

The Coalition for Responsible Transportation

Northeast Diesel Collaborative
2015 Partners Meeting

+ Who is the Coalition for Responsible Transportation?

- CRT is a US EPA award-winning national coalition of leading cargo owners, trucking companies, ocean carriers, railroads and ports
- Dedicated to partnering with ports across the country to demonstrate the environmental responsibility of our industry by implementing emission reduction initiatives
- Only shipping industry association in the country dedicated primarily to environmental sustainability







The two paths to supply chain emission reductions



- Capital investments in clean technology
 - Result in substantial air quality improvements
 - Capital intensive: little (if any) Return on Investment
 - Limited public and private sector financial resources
- Process improvements and efficiencies
 - Large opportunity for emissions benefits
 - Cost savings create powerful ROI incentive for market participants





CRT National Terminal Efficiency Initiative



- CRT led initiative to reduce chronic port congestion through solutions that improve terminal and drayage truck management
- Reduce truck turn times and queue times, and improve environmental performance
- Provide cost savings to cargo owners, terminals, and truckers by increasing the throughput and efficiency of container moves



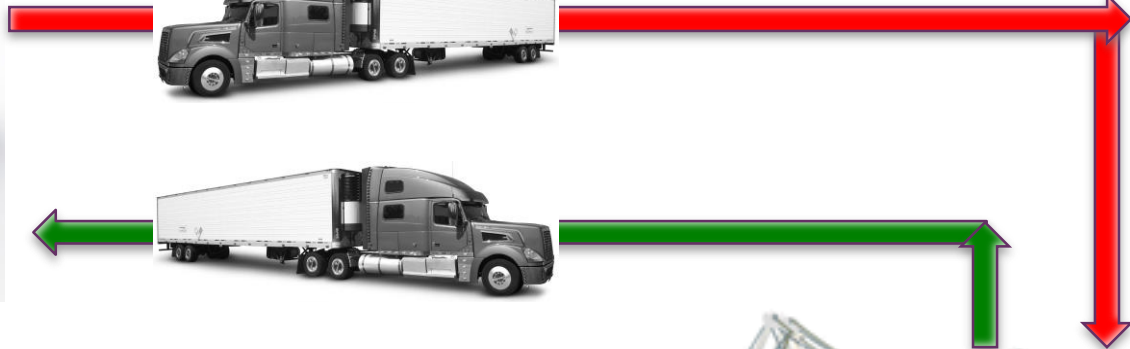
Process Solutions Overview

- + Import/Export Container Matching
- IT Solutions to Facilitate Improved Truck-Terminal Interface



Current Import/Export Flowchart

Import Warehouse



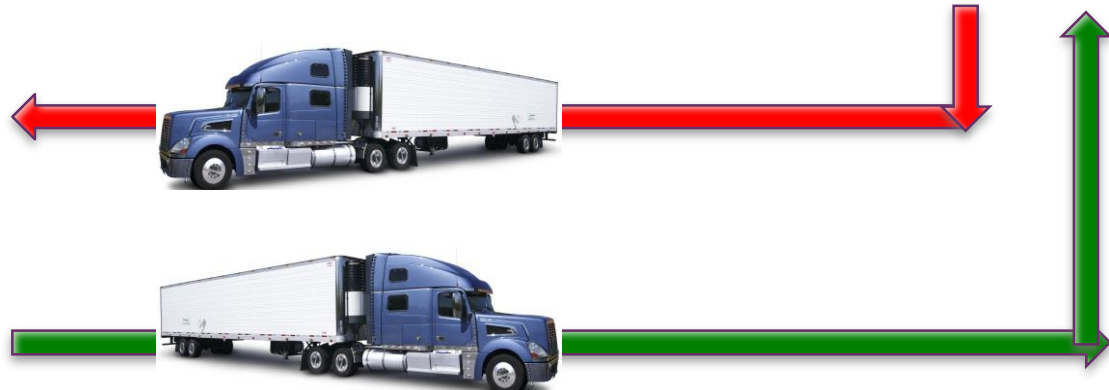
Loaded Trip



Empty Trip



Export Warehouse





Optimized Import/Export Flowchart

Import Warehouse



Container Match



Export Warehouse

+ Practical Impacts of Import/Export Container Matching

- Reduced Diesel Emissions
- Reduced Fuel Consumption
- Reduced Cost to Importers and Exporters
- Higher Per Trip Income to Truckers
- Reduced Truck Congestion on Highways
- Reduced Truck Congestion at Terminals





Metrics of Container Matching: Southeast Streamline Case Study



Import From Port of Savannah to Lowe's NC
Distribution Center-Container Matched to NC
Lumber Exporter

- 659 Empty miles removed from supply chain
- 132 Gallon reduction in diesel fuel consumption
- \$330 fuel cost savings
- 1.15 metric tons of CO₂ removed from supply chain





Freight Advanced Traveler Information Systems (FRATIS)



- CRT partnership with US Department of Transportation at the Ports of LA and Long Beach
- Advanced technology platform to share information between drayage trucks and terminals
- Terminals receive day-ahead info on truck visits, reducing trouble tickets and allowing for advanced labor planning
- Containers are pre-positioned in yard allowing for expedited pickup
- Trucks receive real-time traffic and terminal queue information, reducing delay



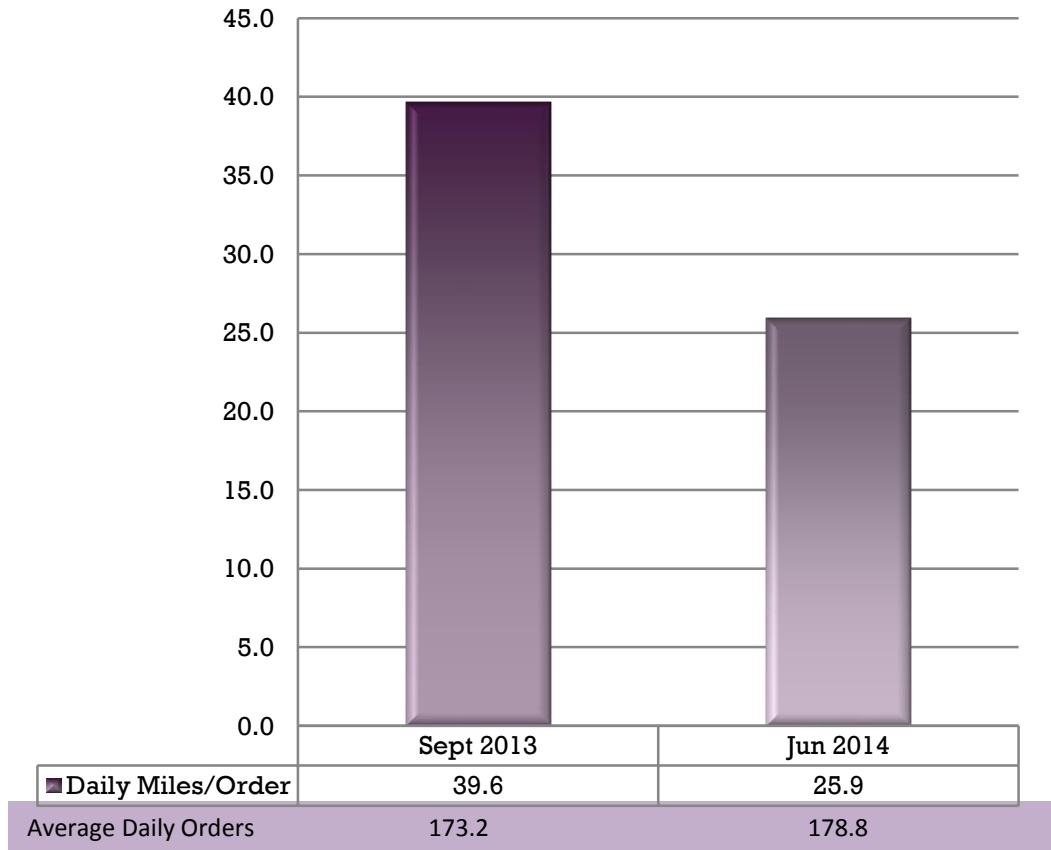


FRATIS Preliminary Snapshot

Two-month Comparison - Average Miles per Order



Average Daily Miles per Order

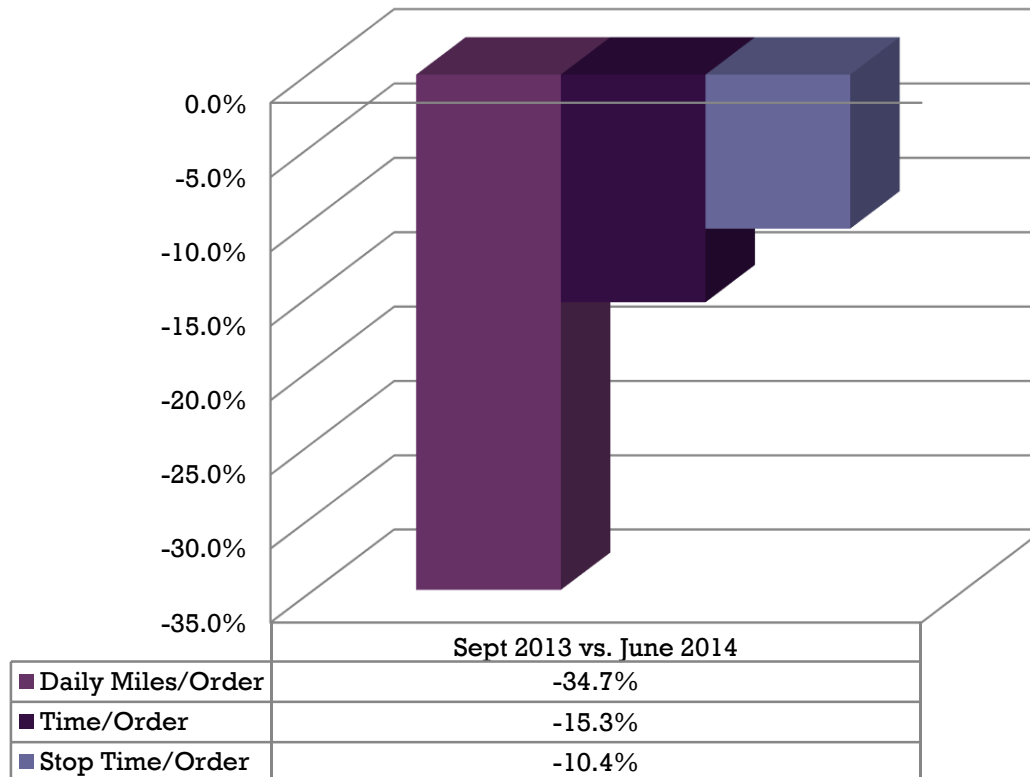




FRATIS Preliminary Snapshot

Two-month Comparison - Metrics Per Order

FRATIS LA Data Comparison: Sept 2013 vs. June 2014



+ Benefits Across the Supply Chain



- Reduced costs and increased velocity to BCOs
- Increased trucker productivity
- Reduced costs and increased velocity for MTOs
- Substantial Environmental Benefits





The Coalition for Responsible Transportation

For more information, please visit: responsibletrans.org

Or email: info@responsibletrans.org