

Setting the Stage: Critical Issues Facing Public Ports



Port of
LONG BEACH
The Green Port

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and Chief Operating Officer*

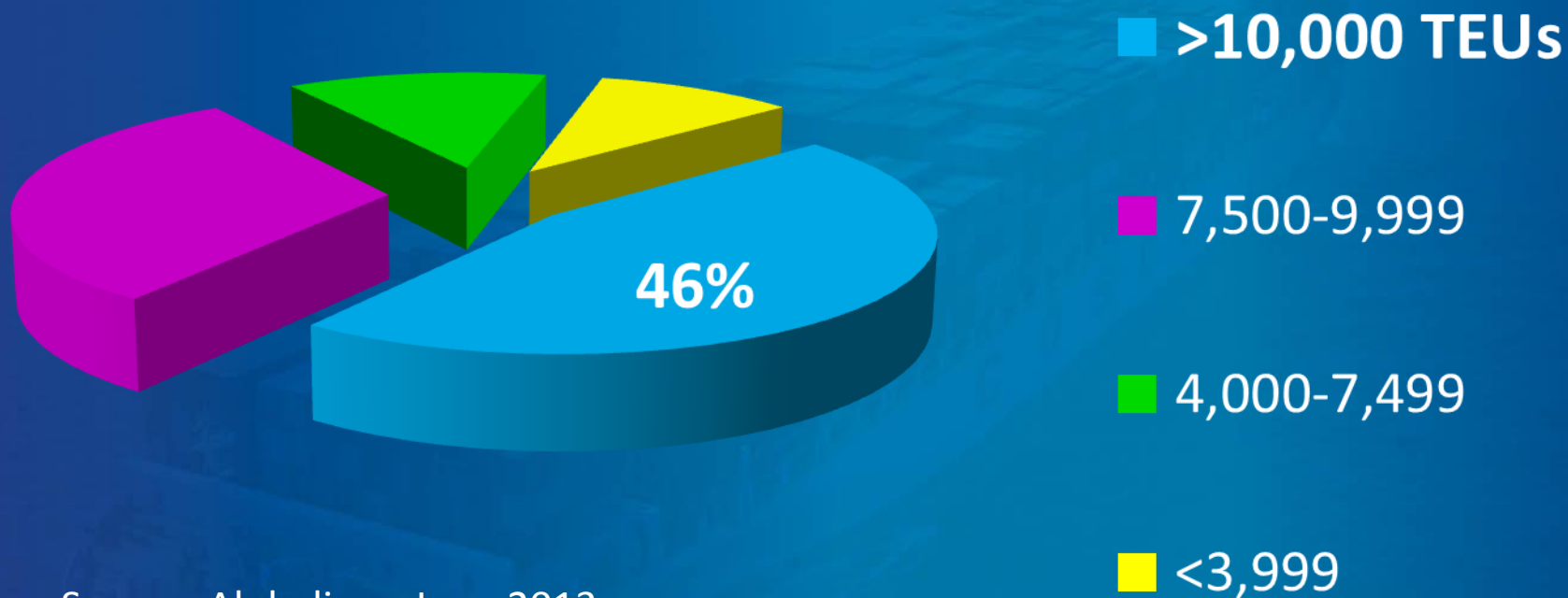
The Port of Long Beach

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

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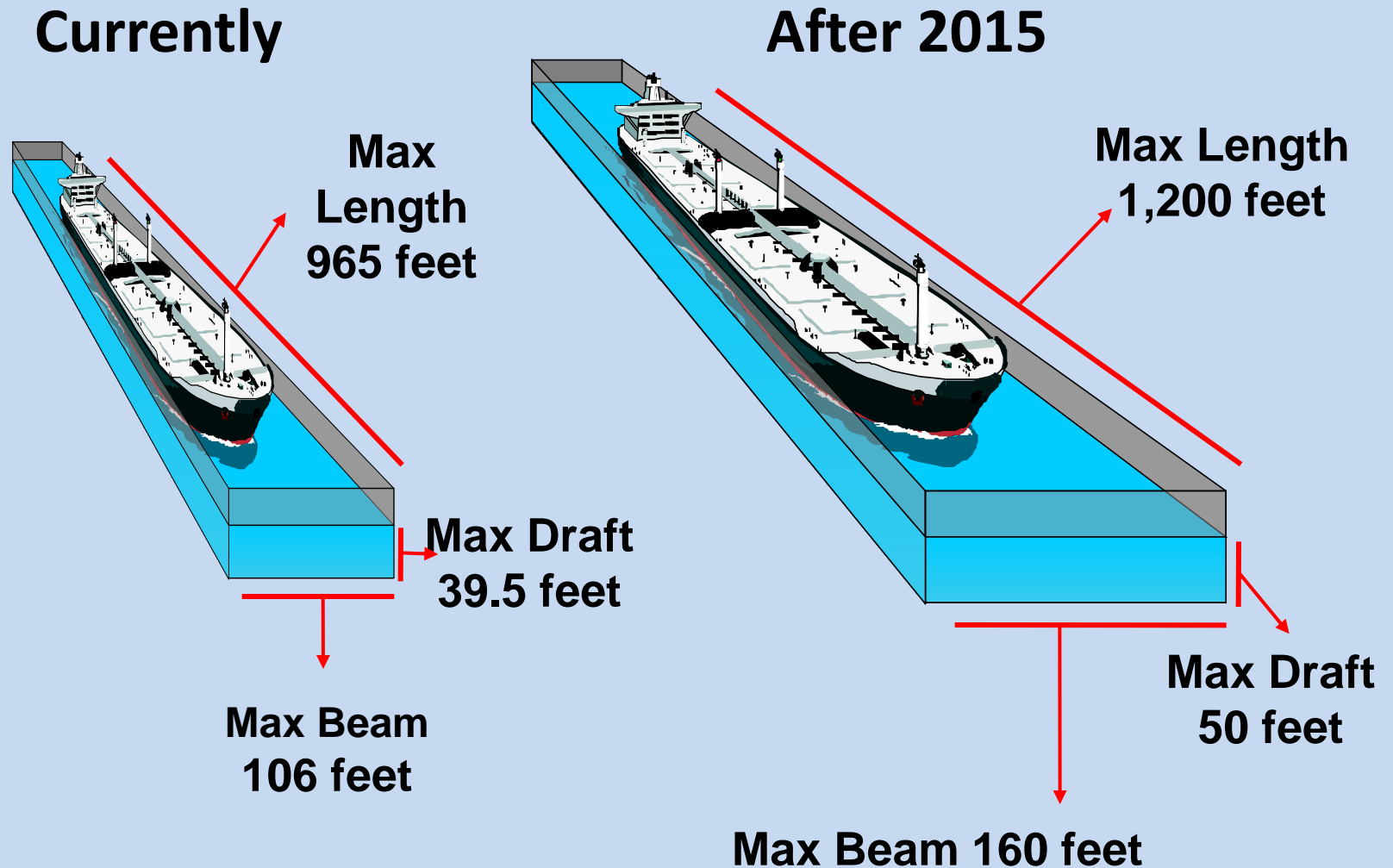


13,000 TEUs
The MSC Altair came in July 2012.

Largest to Call North America
The 13,800-TEU MSC Beatrice came in
Sept. 2012 – too wide to pass through the
expanded Panama Canal.

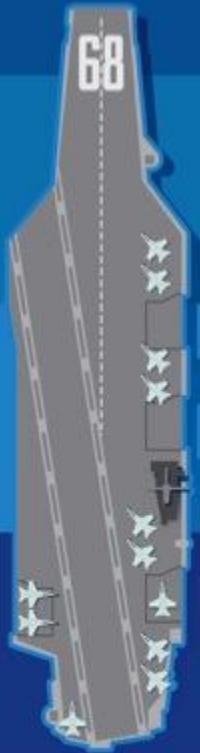


Panama Canal Expansion



As Tall As...

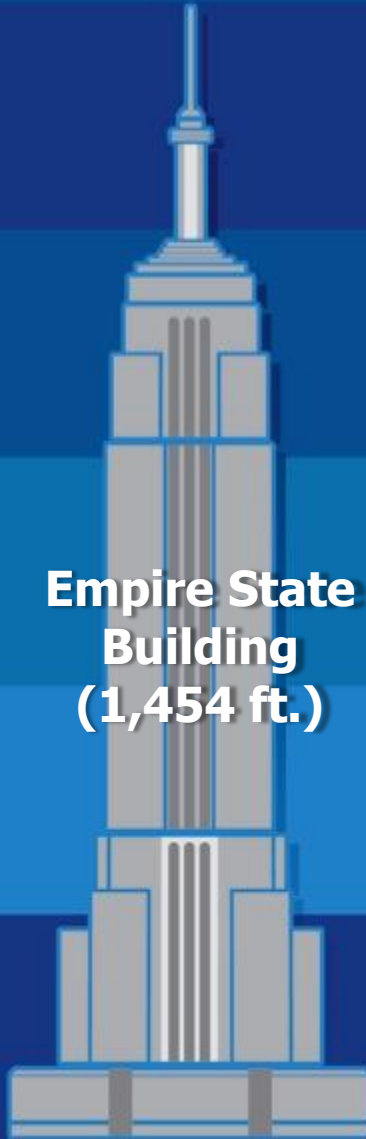
USS Nimitz
(1,092 ft.)



**7,100
TEU Ship**
(965 ft.)



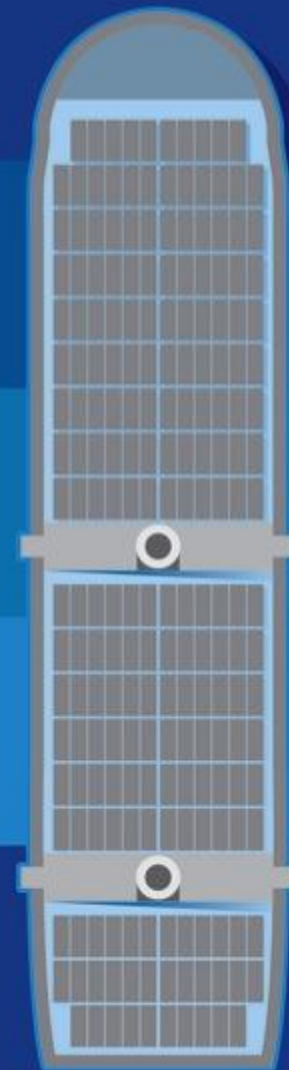
**Empire State
Building**
(1,454 ft.)

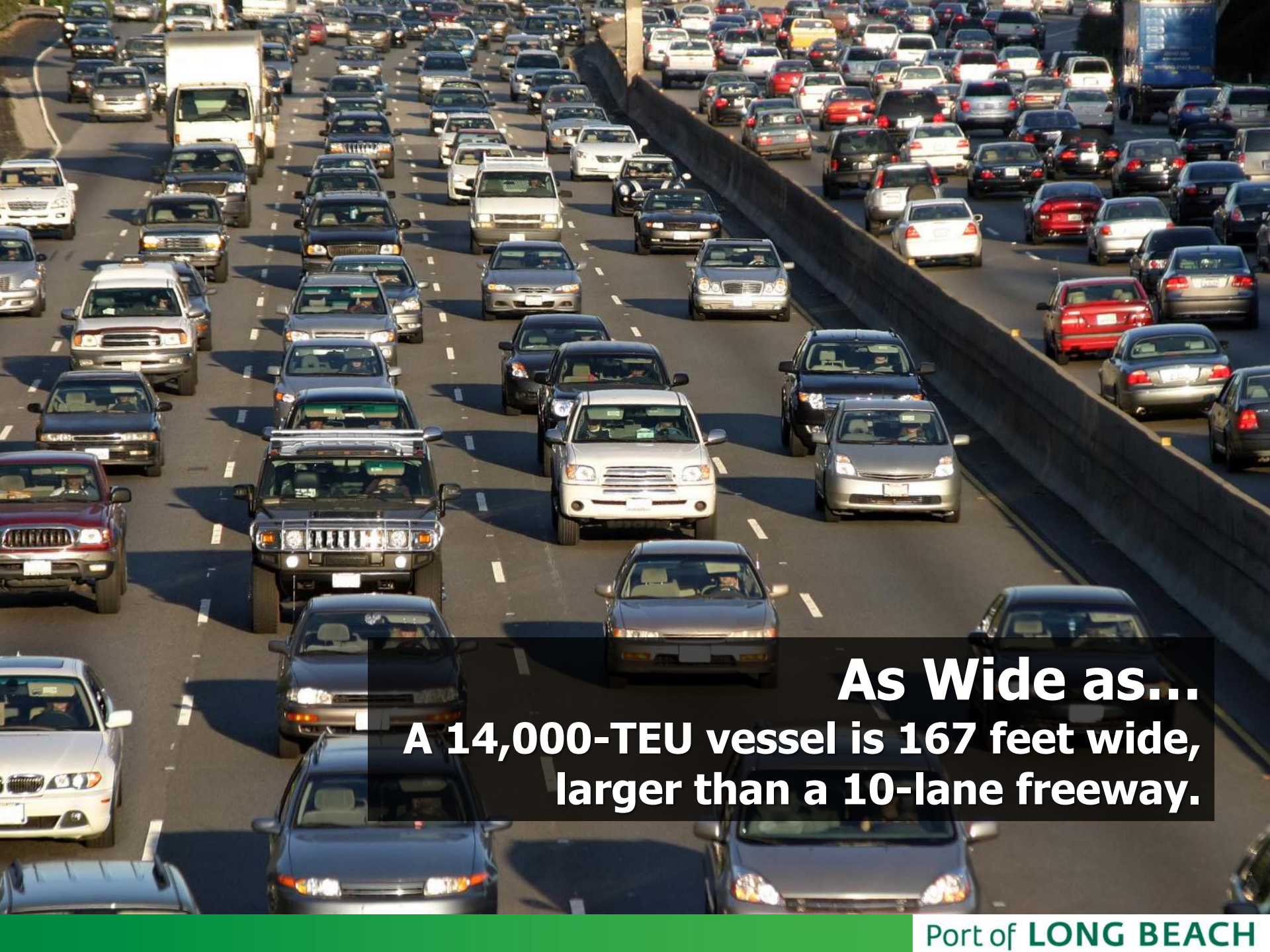


**Boeing
747**
(1,392 ft.)



**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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A photograph showing three construction workers in orange shirts and hard hats working on a large, complex steel framework. The workers are positioned at different heights and angles, with one standing on a horizontal beam, another on a diagonal beam, and a third on a lower beam. The structure is made of heavy steel beams and girders, forming a large, open framework. The background is a clear blue sky.

Investing in the Future

The Port has begun a \$4.5 billion upgrade of its facilities to stay competitive

FY 2014 Capital Budget (\$000)


Gerald Desmond Bridge	284,110
Middle Harbor	214,446
Security Projects	61,465
Pier G	60,122
Other Streets, Bridges & Rail	49,576
Cold Ironing	39,537
Wetlands Mitigation	10,000
Back Channel Navigation	9,763
Pier T Cranes	8,848
Maintenance Facility	7,856
Middle Harbor Mitigation Program	7,000
Temporary Headquarters	6,690
Other	28,249

Total Projects

\$787,662

Expenditure Highlights

- Adding 52 staff, including:
 - 33 engineering positions



305-acre Terminal
Middle Harbor is one of the most
technologically advanced terminals in the
world.

An aerial view of a large port terminal. In the foreground, a black locomotive with "PACIFIC HARBOR LINE" and a white and black striped front is pulling a train of flatcars. The flatcars are loaded with various colored shipping containers (blue, orange, green, red). A large white container crane is positioned over the train, lifting a blue container. The background shows a vast yard filled with stacks of shipping containers and several semi-trucks parked or moving. The sky is clear and blue.

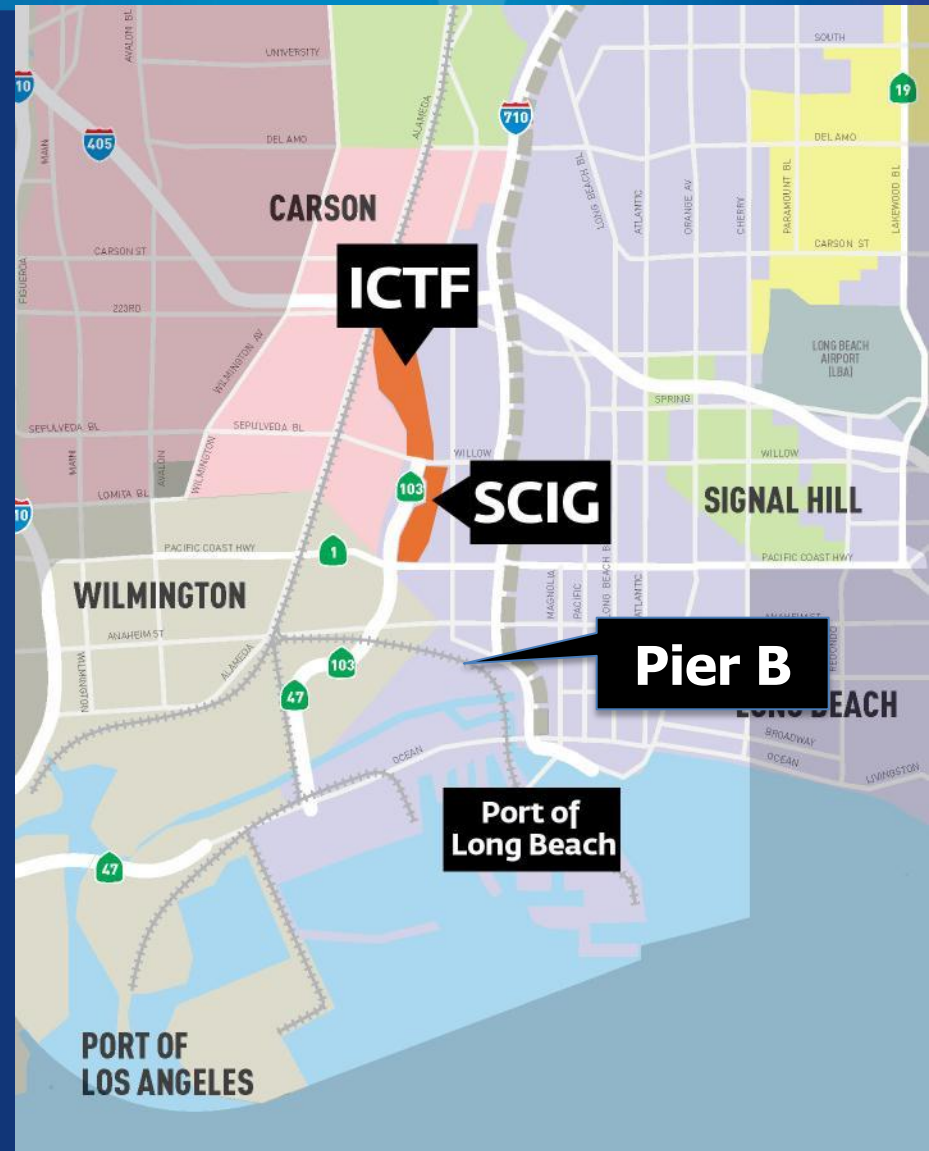
Middle Harbor Rail
Designed to move 1 million TEUs
a year or 40 8,000-foot-long
trains a week.



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 background of the image consists of several green flags waving. Each flag features a white stylized logo that resembles a compass rose or a four-pointed star. The word "Environment" is printed in white on the lower portion of the flags. A semi-transparent green rectangular box is overlaid on the bottom left of the image, containing white text.

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



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



Digging In
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.

An aerial photograph showing a large crowd of people walking along a path between two Metrolink train cars. The path is lined with blue flags and metal barriers. The train cars are white with green accents and the word 'METROLINK' is visible on the side. The scene is outdoors on a sunny day.

Inform and Engage
The Port hosted a weekend
of train tours for 2,500
visitors.

A large container ship, heavily loaded with colorful shipping containers, is seen from an elevated perspective as it moves across the water. The ship is white with a red hull. In the background, a port with several cranes and other ships is visible under a dramatic sunset sky with orange and pink clouds. A semi-transparent blue box with white text is overlaid on the upper right portion of the image.

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