Introductions
CityScape Consultants, Inc.

- Exclusively Serving Government Clientele Nationwide since 1997
- Project Team of Engineering, Legal and Planning Professionals
- Experts in Federal Statutory, Decisional and Regulatory Law
- Assists Local Governments with the Complexities of Wireless Communications
Northern Westchester County Wireless Tasks and Deliverables

- Preliminary Research
- Project Initiation Meeting
- Infrastructure Assessments
- Inventory Catalog
- Engineering Mapping Analysis
- Regulatory Review and Regulations
- Potential Use of Public Property
- Draft and Final Master Plan

Potential use of public lands

Draft and Final Master Plan
Task 1: Preliminary Research and Project Initiation Meetings

Community Data Collection of Known Antenna Locations

• Data From Clients
• FCC Registered Site Location
• Tower Owner Data
• Other Web Based Resources

Initiation Meeting For Each Town and Village
Task 2: Infrastructure Assessments

Site Visits to all Commercial Wireless Facilities

• Find Unknown Sites
• Verify Site Locations
• Collect All Data
• Record Observations
Task 3: Inventory Catalog

Data from Site Assessments

• Photo of Site
• Vicinity Map
• Data Collected
  o Facility Information
  o Locational Data
  o Site Identification
  o Tower/Base Station Distinction
  o Tenants
  o Site Conditions
Task 4: Engineering Mapping Analysis

Inventory Mapping

- Four (4) Types of Inventory Maps
- Theoretical Propagation Coverage
  - Terrain
  - Clutter
- Census Data
- Traffic Counts (If Available)
- Gap Analysis
Wireless Infrastructure Study Mapping Examples
Task 5: Regulatory Review And Recommendations

- Strengths and Weaknesses
- Compliance with Federal Regulations
- Strategies to Control and Prioritize the Location of New Facilities
- Options to Address Visual Impact of New Facilities
- Possible Use Of Public Owned Properties To Fill In Network Gaps
- Application Review Process
Tasks 6 and 7: Draft And Final Wireless Master Plan

• Submission of Draft Document
• Public Meetings and Commentary
• Final Documents
• Project Completion by Community
• Project Completion by Northern Westchester County Region
• Communities to Act Individually on Maps and Policy Recommendations
Introduction to Wireless Telecommunications

Infrastructure initially built for cellular phones now upgraded and constructed for cellular phones, tablets and smart devices
Wireless Telecommunications History

- **1G** service provided voice calls only.
- **2G & 3G** service included voice, texting and data.
- **3G service** offered in early 2000’s improved data speeds.
- **iPhone in 2007** offers thousands of applications.
- **4G service on AWS and LTE** began around 2010 and increased data speeds; included new 700 and 2100 MHz frequencies.

Even smaller handsets, increased battery power, offering more features including Internet access.
Non-Concealed Macro Towers
Concealed Macro Towers
Non-Concealed Macro Base Stations
Concealed and Semi-Concealed Macro Base Stations
Small Wireless Facilities
Wireless Network Planning

Macro and Small Wireless Facilities
Overall Project Area Map
Draft Inventory
PWSF Antenna Type

Cataloged PWSF Antenna Type
- Macrocell Facility (25)
- Small Wireless Facility (0)

Sources: US Census Bureau, CitiScope Consultants, Inc. USGS
Map Created by CitiScope Consultants, Inc. on
Date: 6/4/2022
Draft Inventory
All Antenna Type
Draft
Inventory
Design
Type
Sites in New Castle

Site C1

Site C2

Sites C3 and C4
Sites in New Castle

Site C5  Site C6  Site C7
Sites in New Castle

Site C9

Site C10
Preservation of state and local zoning authority regarding placement, construction and modification of personal wireless service facilities, however the regulations shall **NOT:**

- Unreasonably discriminate among providers of functionally equivalent services
- Prohibit or have the effect of prohibiting the provision of personal wireless services
- Shall act on requests within a reasonable time period
- Provide denials in writing and supported in substantial evidence contained in a written record
- Cannot regulate environmental effects of radio frequency (RF) emission beyond the Commission’s regulations concerning such emissions
  - Can require a statement that facility complies with the Commission’s regulations concerning such RF emissions
Middle Class Tax Relief and Job Creation Act of 2012, Section 6409A

- Not withstanding Section 704 of the Telecommunications Act of 1996 or any other provision of law, a State or local government may not deny, and shall approve any eligible facilities request for a modification of an existing wireless tower or base station that does not substantially change the physical dimensions of such tower or base station.

- Eligible facility request means any request for modification on an existing wireless tower or base station that involves:
  - Collocation, removal or replacement of new transmission equipment.
Collocations Permitted by Right
Provided Application Does Not Exceed Definition of Substantial Change

Collocation means:
- Mounting or installing equipment on an eligible support structure

Eligible facility request means:
- Any request for modification of an existing tower or base station that does not substantially change the physical dimension of such tower or base station

Eligible support structure means:
- Any tower or base station provided that it is existing at the time the relevant application is filed
FCC’s Report and Order #3
Accelerating Wireless Broadband Deployment by Removing Barriers to Infrastructure Investment

Application review timelines:

<table>
<thead>
<tr>
<th>Type of Deployment</th>
<th>Timeline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Collocating an eligible small wireless facility using an existing structure</td>
<td>60 days</td>
</tr>
<tr>
<td>Macro to collocate wireless facilities using an existing structure</td>
<td>90 days</td>
</tr>
<tr>
<td>Deploying a small wireless facility using a new structure</td>
<td>90 days</td>
</tr>
<tr>
<td>Deploying a non-small wireless facility using a new structure</td>
<td>150 days</td>
</tr>
</tbody>
</table>

Unless a written agreement between Applicant and siting authority is reached:

- 10 days to review initial small wireless facility application for completeness; if incomplete, must specify missing documents or information needed for completion; clock re-starts with revised materials.
- 30 days to review initial macro facility application; clock tolls if complete.
Next Steps