Wireless Communications Initiative

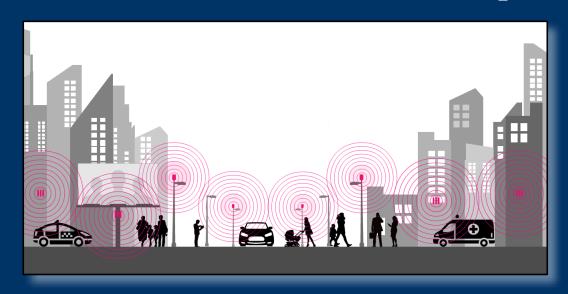


Council Public Hearing
WCI Master Plan and Ordinance
April 18, 2018



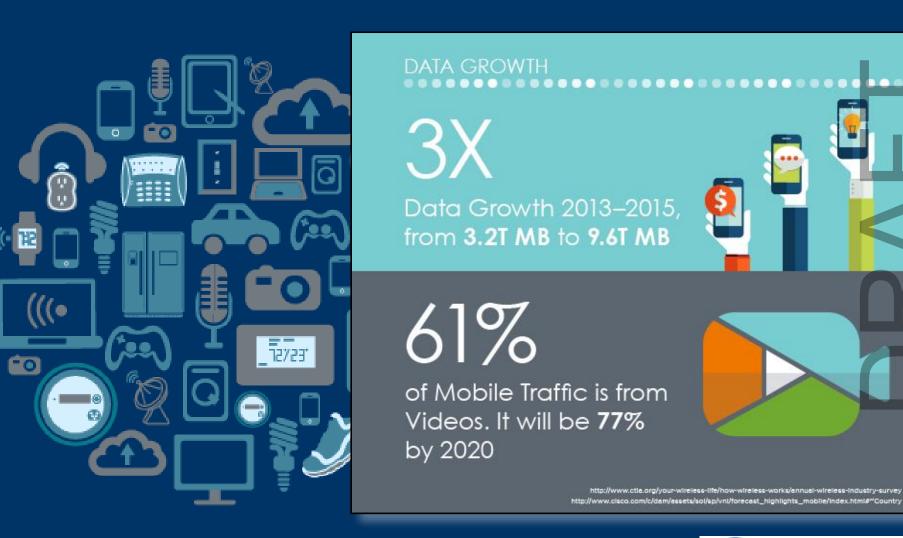
Purpose

- Position the Town to benefit from coming improvements to wireless communications and minimize impacts
 - Develop a Wireless Master Plan, and
 - Amend LUMO with corresponding regulations



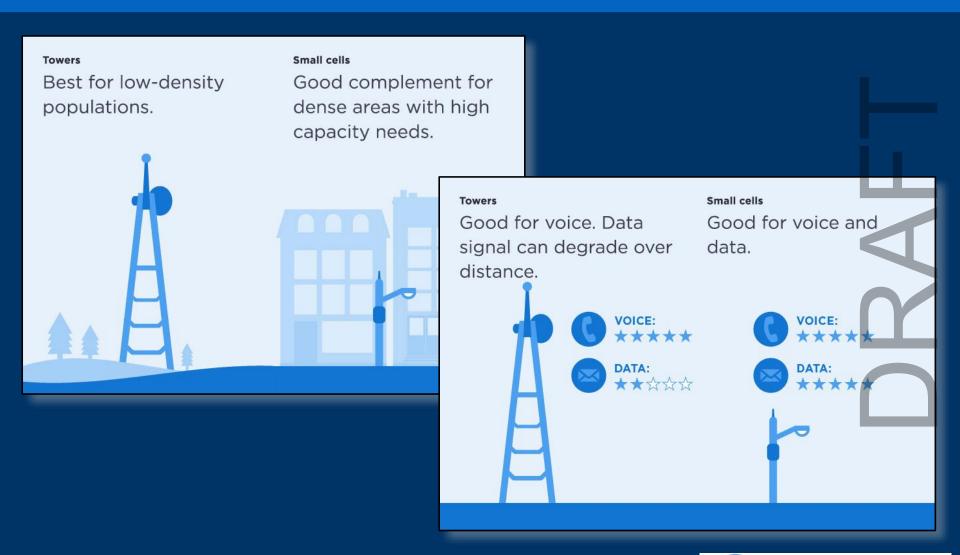


Expanding Network Demands





Meeting The Demands



Process

Preliminary
Scoping & Field
Assessments

Council Work
Session

Public Information Mtg / Poll

Assessment of Poll Results / Gap Analysis

Planning
Commission
— Status
Report

Joint Worksession

Advisory
Board
Meetings

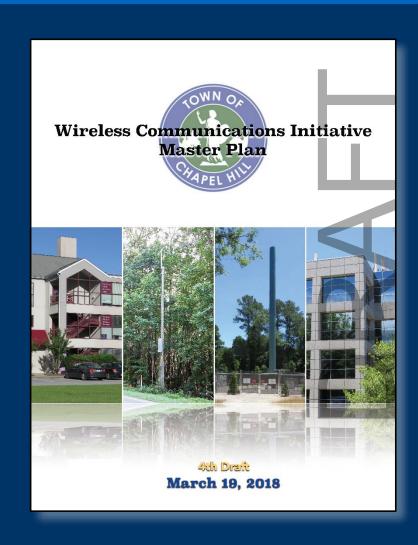
Council Meetings



Wireless Communications Initiative

Wireless Master Plan

- Identifies existing wireless infrastructure
- Identifies theoretical network
 Gaps and
- Estimates general location and frequency of needed future infrastructure





Wireless Communications Initiative

Wireless Ordinance

- Regulatory framework for future infrastructure
- Guided by the 2020
 Comprehensive Plan, federal
 & state regulations, and public participation

ORDINANCE A

(Enacting the Land Use Management Ordinance Text Amendment proposal)

AN ORDINANCE AMENDING THE CHAPEL HILL LAND USE MANAGEMENT ORDINANCE, TO CHANGE PROVISIONS PERTAINING TO WIRELESS COMMUNICATIONS FACILITIES (2018 - - /0-)

WHEREAS, the Council of the Town of Chapel Hill has considered the proposed text amendments to the Land Use Management Ordinance to change provisions pertaining to wireless communications facilities and finds that the amendments are necessary to comply with enabling legislation and are consistent with the goals of the Chapel Hill 2020 Comprehensive Plan.

NOW, THEREFORE BE IT ORDAINED by the Council of the Town of Chapel Hill as follows:

Section 1. That Article 3, Section 3.7, Use Groups table 3.7-1, the *Use Matrix*, and Appendix A - is hereby revised as follows.

Radio, television or wireless transmitting and/or receiving antenna

Collocation on existing tower or base station

New concealed base station

New non-concealed rooftop base station

New concealed dual-purpose tower

New non-concealed base station

New non-concealed tower

Section 2. That Article 3, Section 3.8.3(b)(3) - Exceptions to Setback and Height Regulations as follows.

(3) Spires, smokestacks, water tanks, windmills, radio and television transmitting towers, or relay towers, provided such structures do not exceed in height the horizontal distance therefrom to the nearest lot line.

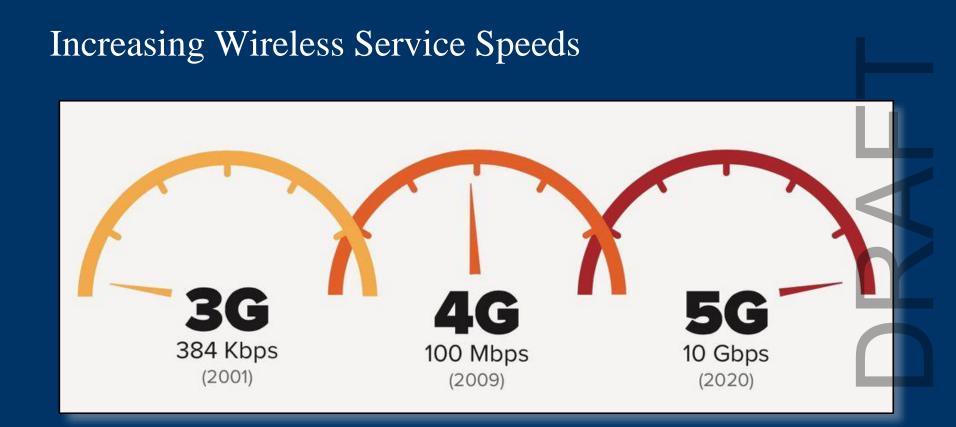
Section 3. That Article 3, Section 3.8.3(b)(4) - Exceptions to Setback and Height Regulations as follows.

(4) Utility transmission poles, towers, and cables.

Section 4. That Article 6, Section 6.11- Radio, television or wireless transmitting and/or receiving facility as follows.



Is a Master Plan & Ordinance Needed?





Poll Results & Public Meetings

- 87% Quality of wireless service is important
- 71% Rely on mobile device to great extent
- 36% Poor coverage where they live

• 44% Not willing to tolerate worse service to minimize

visual impacts







Wireless Communication Facility Types



Concealed
Dual-Purpose
Tower



Concealed Base Station



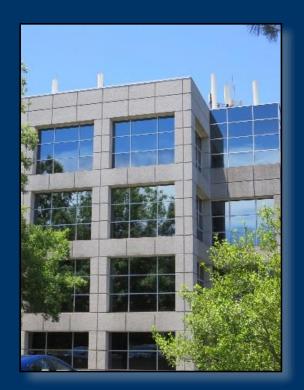
Concealed Small Cell



Wireless Communication Facility Types



Non-Concealed Mono-Pole Tower



Non-Concealed Base Station



Non-Concealed Small Cell



Future Wireless Infrastructure

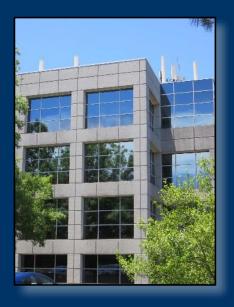
- 1. Collocation on Existing Tower or Base Station
- 2. New Concealed Base Station
- 3. New Non-Concealed Rooftop Base-Station
- 4. New Concealed Dual-Purpose Tower
- 5. New Non-Concealed Base Station
- 6. New Non-Concealed Tower

















Collocate on Existing
 Tower or Base Station















2. New Concealed Base Station















3. New Non-Concealed Roof-top Base Station















4. New Concealed Dual-Purpose Tower















5. New Non-Concealed Base Station















6. New Non-Concealed Tower



Location Preferences

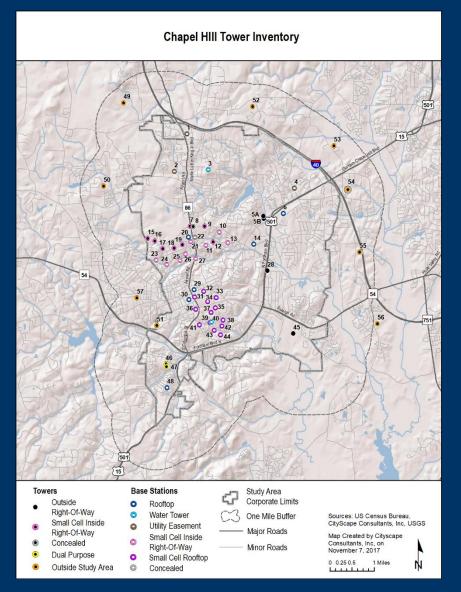
Future Wireless Infrastructure

- A. Town-owned land
- B. Other publicly owned land
- C. Private property
- D. In rights-of-way
 - 1. Non-residential districts
 - 2. Multi-family districts (where permitted)
 - 3. Single-family residential districts (where permitted)





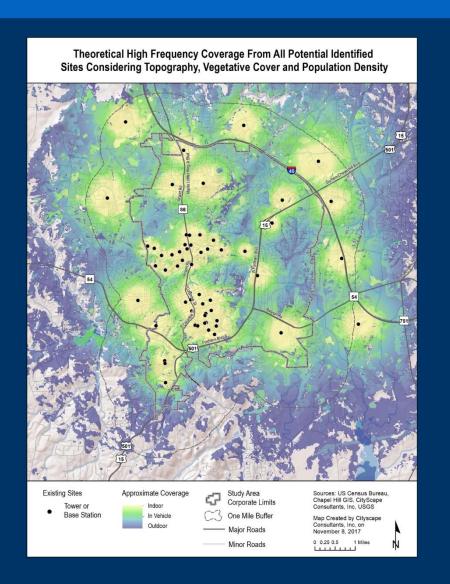
Wireless Communications Inventory

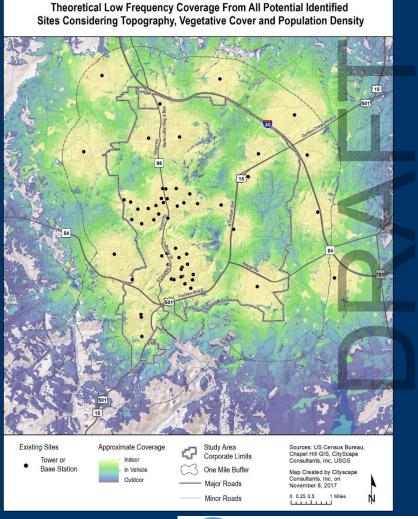


- 58 Total Facilities
 - 49 within Town limits
 - 9 outside Town limits
- More base stations than towers
- Blend of macro and small cell sites



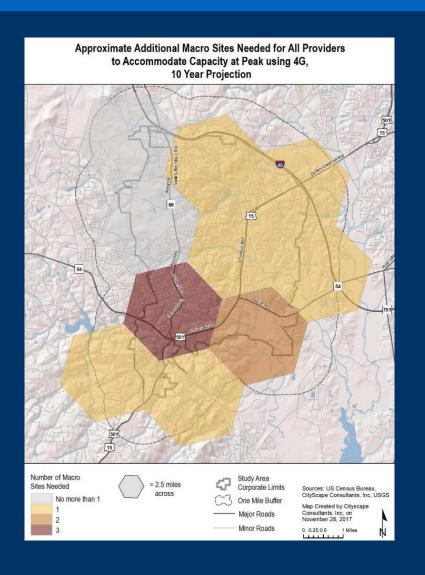
Gap Analysis

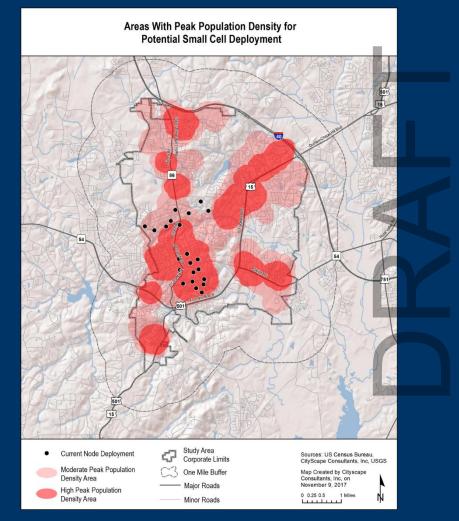






Predicted Infrastructure







Key Advisory Board Changes

- ✓ Simplify Permitted Use List
- ✓ Add Landscape Buffer Requirement
- ✓ Conceal Auxiliary Equipment
- ✓ That Town Inventory Existing Utility Poles





Key Outcomes

- Better Wireless Service for Community
- More Predictable Permitting for WCF Types
 - Special Use Permits for larger-scale towers
 - Administrative approvals for smaller-scale facilities
 - Rules for Types and Locations of WCFs for Visual Impacts
- Congruence with Federal and State Laws





Decision Points

Continuation of Public Hearing: May 23, 2018

Wireless Communications Initiative

- Adoption of Master Plan Resolution
- Adoption of Resolution of Consistency with the 2020 Comprehensive Plan
- Enactment of Land Use Management Ordinance Text Amendment



Comments and Questions





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D R A F I

