

# Trends in Facilities Engineering

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- **Trends in shipping ( Larger Vessels, Channel Depth, Air Draft)**
  - **Roadway/Rail Traffic Congestion**
  - **Security**
  - **Environmental Concerns**
  - **Growth in Trade**

# Trends in Shipping

- Larger Container Vessels
  - Bigger Cranes, longer outreach, more cranes / vessel
- Larger Cruise Vessels
  - More passengers, bigger terminal, more parking, larger air draft
- Larger Tankers (LNG)
  - Deeper, wider channels

# Roadway/Rail Congestion

- Higher Throughput per hour
- Double Stacks
- Double Tracks
- Trucks Run 24 hours

# Security

- Vacis X-Ray Inspection
- Radiation Portals
- TWIC/Secure Zone

# Environmental

- Cold Ironing
  - Alternative Maritime Power (AMP)
- Alternative Fuel for Trucks & Cranes
  - LNG
  - Low emission diesel
- Automated Terminals
  - Electric Cranes