



Freight Initiatives June 2022

NYC / EDC

Agenda

- Modernizing Freight Distribution
- Freight by Water: Marine Highways
- Landside Innovations
- Next Steps

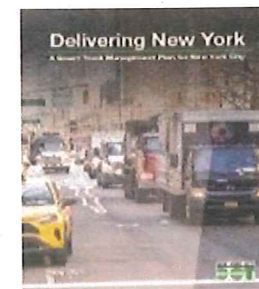
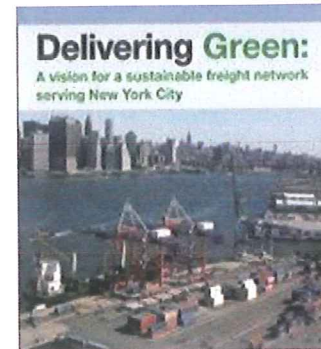
Modernizing Freight Distribution

EDC is committed to helping NYC achieve its Freight Goals:

1. Make the last mile more efficient
2. Greening the supply chain
3. Foster a culture of compliance
4. Shift freight from road to rail
5. Shift freight from road to water

EDC advances these goals through :

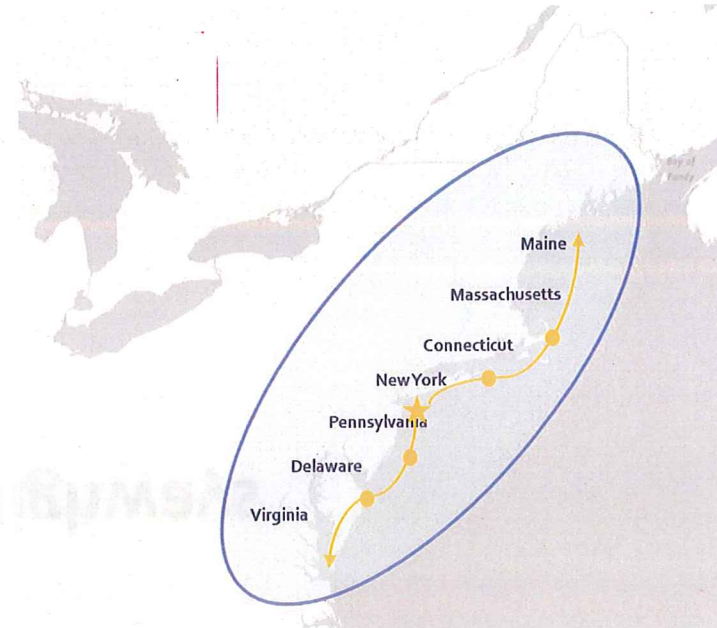
- Activating EDC sites for marine highway usage
- Developing sites for rail freight



Freight by Water: Marine Highways

Marine Highways: Opportunity to Deliver by Water

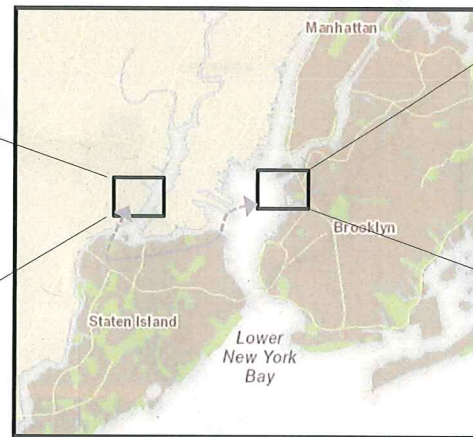
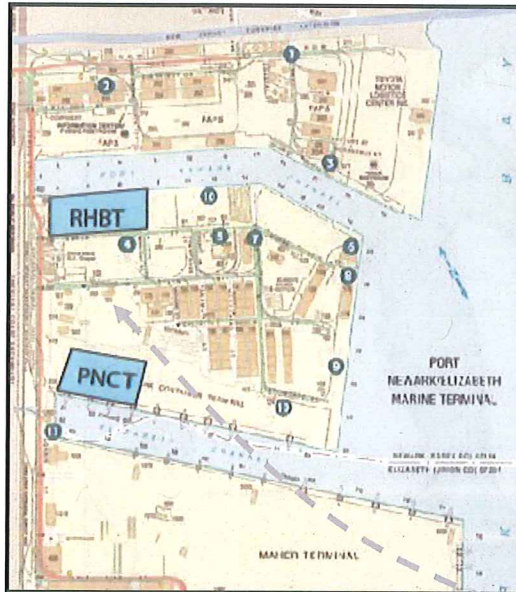
- Marine Highways are **navigable waterways** with the potential to relieve traffic congestion resulting from movement on land
- Since EDC helped the city receive federal recognition as a Marine Highway, EDC can **leverage the City's waterfront assets** to develop marine highways
- Waterfront sites **create space for alternative last and second-to-last mile delivery operations** that shift delivery from land-based truck dependency to water-based delivery systems



North Atlantic Marine Highway Alliance (M-95) connecting NJDOT, Port of Virginia, Port of Albany, Port of Maine, Connecticut Ports, UPS, Red Hook Container Terminal

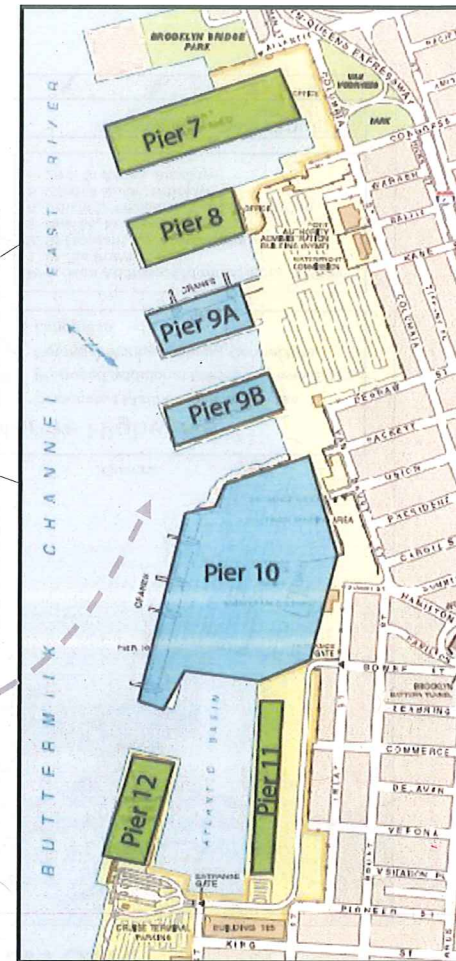
Existing marine highway service

Newark, New Jersey

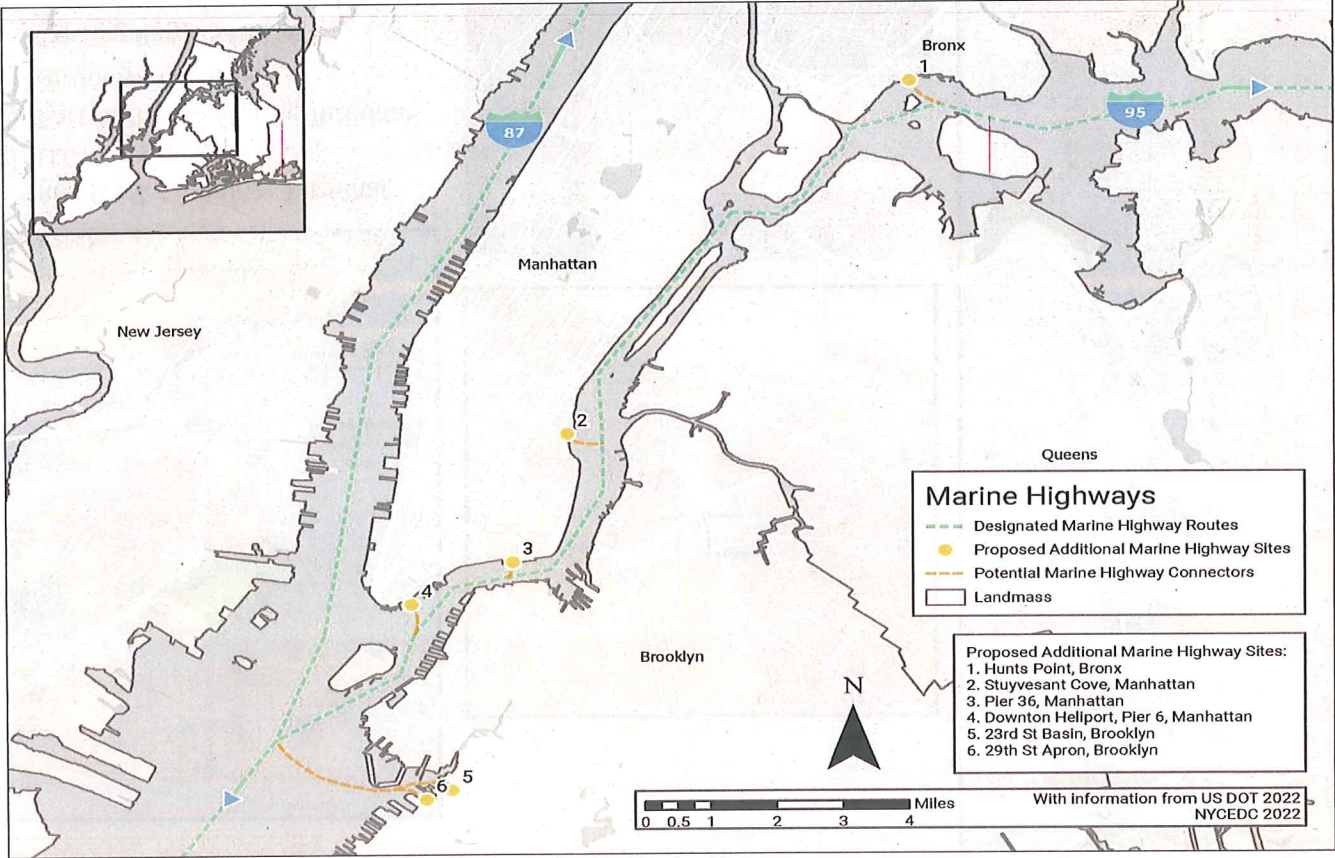


- Red Hook Container Terminal, LLC
- Port Authority Marine Terminal (Brooklyn Piers)
- Existing Barge Service

Brooklyn, New York



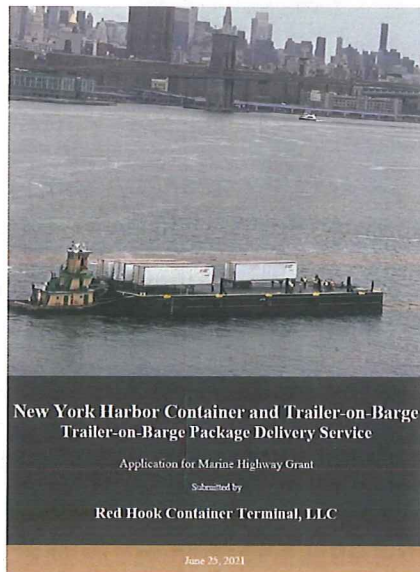
Marine Highways: Potential Regional Network



Second-to-Last Mile Marine Highway Types

EDC's larger waterfront sites can be used for trailer and container-barges, which are water-based transportation used for second-to-last-mile delivery.

Trailer-on-barge (Roll on-roll off)



Container-on-barge (Lift on-Lift off)



Second-to-Last Mile Marine Highway Types

A recent example of this usage is the UPS Container-on-Barge pilot

- Under EDC's Marine Highway Designation, Red Hook Container terminal received a \$1.4 million grant to pilot the **trailer-on-barge** concept for UPS
- This Container on Barge would move **deliveries between Red Hook and Newark** via water
- Helps advance **larger scale operations** between New Bayonne and Red Hook terminals



Michael Stamatis • 1st
President and CEO at Red Hook Terminals
1w • Edited •

Another important milestone completed on Friday in the development of our cross harbor trailer on barge ro-ro service! Thank you to UPS, Hughes Marine, Stasinios Marine and NYCEDC for participating in this successful demonstration across the harbor.



UPS Public Affairs on Twitter

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Last Mile Marine Highway Types

eQuads and eWalkers can be used to meet a barge for last mile delivery

- Ferry landings and DockNYC sites can be activated for last mile delivery marine highway types
- Last mile delivery to local users from distribution facilities can use eQuadricycles and eWalkers (pictured right), or cargo bikes, which are **smaller and more sustainable** wheeled delivery systems driven like a bike or pushcart
- Equads can either meet a barge and complete the last mile of delivery or be transported directly over water by barge or boat



Last Mile Marine Highway Types

Lift On Lift Off technology can be used to transport foods such as food and perishables

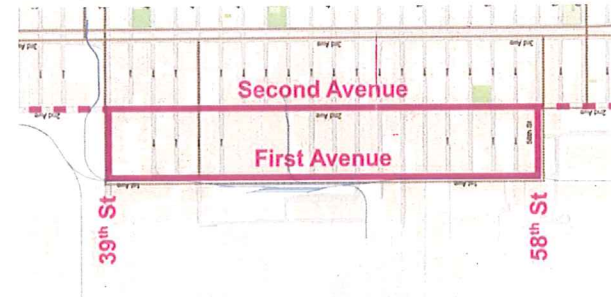
- Vessel is equipped with a crane and refrigeration/cold storage for food and perishables.
- The small vessel size allows it to be used to serve more areas



Landside Innovations

Reducing Traffic Through One-Way Flow in Brooklyn

- One-way flow reduces street congestion by **improving traffic flow and safety** for pedestrians, bicyclist, and vehicles from large vehicles (e.g. trucks)
- Leaves **more space for rail freight operations** and **reduces trucks** on the road
- In Sunset Park, converting 1st And 2nd Ave into one-way streets will improve traffic flow and air quality



Upgrading Rail Infrastructure in Queens

- A new cargo handling facility on LIRR property in LIC, Queens will better support rail operations within the supply chain
- Reduce emissions by eliminating inbound truck trips
- Contributes to addressing climate change goals
- Intended to serve smaller businesses that pay inordinately high prices to have their product trucked in



Thank You!

Questions?

Next Steps: Multi-agency coordination

Advancing existing freight program recommendations

- Continue to implement and expand multimodal freight programs recommendations emanating from Delivering New York, Delivering Green and FreightNYC.
- Actively engage with PANYNJ and other agency partners
- Release RFEIs/RFPs:
 - **Micro-distribution Centers**
 - **Marine Highway service at DockNYC and other city sites**
- **Launch trailer-on-barge pilot with Red Hook Container Terminal**
- **Support industry pilots for water-based freight and zero-emissions transportation of goods**
- **Identify funding for landside street improvements (eg. One-way pair)**
- **Pursue federal funding opportunities to develop infrastructure for the NYC marine highway, and broader truck electrification**

Next Steps: Multi-agency coordination

Coordination and Engagement

Last-Mile Facilities Assessment

- Coordinate with agency partners (including DOB) to monitor and catalog new last-mile facilities in real-time.
- In coordination w/ PANYNJ, continue assessing the local, citywide, and regional impact of last-mile facilities, and analyze needs, develop multi-modal strategies and recommendations to mitigate effects.
- Engage developers and the freight industry to better understand their needs and priorities.
- Research best land use and transportation practices used by peer cities and determine how they might apply to New York City

Next Steps: Multi-agency coordination

Studies – Active & New

- **(Active) Red Hook Coastal Resiliency Project** in continued coordination with DDC and other agencies, this capital project will reduce coastal flood risks for the Red Hook community by constructing defensive floor protection along the waterfront. (In Design Phase)
- **(New) Red Hook neighborhood transportation study** in coordination with DCP, DOT will comprehensively examine traffic and truck issues in the Red Hook neighborhood, including a trip generation survey of last mile distribution centers to evaluate its impact on traffic **(Begin: Fall 2022)**
- **(New) Sunset Park/3rd Avenue Study:** DOT will begin a study for safety improvements on 3rd Avenue from Prospect Ave to 65th Street. This study will be included as part of the Gowanus POA consultant study and closely coordinated with the Red Hook Traffic & Truck Study. **(Begin: Fall 2022)**

