



Public E-Bike Charging

Queens Community Board 2

June 2, 2026



The Challenge



Since 2022, lithium-ion batteries in NYC have resulted in more than:

- **900 fires**
- **400 injuries**
- **30 deaths**

Many caused by **uncertified and low-quality e-bike batteries** and improper/unsafe charging practices

Why Battery-Swapping Cabinets?

2023-24 DOT pilot program with delivery workers [who rely on e-bikes](#)



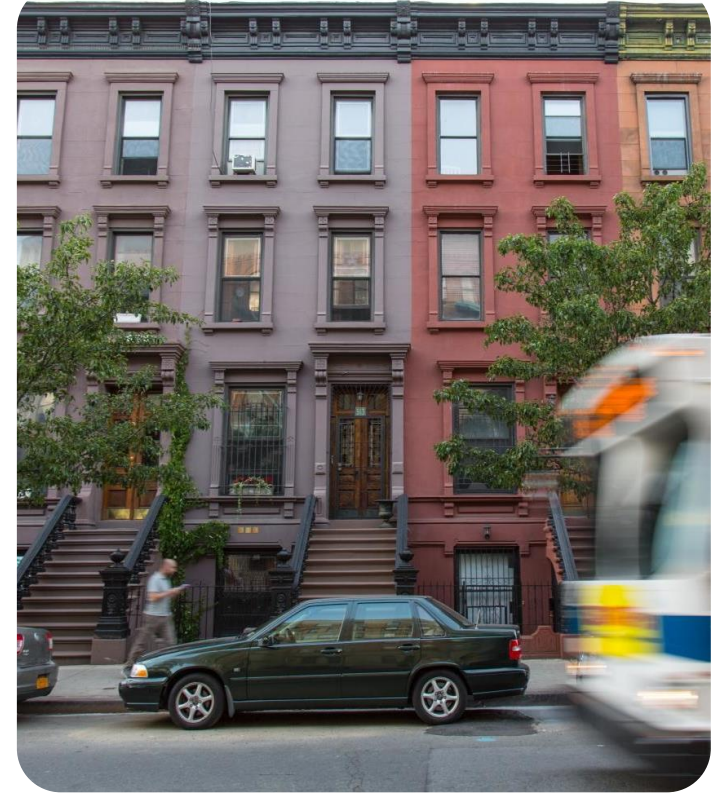
- **Pilot tested battery-swapping cabinets** on sidewalks and in plazas w/ 100+ delivery workers
- **Battery swapping was popular**, improved fire safety, reduced at-home charging
- Workers **shared a willingness to pay for service** that reduces downtime and lowers battery-related expenses

What We've Heard from Delivery Workers



Workers need to swap batteries mid-shift

Workers are worried about battery safety and looking for solutions



Many buildings are banning charging in units

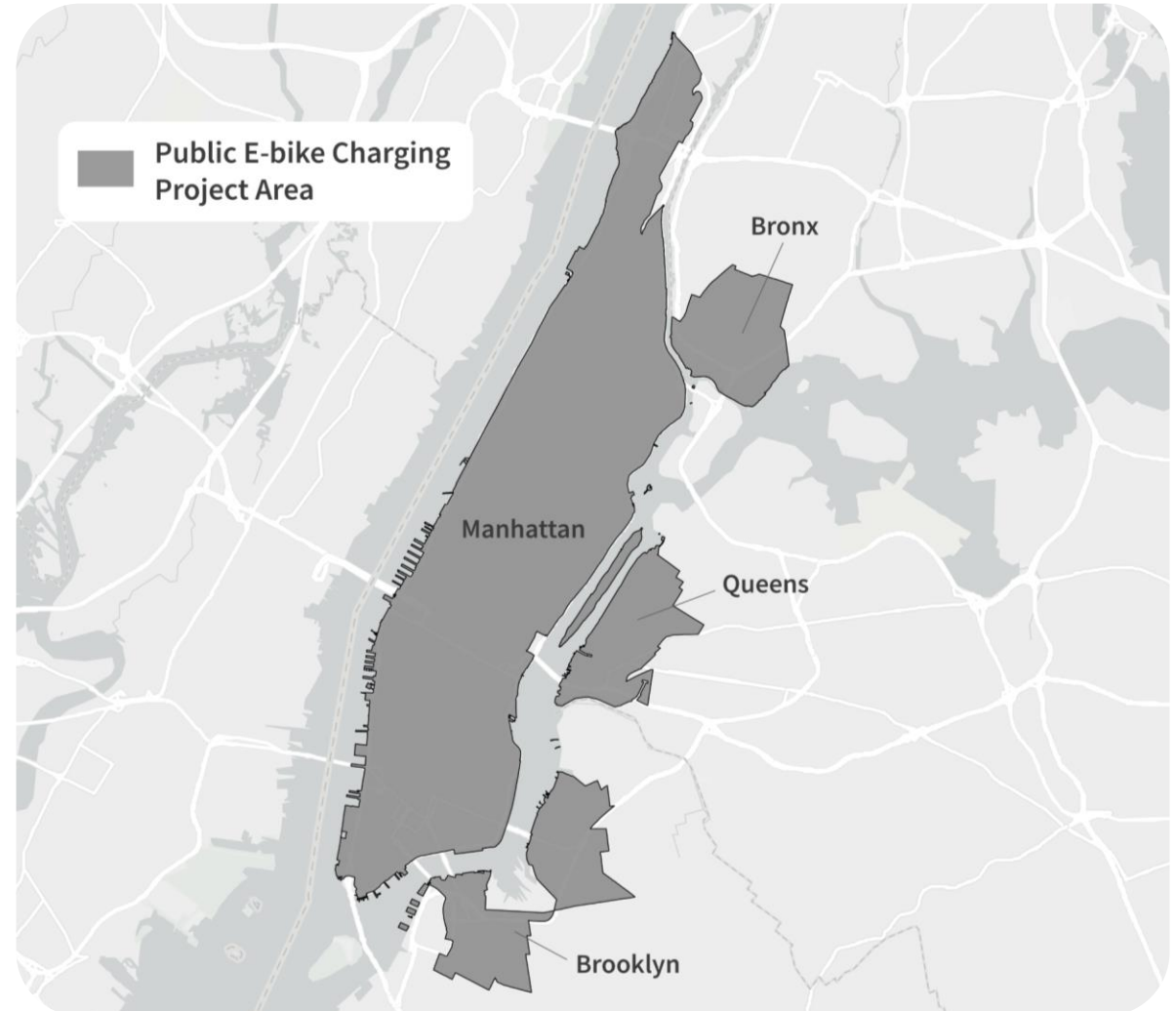
Working to solve a critical public safety concern

Program Description

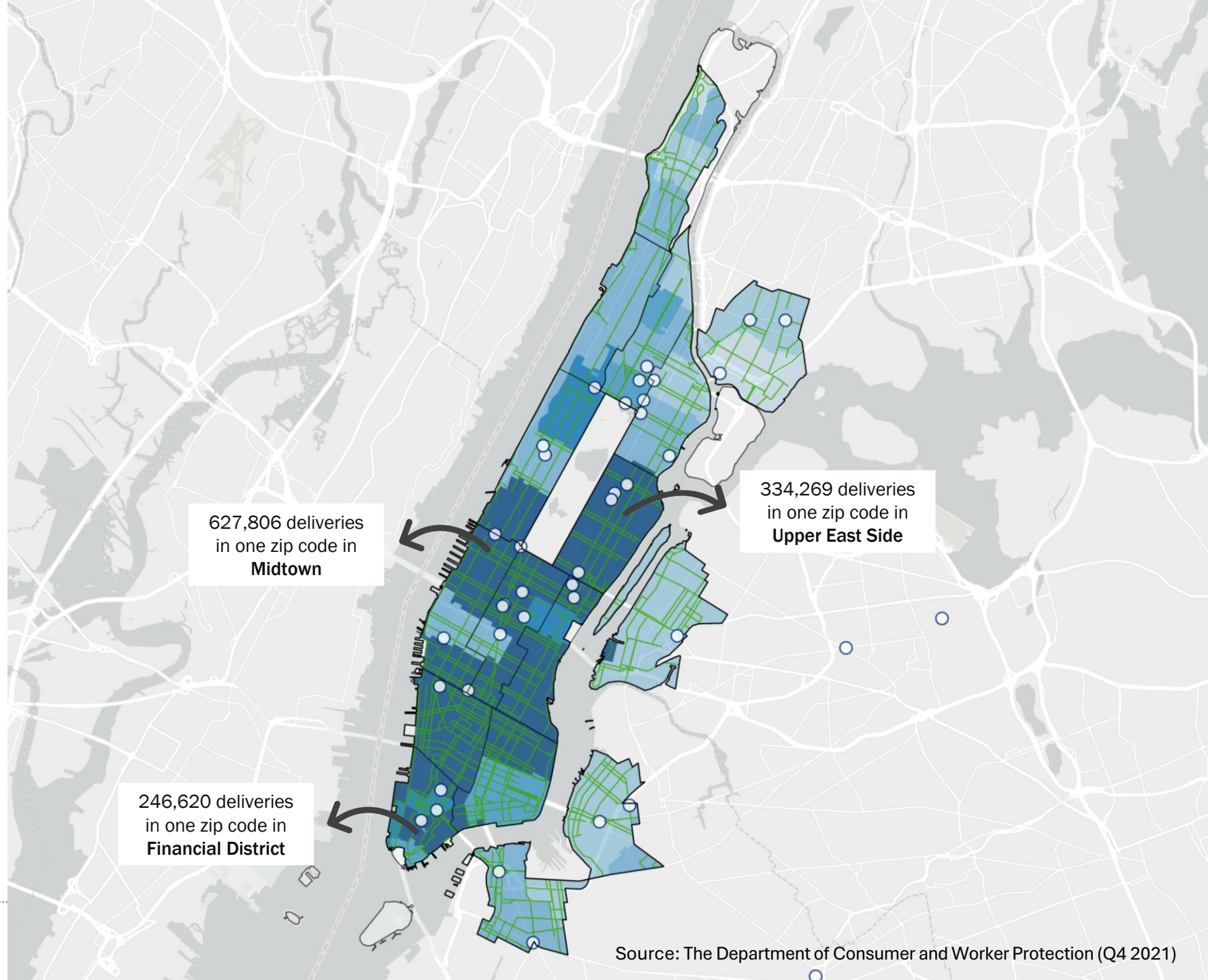
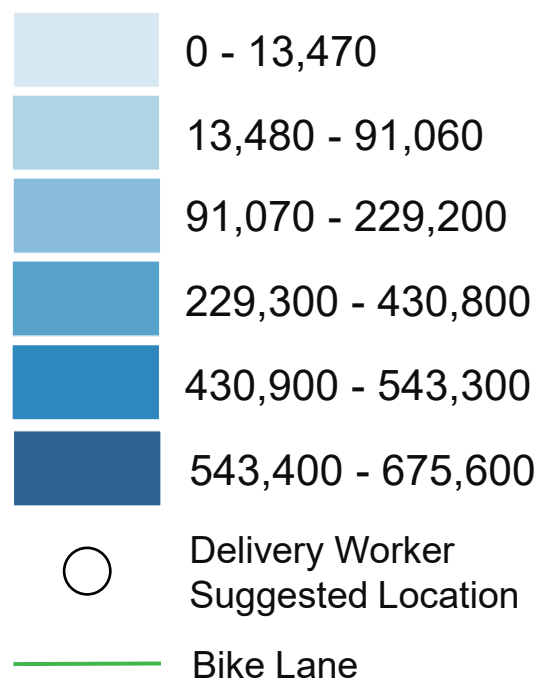
- **25 locations** for Certified Battery Swapping Cabinets
- Installation of underground **electrical connection** on DOT right-of-way
- Focused on areas with **most delivery activity and e-bike usage**
- **Builds on pilot program** that demonstrated high demand and reduced risks

\$3 million

NYSERDA Clean Mobility Program



Number of Deliveries Made Per Area (Square Mile) Q4, 2021



Part of a System-wide Approach to E-bike Safety

Pathways to the **safe and equitable** expansion of **e-bike and micromobility access**



Safe charging infrastructure **in addition to** DOT efforts on:



Education on safe riding practices and fire safety



Bike lane expansion with smart design



Holding apps accountable for device safety and riding behavior

What is a Battery-Swapping Cabinet? How does it work?

On average, swapping a battery will take less than 60 seconds.

Step 1

Scan a QR code

Step 2

Select battery

Step 3

Switch out battery

Step 4

Ride away!



**Swobbee
cabinet**



**PopWheels
cabinet**



What is a Battery-Swapping Cabinet?

Cabinets are a [safer alternative](#) to charge e-bike batteries



- **Certified to UL Standards**, weather- and theft-proof, with **fire safety features**, including fire containment
- System provides workers with **certified batteries** and **proactively monitors battery health**
- Each cabinet serves up to 100 workers per day at peak; **25 locations supports ~2,500 swaps per day**
- The program is designed to be financially **self-sustaining** through the selected vendor's membership fee
- Selected vendor(s) will be responsible for **site maintenance and cleanliness**

How did we identify potential sites? What was considered?

Priority near...

-  Restaurant hotspots
-  High delivery zones
-  Bike lanes
-  Delivery worker proposed sites
-  Major streets
-  Bike Parking Only zones
-  Wider sidewalks

Clearances from...

- | | | |
|---|------------------|----------------|
|  | Bus stops | Parking meters |
|  | Entrances | Mailboxes |
| | Utility covers | Drive rails |
|  | Tree pits | Benches |
| | Fire hydrants | Planters |
|  | Standpipes and | Newsstand |
| | Fire Connections | Streetlights |
|  | LinkNYC | |

Other Considerations

- | | |
|--------------------|---------------------------|
| Pedestrian flow | Vehicular Visibility |
| Bike flow | Dining Out NYC |
| Clear path | Capital projects |
| Historic districts | Schools |
| Flood zones | Religious institutions |
| Street vendors | Priority Investment Areas |
| Art installations | Curb regulations |
| Bridges | Furnishing zones |

Considerations



Congregation

Quick interaction with technology takes less than a minute



Clear Path

Guided by DOT's Pedestrian Mobility Plan to protect clear path on busy sidewalks



Fire Safety

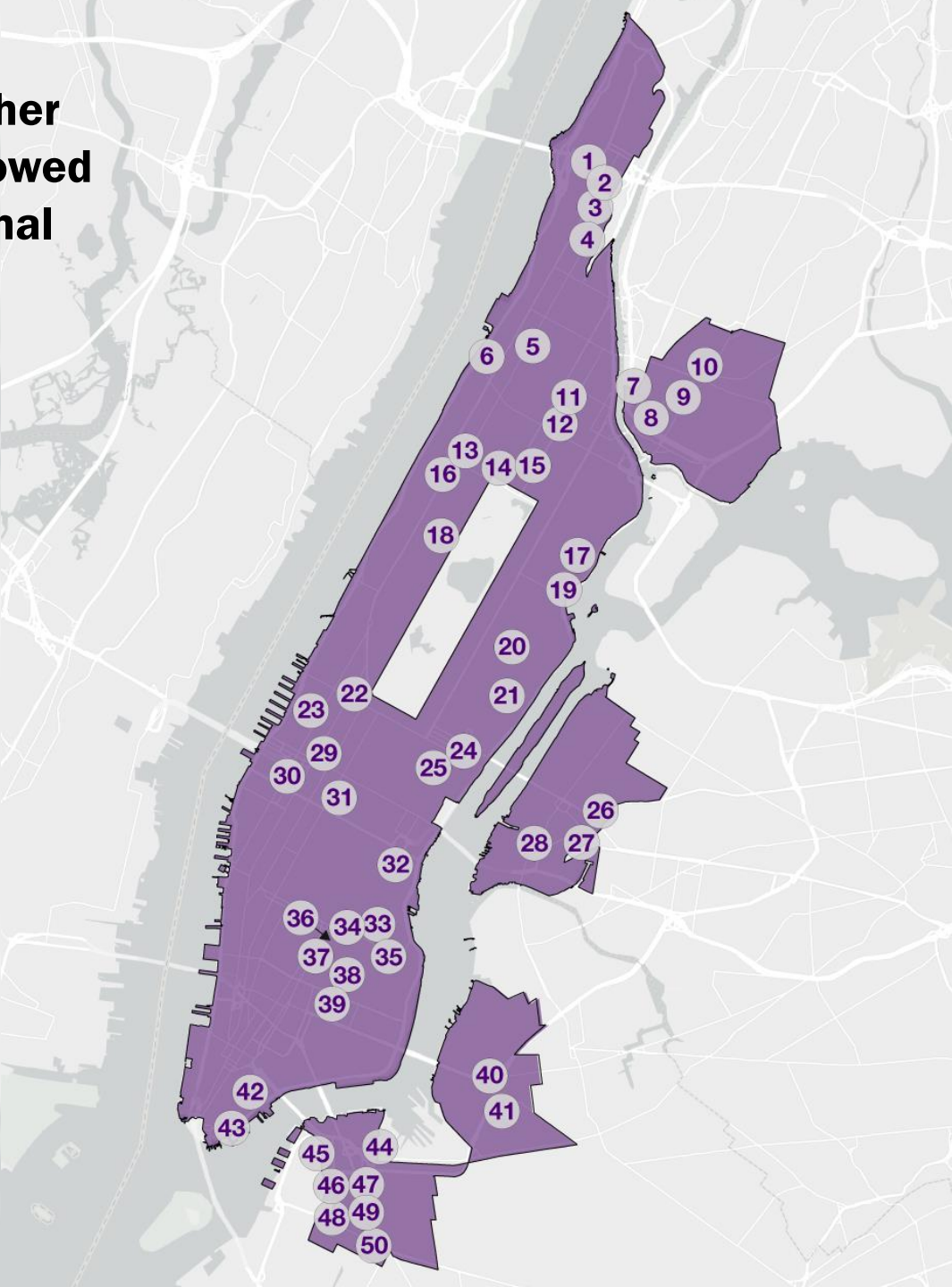
Coordinating closely with FDNY, tech manufacturers, and standard groups on fire safety



Appearance

Aesthetics will be coordinated with DOT to integrate with streetscape

These proposed sites and other suggested sites will be narrowed down to approximately 25 final locations



Example Site with Clearances

On 1st Ave and E 103rd St, Southwest corner



Site 27

On 44th Dr at Jackson Ave, North block

QN02

25-29 44th Dr, Long Island City, NY 11101

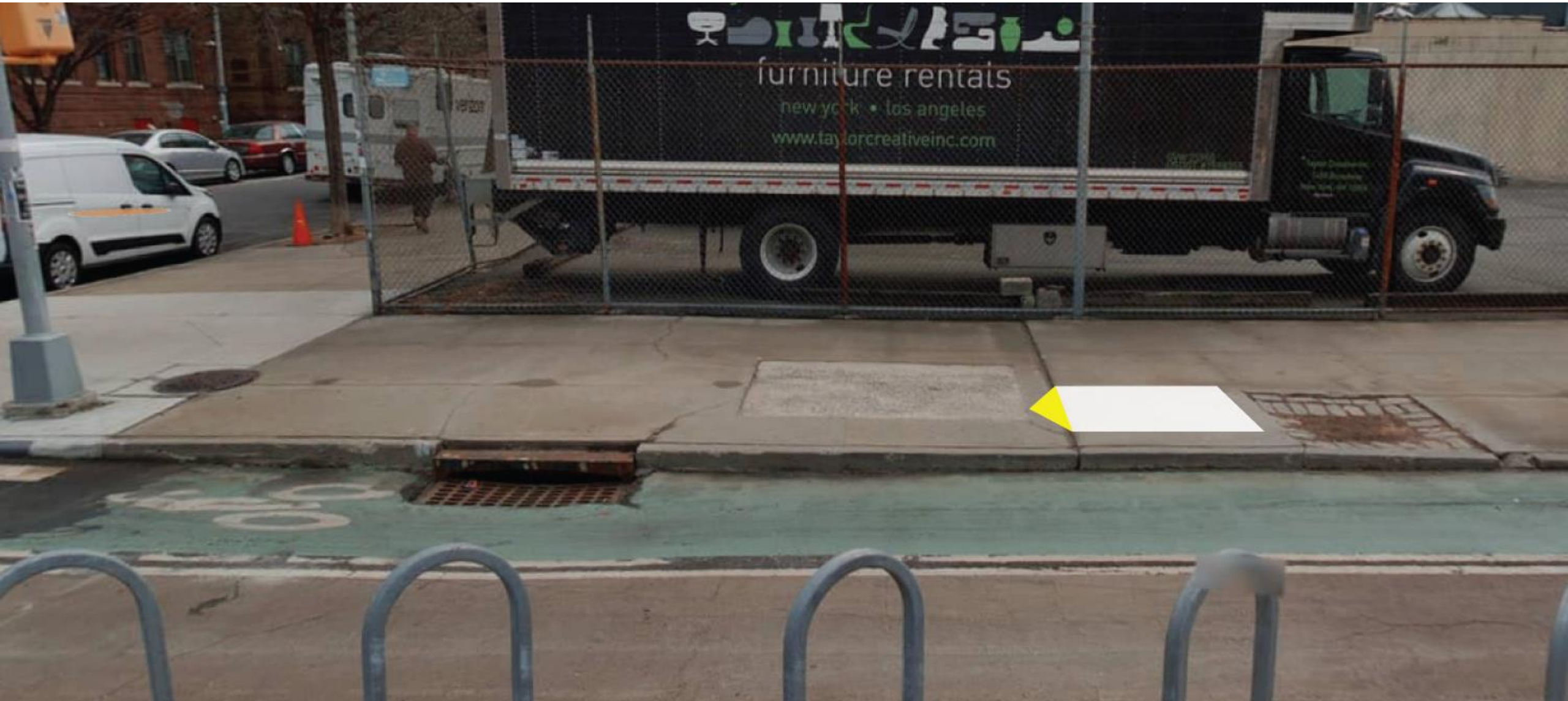


Site 28

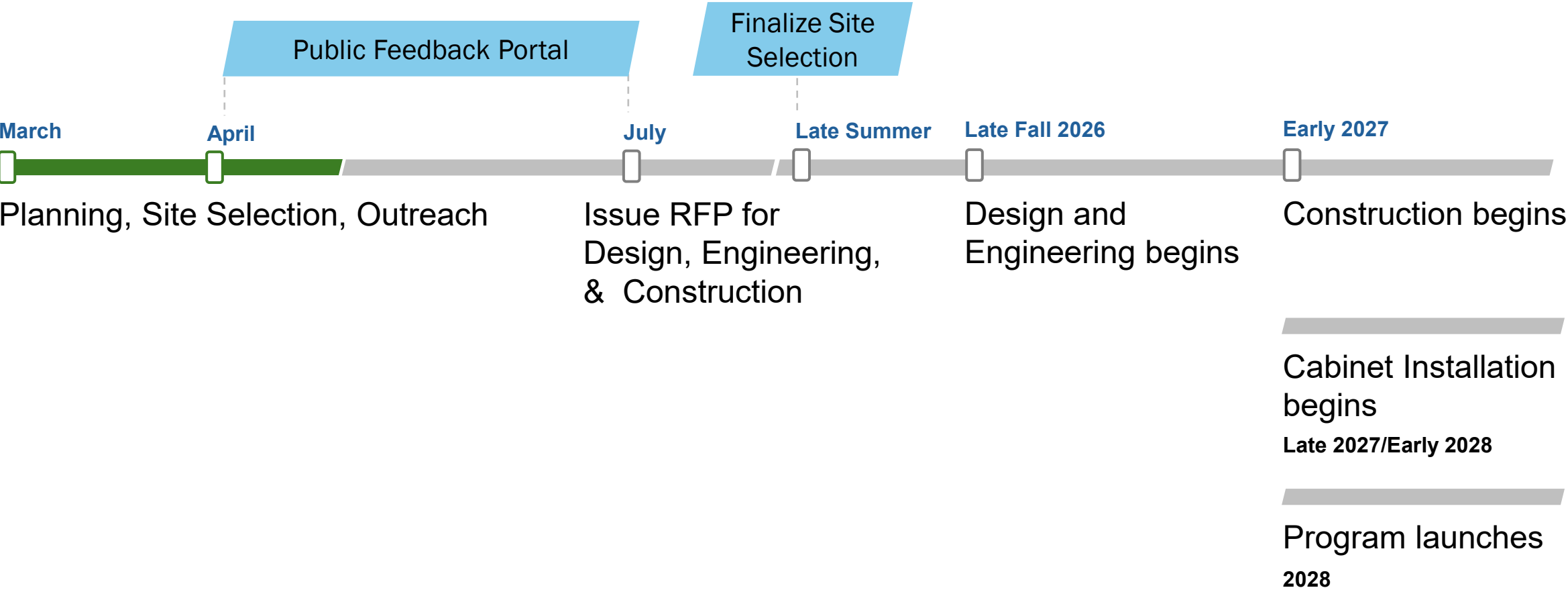
On 11th St at 46th Rd, Southeast corner

QN02

46-27 11th St, Long Island City, NY 11101



Timeline



Public Feedback Portal

Share Your Feedback

NYC DOT is gathering public input to help shape our Public E-Bike Charging (PEC) program. This spring we're asking for your feedback on the proposed e-bike battery swapping cabinet locations.

Your input will guide our next steps. We'll review comments on the proposed sites, refine the list of locations, and develop a prioritized short list to initiate the project's design phase.

Please submit your feedback by Friday, July 31th.

[Share your feedback on the proposed locations](#)

Why Battery Swapping Cabinets?



Share Your Feedback on NYC DOT's Proposed E-Bike Battery Swapping Cabinet Locations

English (United States)

The New York City Department of Transportation is gathering public input on the locations proposed below for e-bike battery swapping cabinets. Your feedback will help us narrow down this list to roughly 25 final locations. In some neighborhoods, such as Downtown Brooklyn, DOT identified several feasible options near each other and is interested in feedback to help pick two or three sites to advance into the design phase. You may also propose alternative locations or leave a general comment about the program.

DOT prioritized locations near bike infrastructure and in areas with high levels of delivery activity. Generally, cabinets must be located at the curb, away from the building line. It is critical to maintain enough space for pedestrians to comfortably navigate the sidewalk. Cabinets can't be placed in front of a building entrance or too close to trees or other street furniture. For more information on our site selection process, see the Overview page here: <https://nycdotprojects.info/project/1995/overview>

When you submit this form, it will not automatically collect your details like name and email address unless you provide it yourself.

Our Proposed Sites

Feedback on Preliminary Site 25 located on 2nd Ave at E 57th St, Northeast corner *



Immediate Next Steps

- Conduct outreach to stakeholders and gather feedback
- Finalize sites based on feedback
- Begin design and engineering later this year



Thank You!

Questions?



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**curb
enthusiasm**

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