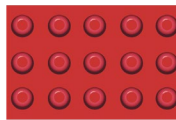


A photograph showing several construction workers in bright yellow safety vests and hard hats working on a city street. They are using tools to guide the pouring of dark concrete into a prepared form for a pedestrian ramp. A large, ornate black metal post stands in the center. In the background, there are orange and white striped construction barriers, a sign that says "PEDESTRIAN WALK" with an arrow, and a multi-story brick building.

# PEDESTRIAN RAMP PROGRAM

October 2021



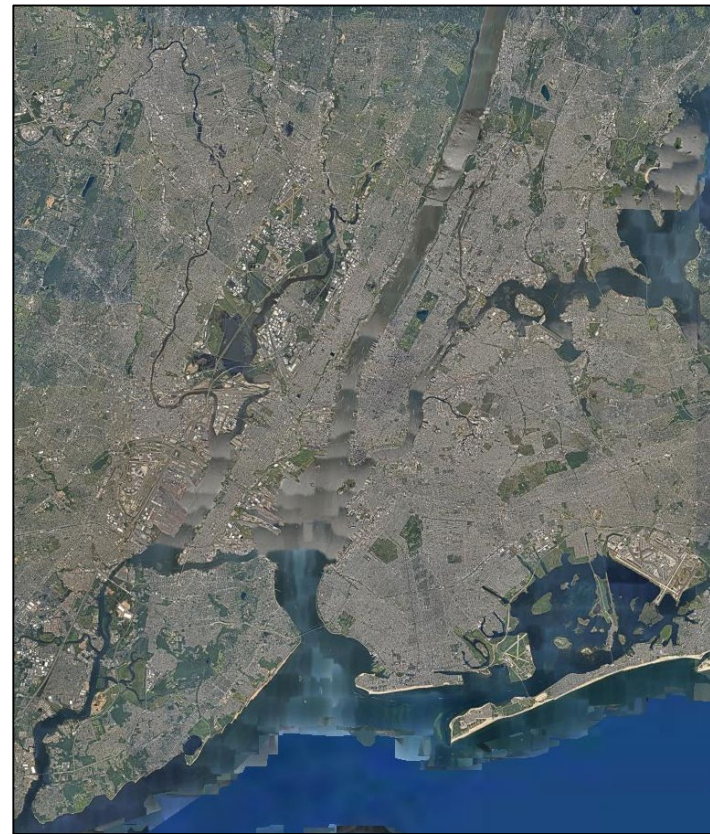
**Ped  
Ramp  
Program**

# NYC EXISTING CONDITIONS

## Vast and Complex Infrastructure Landscape

- 6,000 miles of roadway
- 12,000 miles of sidewalk
- 162,000+ corners
- 320,000+ pedestrian ramps
- Vast network of underground infrastructure
  - Subways
  - Utilities
  - Building vaults
- Complex and aging infrastructure
- Construction being done by many entities (public and private)

DOT manages a comprehensive pedestrian ramp and sidewalk program that ensures accessibility of pedestrian ramps, streets, and sidewalks



# CONSTRUCTION IN NYC

## No Singular Public Works Entity

- Construction is split between in-house forces at DOT and capital construction managed by DDC
- DDC manages capital work for DOT and other City agencies (e.g., sewer work for the Dept of Environmental Protection)
- Some government entities manage capital construction independently (e.g., Economic Development Corporation)
- Private developers and utility companies also work in the public right-of-way



# PROGRAM DEVELOPMENT

---

## Building a Team Dedicated to Pedestrian Ramps

- DOT is building a new unit, the Pedestrian Ramp Program, tasked with leading the effort to ensure the accessibility of all corners throughout the city to meet current ADA standards
- The team includes:
  - Engineers
  - Planners
  - Architect
  - Outreach
  - Budget
- DOT is also hiring new inspectors and construction crews dedicated to pedestrian ramps
- In total, this effort requires 400+ new DOT jobs and 660k sqft of additional space for work relating to pedestrian ramps



# OUTREACH & COORDINATION

## Extensive Outreach Plan

### Internal:

- Coordinating work plans with other divisions and programs internally

### External Entities:

- Coordinating with agencies and companies to promote the goals and benefits of the program and explain requirements to achieve accessibility
- Conducting trainings on ADA standards

### Community:

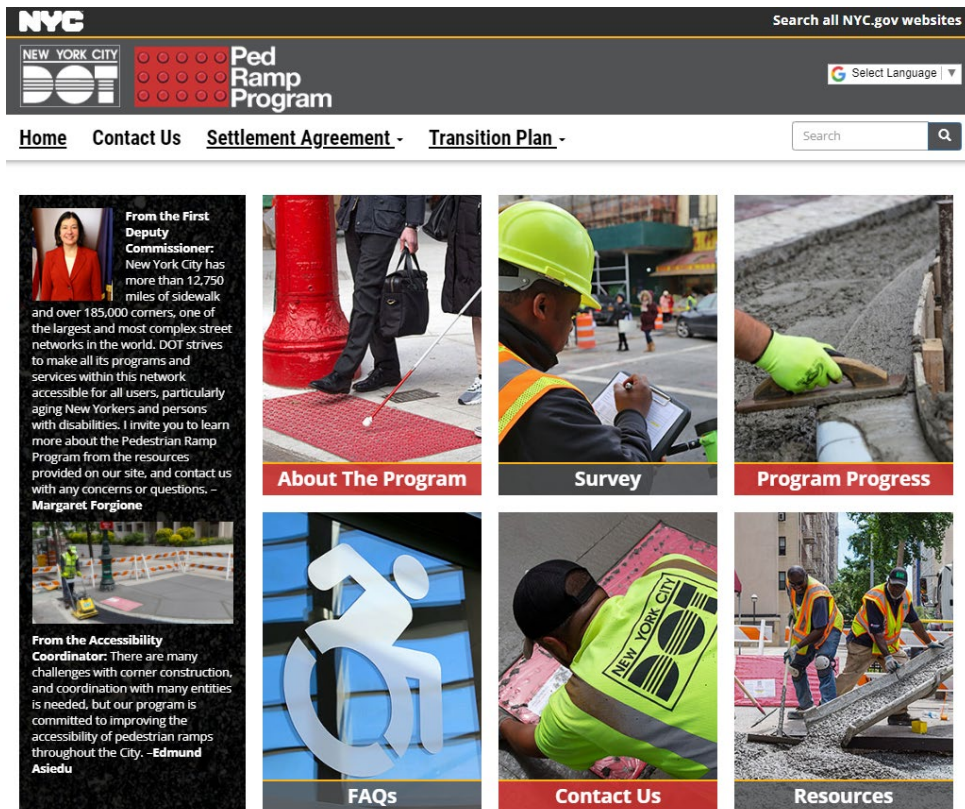
- Dedicated outreach team for all ped ramp related work:
  - Attend community meetings, (e.g. civics, places of worship, etc.) prior to and during construction
  - Independent on-street outreach activities: surveys, material distribution
  - DOT/other City Events: Street Fairs, Weekend Walks, Summer Streets



# PUBLIC WEBSITE

## Sharing Our Resources and Progress

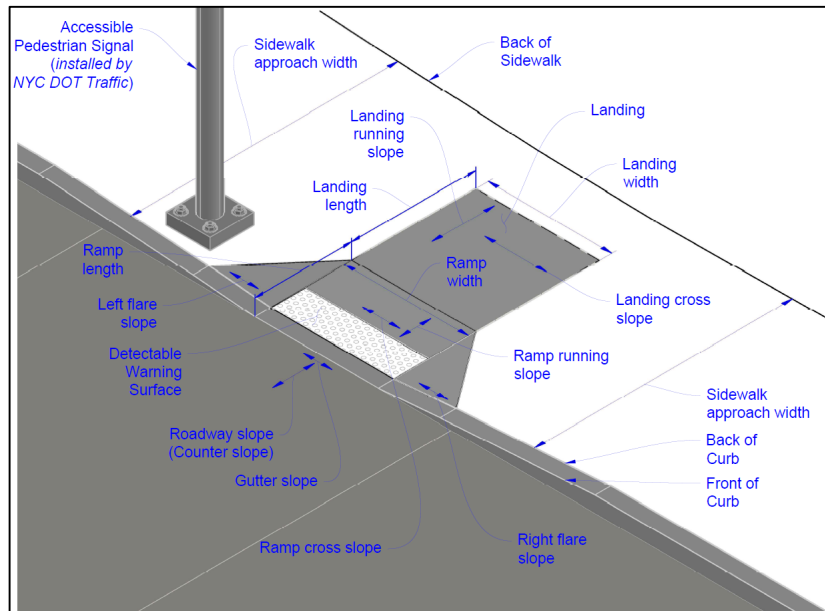
- Dedicated website to help distribute information and communicate about our work
- Launched in August 2018:  
[www.nycpedramps.info](http://www.nycpedramps.info)
- Information based on survey findings is available and map is updated regularly to reflect program progress
- Website has resources for other agencies, utilities, contractors on ped ramp standards and necessary forms



# PEDESTRIAN RAMP SURVEY AND SOP

## Comprehensive Citywide Assessment of Existing Conditions

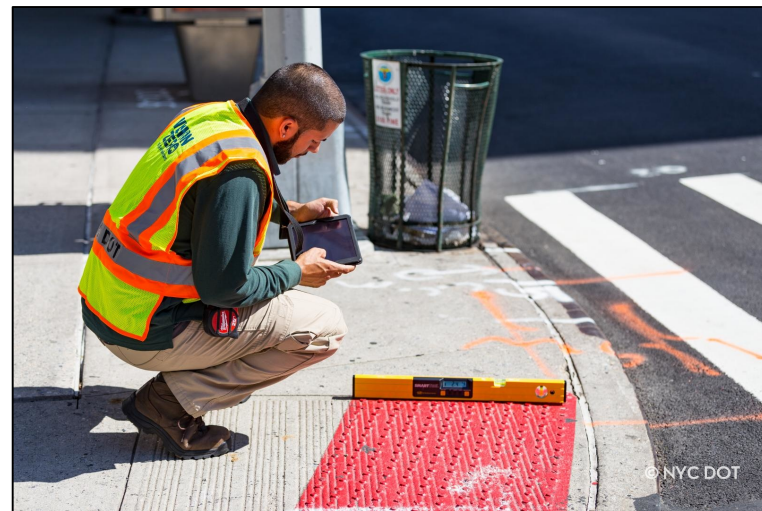
- Currently in the process of surveying all pedestrian ramps throughout the city to create a complete database of current conditions
- NYC has an estimated 320,000+ pedestrian ramps at locations including:
  - Corners
  - Medians and Pedestrian Islands
  - Midblock Crossings



# SURVEYING METHODS

## Utilizing New Technology for Large Scale Survey

- Using mobile LiDAR and automated processing technologies for baseline existing conditions data
- Will supplement with ground-based terrestrial LiDAR and smart level measurements where needed
- Completion of citywide survey anticipated for Fall 2019, with data coming in batches over the next year
- Process survey data to determine whether ramps are ADA compliant



# CATEGORIZATION AND WORK PLAN

## Automating Processes to Direct Work

- Automate process to bucket ramps into different categories for directing the work plan
- Ramps will be categorized based on the type of work required and the capabilities of in-house forces vs capital contracts
  - In-house – Simple construction
  - In-house – Signal pole relocation
  - Capital – Simple construction
  - Capital – Complex construction
  - Capital – Complex construction near transit infrastructure
  - Capital – Landmarked locations



# PRIORITIZATION OF OPERATIONS

## Organizing the Work Plan

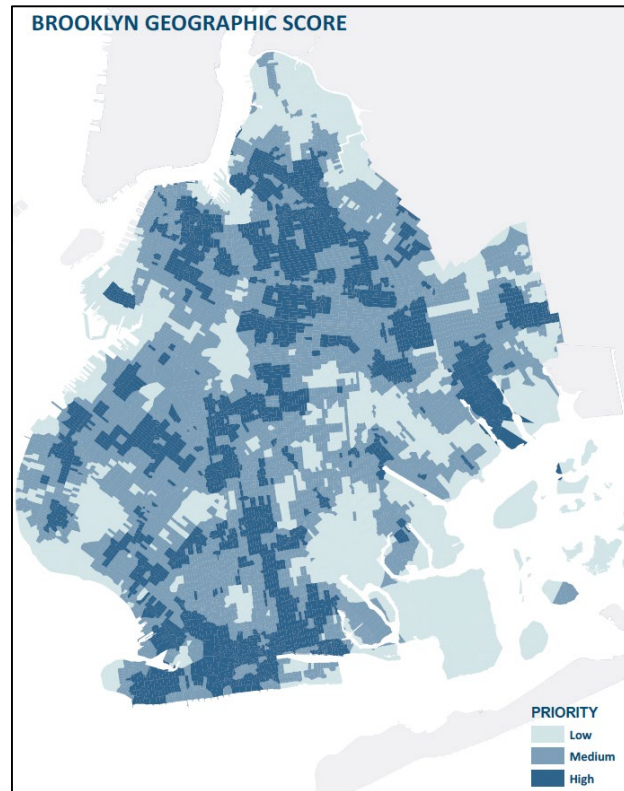
1. Resurfacing: Pedestrian ramps will be installed/upgraded on resurfacing stretches
2. Complaints: All complaint locations will be made safe and will be prioritized for upgrade or installation
3. In-House Crews: Pedestrian ramps will also be installed in coordination with street safety projects and at other locations where in-house crews are working
4. Additional Prioritization: Assign each corner a condition score and a geographic score to rank corners by need



# PRIORITIZATION ANALYSIS

## Scoring and Ranking Corners

- Prioritize work beyond resurfacing/complaint locations by ranking corners based on a score that combines existing conditions with geographic and demographic information
- A Condition Score will be calculated based on each ramp's physical characteristics in accordance with ADA 2010 standards
- A Geographic Score will be calculated to prioritize areas with greater geographic and demographic need based on:
  - High density of persons with ambulatory and/or visual disabilities
  - High density of senior citizens
  - Proximity to facilities and program sites
  - Proximity to transit/public transportation, with extra weight given to accessible subway stations
  - Additional factors, including parks/open space, Vision Zero priority geographies, etc.



# ADDRESSING YOUR CORNER

## Complaints

- Ways to contact DOT about specific pedestrian ramp issues:
  - 311 [nyc.gov/311](https://nyc.gov/311)
  - DOT Accessibility Coordinator Quemuel Arroyo  
[accessibility@dot.nyc.gov](mailto:accessibility@dot.nyc.gov)
  - Form on Ped Ramp website: [www.nycpedramps.info](http://www.nycpedramps.info)
- All corners in the City will be surveyed, assessed and addressed, if necessary, through resurfacing, complaints, and projects, as well as a prioritization analysis
- Weekly resurfacing scheduled can be found on DOT's website at  
<http://www.nyc.gov/html/dot/html/motorist/resurfintro.shtml>
- Prioritization information can be found on the website  
[www.nycpedramps.info](http://www.nycpedramps.info) as it becomes available



# NEXT STEPS

## Moving Toward a More Accessible City

- Processing survey data to direct work
- Ramping up annual pedestrian ramp construction:
  - Getting new in-house pedestrian ramps crews in place
  - Expanding the number of capital contracts for pedestrian ramps
  - Enforcing new ped ramp permits
- Significant coordination with other agencies and entities
- Public reporting on program progress



# THANK YOU!

---

Questions?



NYCDOT



nyc\_dot



nyc\_dot



NYCDOT