



GLOBAL
CONTAINER
TERMINALS
USA

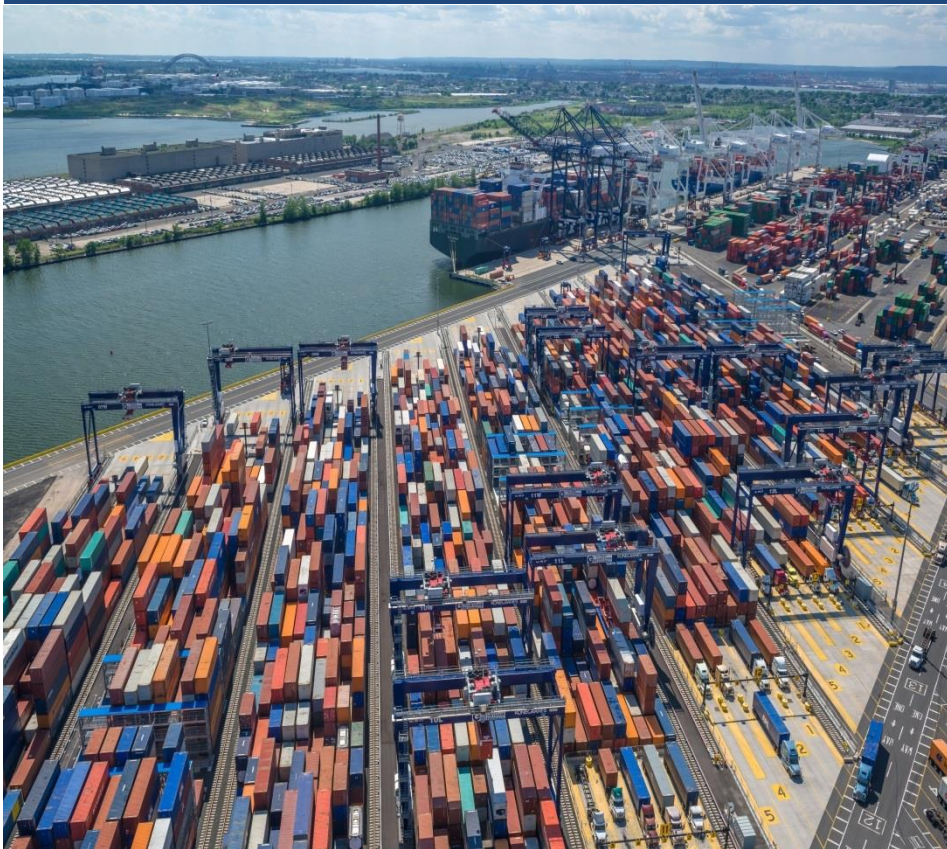


GCT Bayonne – Appointment System

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- 1. About GCT**
- 2. America's East Coast Gateway and GCT USA**
- 3. Truck Emissions Reduction**
- 4. GCT Bayonne Truck Turn-times**
- 5. Summary**



Global Container Terminals At a glance



GCT CANADA



with further reach



Leading industry transaction times:
NIGHT GATE

Strategic Class 1



GCT Vanterm
GCT Deltaport

GCT Bayonne
GCT New York

GCT USA



of terminal operations in North America





Port of New York and New Jersey

- Home to most affluent consumer market on the East Coast
 - 30mm people within 2 hours of the port complex
- 6.6mm TEUs handled in 2017
 - 86% or 5.7mm TEUs of total volume moved by truck

GCT USA

- Operates 2 terminals in NY/NJ, with GCT Bayonne:
 - Semi-automated, most advanced container terminal on the East Coast
 - Handled 16% of NY/NJ volume, or over 1.1mm TEUs of truck moves



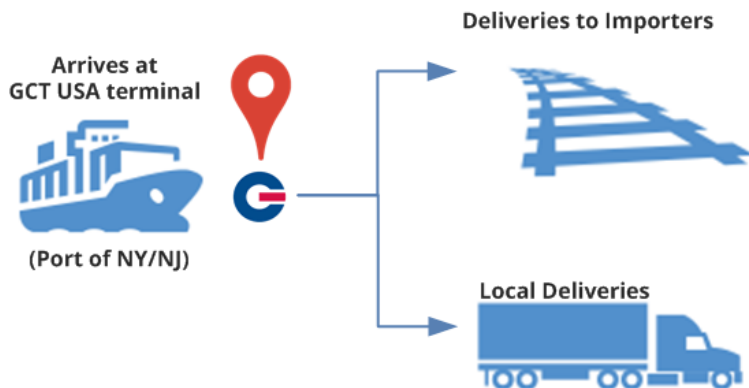
GCT leads N. America in implementing truck reservation systems

Award-winning GCT Bayonne features state-of-the-art equipment and processes

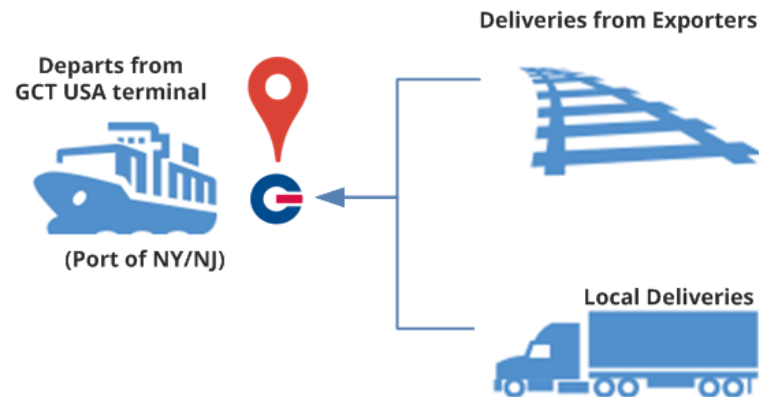
- Reflected in the 96% score for its 2016 Green Marine verification
- In collaboration with stakeholders, implemented the first true truck appointment system in NA
- Voluntary introduction ahead of all other terminal operators in the port



IMPORTS TO THE US



EXPORTS FROM THE US



Truck reservations reduce emissions in this mode



Problem Definition

- Historically, motor carriers line up for service on an ad-hoc basis
- Truck arrivals unpredictable, causing congestion from idling

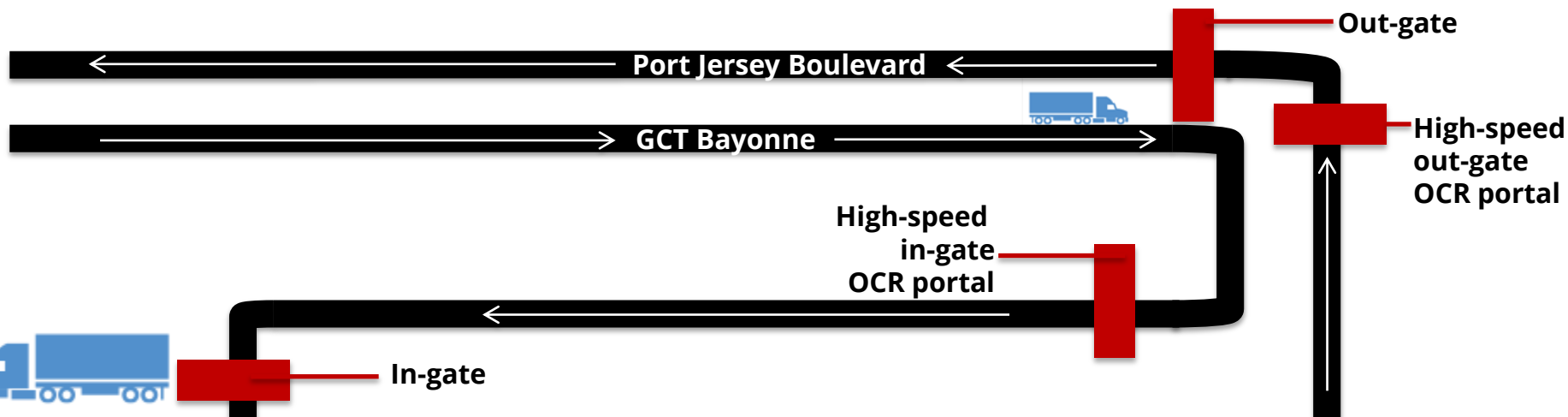
Why truck reservations?

- Reduce truck idling
- Introduce discipline into truck queuing at the terminal
- Smooth street traffic during peak hours
- Improve terminal capacity within same footprint
- Eliminate unnecessary equipment



“Turn time” refers to the amount of time drayage trucks spend at a container terminal in minutes and is impacted by:

- Terminal design
- Resources deployed
- Technology & processes
- Appointment systems





How did we do this?

1. Multi-year collaboration with the Council for Port Performance
2. Funding and support from the Sustainable Terminal Services Group
3. Stakeholder enhancements to build versatility and high user-acceptance
4. Priority scheduling and traffic metering
5. Phased introduction
6. Consistent truck turn-times

This in turn:

- Innovated how trucks are processed
- Influenced supply chain behavior



GCT Bayonne Truck Turn Times 2017 Results



Led port of NY/NJ and introduced a staged, truck reservation system

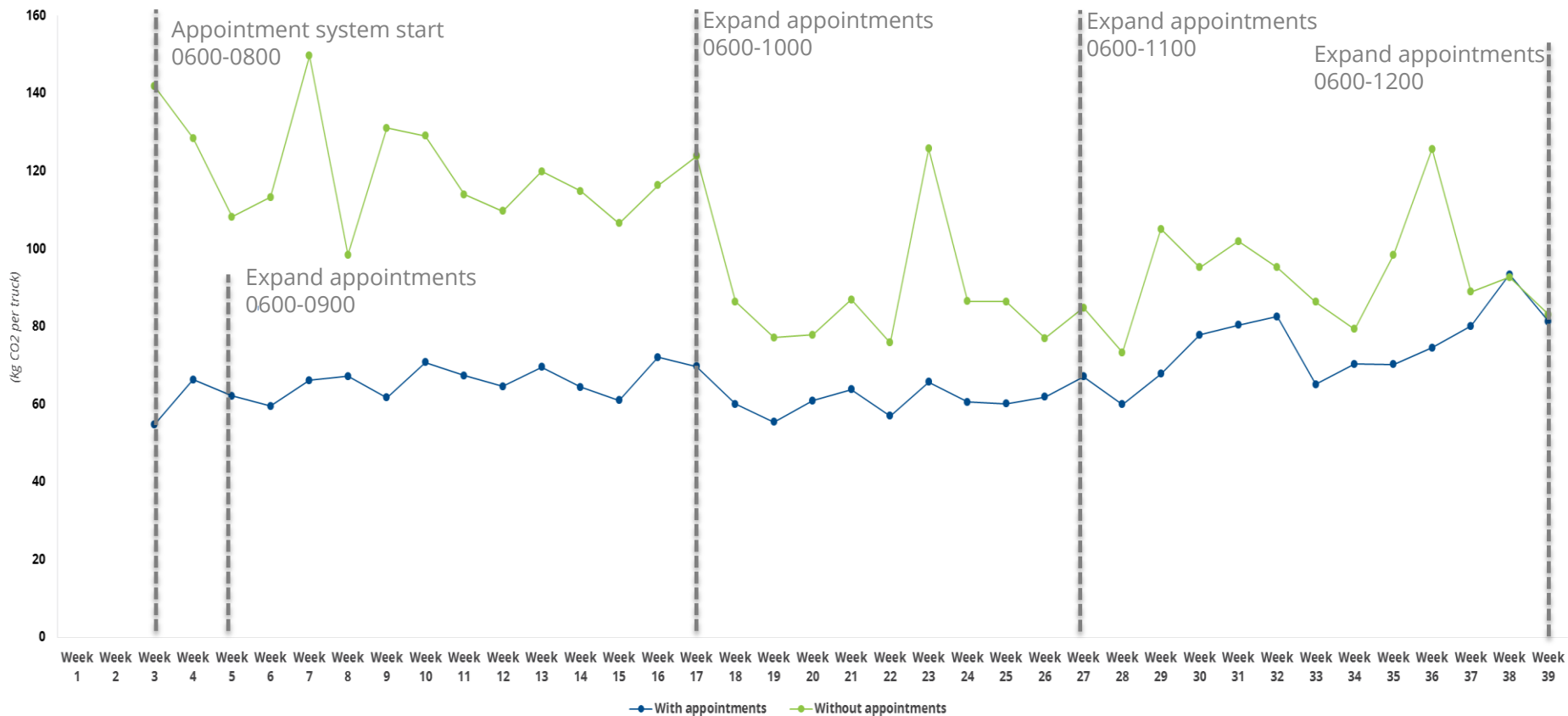
- Jan 15 Mandatory appointments 0600-0800
- Jan 25 Expanded mandatory appointments 0600-0900
- Apr 20 : 0600-1000
- Jun 28 : 0600-1100
- Sep 20 : 0600-1300

RESULT: 40+% reduction in truck turn times vs non-appointment times



GCT USA

GCT Bayonne Total Idle Truck CO₂ Emissions/wk



40+% turn time reduction equals:

Truck Reservations	YTD Impact (Week 39)	Annualized Impact 2017
CO ₂ Emissions Reduction	12,737 tonnes/year	19,671 tonnes/year
Air Pollutant Reduction	36,488 kg/year	56,351 kg/year
Fuel Cost Savings	USD \$3.2mm/year	USD \$4.95mm/year
Passenger Cars Off the Road	2,710	4,185
5-gallon buckets of Soot Removed	3,637	5,618

Where do we go from here?

1. Continued expansion of reservation system.
2. Development of ExpressRail Port Jersey.



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Thank You !



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