IntelliPort
Scheduling End-to-End Logistics For Port Operations

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What does IntelliPort do?

- Optimized Appointment System using Artificial Intelligence
- Reduces the Congestion on Terminals by Balancing traffic
- Creating Optimal Dual Transactions to increase throughput
- Ideal Utilization of Container yard using Stacking Algorithm
- Real-time Visualization of Key Performance Indicators to support decision making
Information Flow during one Transaction

- Data
- Container #
- Customer #
- Truck RFID
- Date

Accept/Delay/Expedite

- Delay/Estimated Arrival
- Picked
- In Transit
- Drop off

BCO

- Trucker

Delay 1/2/3 days

Y N

Trucker

LA THE PORT OF LOS ANGELES

Accept Delay Expedite
Initial Scheduling Process

Variables

- The time difference in date of import and current date: 35%
- The volume of inventory staying on the port: 15%
- Reliability of Transportation (Ratio): 15%
- Custom Record Clean or not: 5%
- Customer Power (The volume of business): 20%
- Times of Delays and Expedites (ratio): 10%

Our first stage

Backend Algorithm
How the Brain works?

1. Schedule Container dispatches based on 1st Stage algorithm keeping capacity trucks/hour as constraint.

2. Export and Import transactions on same / close dates under same trucking company scheduled are matched together.

3. Send the new schedule to customers and collect feedback A/D/E

4. Matching the records with Delays/ Expedited feedbacks again, assign the new appointment for another Dual or nearest Vacant schedule.

Container Dispatch records with Container#, Customer#, Truck #...

1st Stage backend Algorithm Metrics
IntelliPort

**One-Way Transaction**
Peak Hours

- 47.45 minutes
  Turn time for terminal operator
- 114.45+ minutes
  Turn time for trucking companies

**Dual Transactions With IntelliPort**

- 30.15 minutes
  Turn time for terminal operator
- 97.15+ minutes
  Turn time for trucking companies

- 17 mins of
  Time Saving Per Transaction
- 21% More generating of Transaction
- 12 Million More Revenue Per Terminal
THANK YOU