



FREIGHT CAN'T WAIT – OPPORTUNITIES TO IMPROVE EFFICIENCY OF LAST MILE DELIVERY IN NYC

FHWA Talking Freight Webinar

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ABOUT NYC DOT

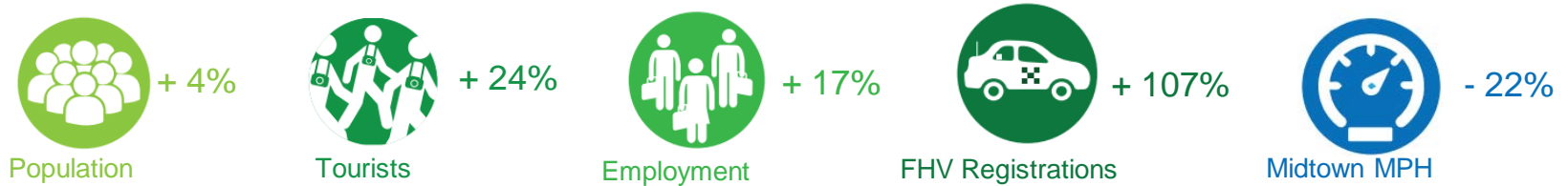
At a Glance

DOT's mission is to provide for the safe, efficient, and environmentally responsible movement of people and goods in the City of New York and to maintain and enhance the transportation infrastructure crucial to the economic vitality and quality of life of our primary customers, City residents.

- Over 5,000 employees
- Annual operating budget of \$900 million
- 5-year \$10.1 billion capital program,
- 6,000 miles of streets and highways,
- 12,000 miles of sidewalk,
- 794 bridges and tunnels, including the iconic East River bridges.
- Install and maintain over one million street signs, 12,700 signalized intersections, over 315,000 street lights, and over 200 million linear feet of markings.

CONTINUED GROWTH, DECLINING SPEEDS

Between 2010 and 2016, NYC has experienced a historic increase in its number of residents, tourists, for-hire vehicles, and jobs since 2010.

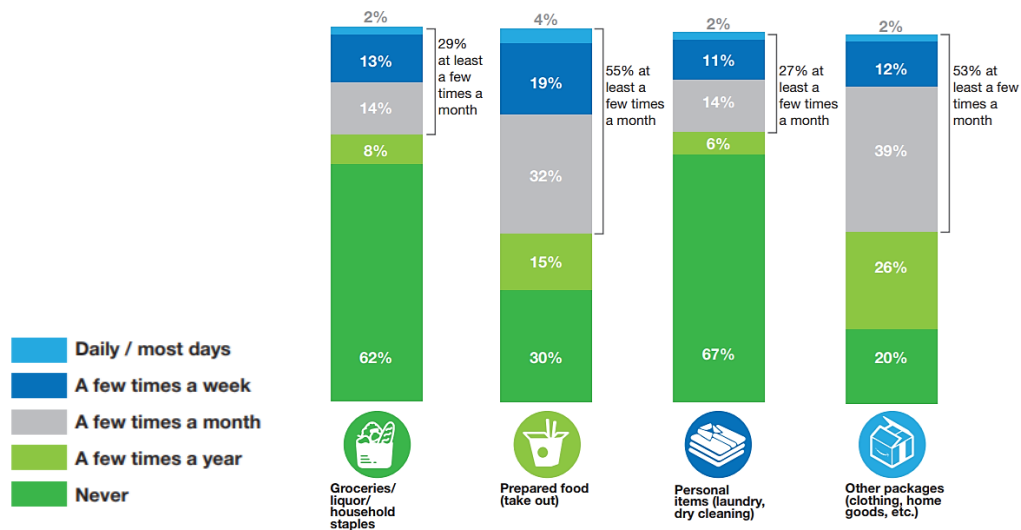


This growth and economic vitality has had especially evident impacts on travel speeds, particularly in Midtown Manhattan where speeds were down from an average of 6.4 mph in 2010, to just 5.0 mph in 2017.

EMERGING TRENDS AND DISRUPTORS

NYC: Freight & Home Delivery Trends

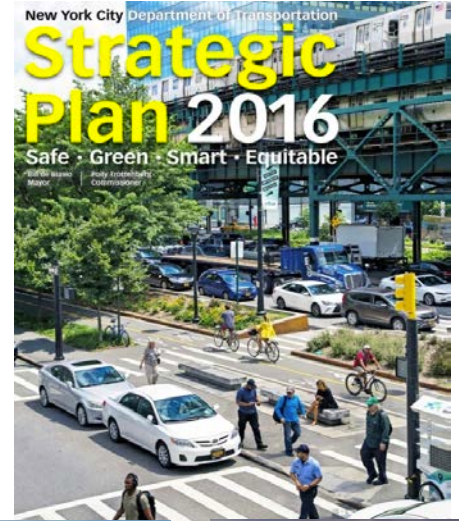
- Consumers desire faster and more reliable deliveries
- increased number and type of freight deliveries to buildings, establishments, and residential areas.
- Overall, 41% of New Yorkers receive a delivery at their home at least a few times a week.



FREIGHT MOVEMENT PRIORITIZED

Freight Goals

1. In partnership with the freight industry, **improve the safety, environmental performance, and economic efficiency of truck deliveries** across the five boroughs.
2. **Foster a culture of regulatory compliance** in the trucking industry.
3. **Expand partnerships with the freight and trucking industry** to encourage sharing of data to better manage truck movements throughout the City.



SMART TRUCK MANAGEMENT PLAN DEVELOPMENT

Guiding Questions

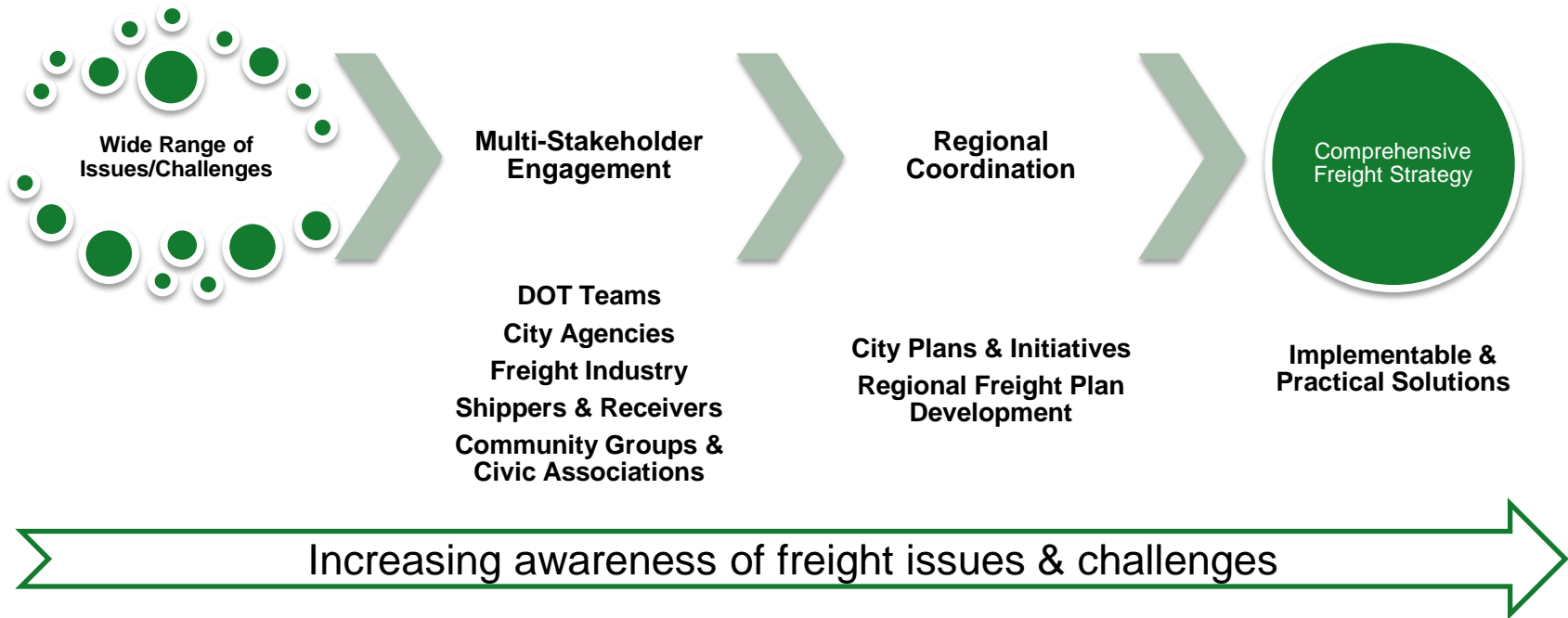


- 1 How can we improve freight mobility using the infrastructure we already have?
- 2 How can we help the industry succeed while reducing the negative externalities associated with freight activity?
- 3 How can we work in partnership with the freight industry and community?

* Not in priority order

STAKEHOLDER ENGAGEMENT

Process



SMART TRUCK MANAGEMENT PLAN



Vision & Goals

Enhance the **economic vitality** and **quality of life** for all New Yorkers by providing for the **safe, equitable, efficient,** and **environmentally responsible** movement of goods.

Safety

Improve the safety of truck travel within NYC

Sustainable & Responsible

Foster the sustainable and environmentally responsible movement of goods

Partnerships & Knowledge

Expand partnerships within the public and private sectors to increase awareness and understanding of freight activity

Efficient Freight Movement

Improve the efficiency of freight movement to, from, and within NYC

Initiatives, Emerging Pilots & Concepts

INTRA- & INTER-AGENCY COORDINATION

Bridge Strike Mitigation

Facilitates open discussion and coordination on issues surrounding bridge strikes and misplaced trucks. Focused on reducing short term infrastructural impacts with the ultimate goal of eliminating negative truck impacts to infrastructure in the long term.

Participating agencies:

- New York City DOT (Multiple Units)
- New York City Police Department
- New York State DOT
- MTA New York City Transit
- MTA Bridges & Tunnels
- PANYNJ



TRUCK'S EYE VIEW PROGRAM

Education & Outreach

- The TEV program demonstrates blind spots common around large trucks to the public in partnership with the private and public sector
- Increased public engagement from 1,750 in 2017 to 3,122 in 2018.
- Over 5,000 flyers shared with NYPD street teams; over 3,000 promotional items distributed to participants.



OFF-HOUR DELIVERIES (OHD) PROGRAM

Rethinking Delivery Schedules

Forward
Thinking.



Program Introduction

- Foster goods delivery off-hours between 7 pm to 6 am.

Program Goal

- Expand the OHD program to **900** new food and non-food, retail locations in NYC **by end of 2019**

Focus Areas: Prioritize those businesses in highly congested areas of New York City



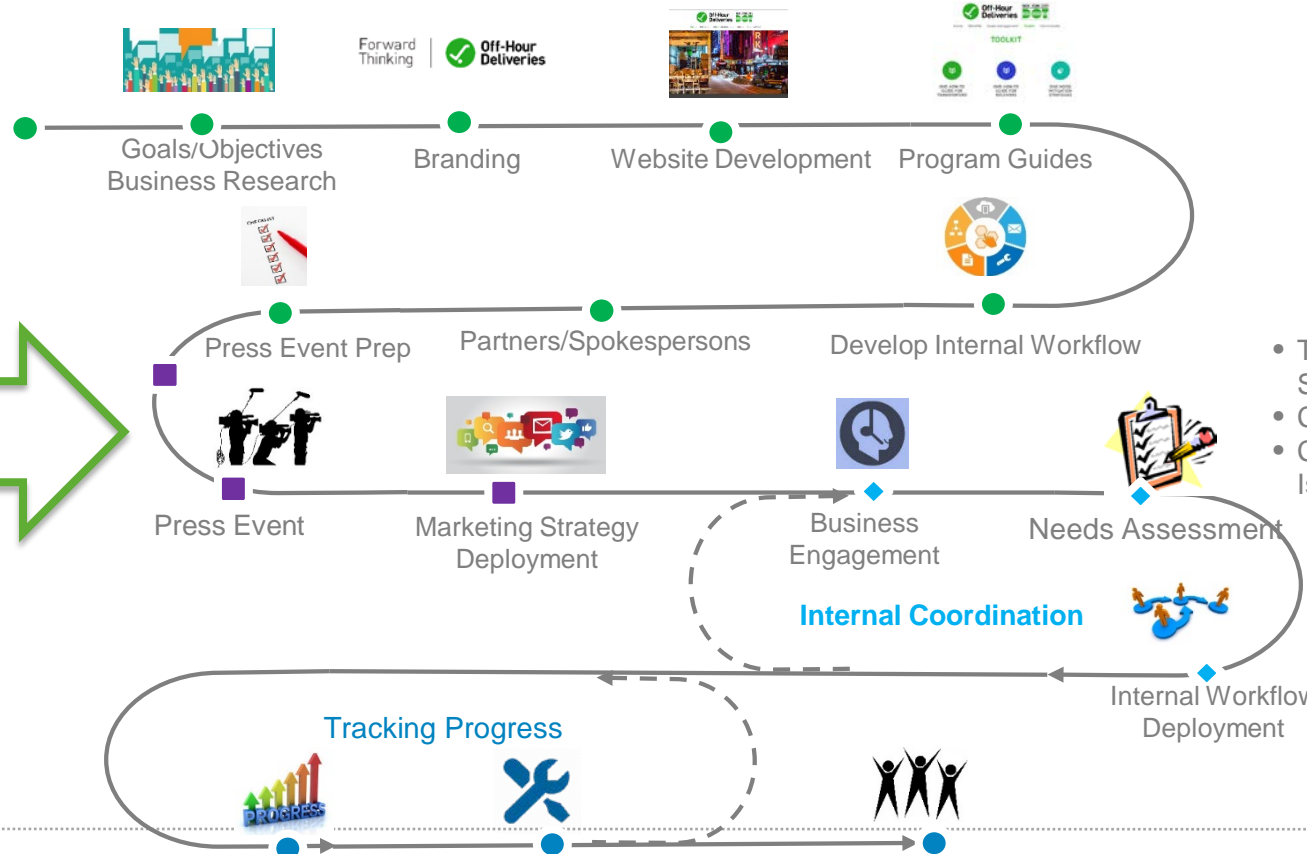
Midtown Manhattan: OHD program participant making a delivery during less congested times

OHD - ROADMAP TO 900

Forward Thinking



Pre Implementation
OHD Program Expansion
Launch
(2016-2018)



- Technical Support
- Curb Access
- Community Issues

We're Here: 2019
Launch

Periodic Program
Assessment

NYC DOT SUPPORT

Forward
Thinking.



- Support and resources from NYC DOT to implement OHD.
- **Support includes:**
 - Implementation & Noise Mitigation Guidance
 - Assistance with truck loading curb access
 - Facilitated discussions with multiple points in the supply chain (shippers, carriers and receivers)
- **Participant Recognition** for achievements, including through press conferences, events, news releases, social media outreach



OHD program participant making a delivery

REIMAGINED LAST-MILE FREIGHT DELIVERY

Zero Emissions: E-Cargo Bikes

- **Motivation:** reduce negative externalities of freight, support NYC sustainability efforts
- Cargo bikes for all types of goods: weight, volume (economies of scale), size, value and durability
 - Maneuverability
 - Infrastructure
 - Loading/Unloading Activity
 - Security of “Vehicle”
- **Goal:** Launch zero-emission pedal assist cargo cycles for last mile freight deliveries with industry partners
- **Steps Taken:** Summer 2018 - Clarification of pedal assist vs. throttle assist bicycles.
- **Next Steps:**
 - Need to provide additional clarification on cargo bicycles,
 - Work with industry partners for 2019 implementation



Image Sources: DHL, UPS, Revolution Rickshaw

OFF-STREET FREIGHT CONSOLIDATION

Reallocate off-street space for freight delivery

Goals: Improve freight delivery efficiency, reduce curbside dwell time by delivery vehicles and streamline freight delivery network

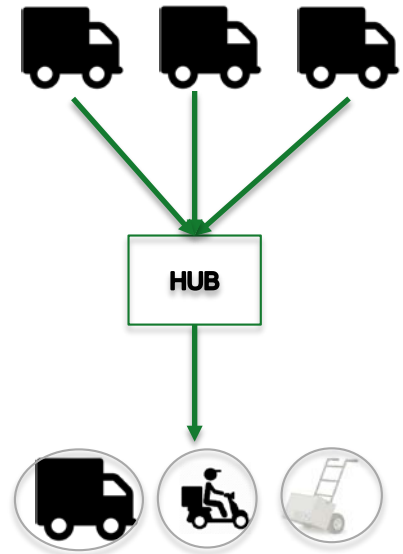
Timeline: 2019-2020

Objective(s):

- Test freight micro consolidation concept (See *DOT Strategic Plan*)
- Support Off Hour Deliveries implementation
- Identify the most efficient use of space, develop a plan for the last 50-ft delivery

Pilot Interests:

- Determine pilot scalability
- Gain feedback and interest from participating partners.
- Ease of delivery, effectiveness in reducing delivery time.
- Delivery parameter, method of delivery, involved parties (BID, 3PL etc.)
- Facilities alterations needed to accommodate other type of deliveries
- Operational Costs from participating partners based on agreements



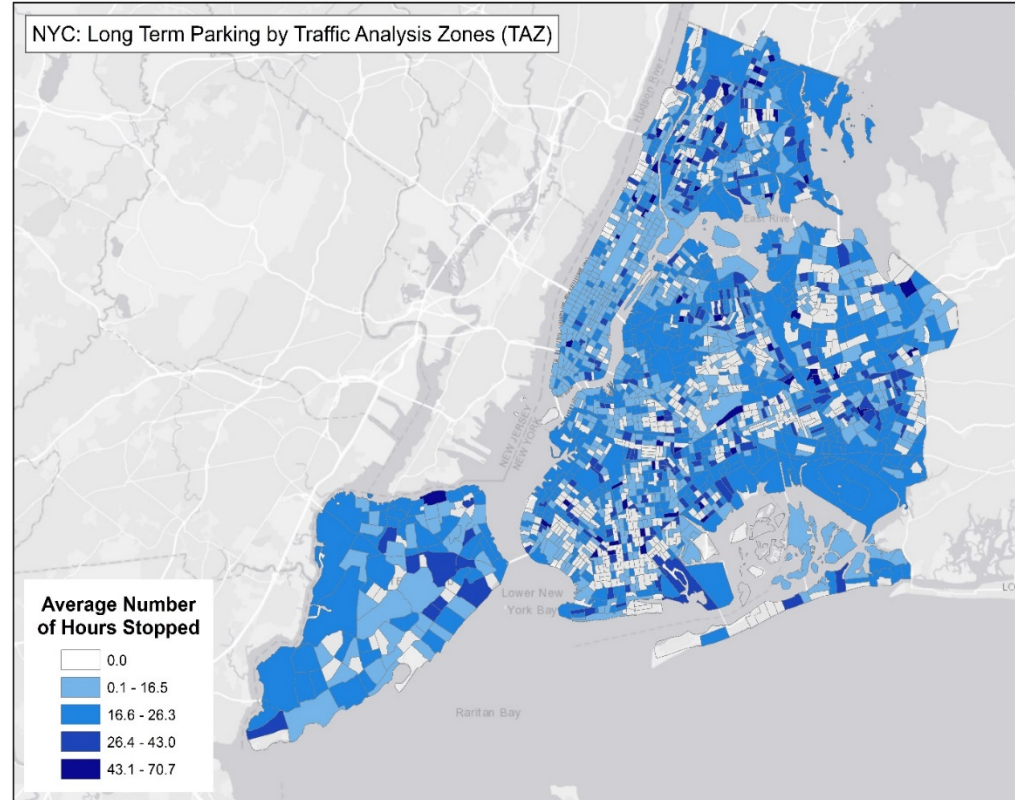
OVERNIGHT TRUCK PARKING

Issues:

- ELD Mandate Impacts
- Long Term Parking primarily concentrated in Industrial Business Zones
- Lack of Information: Capacity & Location of Private Lots
- Limited options for vacant land

Opportunities:

- Work with city agencies to identify solutions to mitigate overnight truck parking in residential areas
- Public-Private Partnerships key
- Establish Truck Parking Information Management System



ADDITIONAL STRATEGIES

- Improve Commercial Vehicle Access to the Curb by providing more loading opportunities
- Work with the private sector to facilitate off-street consolidation or off-hour delivery/storage facility
- Evaluate opportunities to work with buildings and property owners develop Delivery & Service plans
- Explore use of Shared Use Lockers
- Promote voluntary vendor procurement consolidation programs

THANK YOU!

Contact:

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NYC Truck Initiatives : www.nyc.gov/trucks

Office of Freight Mobility: 212-839-6670

Acknowledgements:

ARUP

HR



Forward
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**Off-Hour
Deliveries**

Learn more about the OHD Program

Email: ohdnyc@dot.nyc.gov

Website: <https://www.ohdnyc.com>



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