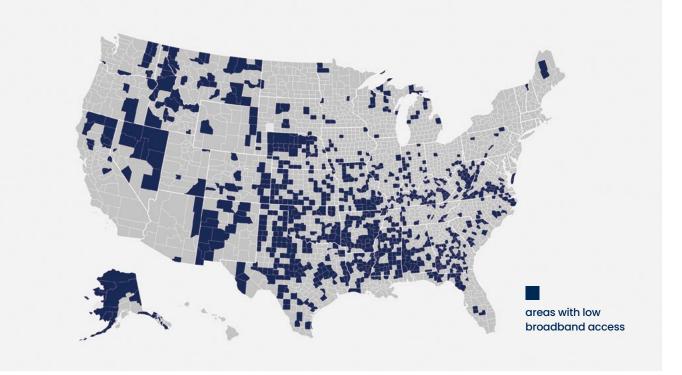

areas with low broadband access

space above and below

Each tower is designed to host our customers' technology at the ideal height and direction to optimize communication. In addition to antennas, we can host servers and other supportive technology in a secure location at the base.

simplified installation

Because tower climbing has been called "the most dangerous job in America," we engineered our towers in a safer way that allows antennas to be installed at ground level before the mast is raised to its final position.

dare to go where others don't

because aradatum's self-powered towers are independent from the existing power grid, they can be placed anywhere in the landscape.

Until now, wireless infrastructure was primarily focused on massive population centers with abundant access to the power grid. While these prime locations got first dibs on the new technology, access has been uneven, at best, to nonexistent in large swaths across the map.

But we've found a way to bridge this divide, giving you access to all the previously unaccessible and strategic sites you need. From far-flung locations to urban centers, road and rail-side coverage, industrial sites, and transport hubs, Aradatum can extend your broadband to every inch of the earth.
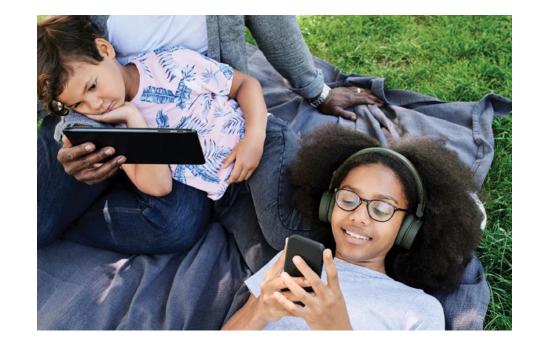
this changes everything

built in the 19th century, our current infrastructure was designed to serve only the most basic needs of turning lights on in the dark and keeping food cold.

In the past 20 years alone, there have been more than 180 large, sustained outages in the US, and grid operators have warned that our aging grid could lead to more frequent shortages.

Even "modern" high voltage lines often date back to World War II, putting them at risk for overloading or failure when faced with today's power-hungry applications. The growing demands of data processing, high-speed communications, and electric vehicles threaten to overwhelm our current capacity, and modern security threats pose additional risks.

Patching the current system is not enough (and let's be honest, it's too costly and can't be done) to meet the growing demand. That's why we've leapfrogged all of these limitations by creating a smarter approach to 21st-century infratech.

connectivity

Freed from the limitations of the existing grid, Aradatum's towers provide a practical way to extend telecommunications infrastructure to literally every person and every place, sharing the advantages of high-speed communication and connectivity more equitably and promoting technological advancements across the map.

electricity

Instead of competing with consumers, business, and industry for electricity created with unsustainable methods like burning coal, Aradatum's towers harvest all of the clean, renewable wind and solar power they need from their surroundings—and store more that can be used for charging electric vehicles.
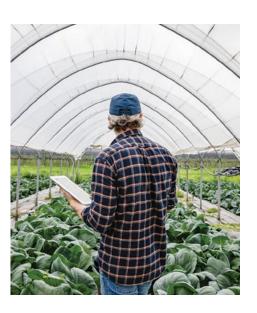
look beyond the edge

5G is more than just enhancing the speed of downloading videos and songs. We're powering life-changing ways to live, work, and play in a ubiquitously connected future. Creative minds have already begun the disruptive thinking that will power this leap ahead. By taking that same approach to wireless infrastructure, Aradatum can invite the whole world to share in the full potential of 5G, starting today.

connect
connect
connect
connect
connect
connect

the future is 5G

What does 5G look like? Imagine robotic surgery that enables doctors to provide world-class care to people many miles away. Opening the world's finest libraries and labs to students and researchers so they can explore, experiment, and innovate with virtual reality. Equipping farmers with remotely operated technology to increase crop yield and help feed the world. Enabling self-driving cars and buses, interactive lessons, real-time reactions in e-sports—and equal access for anyone, absolutely anywhere. It's all possible with Aradatum.
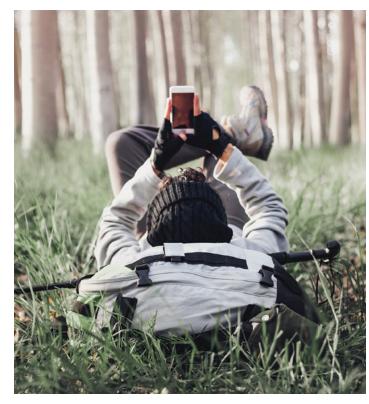
let our capabilities expand yours

you bring the ideas. we'll provide the infrastructure, power, security, reliability, and logistical support you need to make them succeed.

telecom infrastructure

Expand your network to previously inaccessible sites with our macro cell towers. Powered by renewable energy, they offer all the capabilities of a traditional monopole tower, letting you establish new hubs for your growing network more sustainably.

fixed wireless

Help rural communities bridge the digital divide by using our independent towers to extend ultra-high-speed broadband anywhere, even in areas where distance or terrain have made it prohibitively expensive to lay and maintain fiber and power lines.

private networks

Ensure speed and privacy for your applications. Connect IoT devices. Or support your tenants, visitors, or guests with an exclusive network at the heart of your operations. Aradatum's towers provide an affordable and practical way to create your own secure private network anywhere you like.

neutral host networks

Discover a cost-effective way to deliver better mobile performance without waiting on network roll-out plans to reach specific areas. Aradatum's go-anywhere towers can be installed quickly and easily, allowing a neutral, third-party host to expand telecommunications infrastructure as needed.

edge computing

Keep critical applications safe from unacceptable data lags with Aradatum's infrastructure. Our self-powered towers can securely house your data centers at the base, allowing you to provide ultra-fast, reliable processing in strategic locations much closer to where data is transmitted and used.

ev charging

Power the coming wave of electric vehicles with Aradatum. Each of our towers harvests its own sustainable energy directly from the wind and sun, storing the excess on-site to supply hungry vehicles without taxing the existing grid.

power resilience

Expect the unexpected—and equip yourself with a way to power through it. Aradatum's self-powered, off-the-grid towers provide backup for crucial communications that might be disabled during emergencies, blackouts, and unpredictable electromagnetic pulse events.

innovative, independent, and indispensable for the 21st century. aradatum can take you anywhere.

aradatum