The wireless world is changing.

And so is your community.

CROWN
CASTLE

The phones, tablets and wearable devices we take for granted today were unimaginable just a few years ago. At the rate broadband technology is changing, we're seeing increasing demand being put on the infrastructure that supports it. We've helped communities like yours deal with this changing world.

Let's work together to understand what growing data demand means for your community.

Increased data use is driving big changes.

As data usage increases, so does network congestion. Think of it as cars trying to crowd onto a busy interstate. At some point, traffic comes to a standstill. In the wireless world, adding new infrastructure is the equivalent of building more lanes—it gives all that extra data someplace to go.

OVER
50%
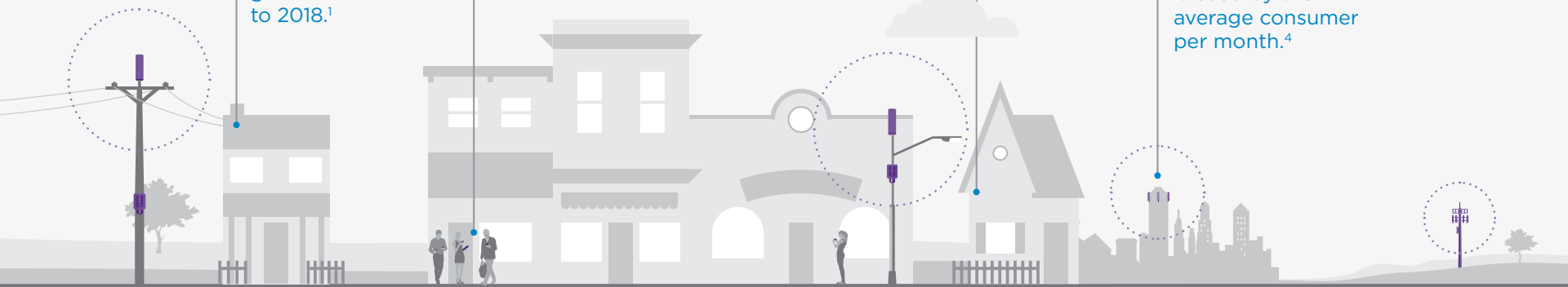of households rely exclusively on their mobile phones.[3]

MOBILE VIDEO
is projected to be 79% of global mobile data traffic by 2022.[2]

238%
mobile data traffic growth from 2016 to 2018.[1]

7GB
of mobile data is used by the average consumer per month.[4]

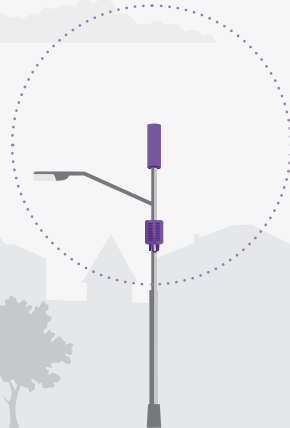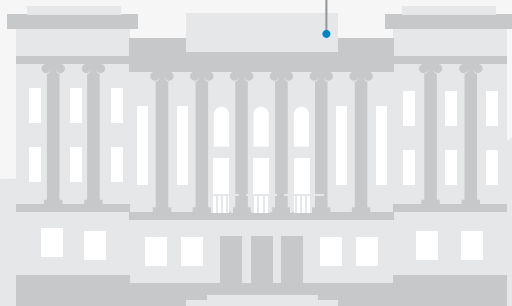# Your community's safety is dependent on reliable service.

89%

of public safety decision makers say wireless data is just as important as voice.[5]

80%
OF
911
CALLS

are placed from wireless phones.[6]

50%

of school administrators prioritize mobile access when updating emergency response plans.[7]

Your community needs more wireless infrastructure. Now what?

Additional infrastructure translates into more convenience for residents, more efficiency for businesses and greater safety and peace of mind for the community at large.

Before you get upgraded, this is what you can expect:

1. ASSESSMENT

After considering the needs of residents, business owners and first responders, a determination is made as to where additional infrastructure is needed.

2. PLANNING

Our engineers will design a network that supports the community's need. We gather input and work closely with municipal planners to come up with a solution that best serves everyone's needs.

3. CONSTRUCTION

Our construction managers oversee every aspect of the project to ensure safe and proper installation with as little disruption as possible.
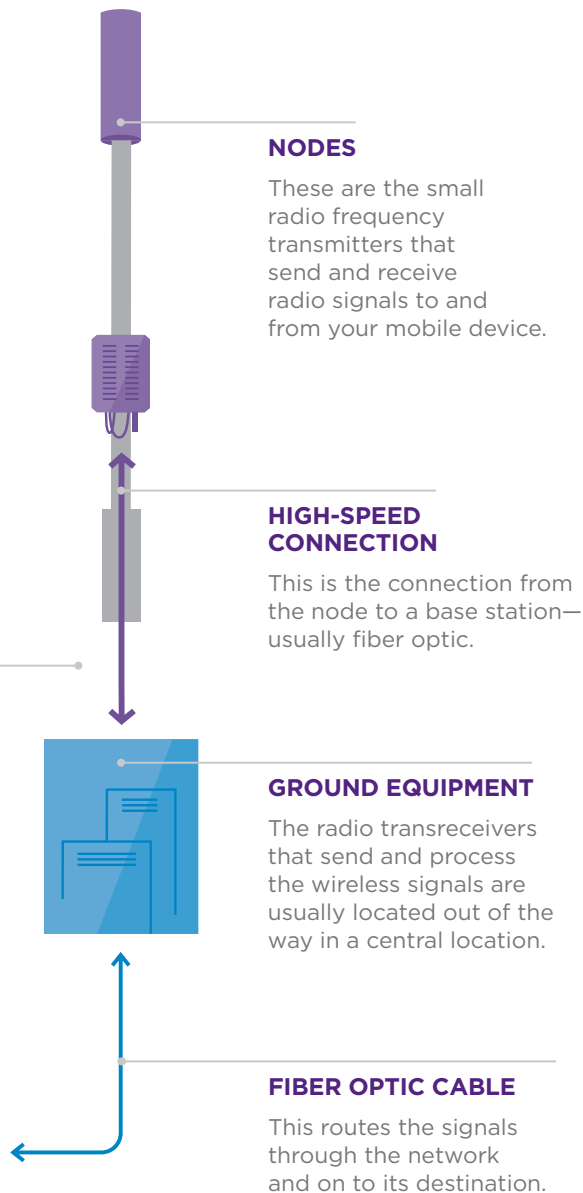
A small cell node in
Central Park, NYC.

A small cell node in a
residential community.

Small cell solutions get big results.

While towers and rooftop antennas are still widely used, small cell solutions are often most practical in places where capacity is an issue. They are small, low-powered and sit near to the ground, so we can place more of them closer together. They increase capacity and the likelihood that you'll get a direct line-of-sight signal—while preserving the aesthetics of their surroundings. In addition, each node is connected by fiber optic cable, allowing it to handle large amounts of data and making future upgrades simple.

What makes up an SCS network?

Small cell solutions networks can vary significantly in the way they look, but have a few things in common. As their name implies, they are smaller and more discreet than other forms of infrastructure. Typically they include the components shown on the right.

NODES

These are the small radio frequency transmitters that send and receive radio signals to and from your mobile device.

HIGH-SPEED CONNECTION

This is the connection from the node to a base station—usually fiber optic.

GROUND EQUIPMENT

The radio transreceivers that send and process the wireless signals are usually located out of the way in a central location.

FIBER OPTIC CABLE

This routes the signals through the network and on to its destination.

SHOULD I BE WORRIED ABOUT RADIO FREQUENCY EMISSIONS?

There are no adverse affects from cellular signals.

At ground level, cellular RF levels are not significantly different from TV and radio signals, and fall within FCC guidelines.

More resources are available online.

For more information or links to reputable studies, visit the websites of the American Cancer Society, the Federal Communications Commission (FCC), the International Commission on Non-Ionizing Radiation Protection (ICNIRP) and the World Health Organization.

The benefits of working with Crown Castle.

Wireless infrastructure has been our core business since 1994—before most people even had mobile phones. When we build and maintain a small cell network, you can be sure we're in it for the long haul. Other benefits include:

OUR SHARED INFRASTRUCTURE MODEL

Multiple carriers can use the networks we build, which reduces the need for redundant infrastructure in your community.

OUR COMMITMENT TO AESTHETICS

We take special care to place nodes in the most discreet way possible. In cases where we need to add additional slimline poles, we design them to blend in and fit the style of your community.

Right-of-way

OUR ACCESS TO PUBLIC INFRASTRUCTURE

We have Competitive Local Exchange Carrier (CLEC) status in 48 states plus the District of Columbia. That means we can install in the public right of way on already-existing infrastructure like utility poles, streetlights, or signposts.

LEARN MORE

We hope you're as excited about improving your community as we are. If you'd like to learn more about how we can help, contact your local Crown Castle representative or visit CrownCastle.com

ABOUT CROWN CASTLE

> Our national reach includes more than 40,000 towers and approximately 90,000 route miles of fiber supporting small cells and fiber solutions.

> We have 30 years of experience building and maintaining small cell networks in venues and communities, including dense urban centers and residential neighborhoods.

> We have offices nearby with people who understand your community—and its network needs.

> We're an S&P 500 company listed on the NYSE.

1. "How the wireless industry power the U.S. economy," *Accenture*, 2018.
2. "Visual Networking Index," *Cisco*, 2019.
3. "Wireless Snapshot, 2017," *CTIA*, 2017.
4. "How the wireless industry powers the U.S. economy," *Accenture*, 2018.
5. "Building Safer, More Resilient Communities in a New Era of LMR Intelligence," *Motorola*, 2014.
6. "2017 National 911 Progress Report." *911.gov*.
7. "Study Shows Mobile-Enabled Emergency Plans Are a Top Safety Priority for Schools," *CampusSafety*, 2014.