Setting the Stage: Critical Issues Facing Public Ports

Dr. Noel Hacegaba
Acting Deputy Executive Director and Chief Operating Officer
The Port of Long Beach
Nation’s second-busiest container port, a gateway for $155 billion in trade, supporting 316,000 regional jobs
Big Ships Coming
Of new vessels on order, nearly half of capacity will come from 10,000-TEU-plus ships.

Source: Alphaliner, June 2013
12,500-TEU Ship
The MSC Fabiola arrived in March 2012.
13,000 TEUs
The MSC Altair came in July 2012.
Largest to Call North America
The 13,800-TEU MSC Beatrice came in Sept. 2012 – too wide to pass through the expanded Panama Canal.
Panama Canal Expansion

Currently
- Max Length: 965 feet
- Max Draft: 39.5 feet
- Max Beam: 106 feet

After 2015
- Max Length: 1,200 feet
- Max Draft: 50 feet
- Max Beam: 160 feet
As Tall As...

USS Nimitz (1,092 ft.)

7,100 TEU Ship (965 ft.)

Empire State Building (1,454 ft.)

Boeing 747 (1,392 ft.)

14,000 TEU Ship (1,250 ft.)
As Wide as…

A 14,000-TEU vessel is 167 feet wide, larger than a 10-lane freeway.
Deep Seas

The draft of a 14,000-TEU ship is 49 feet – the equal to a five-story building.
Giant Cranes
To work the biggest ships, cranes must stand 180 feet over the water, and reach nearly 200 feet across the vessel.
Really Big Ships
Maersk and China Shipping have ordered 18,000-TEU vessels.
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Investing in the Future
The Port has begun a $4.5 billion upgrade of its facilities to stay competitive.
## FY 2014 Capital Budget ($000)

<table>
<thead>
<tr>
<th>Project</th>
<th>Amount</th>
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<tbody>
<tr>
<td>Gerald Desmond Bridge</td>
<td>284,110</td>
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<tr>
<td>Middle Harbor</td>
<td>214,446</td>
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<td>Security Projects</td>
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<td>Pier G</td>
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<td>Other Streets, Bridges &amp; Rail</td>
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<td>Cold Ironing</td>
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<td>Wetlands Mitigation</td>
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<td>Back Channel Navigation</td>
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<td>Pier T Cranes</td>
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<td>Middle Harbor Mitigation Program</td>
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<td>Temporary Headquarters</td>
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<td>Other</td>
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<td><strong>Total Projects</strong></td>
<td><strong>$787,662</strong></td>
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Expenditure Highlights

• Adding 52 staff, including:
  • 33 engineering positions
$1.2 billion Middle Harbor Modernization

305-acre Terminal

Middle Harbor is one of the most technologically advanced terminals in the world.
Middle Harbor Rail
Designed to move 1 million TEUs a year or 40 8,000-foot-long trains a week.
Near-Dock and Off-Dock
Regional rail network needs train yards inside, near and far outside the Port.
Intermodal Container Transfer Facility (ICTF)

- More tracks, improved gates, expanded yard
- Double capacity to 1.5 million containers
- Green improvements
  - Electric cranes
  - Cleaner yard tractors
  - Cleaner locomotives
Desmond Bridge Replacement
Roadway for iconic cable-stayed bridge will rise 205-feet above the water
The Green Port
We’re leading the way in reducing the environmental impacts of Port operations with our Green Port Policy and Clean Air Action Plan
Reduced Emissions

Improving Air Quality

Since 2005, the Port has reduced diesel pollution by 81%, on its way to becoming the world’s first zero-emissions port.
Port mitigation grants are funding the planting of 6,000 trees in Long Beach.
Learning Games
Youngsters learn about Port operations at civic and neighborhood events.
Inform and Engage
The Port hosted a weekend of train tours for 2,500 visitors.
The Future is Big
We face big challenges, but we see big opportunities that will bring a promising future to the Port of Long Beach.