

Port Sustainability Planning

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Current Way of Doing Port Planning

- Facilities master planning
 - Inventory and condition of assets
 - Transportation logistics
 - Maintenance, recapitalization or improvement
- Business planning
 - Economic payback
 - Cargo forecasting
 - Identify tenants/users

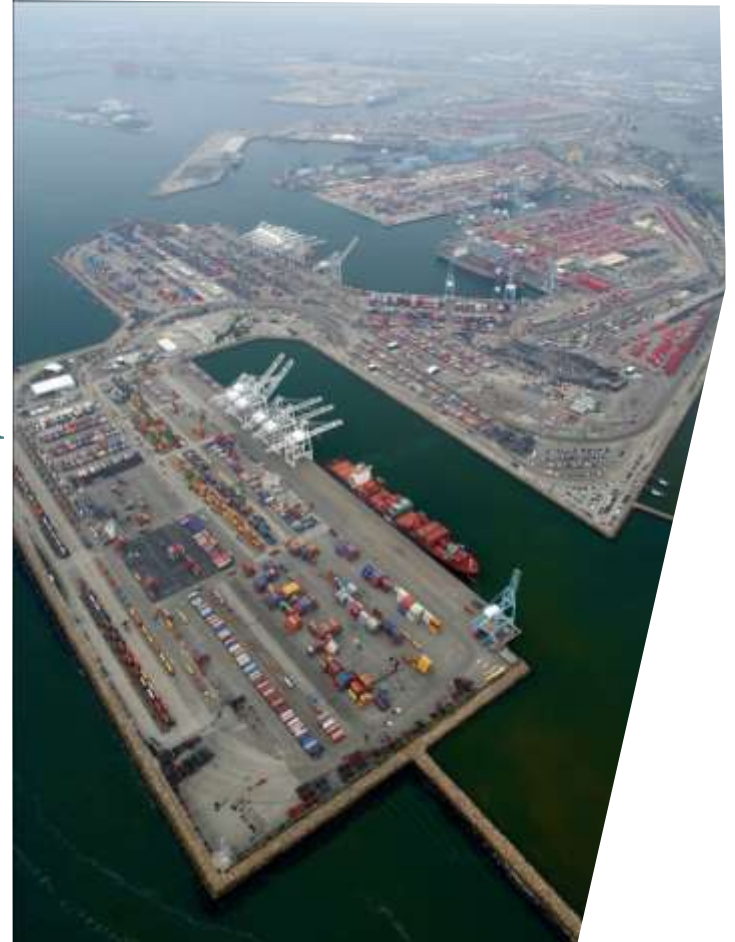


Analyzing Risk in Port Master Planning

- What is the *Risk* of not being successful?
- The driver for successful business outcome is not always an economic one (i.e. cargo forecast)
- Certain drivers can increase the risk for a negative outcome:
 - Environmental considerations (permitting, regulatory reqts, natural disasters)
 - Stakeholders not brought into process
 - Community concerns not addressed

Examples

- Port of Long Beach
 - Community's environmental concerns
- Port of Baltimore
 - Harbor Team to garner stakeholder support



Changing Environment

- Necessary to consider *all* risks
 - Comprehensive, systematic approach to port master planning
- Risk Assessment
 - Can be considered an “add-on” to a typical feasibility or preliminary port plan
 - Otherwise do this up front for master plan

What is Port Sustainability Planning?

A comprehensive approach:

- A blueprint for long term development
 - Balanced capacity for growth that is sustainable
- Reduces environmental impacts
 - And potential schedule delays
- Achieves economic benefits
- Increases integration with local communities
 - Optimize port-side operations while balancing footprint within community

Port Sustainability Planning

Strategic plan that includes the following elements:

- Understand mission and risks
- Market plan
- Facility plan
- Business plan
- Financial plan
- Master plan
- Environmental assessment plan
- Social/community engagement plan



Results

- Integration of economic, environmental and social concerns throughout the entire master planning process
- Identifies development 'trigger points' or areas to manage risk

Value to Port

- Optimize economic returns
 - Improve revenue streams
 - Successfully compete in evolving marketplace
- Improve environmental results
 - Minimize regulatory impacts
 - Utilize technological advancements
- Leverage social engagement
 - Public participation leads to better planning, shortened schedules, and durable results
 - Collaborating with stakeholders to improve port stability, enhance operational effectiveness, improve project efficiencies & timelines

Comprehensive Approach to Port Planning

- The process and products are customized to fit the port's situation
- Flexible and modifiable
- Identifies and coalesces leadership and staff priorities
- Stakeholder engagement is critical

- Sustainable Port Master Planning Concept is process of choice by the Cardno TEC and Council Fire team

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