



Citi Bike Expansion & Infill

Manhattan Community Board 5

November 22, 2021



Citi Bike Overview

1

Citi Bike to Date

8+ years of Citi Bike

- **Launch – Phase 1**

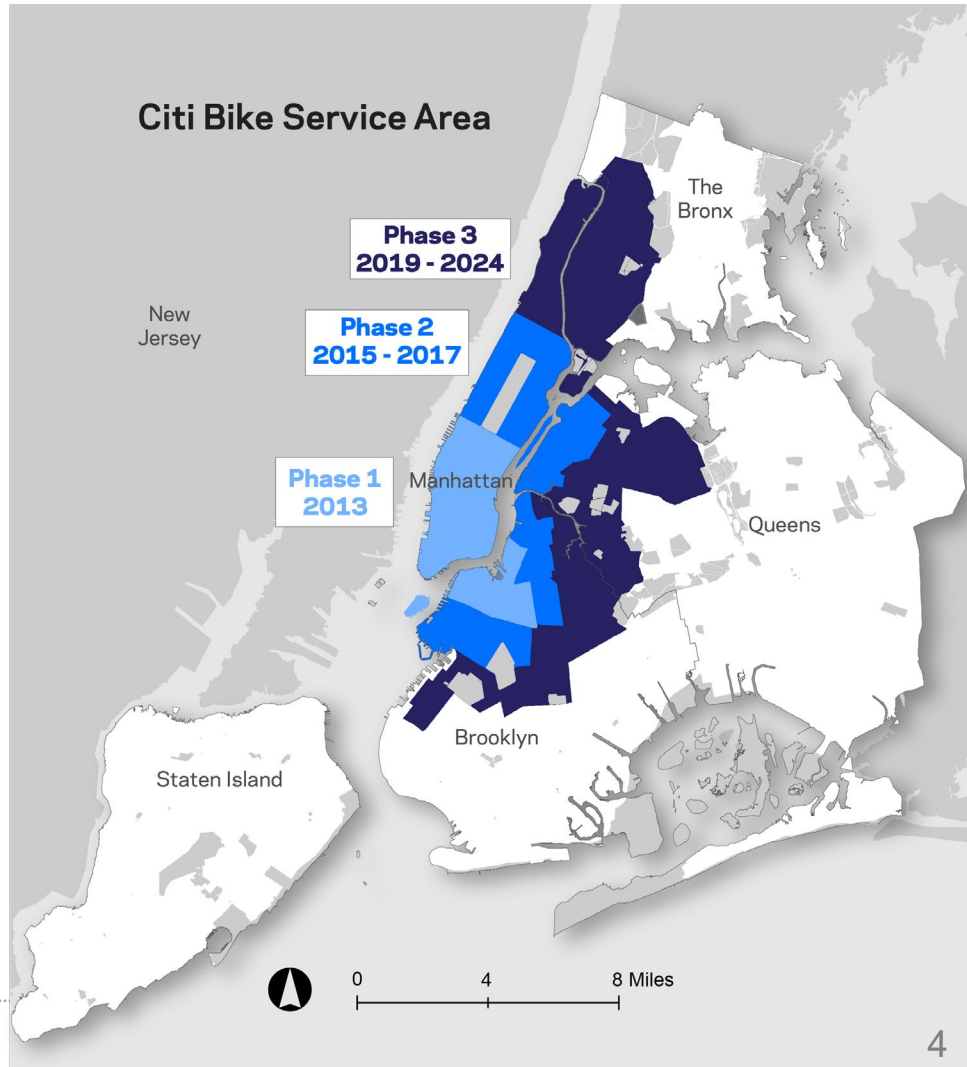
- 2013
- Manhattan & Brooklyn
- 330 Stations
- 6,000 Bikes

- **Phase 2**

- 2015 – 2017
- Manhattan, Brooklyn, Queens
- 750 Stations
- 12,000 Bikes

- **Phase 3**

- 2019 – 2024
- Manhattan, Brooklyn, Queens, Bronx
- + 35 square miles
- + 24,000 bikes (infill + expansion)



High Ridership

By the numbers

135+ million trips to date

5+ trips per day per bike

~100,000 daily trips in peak riding months

120,000+ daily rides during busiest days

165,000 annual members

600,000+ first time riders in 2020



Phase 3 Expansion & Infill

2

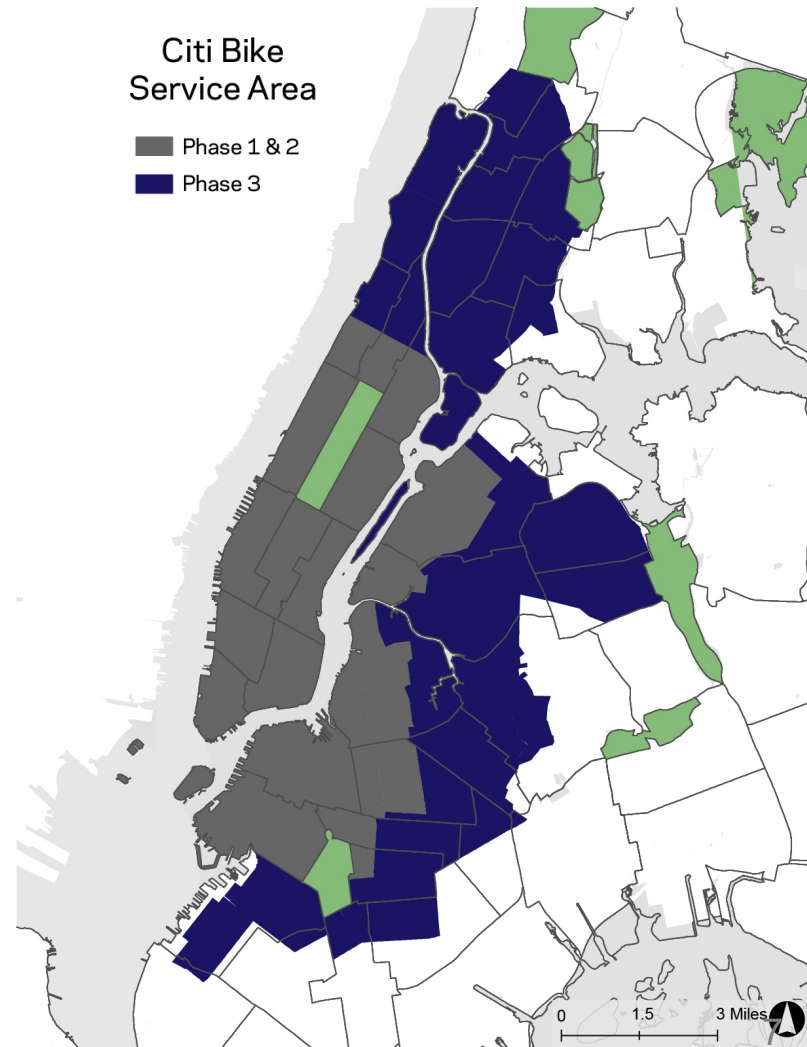
Phase 3 Expansion & Infill

Phase 3 Expansion brings Citi Bike to new parts of NYC and will double geographic size of system

- **32,000 docks**
- 16,000 bicycles
- In ~35 square miles

Phase 3 Infill adds new capacity to the existing (Phase 1 & 2) service area

- **16,000 docks**
- 8,000 bicycles
- In ~33 square miles already containing:
 - **29,000 docks**
 - 13,250 bicycles



Why is Infill part of Phase 3?

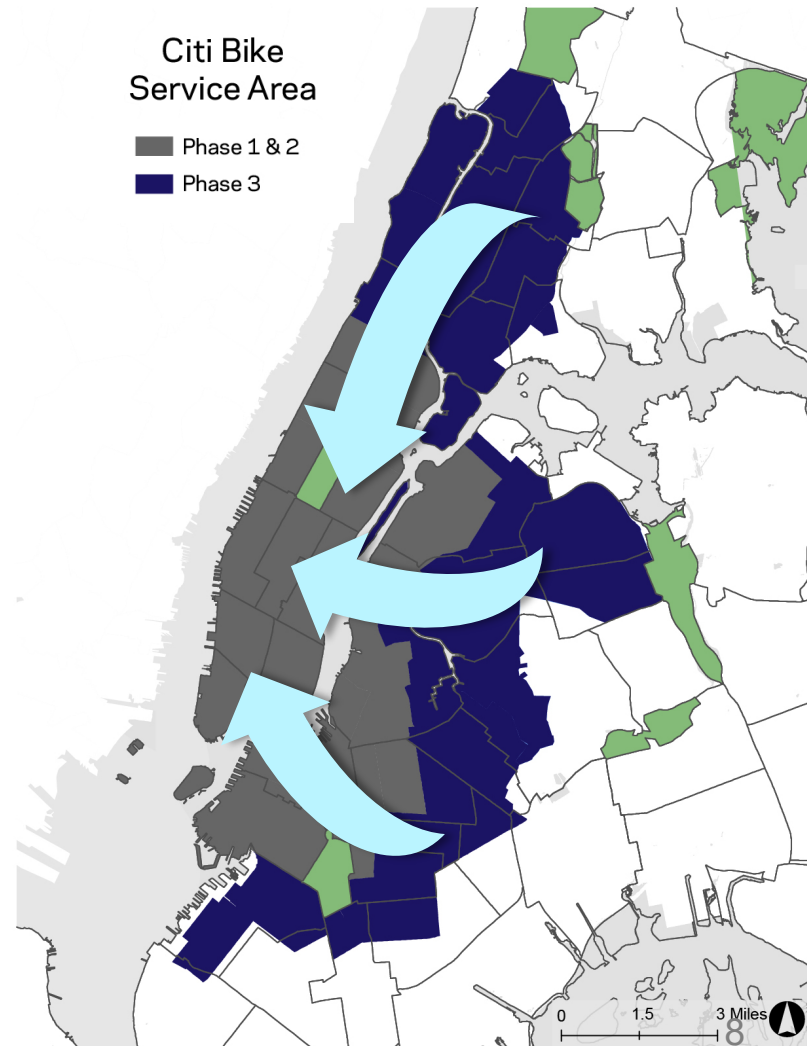
A larger Citi Bike system will have many more bicycles in its core

Citi Bike rider “gravity” pulls bicycles to the center

- Similar to other transit modes, riders move towards the Central Business Districts
- Demand for bikes shifts throughout the day

Infill helps a larger system to function

- Supports increased demand from Phase 3 Expansion
- Helps meet existing unmet demand when riders cannot find a bike or dock
- Improves rebalancing and overall system operations



Timeline & Principles

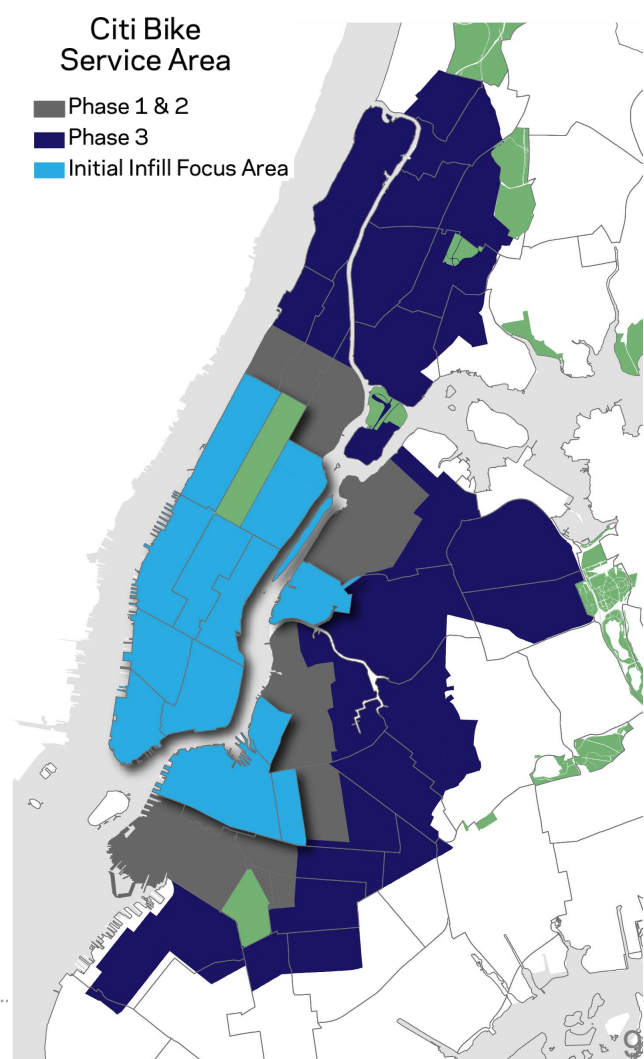
Infill dock distribution based on rider demand

Four-year, ongoing rollout of new and expanded stations

Areas of highest demand will receive the most docks

Rolling installations

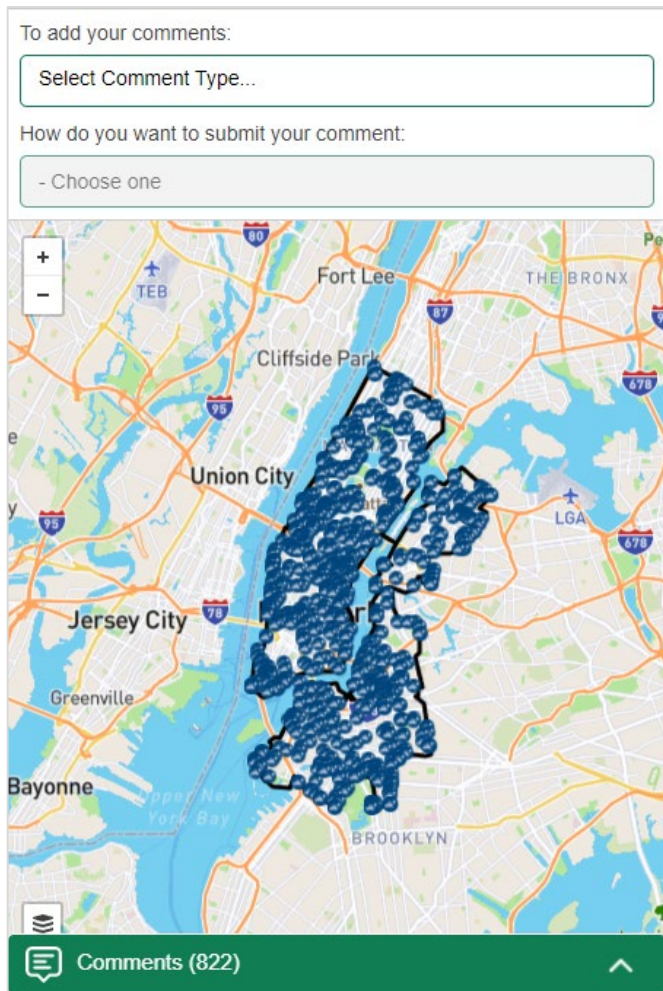
- Installations may cover multiple Community Boards at a time
- Iterative planning process will address changes in demand as system expands



Planning Process

Rolling outreach and installations

- **Community feedback:** online feedback portal, requests from riders and stakeholders
- **Data-Driven site selection:** using demand model, spatial analysis, and technical criteria
- **Community notification:** notify property owners, Community Board, and key stakeholders prior to installation
- **Installations**
- **Ongoing monitoring**



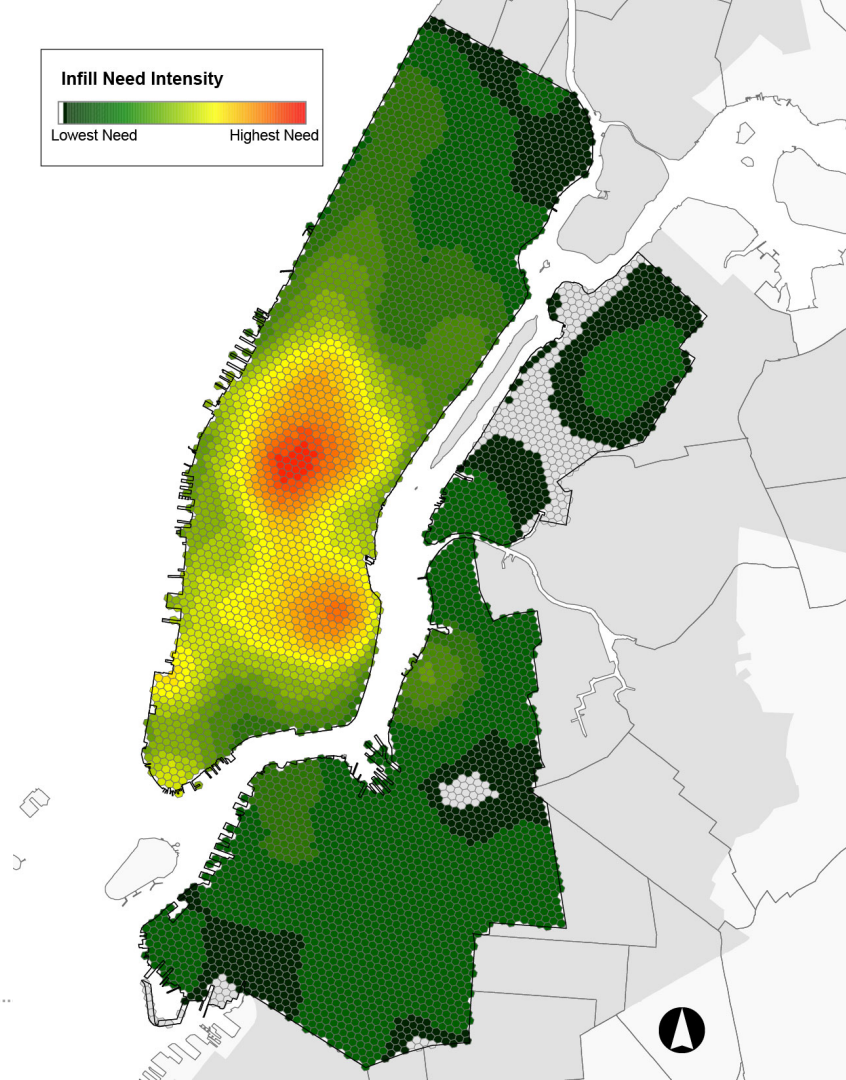
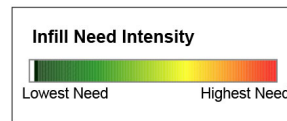
Infill Planning

3

Data-Driven Planning

Infill goal: improve the system by reducing instances where riders can't find a bike or a free dock

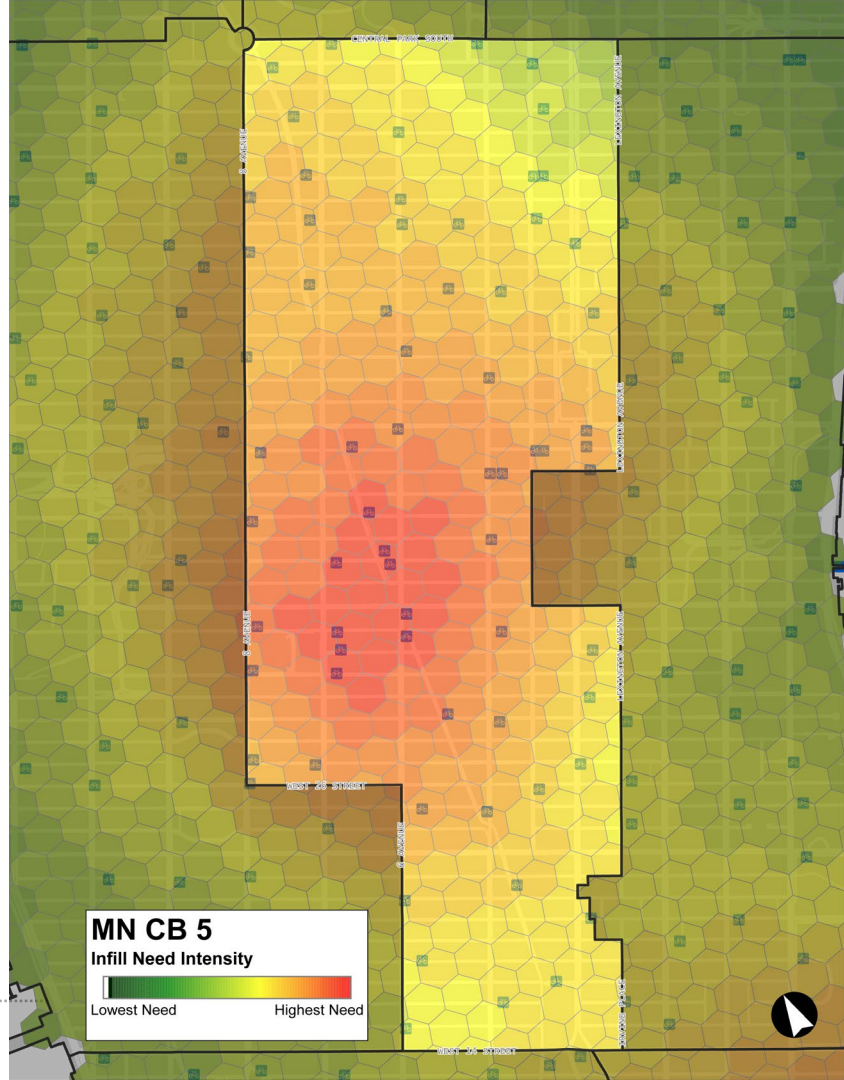
- **Map highlights where the most additional docks are needed to meet rider demand**
- **Areas of highest need are in Manhattan, south of 60th Street**



Data-Driven Planning

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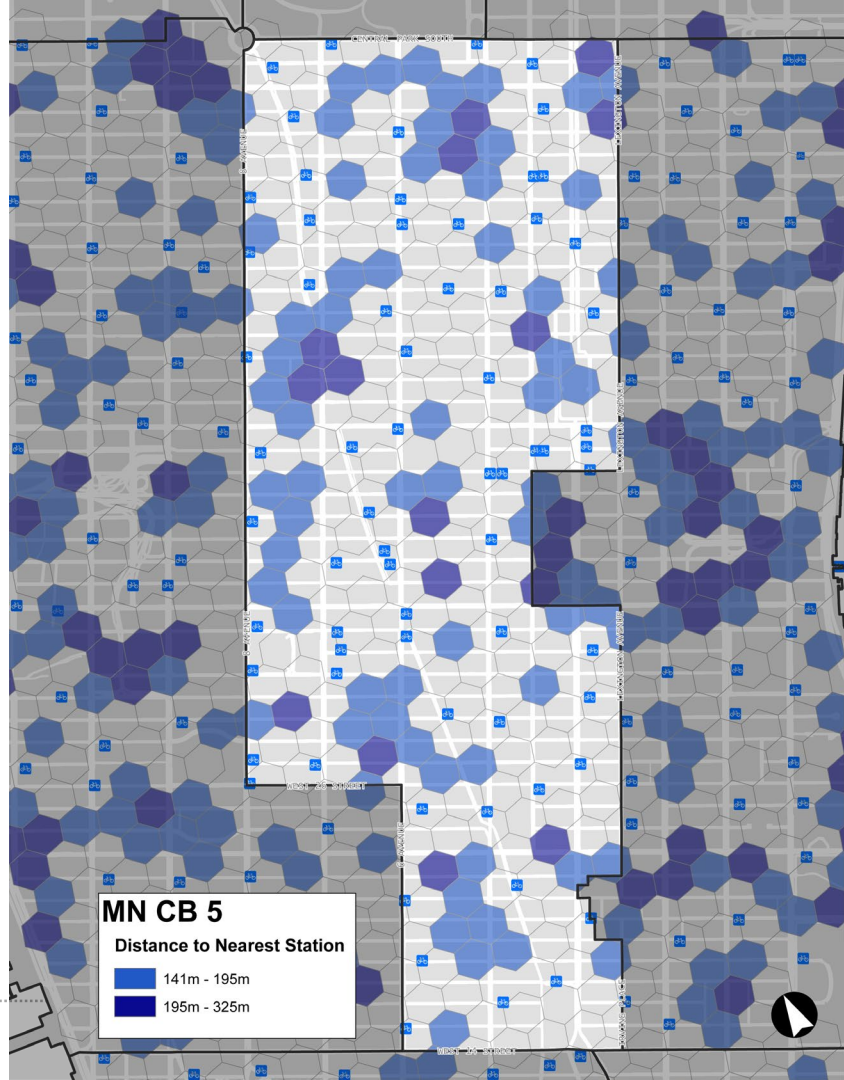
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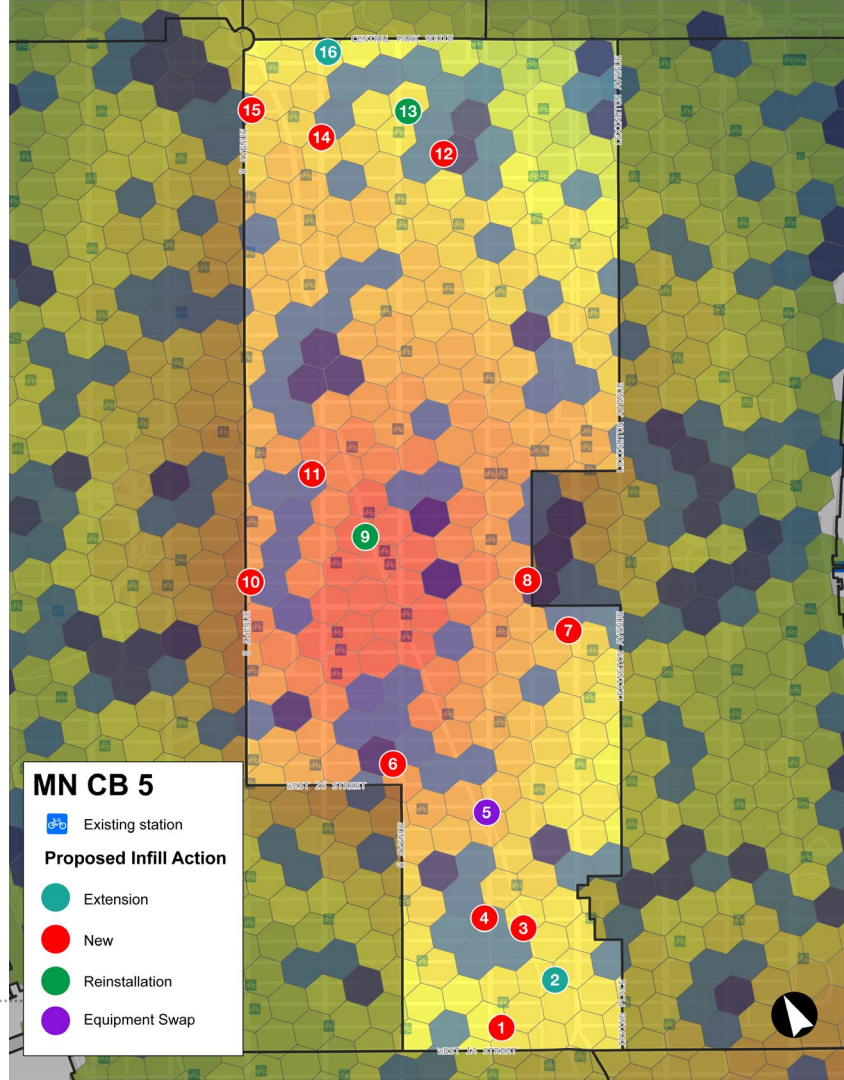
- **Network Gaps**
 - System success depends on a dense network of stations
 - Spatial analysis identified areas in the system that are furthest from a station



Data-Driven Planning

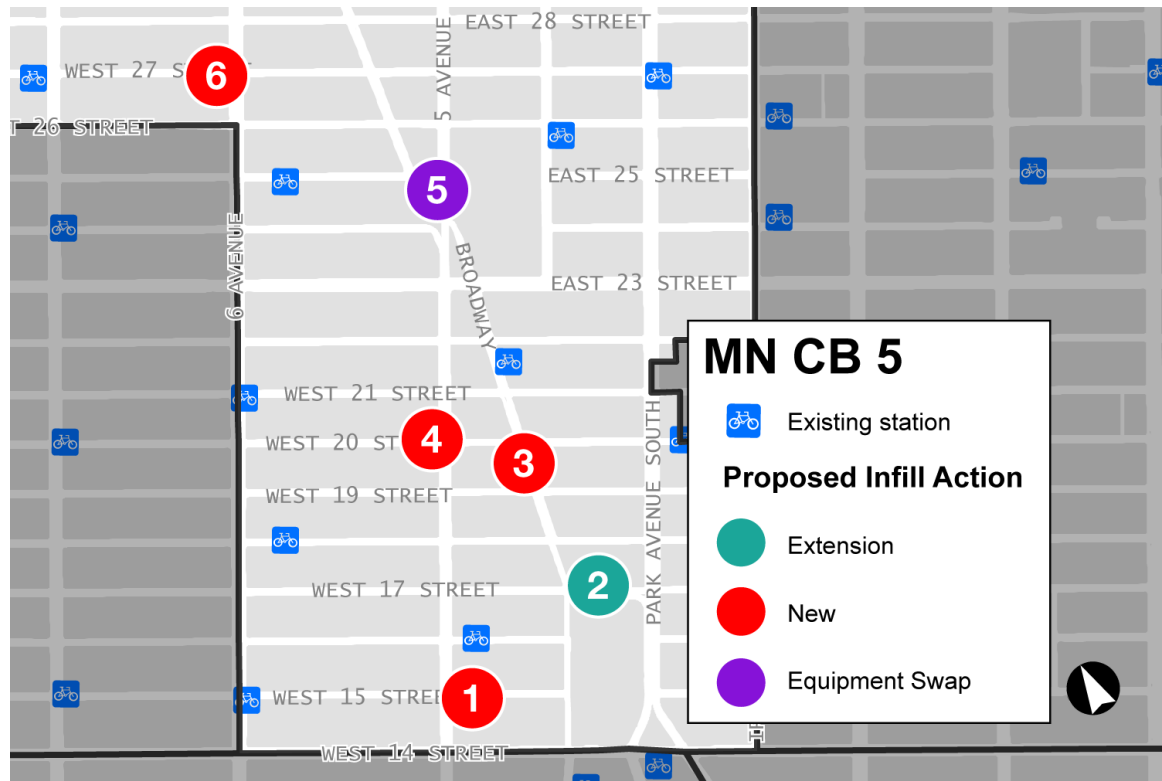
Infill need in Manhattan CB 5

- Demand shows 5,381 docks still needed in CB 5
 - Propose to install 671 docks
- Add capacity by extending existing stations and adding new stations
- Stations sited at overlap of highest demand and network gaps



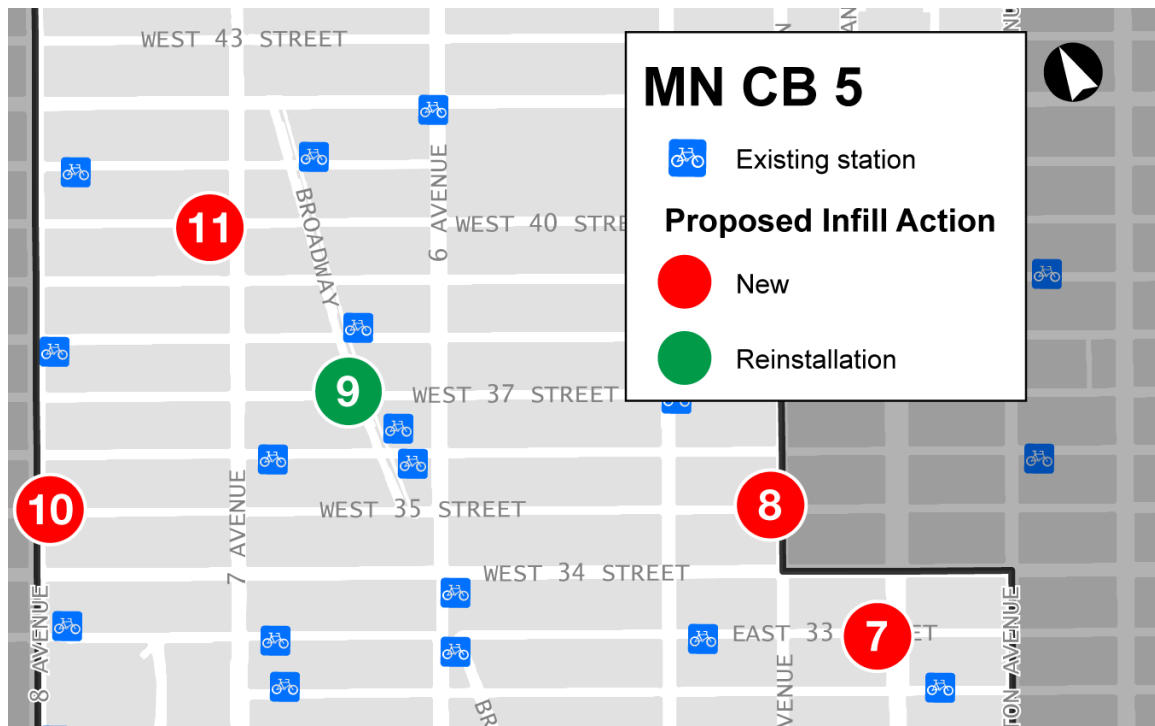
Proposed Infill

1. East 15th St & 5th Ave
 - *South roadbed*
2. East 17th St & Broadway
 - *North roadbed*
3. Broadway & East 20th St
 - *East roadbed*
4. East 20th & 5th Ave
 - *North roadbed*
5. Broadway & West 25th St
 - *Pedestrian space*
6. West 27th St & 6th Ave
 - *South roadbed*



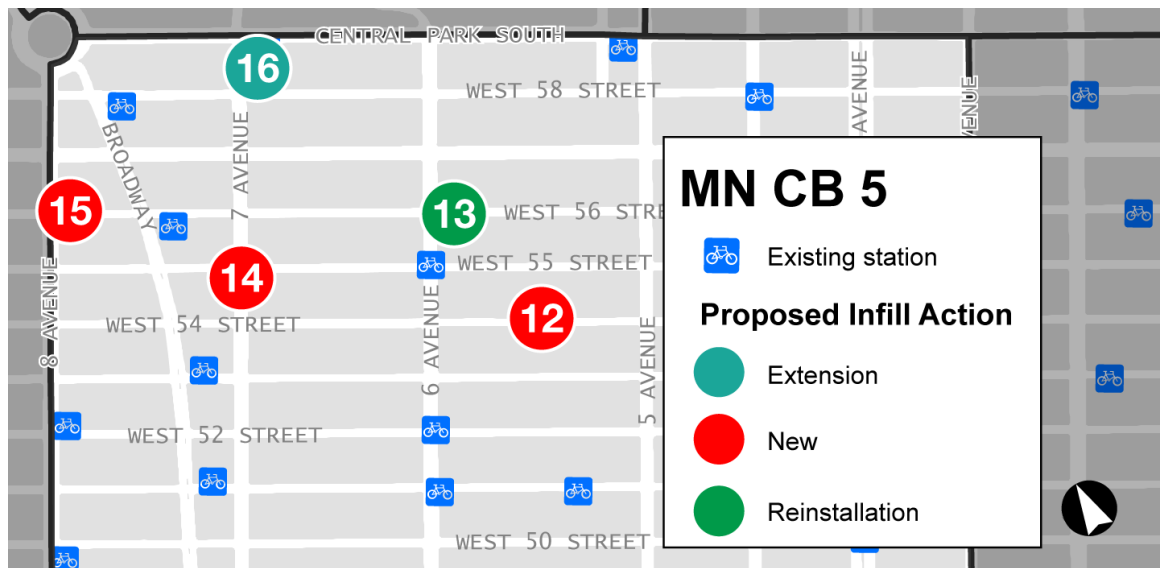
Proposed Infill

7. East 33rd St & Park Ave
 - *South roadbed*
8. East 35th St & Madison Ave
 - *North roadbed*
9. West 37th St & Broadway
 - *North roadbed*
10. West 35th St & 8th Avenue
 - *South roadbed*
11. West 40th St & 7th Ave
 - *South roadbed*



Proposed Infill

12. East 54th St & 6th Ave
 - *North roadbed*
13. West 56th St & 6th Ave
 - *South roadbed*
14. 7th Ave & West 55th St
 - *East roadbed*
15. West 56th St & 8th Ave
 - *North roadbed*
16. 7th Ave & Central Park South
 - *East sidewalk*



Thank You!

Questions?



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