

Small Cell Overview

County Council Briefing

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Traditional Cell Basics

- Traditional cell equipment is typically attached to tall towers or directly mounted on building roofs
- Signal typically travels over a distance of miles, which means that towers can be placed some distance apart
- Coverage can vary depending on distance from tower and can be affected by the number of devices that are attempting to connect



Small Cell Basics

May be
installed
on:

- existing structures (e.g. utility poles, streetlights, buildings)
- dedicated (new) poles

May be
used to:

- expand coverage area
- increase capacity to reduce congestion
- prepare for future technologies (e.g. 5G)



Traditional Cell

Generally installed on dedicated poles, towers, or rooftops

Generally installed at taller locations to allow for maximum coverage

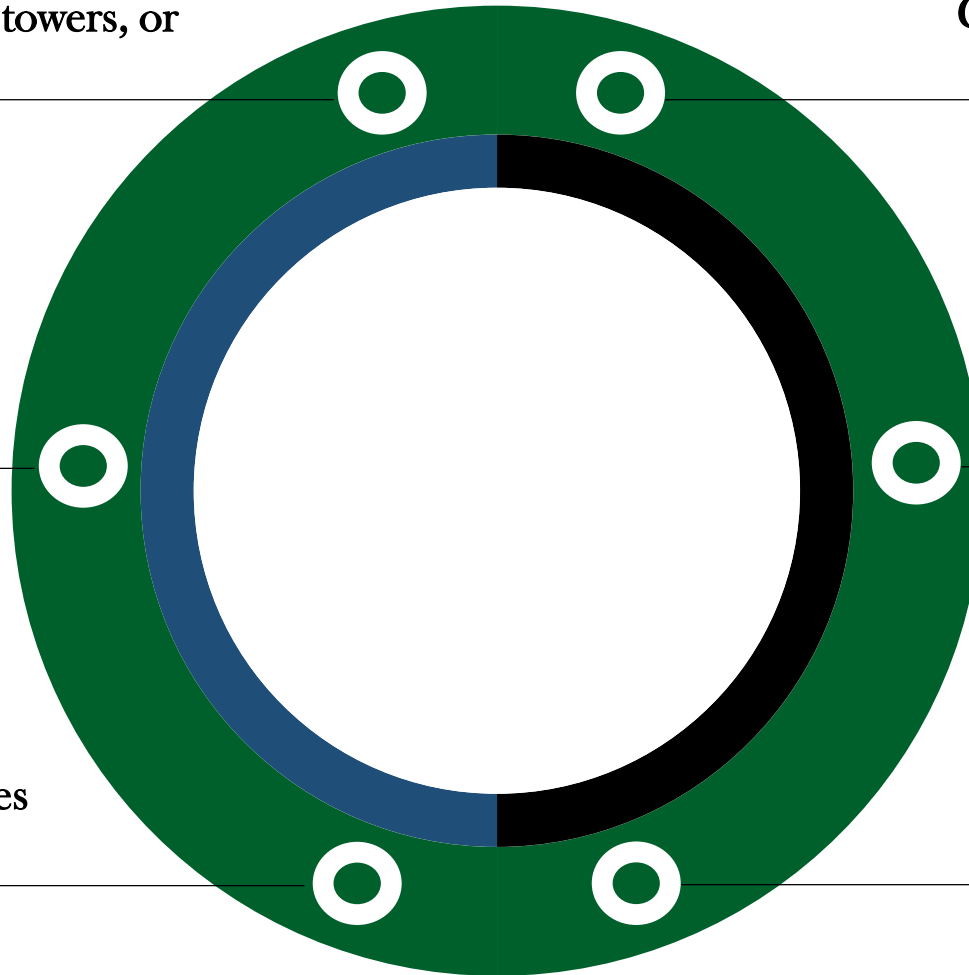
Signal travels a longer distance, which means that sites can be located miles apart

Small Cell

Generally installed on existing utility poles, streetlights, and buildings

Can be installed in a wider variety of locations

Signal travels a shorter distance, which requires that cells be placed more closely together



Possible Locations

Public Right of Way

Government Property

Private Property



Federal Law

Local governments may not prohibit telecommunications services, but do have limited authority to control placement and appearance of personal wireless facilities subject to:

- deadlines (“shot clocks”) for processing applications
- limits (“safe harbors”) on fees and rents
- limits on regulations based on RF emissions
- tests for regulating aesthetics, undergrounding and spacing



The Statewide Picture

Proposed legislation introduced during past two sessions.

Counties and municipalities have sought to preserve local regulatory authority.

Existing local laws in neighboring jurisdictions consist of a variety of limited measures.



Existing County Law

- Is oriented toward construction of new and traditional cell towers on private property.
- Installation on private property is subject to zoning ordinance.
- Requires building permit subject to recommendation of the Telecommunications Transmission Facility Coordinating Committee (TTFCC).



The County's Next Steps

	County Right of Way	Private Property
Seek public input	✓	✓
Develop design standards (color, height, size, noise)	✓	✓
Determine fee amounts	✓	✓
Process and review applications	✓	✓
Determine conditions to govern access	✓	
Coordinate with public utilities	✓	
Amend zoning ordinance to better address small cells		✓



In Closing...

To attract and retain the most Experienced workforce who will use *Innovative technology* to provide efficient, effective services to our citizens.

We will *Collaborate with our stakeholders* to develop Solutions that are data-based and rely on best-practices to address complex challenges within the county and the region.

We will have a world-class education system, *safe communities* and a *robust economy* that creates jobs and *opportunities for all* and increases the commercial tax base to ensure we can provide the services our residents deserve.

