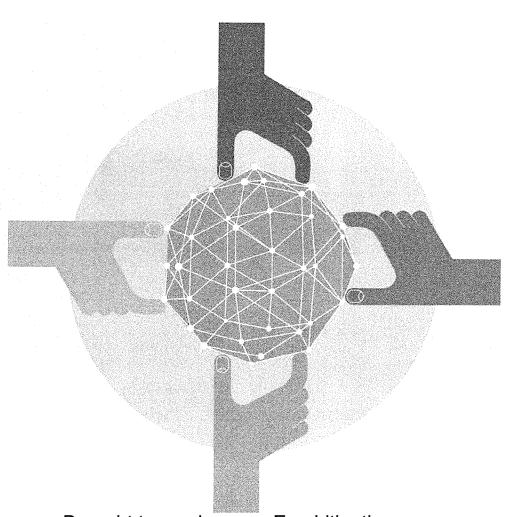
#### EXHIBIT K

verizon√

our homesting businesses, and communities.

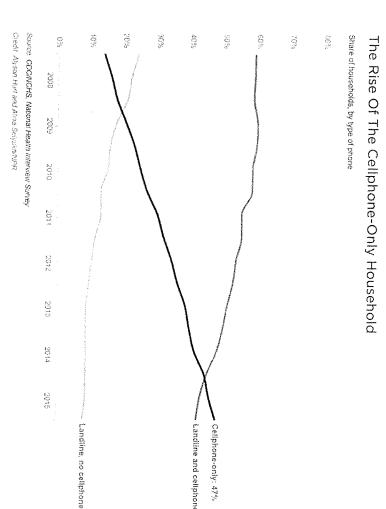


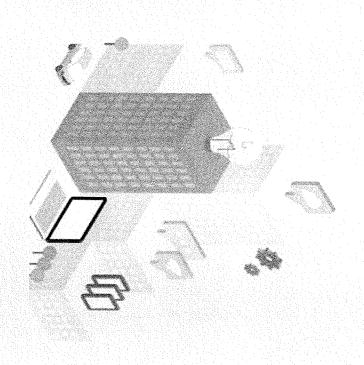
Brought to you by www.EruvLitigation.com See Website for case updates and information

### verizon/

## Wireless-Ony Households

Today, just over half (50.8 percent) of American households only have a mobile voice connection. For Millennials (those born between 1982 and 2004), the number increases to over two-thirds who live in mobile-only households. That number is another significant jump up from 10.5% in 2006 and 31.6% in 2011





decreased fuel costs. and savings from lower energy use, could produce \$160 billion in benefits reduced traffic congestion, and Wireless-powered smart city solutions Smart Cities and

Self-driving cars could save 21,700 lives billion in annual savings for the healthcare industry.

Connected devices could create \$305

and \$447 billion per year.

connectivity stands to add roughly \$2.7 year 2020, and this increase in trillion to U.S. GDP by 2030. conservatively surpass 20 billion by the The number of IoT devices worldwide will

### **Verizon**<sup>v</sup>

### Building a wireless on in a crisis. network you can rely

difference between life and death. call or text message can make the crisis strikes. That's when a simple never more important than when The reliability of your cell phone is

> keep customers connected when you need it most. We build reliability into every aspect of our wireless network to

of earthquakes, and risk from wildfires, mudslides, floods, nurricanes and more are all considered locations available for our wireless equipment. The likelihood Reliability starts when we choose the safest, most secure

When disaster strikes, we coordinate with first responders and on at can mobilize charging stations, special equipment, emergency not need to support local, state and federal agencies of in all 50 states.

It's who we are.

Of wireless subscribers have used devices in an emergency.

Of all 911 calls are made from wireless devices.

Be expected to support local, state and federal agencies and on attack and federal agencies of all 911 calls are made from wireless devices.



Wireless Week, March 9,2016 National Highway Traffic Administration, February, 2016

See Website for case updates and information

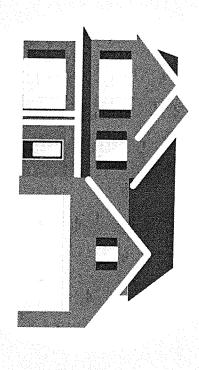
### **verizon**

# Wireless facilities and property values

value good cell service over many other factors including school district when purchasing a home

National studies demonstrate that most home buyers

Cell service in and around the home has emerged as a critical factor in home-buying decisions.



75%

More than 75% of prospective home buyers said a good cellular connection was important to them.1

83%

The same study showed that 83% of Millennials (those born between 1982 and 2004) said cell service was the most important factor in purchasing a home.



90% of U.S. households use wireless service. Citizens need access to 911 and reverse 911 and wireless may be their only connection.<sup>2</sup>

Money, "The Surprising Thing Home Buyers Care About More than Schools," June 2, 2015 CTIA Facts and Infographics, June 2015

Brought to you by www.EruvLitigation.com
See Website for case updates and information

### **verizon**<sup>v</sup>

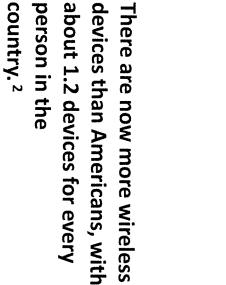
#### More people than ever before rely on Why are we WITCHESS NETWORK? expanding the

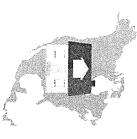
meet the growing demands of today and wireless connections to manage their Verizon is expanding its wireless network to lives and businesses





seven-fold through 2019.1 projected to grow nearly U.S. mobile data usage is





outnumbering devices with smartphones tablets 6 to 1.3 household has 13 connected In North America, the average



<sup>1.</sup> Cisco VNI Mobile Forecast Highlights, 2014 – 2019, October 2015

<sup>2. 2017</sup> CTIA Wireless Snapshot, May 2017 & Pew Research Center, "Mobile Fact Sheet" (Jan. 12, 2017), available at 3. HS Market Connected Device Market Monitor: Q1 2016, June 7, 2016

Brought to you by www.EruvLitigation.com See Website for case updates and information

### **verizon**<sup>v</sup>

### background. Health and safety

and studies continue. effects of RF emissions for decades, wide have studied potential health Health and safety organizations world-

exposure of times less than the FCC's limits for safe power densities are hundreds to thousands antennas, have shown that ground-level especially those with tower-mounted According to the FCC, measurements made near typical cellular and PCS installations,

> including: on the recommendations of federal health and safety agencies guidelines for operating wireless networks are based The Federal Communications Commission (FCC)

- The Environmental Protection Agency (EPA)
- The Food and Drug Administration (FDA)
- and Health (NIOSH) The National Institute for Occupational Safety
- The Occupational Safety and Health Administration (OSHA)
- The Institute of Electrical and Electronics Engineers (IEEE)
- (NCRP) The National Council on Radiation Protection and Measurements

highly regulated Wireless technology, equipment and network operations are

More information can be found through these organizations:

Federal Communications Commission Radio Frequency Safety Program: http://wireless.fcc.gov/siting/FCC\_LSGAC\_RF\_Guide.pdf

nttp://www.fcc.gov/oet/rfsafety

Food & Drug Administration "Cell phone facts":

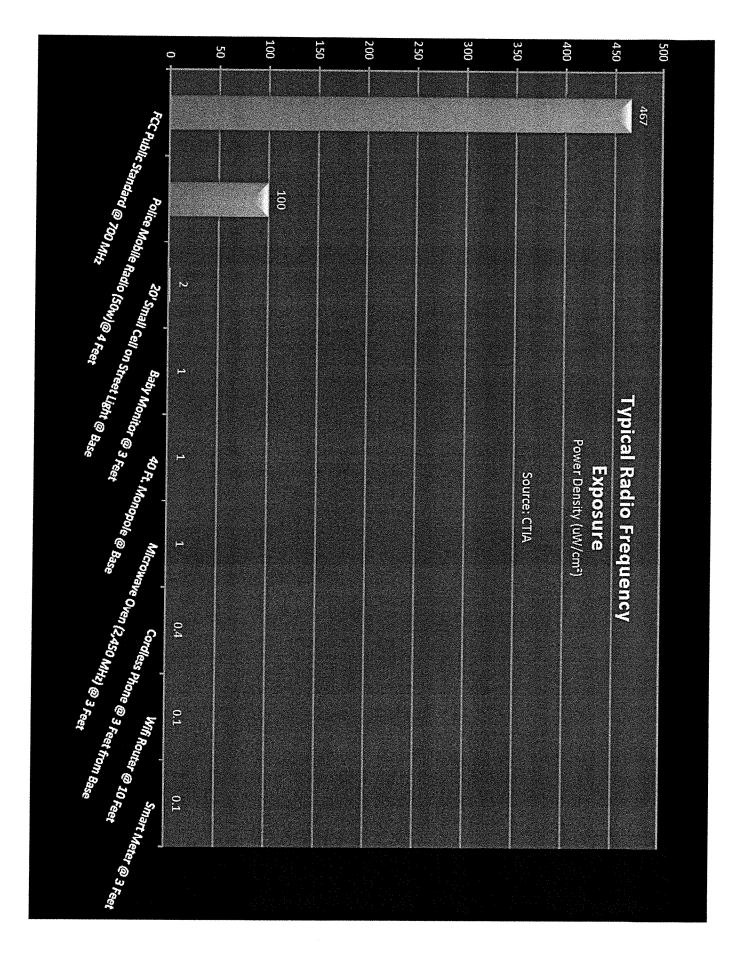
ment/CellPhones/ucm116282.htm EmittingProducts/RadiationEmittingProductsandProcedures/HomeBusinessandEntertain http://www.fda.gov/Radiation-

World Health Organization:

http://www.who.int/peh-emf/publications/facts/fs304/en/

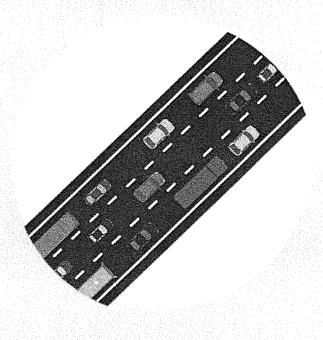
American Cancer Society

http://www.cancer.org/cancer/cancercauses/othercarcinogens/athome/cellular-phone-



Brought to you by www.EruvLitigation.com See Website for case updates and information

### Staying ahead of demand. A wireless network is like a highway system...



More wireless traffic needs more wireless facilities just like more vehicle traffic needs more lanes.

- Many wireless users share each cell site and congestion may result when too many try to use it at the same time.
- Wireless coverage may already exist in an area, but with data usage growth increasing exponentially each year, more capacity is

needed.

To meet capacity demands, we need to add more wireless antennas closer to users and closer to other cell sites to provide the reliable service customers have come to expect from Verizon.

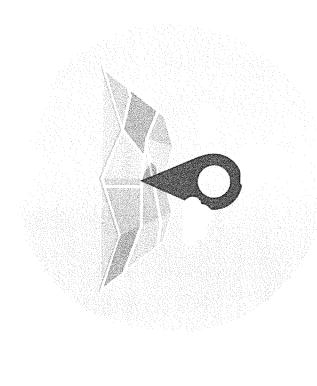
Wireless subscribers used almost 10 trillion megabytes of data in 2015, more than double what they consumed in 2014.\*

\*Fortune, May 23, 2016.

### verizon√

### Finding the right location.

To meet customer needs and expectations, wireless providers need the ability to expand and enhance their networks where users live, work, travel and play.



Verizon gathers information from many sources including customer feedback, results of our own exhaustive network testing, and data from third parties.

When an area for improvement is identified, utilizing our existing network is always our first effort. If that is not possible, we then look at adding a new site.

### Steps to finding a new site

Our engineers analyze the areas that need improvement to figure out the ideal location based on customer needs, and modeling results.

terrain

Using existing structures is considered first

Network teams perform exhaustive searches in the area needing improvement to find a location that will meet our technical needs. We also look at interest from property owners

We pick a location that has the highest likelihood of meeting technical needs and works for the community.

### Guidelines for new sites

We comply fully with all requirements for community notification and review, zoning and permitting.

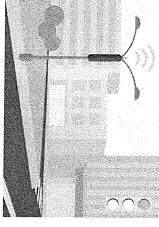
Potential antenna locations must meet all local, state and federal regulations.

Verizon holds Federal Communications Commission (FCC) licenses for the frequencies utilized and we strictly follow their regulations.

# require different solutions.

Solutions.
Verizon uses a balanced approach to engineering the best possible network given the local community's needs.

Macro sites are traditional cell sites or towers that provide capacity and coverage to a broad area, up to several miles.

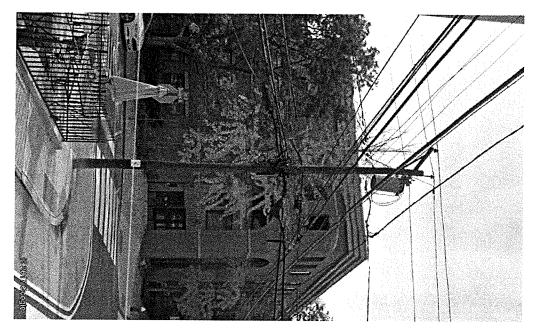


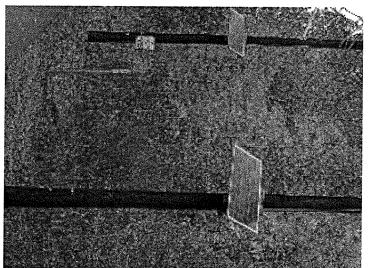
Small cells are just like the name implies – short range cell sites used to complement macro cell towers in a smaller geographic area ranging from a few hundred feet to upwards of 1,000 feet. These lower power installations enhance capacity and provide coverage in areas where there are gaps in reliable wireless service.

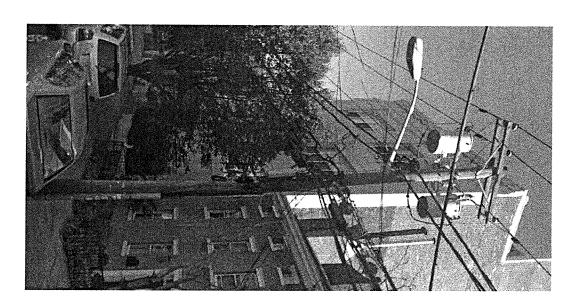
Distributed Antenna Systems (DAS) are a group of antennas in outdoor or indoor locations that connect to a base station. DAS systems are typically used in and around large venues including stadiums and shopping centers.



# Poles Verizon Wireless Can't Use







Brought to you by www.EruvLitigation.com See Website for case updates and information

### verizon

pole.

the ground 8-15 feet from the

radio equipment to be placed on

JCP&L requires

### Equipment configurations vary depending on utility pole owner.

equipment box to be mounted on the pole Telephone, ACE and PSE&G Verizon allow the radio

> ACE Verizon Telephone/PSE&G/ Telephone pole or Existing Installation on New Verizon pole





Installation on Existing

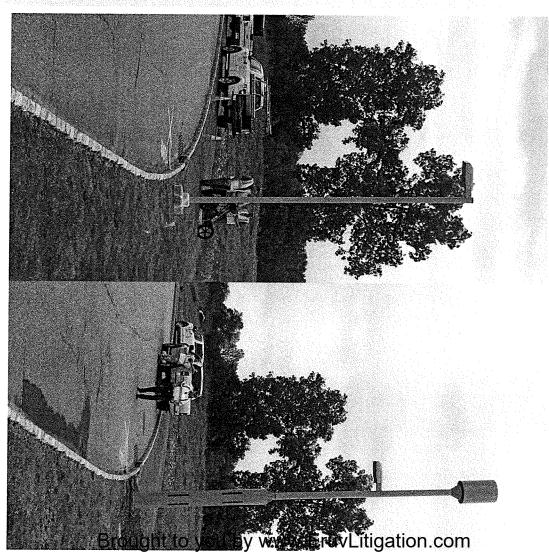
See Website for case updates and information

distribution of this material is not permitted to any unauthorized persons or third parties except by written agreement Confidential and proprietary materials for authorized Verizon personnel and outside agencies only. Use, disclosure or

# Replacement Lights

Replacement light fixtures are custom designed to match existing infrastructure and blend in with the streetscape.

Verizon will work with municipalities on siting and to come up with a mutually agreeable design.



See Website for case updates and information

### verizon/

# What Verizon Wireless is Requesting from Communities in New Jersey

A provision of the New Jersey Public UtilityAct, N.J.S.A. 48:3-18 permits any company (not necessarily public utilities) to use poles that have been lawfully erected in the public right-of-way.

Where the second company is not itself a franchised utility, which is the case with Verizon Wireless, the consent of the municipality is required under N.J.S.A. 48:3-19.

This is only the first level of permission sought by Verizon Wireless. After consent from the governing body is obtained, Verizon Wireless will then seek site specific permission from the appropriate building departments.

### Thank you.