

Overview of Accessibility

ADA accessible station(s) count

ADA accessible station(s) by Borough

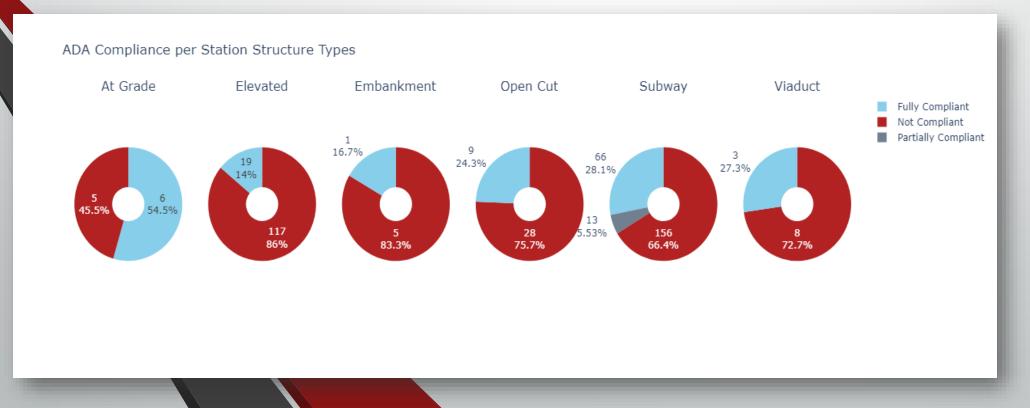
- The first table to the left shows us the total amount of stations city-wide that are ADA accessible.
- The second table to the left breaks down the ADA accessible stations through borough.

	count	percentage
ADA		
Not Compliant	319	73.17
Fully Compliant	104	23.85
Partially Compliant	13	2.98

		count	total	percentage
Borough	ADA			
Bronx	Fully Compliant	16	67	23.88
	Not Compliant	51	67	76.12
	Partially Compliant	0	67	0.00
Brooklyn	Fully Compliant	28	150	18.67
	Not Compliant	119	150	79.33
	Partially Compliant	3	150	2.00
Manhattan	Fully Compliant	35	121	28.93
	Not Compliant	76	121	62.81
	Partially Compliant	10	121	8.26
Queens	Fully Compliant	19	77	24.68
	Not Compliant	58	77	75.32
Staten Island	Fully Compliant	6	21	28.57
	Not Compliant	15	21	71.43
	Partially Compliant	0	21	0.00

Insights on ADA Compliance

- The charts show us that stations with elevated structure types are the worst in terms of ADA compliancy.
- The subways have the best compliancy out of all the categories



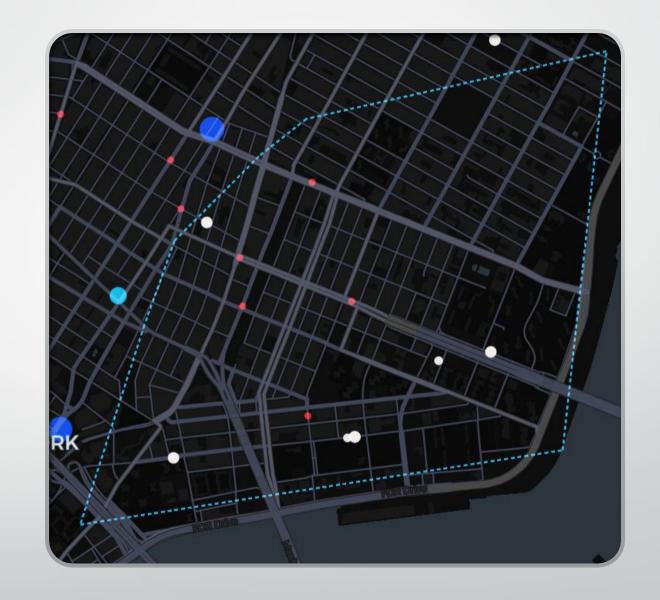
Mapping Accessibility with Kepler

- We utilized Kepler to visualize the proximity of subway complexes to medical facilities, including hospitals, clinics, and nursing homes.
- White dots represent hospitals, clinics, and nursing homes.
- Dark blue dots indicate fully accessible ADA complexes.
- Light blue dots show partially accessible ADA complexes.
- Red dots highlight complexes that are not ADA accessible.



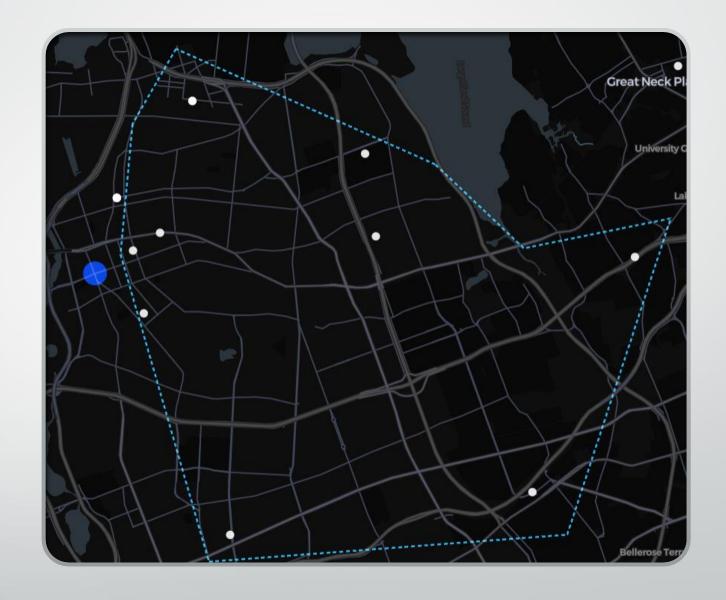
Transportation Deserts

- Borrowing the term
 "Transportation Deserts" from
 Jerome Horne, we identified
 areas with a noticeable
 presence of hospitals and
 nursing homes but little to no
 ADA-accessible subway
 complexes.
- This example in East Village shows 5 complexes that are not ADA accessible



Transportation Deserts

- Some Transportation Deserts are don't even have complexes to begin with.
- This area in Flushing-Broadway doesn't have one complex, so if someone wanted to travel here for medical purposes, they would have to travel through the Queens bus system, which suffers from constant delays.



Elevator and Escalator Outages

- Even when a station is ADA accessible, the constant threat of outages causes many inconveniences in these area.
- This table shows that the Bronx has the highest number of total averages which is also the poorest borough, affecting low-income communities in a negative way

	Average Total Outages	Average 24-Hour Availability
Borough		
Bronx	5.39	95.68
Brooklyn	5.06	95.48
Manhattan	5.78	94.02
Queens	4.39	94.33

Examples of Outages Affecting Medical Infrastructure

- Even when stations are ADA accessible and within medical infrastructure, the chance of malfunctions limits usability
- This chart compares 5 important complexes near medical infrastructure, 2 in Manhattan, 1 in the Bronx and 1 in Brooklyn and compares the outages during the 24-hr availability
- Queens has the worst accessibility which keeps on track for the train transportation in the borough



Recommendations

Improve Accessibility Near Medical Infrastructure

 In areas where subway complexes are not ADAaccessible but are located near medical infrastructure, the MTA should prioritize installing essential infrastructure like elevators and escalators to enhance accessibility for those who rely on public transportation for medical services.

Prioritize Maintenance in Critical Areas

 Increased focus should be placed on areas near medical infrastructure, such as Harlem, where frequent outages or breakdowns occur. Regular and proactive maintenance in these regions will ensure reliable access for those who need it most, particularly individuals with limited mobility.



Kepler HTML

