

Future of Wireless

SERVING ILLINOIS' SMART
COMMUNITIES



ctia Everything™
Wireless

Wireless is Everywhere

TODAY, NEARLY EVERY AMERICAN HAS HIGH-SPEED MOBILE BROADBAND



- There are **380 million** wireless connections in the U.S. — more than our population
- **99.6%** of Americans have access to 4G LTE networks

The Wireless Industry Powers Our Economy

CREATING NEW AMERICAN JOBS AND OPPORTUNITIES

“
The wireless industry
adds **\$400B** annually
to our economy.”

The Brattle Group

MAY 2015

4.6 M
JOBS

Americans jobs rely directly or indirectly on the wireless industry.

JOB
MULTIPLIER

6.5 jobs are created every time the wireless industry employs **one** person.

1.66M
JOBS

The app economy means more jobs for Americans.

Wireless in Illinois



13.367M

Illinois wireless subscribers, up 11%
from 2010



There are

500,000

More devices than Illinoisans

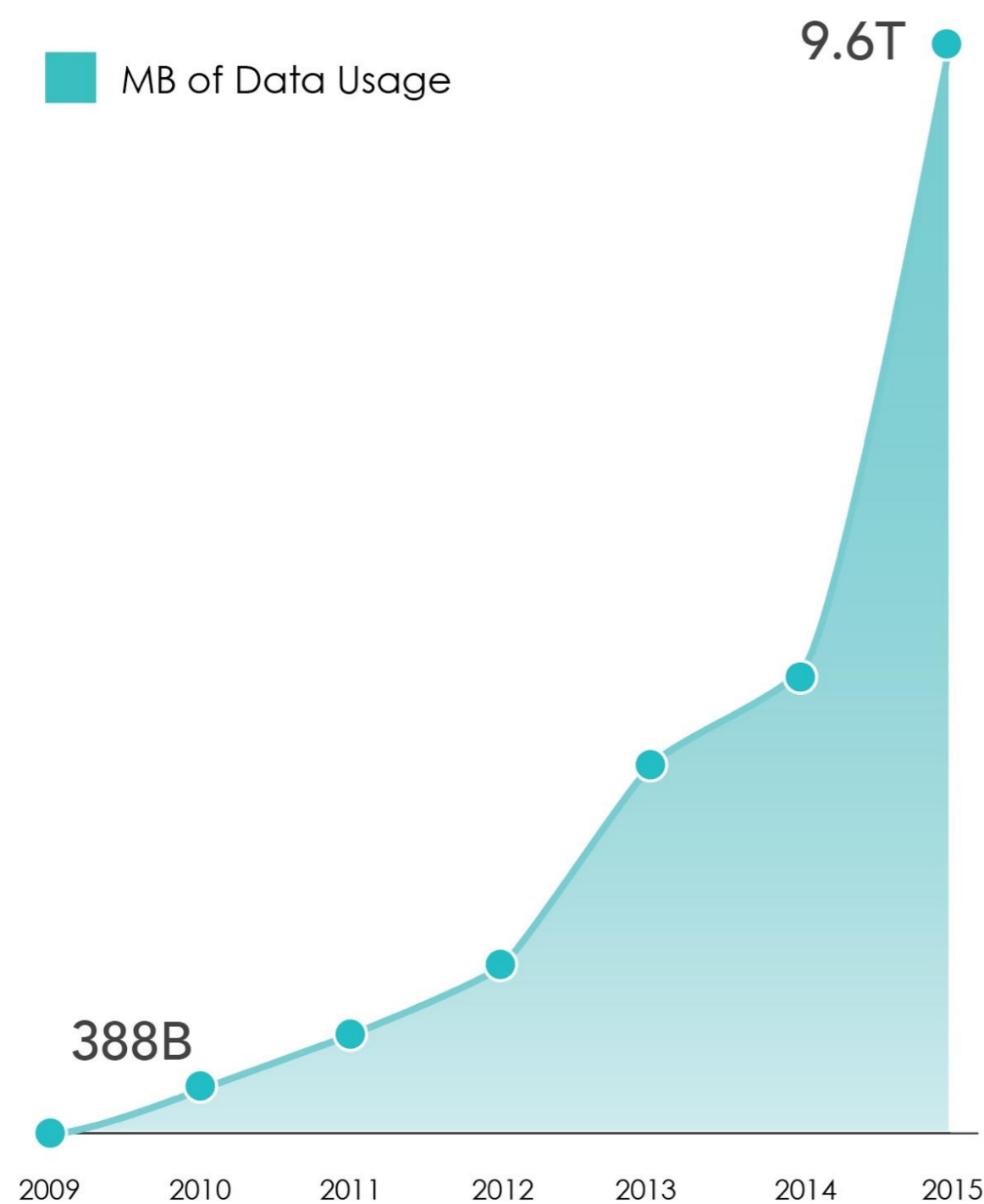


6

Wireless providers in Illinois

Americans Love Wireless

MORE EVERY YEAR



3 out of 4

Americans believe mobile is more important to their lives than it was 5 years ago



Americans used **25x MORE** mobile data in 2015 than they did in 2010

Mobile Data Traffic

WILL CONTINUE TO SURGE

By 2021:

- Mobile data will be **5x** 2016's record levels
- Mobile connections will increase **30%**



5G is the Answer to Our Growing Data Needs

4G MADE OUR NETWORKS FASTER AND OUR LIVES EASIER

5G WILL BE A MASSIVE LEAP



5G Will Unlock New Real-Time Applications



BEFORE: 4.6 FEET



AFTER: 1 INCH



5G Benefits

IMPROVE COMMUNITIES ACROSS AMERICA



3M

NEW JOBS



\$500B

CONTRIBUTION
TO GDP



\$275B

NEW WIRELESS
INVESTMENT



\$160B

SMART CITY BENEFITS
AND SAVINGS

5G Benefits

ILLINOIS SNAPSHOT



JOBS



GDP GROWTH



SMART CITY

Chicago

25,400

\$4.14B

\$1.57B

Rockford

1,400

\$227M

\$86M

Springfield

1,100

\$178M

\$67M

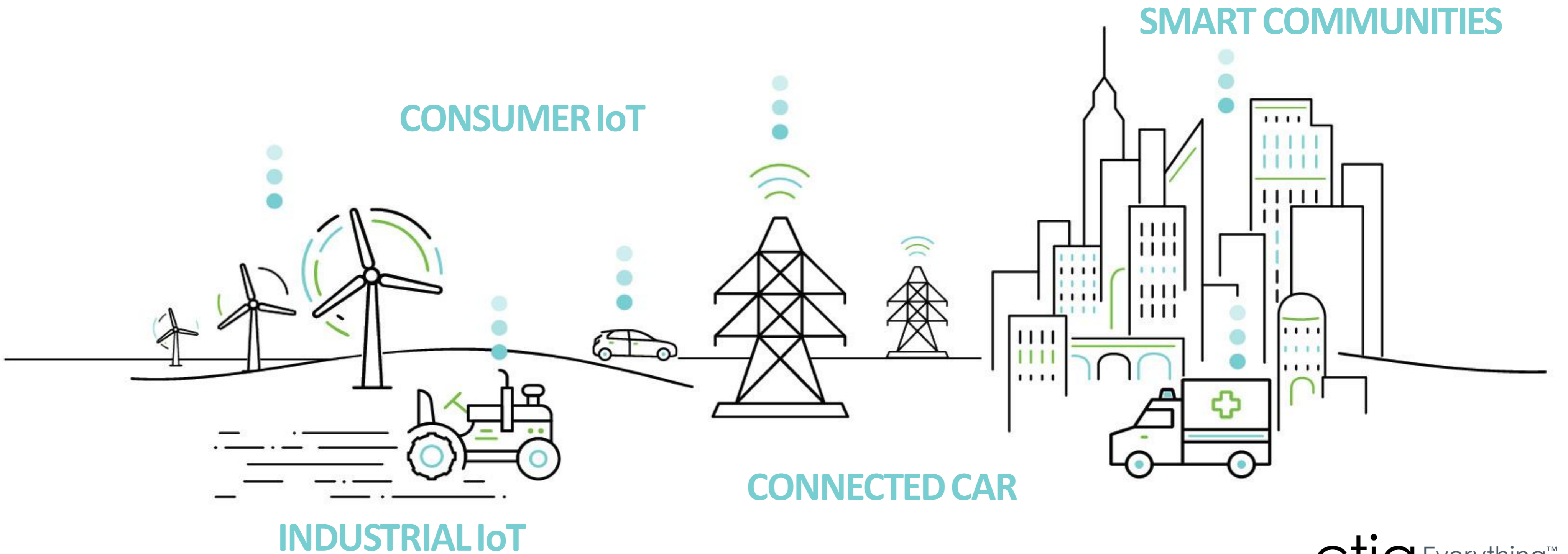
Quincy

380

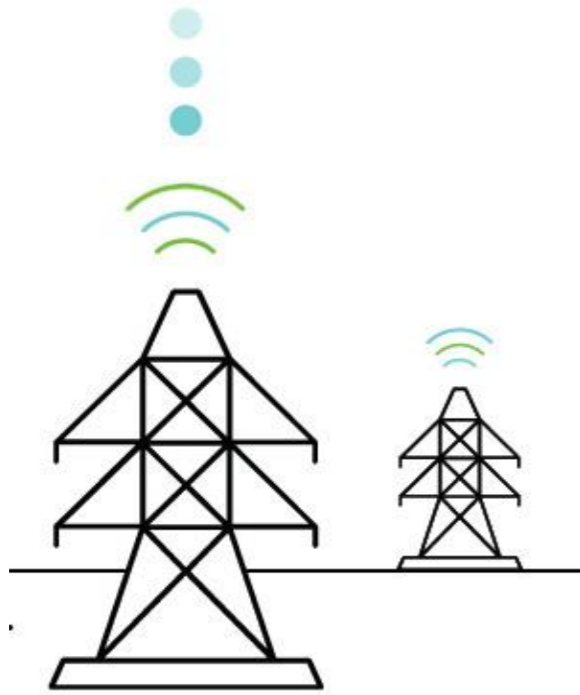
\$62M

\$12M

| 5G Connecting Everything



Smart Communities and Connected Car



SMART GRIDS

Wireless-enabled energy distribution can help save \$1.3T



AUTONOMOUS CARS

Wireless-powered self-driving cars could save over **20,000 lives**, and nearly \$450B, each year.

Small Cells

WHAT'S NEXT

- **NEW OPPORTUNITIES.** Network can now be extended on common structures like street lights and utility poles
- **~300K.** Number of pizza-box sized small cells needed in next 3-4 years





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