AAPA Smart Ports Seminar – March 6-7, 2018
Eric Napralla – Port of Oakland
Port of Oakland by the Numbers

- 4 marine terminals in operation
- 3 terminal operators – SSA, Everport & TraPac
- 33 Cranes of which 23 are Port-owned
- 2.42 million TEU handled in 2017
- 20 ocean carriers with service to/from Oakland
- 1,600 vessel calls in 2017
- 2nd busiest container terminal in the United States, in number of daily gate moves
Mega-Ship Era
Marine Terminal Consolidation
<table>
<thead>
<tr>
<th>Category</th>
<th>1999</th>
<th>2017</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Largest Containership</td>
<td>8,000 TEUs</td>
<td>21,000 TEUs</td>
<td>+163%</td>
</tr>
<tr>
<td>Number of Marine Terminals</td>
<td>11 terminals</td>
<td>6 terminals</td>
<td>-45%</td>
</tr>
<tr>
<td>TEUs Handled</td>
<td>1.69 million TEUs</td>
<td>2.37 million TEUs</td>
<td>+40%</td>
</tr>
<tr>
<td>Number of Ocean Carriers</td>
<td>44</td>
<td>25</td>
<td>-43%</td>
</tr>
<tr>
<td>Average Terminal Size</td>
<td>49 acres</td>
<td>153 acres</td>
<td>+212%</td>
</tr>
<tr>
<td>Largest Marine Terminal</td>
<td>81 acres</td>
<td>271 acres</td>
<td>+248%</td>
</tr>
</tbody>
</table>
October 2017 – Densified
Operational Impacts
Port Efficiency Task Force

- Port convened multi-stakeholder work group in 2015 to develop/implement operations and technology-based efficiency measures:
  - Extended Marine Terminal Truck Gate Hours
  - Appointment Systems
  - Chassis
  - Truck Wait/Turn Time Metrics
  - ILWU Workforce Growth
  - Central Valley Depot
  - Customer Portal
  - Freight Intelligent Transportation Systems (FITS) Initiative
Truck Wait/Turn Time Metrics

• Truck street wait and truck terminal turn times are a good indicator of marine terminal performance.

• From 2016 to mid-2017, the Port introduced and utilized a Bluetooth traffic measurement system to provide truck street and terminal turn times.

• Port is currently evaluating additional GPS and RFID-based solutions for long-term use.
Customer Portal

• All Port of Oakland marine terminals use various features of eModal for their customer interface.
• Current features include:
  • Terminal information
  • Appointment system
  • Fee collection
  • Import container track and trace
  • Vessel schedules
  • Drayage truck registry feed
Customer Portal

• Port working with Advent to create one system of record for the Port of Oakland:
  • Expand eModal utility for utilization by ALL supply chain stakeholders
  • Ensure data consistency, accuracy for OAK MTO’s
  • Launch new Oakland-specific URL/website
  • Digitize and streamline landside operations
  • Transparency will drive ops efficiency and cargo velocity
Customer Portal

PORT OF OAKLAND

User

Password

Remember Me

Forgot your Password?

LOGIN

Don’t have an account? Register Now.

oaksupport@emodal.com

877-994-1680

Supported by eModal

PORT OF OAKLAND SEAPORT
SSA Marine
EVERPORT TERMINAL SERVICES
TraPac
Carrix Enterprise
Customer Portal
Freight Intelligent Transportation Systems (FITS) Initiative

- Improve traffic flow/goods movement and reduce congestion/emissions to/from the Port’s marine terminals

- Project Sponsor

- Project Partners

[Logos and affiliations]
FITS Phase 1

- Communications (Fiber)
- CCTV Upgrade to HD
- RFID Readers
- Joint TMS/EOC
- Changeable Message Sign Boards
- Truck Queue Detection
- Traffic Signal Upgrades
- Basic GoPort Web/Mobile Application
FITS Phase 2

- Communications (Wi-Fi)
- Supplemental Vehicle Detection (speed)
- C2C Communications
- Advanced Train Detection System
- Weigh-In-Motion Technology
- Basic Smart Parking
FITS Implementation

• Current Schedule
  • 35% Design - Q2 2018
  • 100% Design – Q2 2019
  • Start Construction – Q4 2019

• Current Finance Plan
  • Design
    • Measure BB (County)
  • Construction
    • Advanced Transportation & Congestion Management Technologies Deployment (Federal grant)
    • Port Security (Federal grant)
    • Measure BB
Contact Information

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Your Port. Your Partner.