



The Future is Now: 5G & Small Cell Deployment

U.S. Virgin Islands

Thirty Fourth Legislature of the Virgin Islands

Committee on Housing, Transportation, Telecommunications

Wednesday, March 24, 2021

Beth Cooley, CTIA

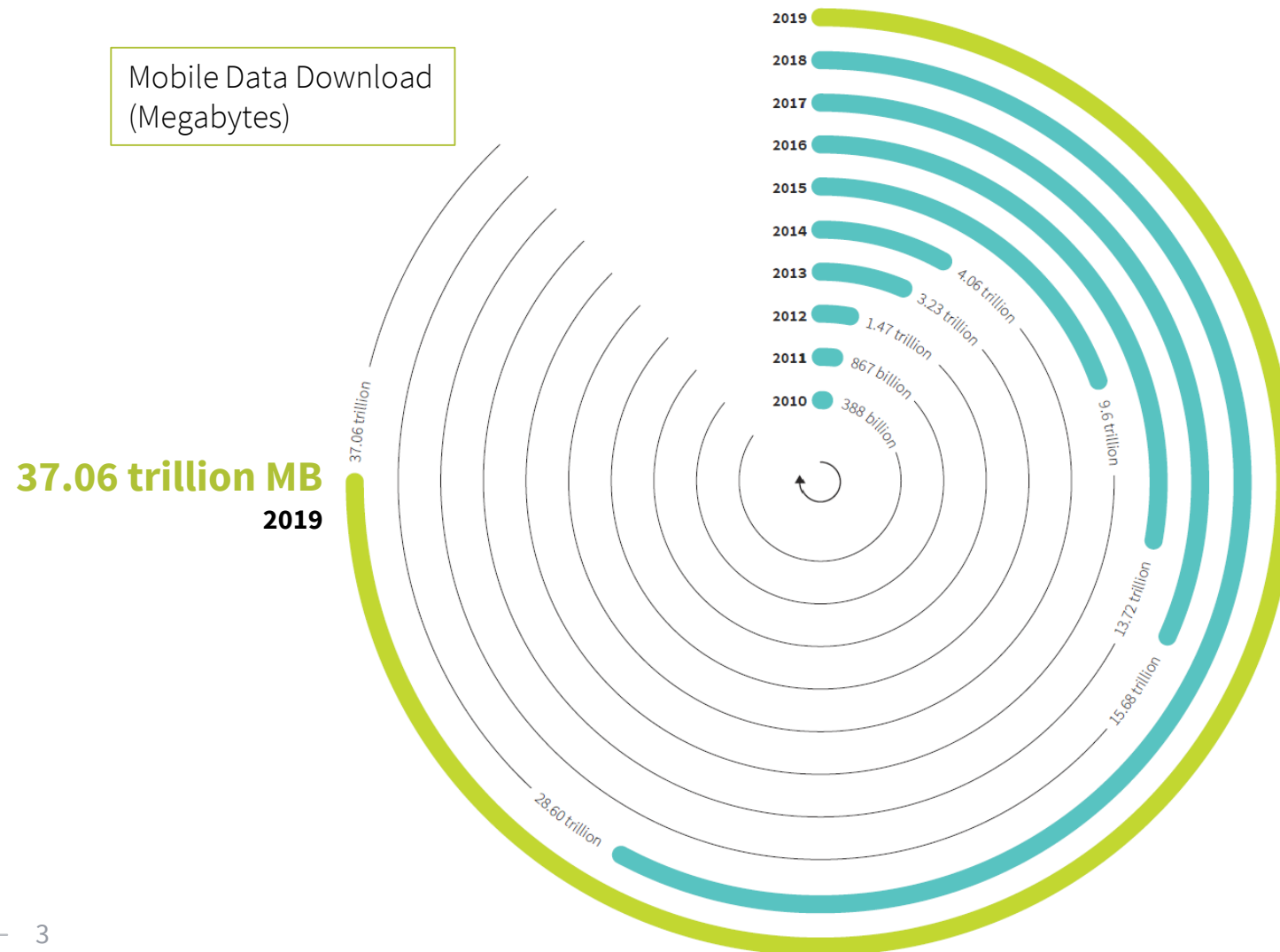
CTIA Represents the Wireless Industry

Members include wireless carriers, device manufacturers, suppliers and app companies



Demand for Mobile Data Continues to Grow

96x more mobile data was used in 2019 than in 2010



To put this in perspective, 37.1 trillion MB of data is equivalent to the entire population of Chicago watching 'The Last Dance' 1,660 times each.

5G is the Answer to Consumers' Growing Data Usage

4G made networks faster and our lives easier; 5G will be a massive leap

5x

MORE RESPONSIVE

UP TO

100x

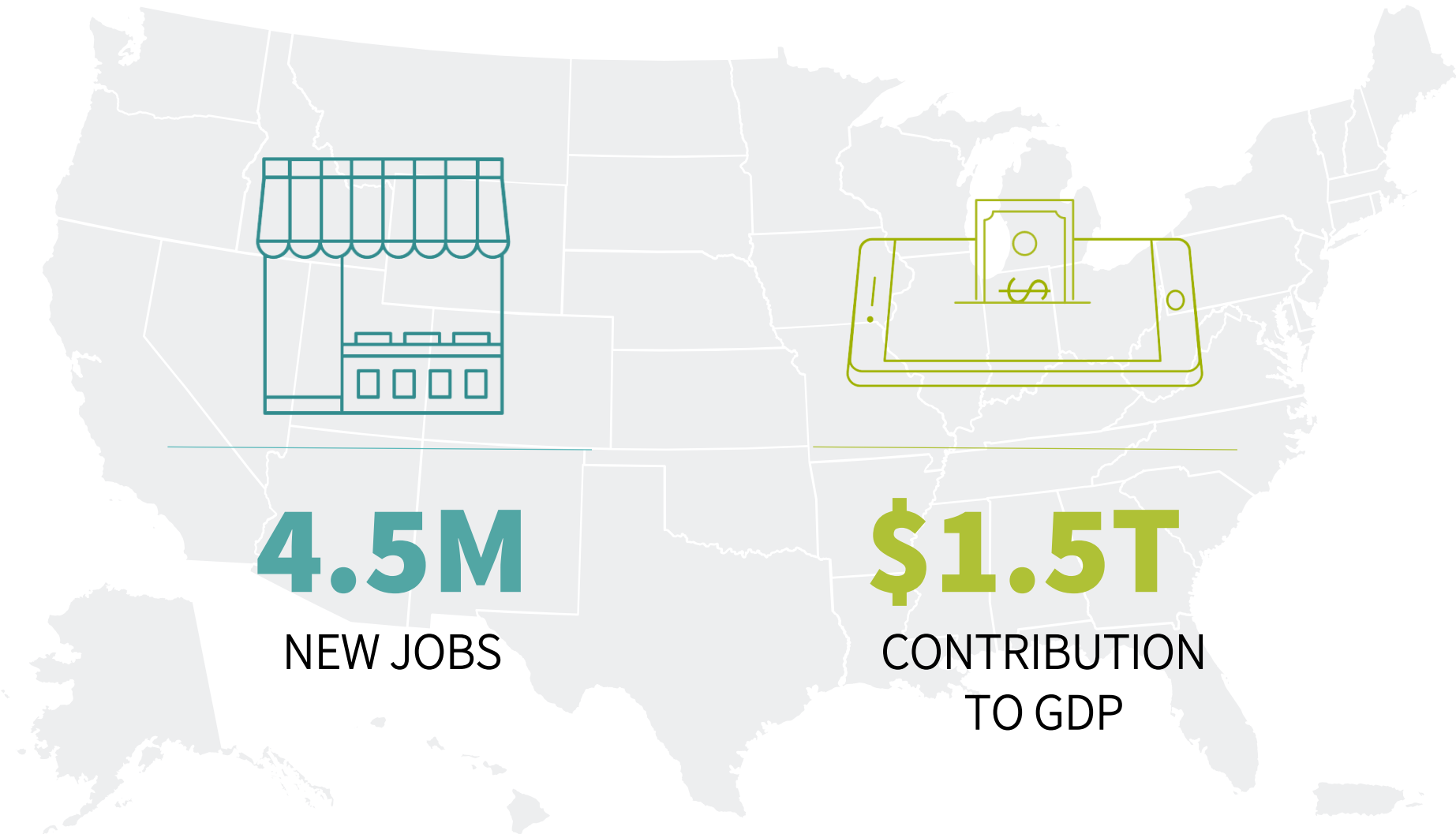
FASTER

100x

MORE DEVICES
CONNECTED

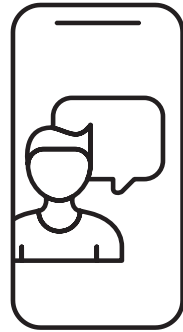
5G Economic Benefits

Improving communities across America, from small towns to big cities

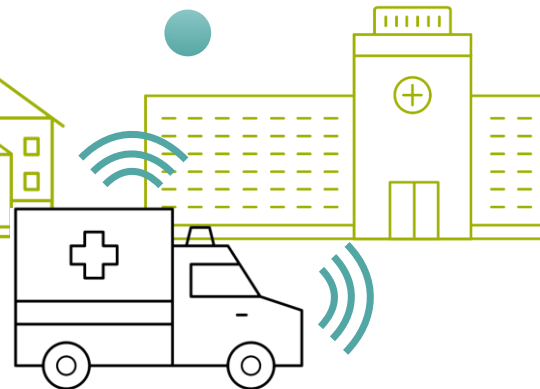
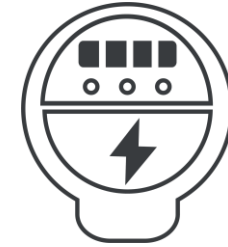
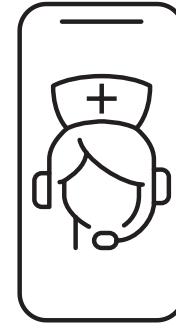


5G Connecting Everything

SMART COMMUNITIES



CONSUMER IoT



AUTONOMOUS VEHICLES

INDUSTRIAL IoT

The Infrastructure of 5G

Enhanced coverage, growing demand for wireless, and new 5G networks require all types of wireless infrastructure.



Cell Tower

Common along highways



Rooftop Cell Site

Common in urban areas



Monopole Cell Site

Common in suburban areas



Small Cells

Typically placed on existing structures

Small Cell Benefits

Increased capacity and reduced congestion



Today, small cells are being deployed that enhance existing cell towers by densifying wireless networks. This deployment provides the additional capacity and reduces congestion to accommodate the growing demand for mobile data.

Small Cells



Small Cells



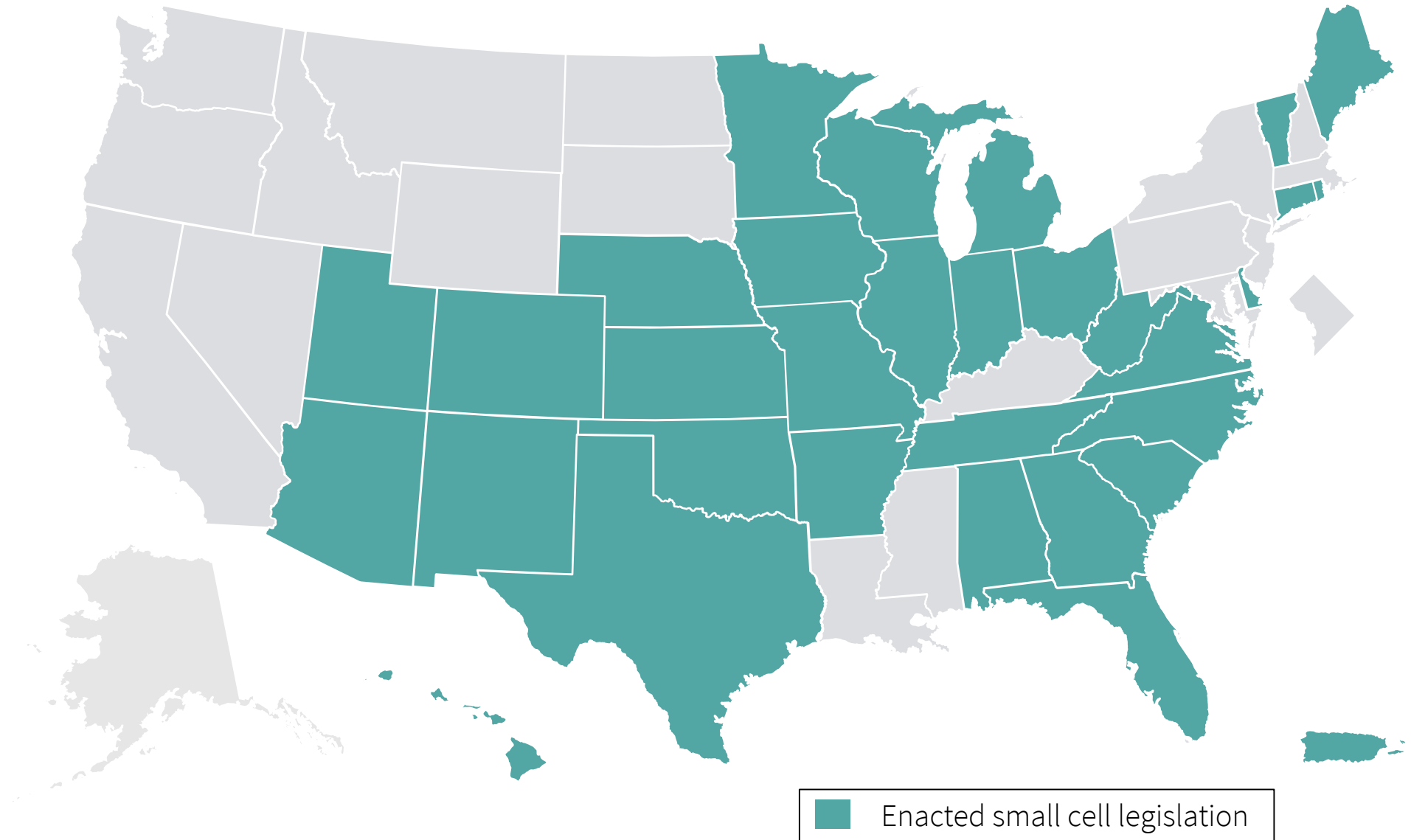
New Networks, New Rules

- **Reasonable Access.** Improved access to municipal facilities and rights of way
- **Reduced Costs.** Reasonable cost-based fees for new 5G deployments
- **Modernized Procedures.** Improved timelines and more uniform standards

“5G will unlock economic benefits across the U.S., broadly reaching into big cities and smaller communities. In order to bring robust economic and job benefits to fruition, government at the federal, state, and local levels must work to keep 5G’s rollout moving ahead.”

— Boston Consulting Group
February 2021

State Small Cell Legislative Activity





Beth Cooley
AVP, State Legislative Affairs