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

<table>
<thead>
<tr>
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<th>Sept 2013</th>
<th>Jun 2014</th>
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<tbody>
<tr>
<td>Average Daily Orders</td>
<td>173.2</td>
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<tr>
<td>Average Daily Miles/Order</td>
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FRATIS Preliminary Snapshot
Two-month Comparison - Metrics Per Order

FRATIS LA Data Comparison: Sept 2013 vs. June 2014

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<tr>
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<tr>
<td>Daily Miles/Order</td>
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<tr>
<td>Time/Order</td>
<td>-15.3%</td>
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<td>Stop Time/Order</td>
<td>-10.4%</td>
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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