



To: New York State Legislature
From: Bethanne Cooley, CTIA
Date: February 5, 2018
RE: Support for Part F of the Transportation and Economic Development Article VII Bill, of the 2018-19 Executive Budget proposal (TED Part F), Section 3, "Small Wireless Facilities Deployment"

On behalf of CTIA, the trade association for the wireless communications industry, I am writing to support Part F of the Transportation and Economic Development Article VII Bill, of the 2018-19 Executive Budget proposal (TED Part F), Section 3, "Small Wireless Facilities Deployment." This section of the budget creates a critical framework to promote job creation, economic investment and opportunity throughout New York and we strongly support its passage.

The people of New York continue to demand – at increasing levels – access to wireless products and services. This is demonstrated by the fact that there are over 23.2 million wireless subscribers, representing an increase of over 150% since 2006.¹ Additionally, according to the Centers for Disease Control and Prevention, over one third of New Yorkers live in wireless-only households.² These demands from the wireless industry's customers – your constituents – require that wireless networks be both updated to meet the existing demand and readied for the next generation of wireless networks.

Specifically, the existing rules governing wireless networks are designed for wireless facilities that can be as tall as 200 feet. Tomorrow's networks will be augmented by new small cell technology, often the size of a shoebox, which will be placed on structures such as utility poles and streetlights. These capacity additions are critical to keep up with exploding consumer demand on an increasing number of devices and these new networks need new and predictable rules. TED Part F Section 3 establishes an updated common sense framework to meet this immediate need and facilitate billions in new investment in New York.

These small cells will help unlock new 5G services from remote healthcare solutions to autonomous cars. 5G networks will provide the new capacity required – not desired, but required – to accommodate growing consumer demands and help connect 100 times more devices. In a few short years, nearly everything will be connected to ubiquitous wireless networks at speeds up to 100 times faster than today, thanks to the framework established by TED Part F Section 3. New York's communities will be smarter and better connected and entire sectors, from public safety to transportation, will be positively transformed.

Accenture has found that 5G and small cell deployments will provide tremendous economic benefits. Specifically, Accenture estimates that wireless operators will invest as much as \$275

¹ FCC, "Voice Telephone Services, Status as of June 30, 2016," at https://apps.fcc.gov/edocs_public/attachmatch/DOC-344500A1.pdf, last accessed 2/2/2018.

² CDC, National Center for Health Statistics, https://www.cdc.gov/nchs/data/nhis/earlyrelease/wireless_state_201712.pdf, last accessed 2/2/2018.



billion nationwide over seven years creating up to three million jobs and adding approximately \$500 billion to the U.S. GDP through direct and indirect potential benefits.³ More specifically in New York, 5G deployment in New York City may create 80,000 jobs and increase GDP by \$13 billion, and a community like Syracuse may create nearly 1,300 jobs and increase GDP by \$218 million.⁴

Furthermore, a report published by Deloitte illustrates how other industries are leveraging today's wireless platform for innovation and growth, and how increased wireless deployment will spur even more advancements in these key economic sectors⁵:

- **Energy.** Wireless-enabled smart grids could create \$1.8 trillion for the U.S. economy—saving consumers hundreds of dollars per year.
- **Health.** Wireless devices could create \$305 billion in annual health system savings from decreased costs and mortality due to chronic illnesses.
- **Public Safety.** Improvements made by wireless connectivity can save lives and reduce crime. A one-minute improvement in emergency response time translates to a reduction of 8% in mortality.
- **Transportation.** Wireless powered self-driving cars could reduce emissions by 40-90%, travel times by nearly 40% and delays by 20% – and translate to \$447 billion per year in savings, and, more important, 21,700 lives saved.

That's the promise of the next-generation of wireless technology. New York has an opportunity to be a leader in its deployment.

In closing, over the two years, thirteen states representing over 1/3 of the U.S. population have enacted statewide small cell legislation both streamlining the process for small cell deployment and imposing reasonable fees for access to the public rights-of-way. Several more states are considering legislation this session as you are. Appropriate siting and land use regulation will facilitate and encourage capital investment because capital tends to flow to places that are ready for investment. Enactment of TED Part F Section 3 of the budget will send a signal that New York is ready for investment.

CTIA strongly supports passage of TED Part F Section 3.

³ "How 5G Can Help Municipalities Become Vibrant Smart Cities," Accenture Strategy, Jan 12, 2017, https://newsroom.accenture.com/content/1101/files/Accenture_5G-Municipalities-Become-Smart-Cities.pdf, last accessed 2/2/2018.

⁴ *Ibid.*

⁵ Deloitte, "Wireless Connectivity Fuels Industry Growth and Innovation in Energy, Health, Public Safety, and Transportation," http://www.ctia.org/docs/default-source/default-document-library/deloitte_20170119.pdf, last accessed 2/2/2018.



Small Cell Examples





Existing



Proposed







5G Economic Benefits: New York



• New York City

- 80,000 jobs created
- Over \$4.9 billion in Smart City benefits
- \$13 billion in estimated GDP growth

• Albany

- 900 jobs created
- Over \$56 million in Smart City benefits
- \$149 million in estimated GDP growth

• Buffalo

- Over 2,300 jobs created
- Over \$148 million in Smart City benefits
- \$391 million in estimated GDP growth

• Hempstead

- Over 7,100 jobs created
- Over \$444 million in Smart City benefits
- \$1.1 billion in estimated GDP growth

• Syracuse

- Nearly 1,300 jobs created
- Over \$82 million in Smart City benefits
- \$218 million in estimated GDP growth

• Rochester

- Over 1,900 jobs created
- Nearly \$120 million in Smart City benefits
- \$318 million in estimated GDP growth

Improving Communities Across America, from small towns to big cities.

✓ \$275B New Wireless Investment



✓ 3 Million New American Jobs



✓ \$500B Contribution to GDP



✓ \$160B in Smart Community Benefits & Savings
by reducing energy usage, decreasing traffic congestion and reducing fuel costs



Source: <https://newsroom.accenture.com/news/new-research-from-accenture-shows-highlights-economic-and-social-impact-of-investing-in-5g-infrastructure>



State Small Cell Legislative Activity

