

LinkNYC

CityBridge

August 9, 2023

CONFIDENTIAL

What's the Purpose of LinkNYC?

To provide free and equitable access to connectivity, information, and telecommunications services.

How Does LinkNYC Provide Free and Equitable Access?

- High-speed, free public Wi-Fi throughout NYC
- Free nationwide digital calling
 - 911 / 311 access
 - Access to all social services hotlines
 - Video-relay service for deaf and hard of hearing community
- Access to government and social services websites
- Advertising space for the City, community information, and local businesses
- USB port for free charging of mobile devices



People Depend on LinkNYC

- Since inception, LinkNYC has provided:
 - **13 million+** users of LinkNYC's Wi-Fi network
 - **3 billion+** Wi-Fi sessions
 - **~34,000 Terabytes** of data transferred
 - **28+ million free phone calls** (most dialed number is the EBT hotline)
 - The FindHelp social services directory for jobs, housing, food, and other programs is accessed on average + **10,000 times per month**.
 - Free advertising for +**1,300 small and local businesses**
- LinkNYC is the largest free public Wi-Fi network in the U.S.
- These usage statistics are with a Link footprint primarily in Manhattan. The need is greatest and demand highest in the areas targeted by this next phase of deployment.



LinkNYC's New Link5G - Launched in 2022

Commitment to Equity	90% of new installations, which have free digital calling, free high-speed Wi-Fi AND are 5G enabled, will be built in the outer boroughs and above 96th Street in Manhattan.
Enhanced Services	Link5G design enhances cellular connections and provide businesses and pedestrians with improved high-speed Wi-Fi coverage.

Introducing Link5G



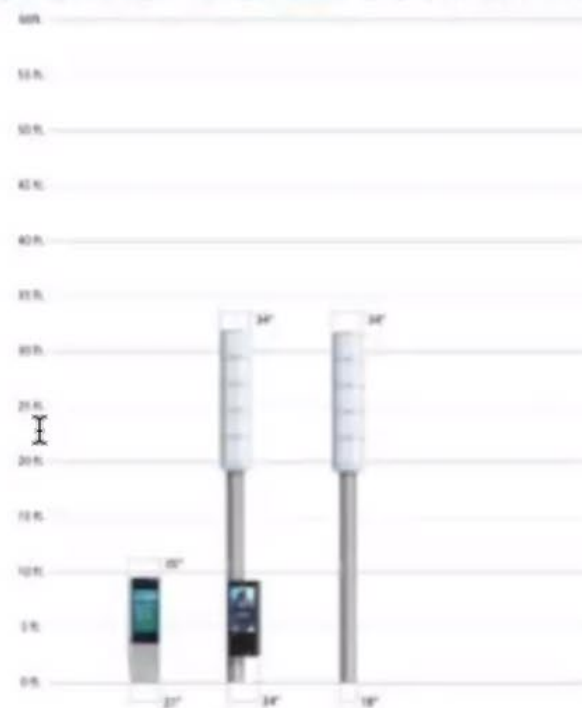
Link5G

Consistent look
and feel with
existing kiosk



Link5G versus Other Multi-Tenant 5G Street Furniture

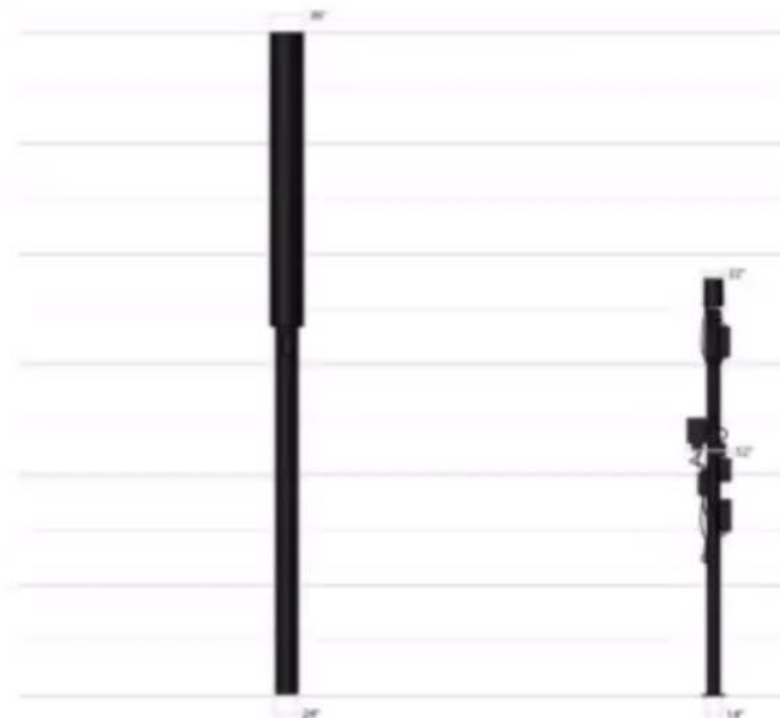
Link5G vs. Other 5G Street Furniture



Location	Link NYC / Link 5G New York City
Maximum No. of Carriers W/ 5G	4 Carriers
Other Tech Features	Free Wi-Fi, National Calling, etc.

* Technology estimates are based upon publicly available data

** Exposed cables means that each carrier site has different visual presentation



New Jersey***

3 Carriers

Nothing

Las Vegas

1 Carrier

Nothing

* structure is 60 - 80 ft tall

New Yorkers Support Link5G

78% of all New Yorkers are supportive of Link5G “coming to [their] neighborhood”.

- **80%** of residents with household incomes below \$50k
- **90%** of NYCHA residents
- **78%** of Brooklyn residents
- **84%** of Bronx residents
- **84%** of Manhattan residents
- **72%** of Queens residents
- **66%** of Staten Island residents

Source: SKDK Independent survey of 1,617 New Yorkers



New Yorkers Need Better Service Everywhere

Mobile phone use is ubiquitous: 98% of New Yorkers have a mobile phone. 92% have a mobile data plan.

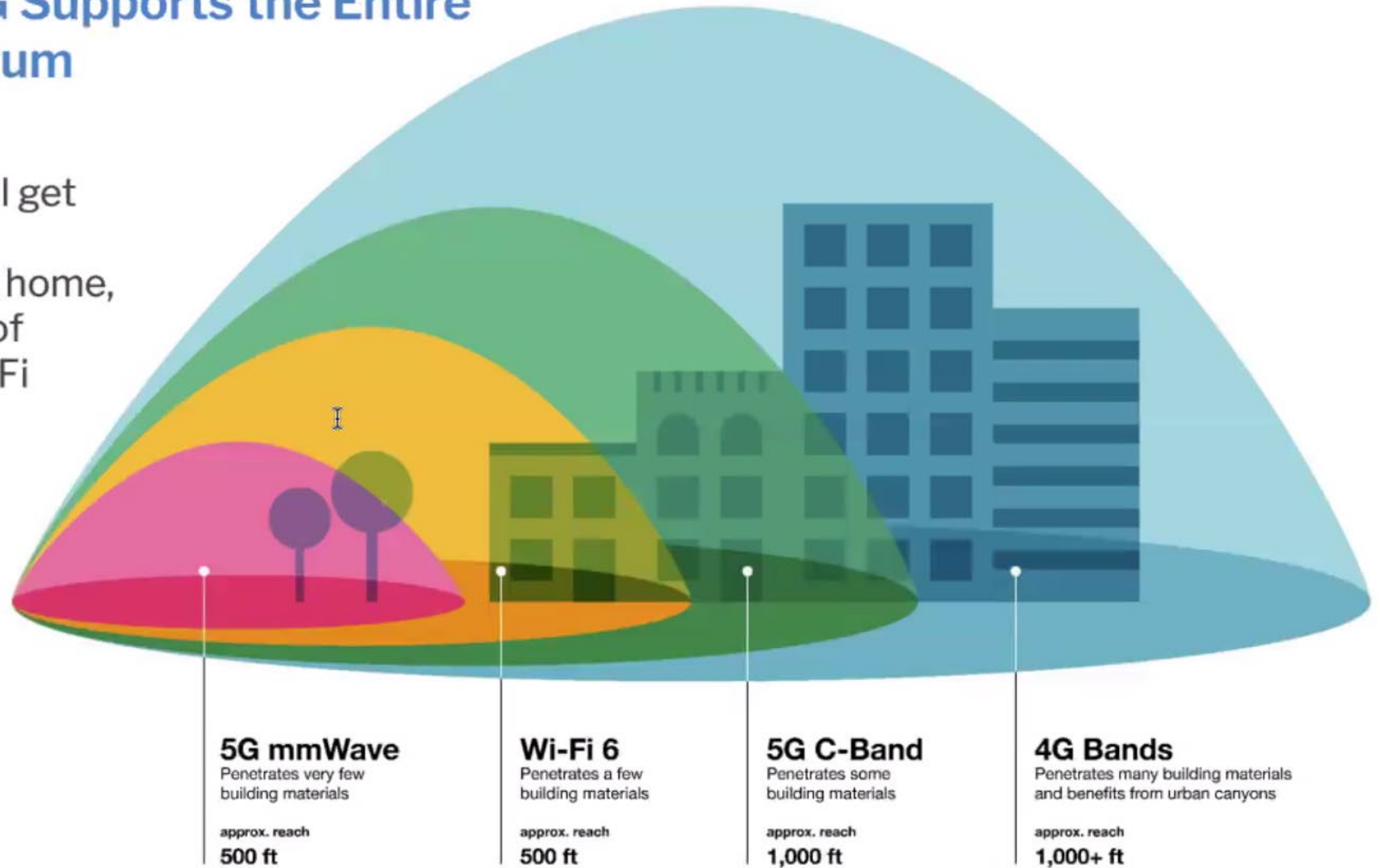
But, half of New Yorkers experience poor signal quality on a regular basis.

~1/3 of mobile phone users have limited data plans, predominantly in marginalized populations.

	All NY
Use cellular data at home	45%
Use Free Public Wi-Fi	49%
Have had dropped calls “a few times per month” or more	46%
Have run out of data at least one time	49%

Design: Link5G Supports the Entire Cellular Spectrum

Link5G means you'll get reliable high-speed cellular coverage at home, super-fast outside of your home, and Wi-Fi in and outside of home.



Evolution of Cellular Infrastructure



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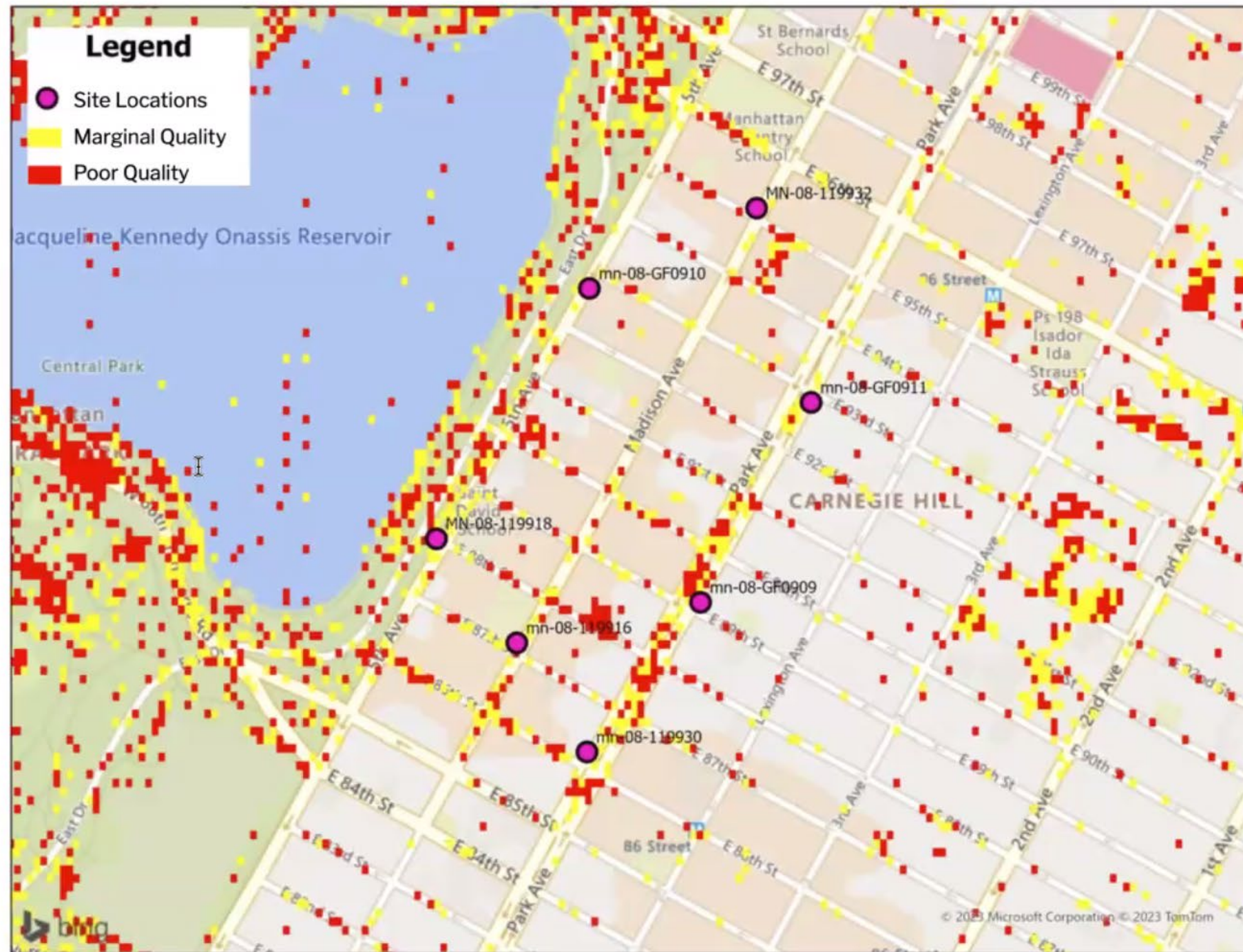
Evolution of Cellular Infrastructure



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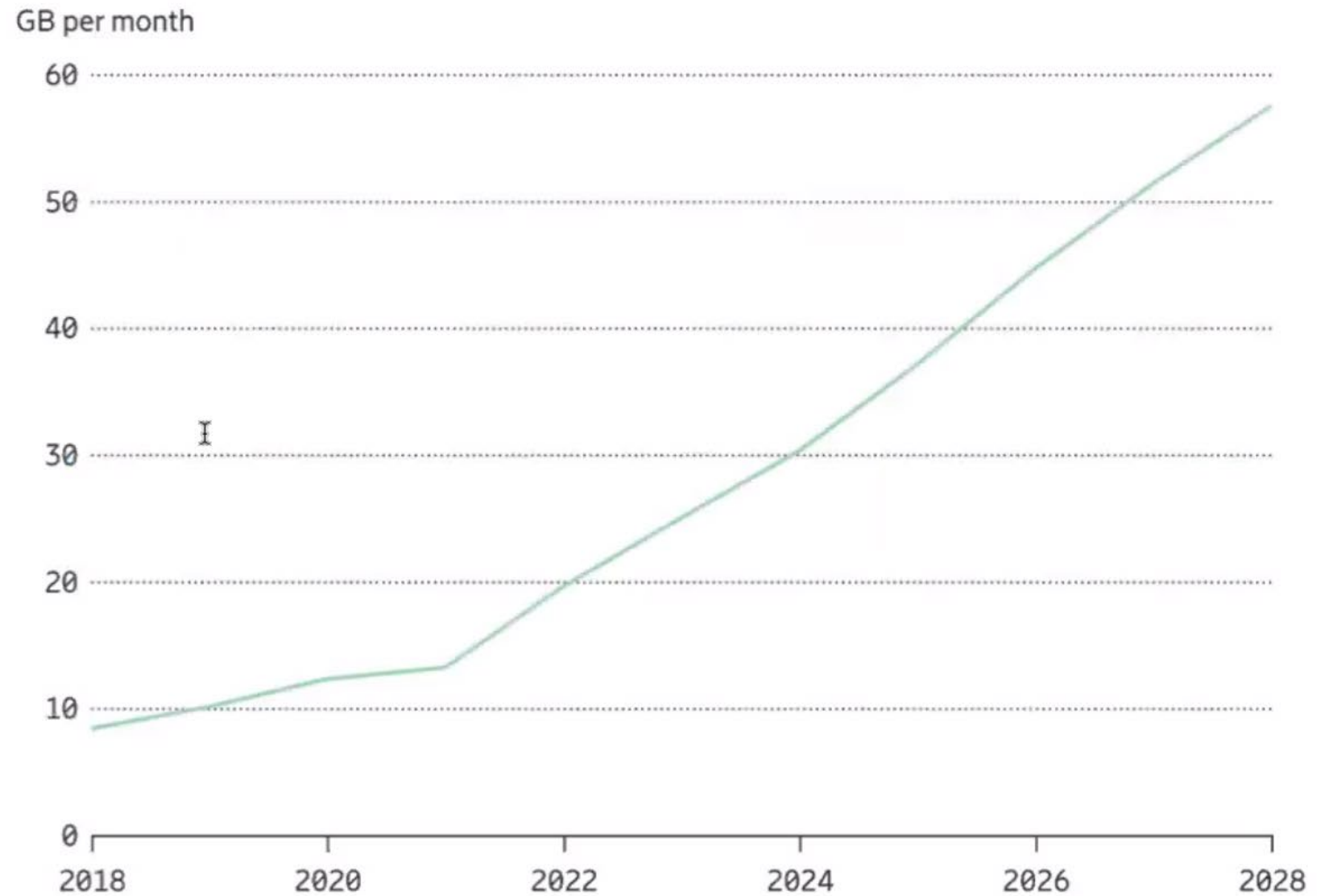


Analysis of Mobile Coverage Issues around selected Proposed Sites from Ookla – a network testing and analysis firm



Projected Mobile Data Traffic per Smartphone, North America

Ericsson Mobility Report, June 2023



5 Existing Layers of City & Community Oversight

Each Link5G site proposed by a telecommunications carrier is subject to:

NYC Civil Code Regulations - Title 67 (Dept. of Information Technology & Telecomm.) NYC Rules § 6-41: "Siting & Clearance Requirements" prohibits blocking fire escapes, traffic poles/lights, signs, etc.

Community Boards - Elected Officials - 60-day review period for local elected representatives to provide feedback: including Borough President, Councilmember & Community Board.

Inter-Agency Departments - Link5Gs installed in Historic areas require review and approval of the Landmark Preservation Commission. Link5Gs installed adjacent to public parks require review and approval of the Dept. of Parks & Recreation. Dept. of Transportation permits required for all installations.

Franchise & Concession Review Committee - Franchise Agreement contractual restrictions include max of 1 Link5G per block, clear corner quadrants, clear lines of site for pedestrian & vehicles, etc.

Chief Technology Officer/OTI - Each and every Link5G site is subject to review and approval by the CTO and OTI, which conducts field surveys to assess compliance and fit with community surroundings.

Link5G Siting Criteria

No Link5G may be placed within:

1. 3 feet of a traffic sign;
2. 4 feet of a traffic light;
3. 5 feet of the end of a ramp of an entrance to or an exit from a wheelchair lift;
4. 15 feet of the entrance way of an outdoor or elevated subway entrance, except where the PCS structure is attached to, or is immediately adjacent to, the building and clear pedestrian passage is maintained;
5. 5 feet from a subway station entrance;
6. 15 foot radius of a fire hydrant and, unless otherwise authorized by the Commissioner in writing, within 5 feet of a standpipe and/or sprinkler, siamese connection or wall hydrant;
7. 3 feet from a subway grate, utility hole cover, or transformer vault;
8. 15 feet of a sidewalk cafe;
9. 15 feet of a bus stop zone unless the PCS structure is attached to a bus stop shelter within the zone or is installed at the building line and does not obstruct pedestrian passage on the sidewalk;
10. 15 feet of a newsstand unless the PCS structure is attached to such newsstand or is installed at the building line and does not obstruct pedestrian passage of the sidewalk;
11. 15 feet of a public pay toilet unless the PCS structure is attached to such public pay toilet or is installed at the building line and does not obstruct pedestrian passage on the sidewalk;
12. 5 feet of a bench located at the curblineline;
13. 10 feet of a driveway unless the PCS structure is attached to or immediately adjacent to a building immediately adjacent to such driveway;
14. 5 feet of a canopy as defined in § 19-124 of the Code;
15. 4 feet of a mailbox located at the curblineline;
16. 4 feet of the base of a street light;
17. 4 feet of a parking meter;
18. 3 feet of a fire box unless otherwise approved in writing by the Commissioner;
19. 3 feet of a news rack located at the curblineline unless the PCS structure is attached to the newsrack;
20. 3 feet of a newsbox located at the curblineline;
21. 3 feet of a grating if the public pay telephone is installed at the building line and does not cover the grating or in any way impede the opening of the grating;
22. 3 feet of a signpole;
23. 3 feet of the edge of a tree pit or planter located at the curblineline.
24. 4 feet from a "Pedestal Structure," (herein defined as any telecommunications utility box, cabinet, or enclosure and related construction, such as foundations, that is located, in whole or in part, above grade and within the public right-of-way of a public street and/or sidewalk, except when such structure is attached to a utility pole or other legal street furniture installation);
25. 4 feet of any sidewalk encumbrance not specifically enumerated herein;
26. No more than one structure shall be installed on each block and, for the avoidance of doubt, on only one side of the street per block;
27. No more than one structure shall be installed closer than 200 feet to an existing Structure;
28. Until further reviewed by the Public Design Commission, there is a limit of 200 Link5Gs in residential and historic zoned areas; and
29. Sites in LPC designated historic districts require review by the LPC

Thank you