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 Revised:
 May 13, 2014

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 May 13, 2014

Terminal 5 Briefing

T-5 Modernization for Big Ships





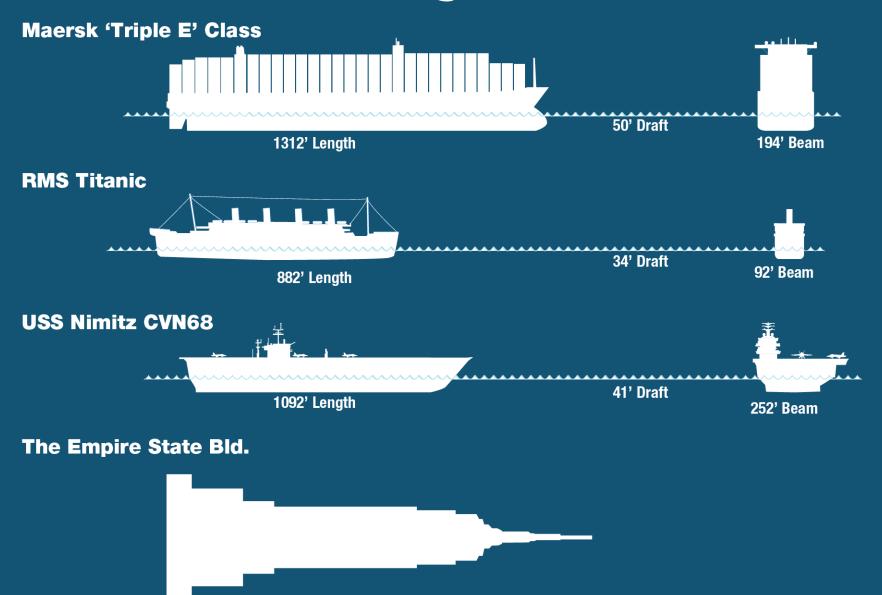


Biggest Ship: Triple-E Maersk

- Maersk EEE (18,000 TEU Capacity) entered service July 2013
- Economy of scale, energy efficiency and environmentally improved
- 20 ships ordered / 6 delivered



So how big is the EEE?



1454' Height

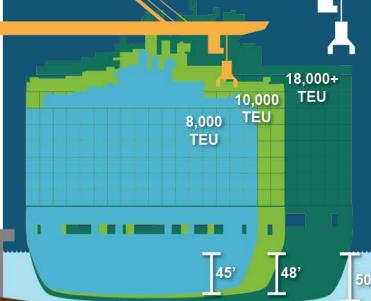
Big Ships need Big Cranes

Super Post Panamax Crane

Outreach: 210 feet (24 container bay outreach)

Current T-5 Cranes

Outreach: 115 feet (16 container bay outreach)



⊢ Post-Panamax: 136'⊣

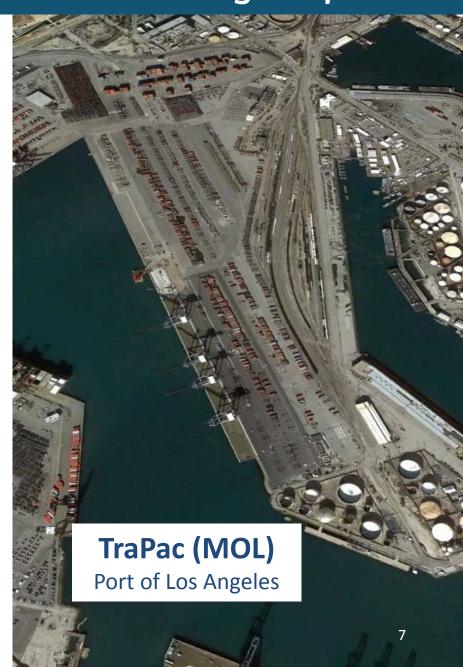
→ Hanjin Spain: 150'—

→ Hanjin Spain: 1

─ Maersk Triple "E": 193' **─ ─**

Productivity and Automation for Big Ships



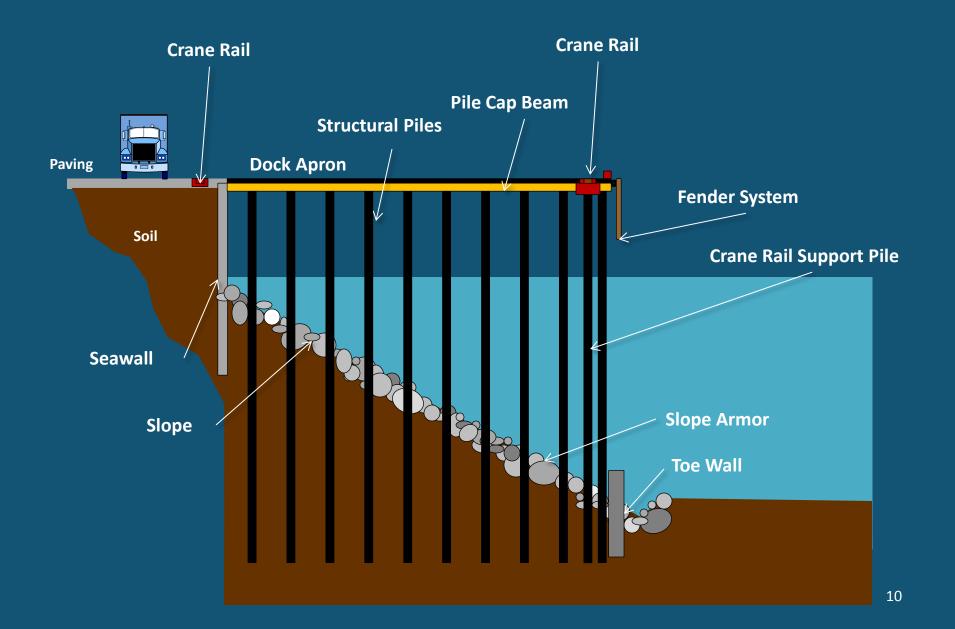


Modernization Components for Big Ships

- Crane Rail
- Fender System
- Deck Panels
- Pile Caps
- Power
- Berth
- Permitting



Dock System - Container Terminal



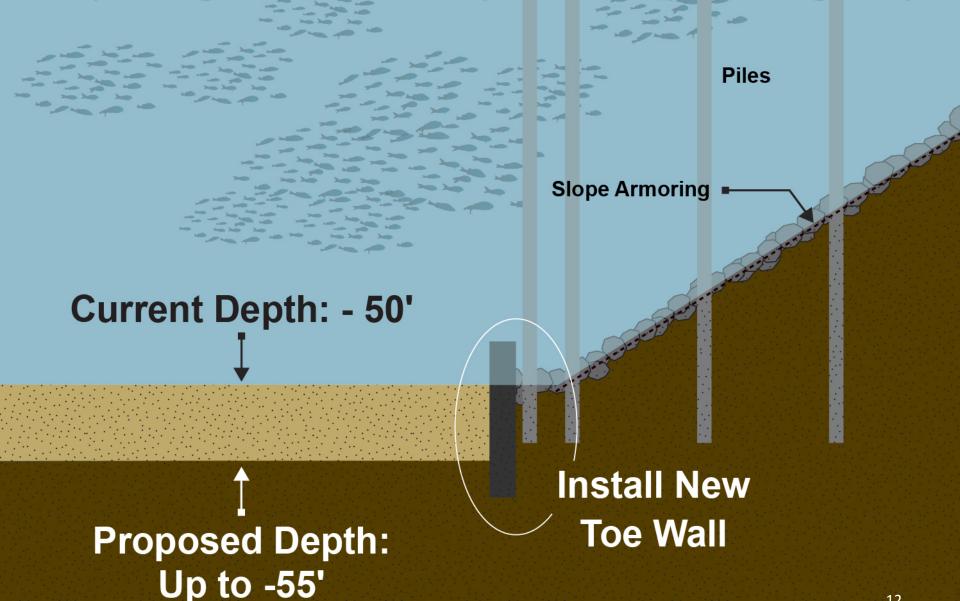
Pile Cap & Deck Panel Repairs for Big Ships



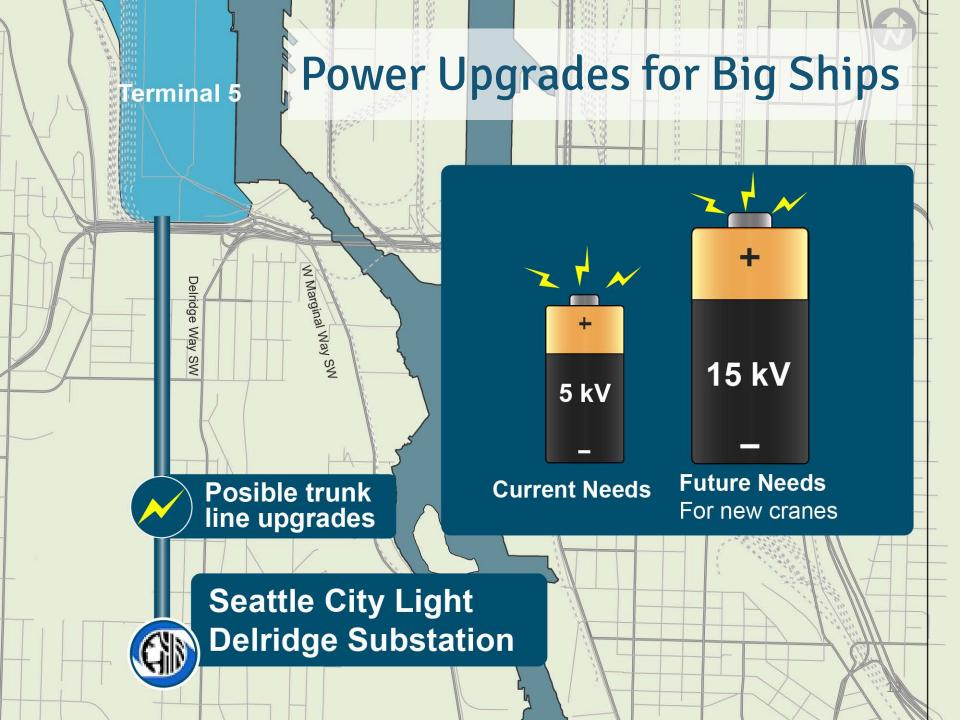




Deepening & Toe Wall Improvements for Big Ships



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Permitting



