

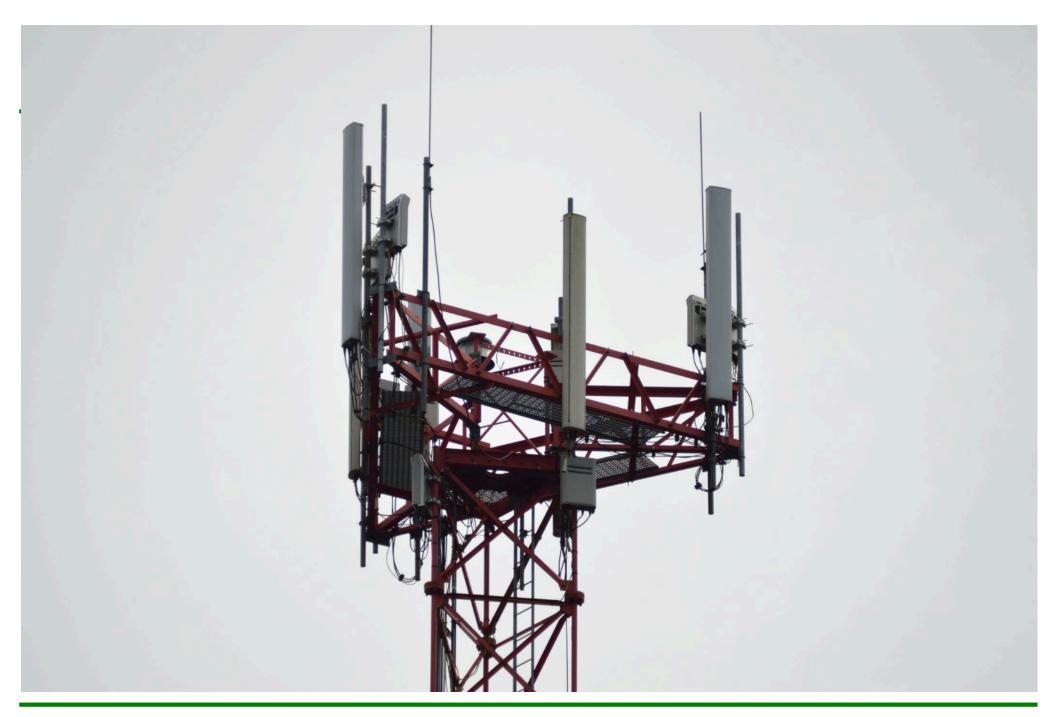
City of Somerville

Small Cellular / 5G An Introduction

Somerville City Council Presentation June 27, 2019

Agenda

- What is 5G / Small Cellular
- OProcess:
 - Master License Agreement
 - Review for Consistency with Standards
 - Grant of Location
- FCC Small Cell Order
- Next Steps





TRADITIONAL CELL:

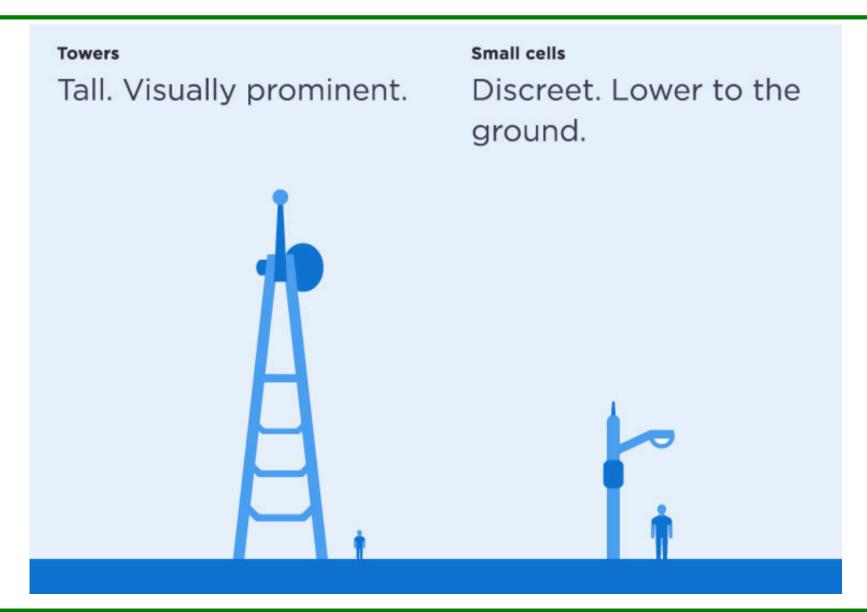
- LARGE TOWERS
- HIGH POWER
- HIGH EMMISION

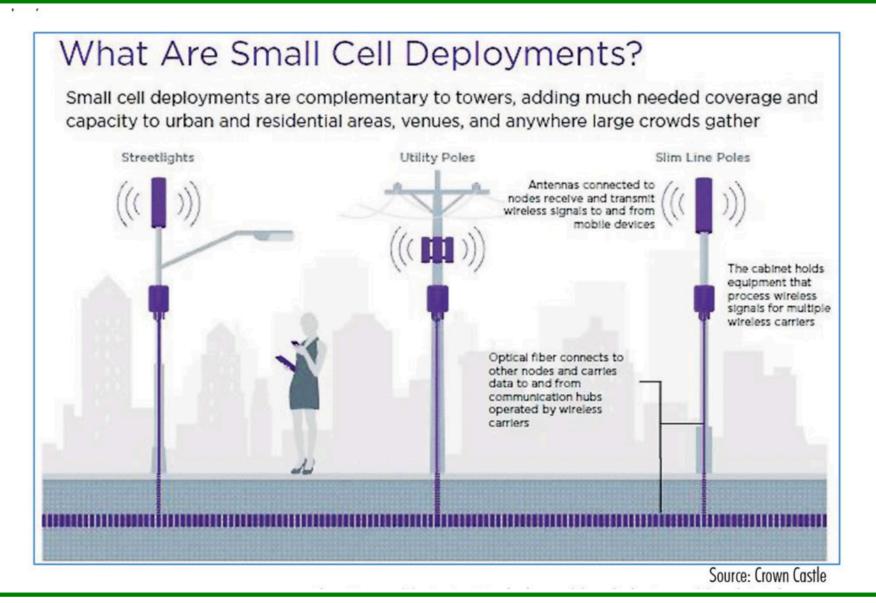
SMALL CELL:

- HIDDEN ON EXSTING INFRASTRUCTURE
- LOW POWER
- LOW EMMISION

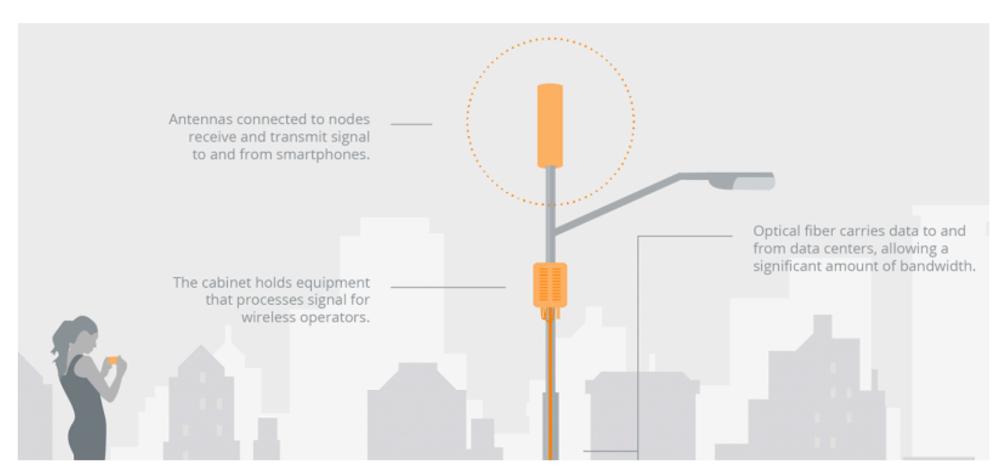




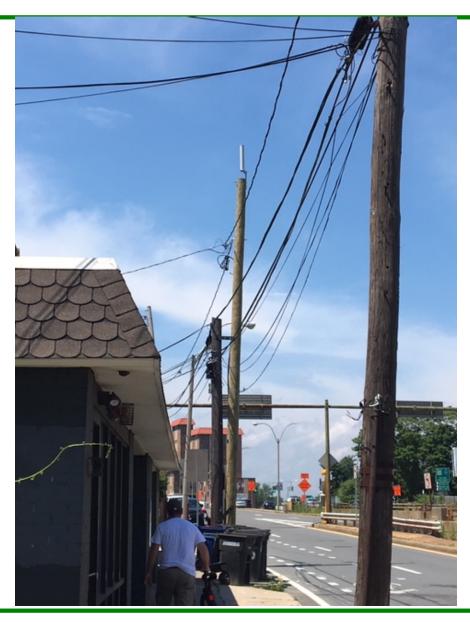


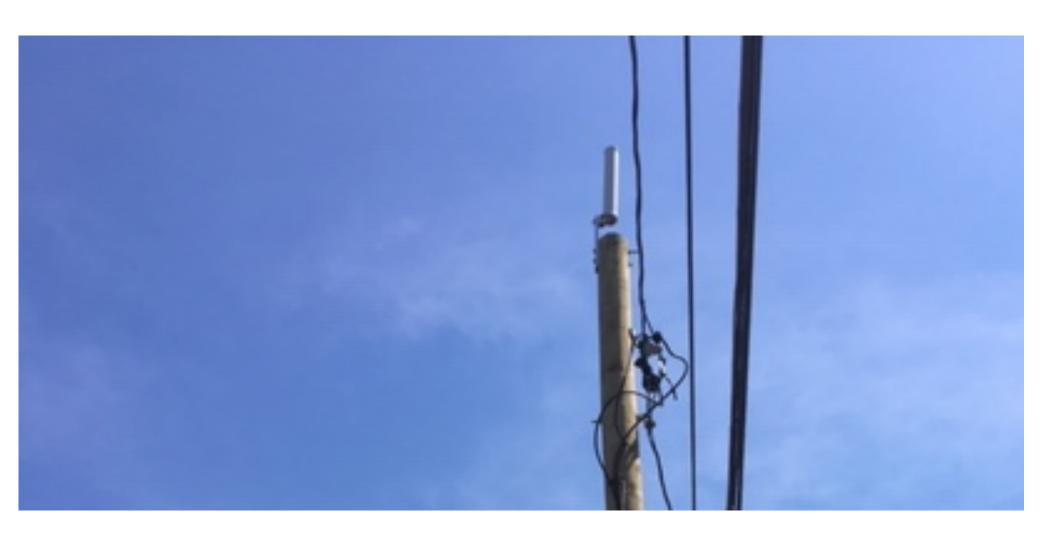






The Texas 5G Alliance created this graphic to illustrate the use of small cells. (Texas 5G Alliance)





Process

- Master License Agreement
- Review for Consistency with Standards
- Grant of Location

License Agreement

- Master License Agreement
 - Content:
 - Basic rules for maintenance, safety, etc.
 - Designated liaison for issues
 - Removal of unused infrastructure
 - Liability
 - Insurance
 - Fees
 - Carriers and the City want these agreements to accept the rules of engagement

License Agreement

- Executed:
 - ExteNet
 - Mobilitie
 - Crown Castle (awaiting signatures)
- Pending
 - AT&T
 - Verizon

Standards

- Standards for Small Cell Wireless Facility Placement
 - Establishes requirements:
 - No facility to extend beyond 5 feet over an existing pole
 - May not obstruct traffic signals, signage, etc.
 - One installation per pole
 - Color should match the color of the pole
 - Signage limited to emergency information
 - No illumination or fencing
 - To address:
 - Concrete poles
 - Decorative poles
- Published by DPW Engineering Department on May 15, 2019
 - Edited version forthcoming

Grant of Location

- Council approval per city regulations
- Each forwarded applicant will have been reviewed for consistency with the license agreement and published standards
- First applications expected to be before the council on July 11, 2019



The FCC's 5G FAST Plan



Under Chairman Pai, the FCC is pursuing a comprehensive strategy to Facilitate America's Superiority in 5G Technology (the 5G FAST Plan). The Chairman's strategy includes three key components: (1) pushing more spectrum into the marketplace; (2) updating infrastructure policy; and (3) modernizing outdated regulations.

"Forward-thinking spectrum policy, modern infrastructure policy, and market-based network regulation form the heart of our strategy for realizing the promise of the 5G future." – FCC Chairman Pai

Speeding Up State and Local Review of Small Cells:

"The FCC reformed rules designed decades ago to accommodate small cells. The reforms ban short-sighted municipal roadblocks that have the effect of prohibiting deployment of 5G and give states and localities a reasonable deadline to approve or disapprove small-cell siting applications."

-FCC

- Approved September 2018
- Key elements:
 - "Shot clock"
 - 60 days from complete application to approval
 - Limits scope of local review
 - Limits on fees (\$270 per year per installation)
 - Published and predictable review standards

- 12 filed appeals are now consolidated in the 9th circuit court of appeals
- The court DID NOT stay the order, therefore it remains in effect



City of Somerville

Thank you