

# *Shifting International Trade Routes: Planning for the Panama Canal Expansion*

## Financing Future Infrastructure Needs **Port Public-Private-Partnerships**

What should ports want . . . What do your partners expect?



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# U.S. Container Port Review

*"A decade in a minute"*

## Top 10 U.S. Ports Container Volume, 1997-2007 (in 000 TEU, including loads & empties)

		1997	2007	% chg. '07 vs '06	10-Year CAGR
1	Los Angeles	2,960	8,355	-1%	10.9%
2	Long Beach	3,505	7,312	flat	7.6%
3	NY/NJ	2,457	5,350	4%	8.1%
4	Savannah	735	2,605	21%	13.5%
5	Oakland	1,531	2,388	-1%	4.5%
6	Hampton Roads	1,233	2,190	7%	5.9%
7	Seattle	1,476	1,967	-1%	2.9%
8	Tacoma	1,158	1,925	-7%	5.2%
9	Houston	934	1,769	10%	6.6%
10	Charleston	1,218	1,754	-11%	3.7%

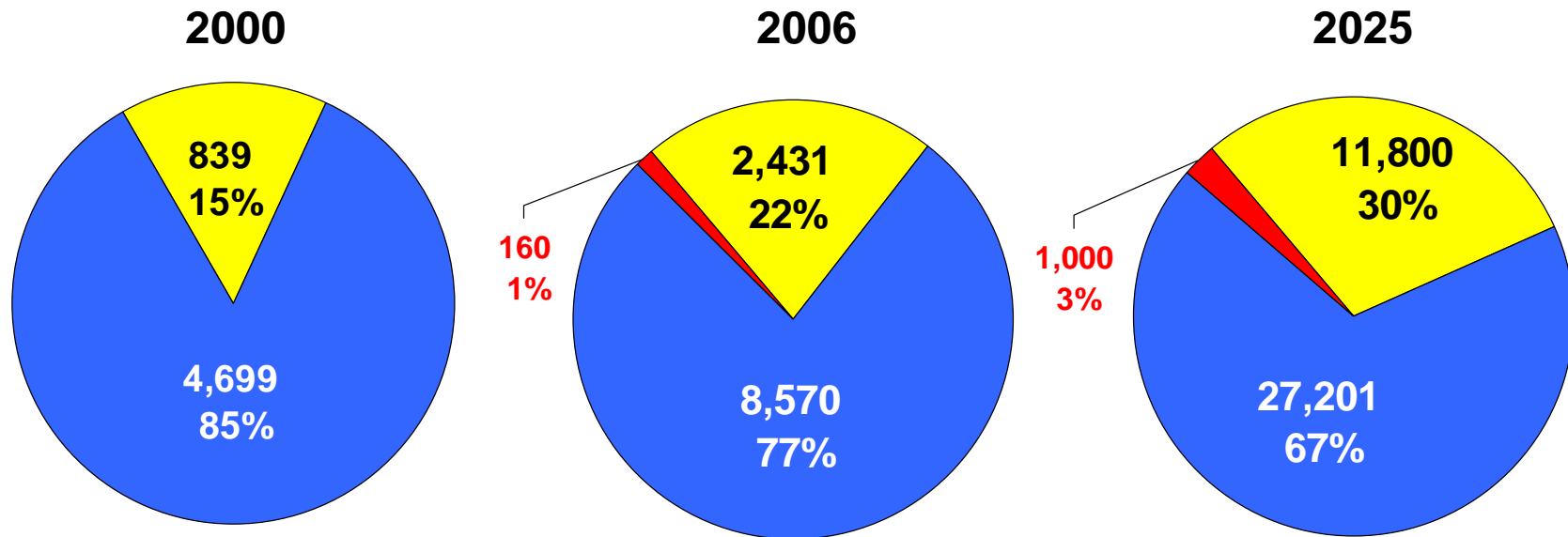
Source: RKJA estimates based on AAPA and port data, excludes Alaska, Hawaii & Puerto Rico

- 40 container ports in North America, with U.S. Top-10 holding 80% share
- Box throughput doubled since 1997
- North Asia = 57% of trade, up from 42% in 1997



## Panama Canal Impact All-Water Coastal Shares of North Asia to U.S. Trade (000 loaded TEU)

■ East Coast    
 ■ West Coast    
 ■ Gulf Coast

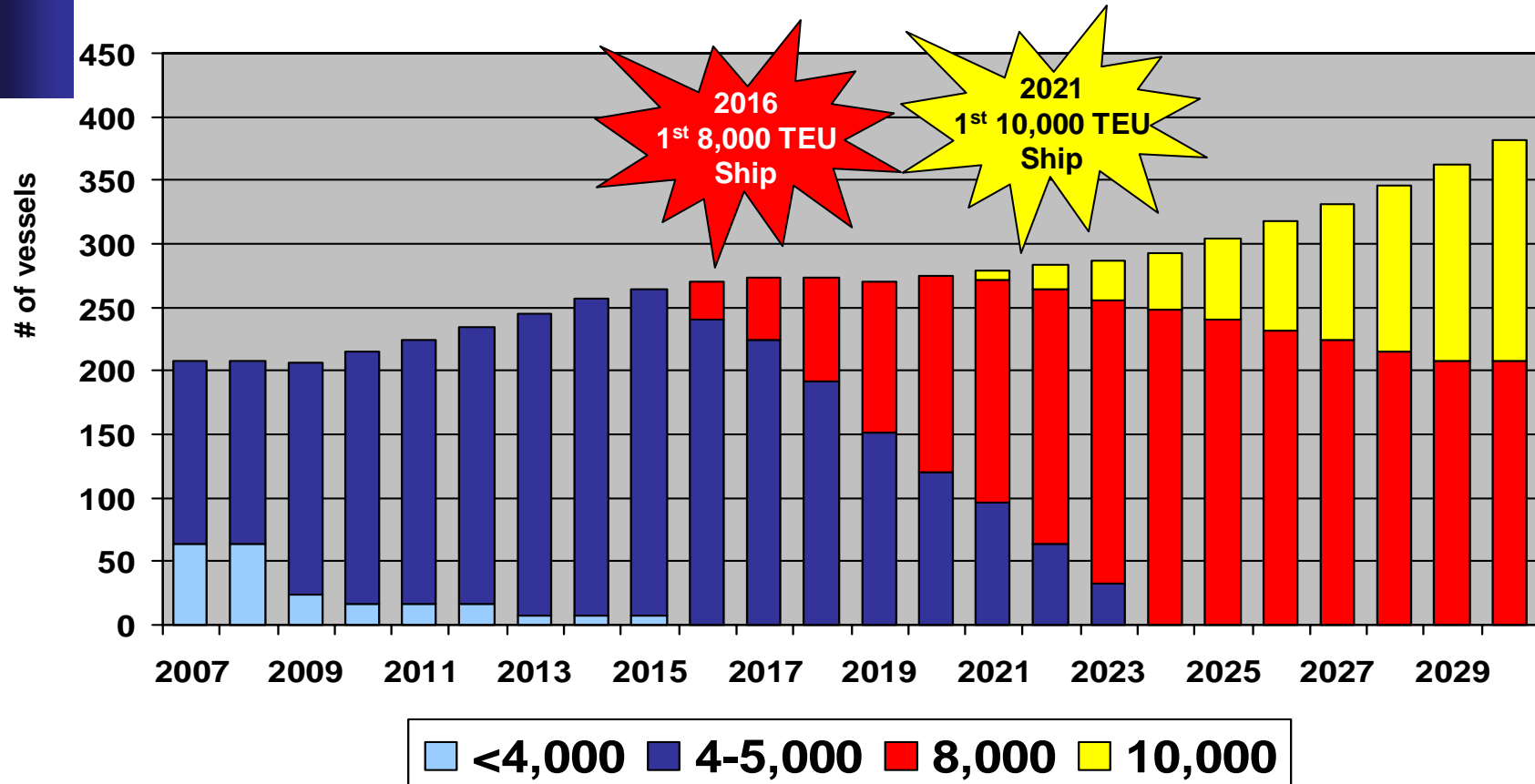


Source: R. K. Johns

## Asia All-Water Services Fleet Deployment by Vessel Size

# of strings

26	26	26	27	28	29	31	32	33	34	34	34	34	34	35	35	36	37	38	40	41	43	45	48
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**Assumption:**

- each weekly vessel string deploys 8 ships

Source: R. K. Johns

## North America

### 10-Year Container Port Outlook

*Where will the next doubling of cargo go?*

### Total Container Port Acreage - Announced & Planned -

	2007	2017	% change
East Coast	4,593	6,070	32%
Gulf Coast	458	932	103%
West Coast	5,504	6,898	25%
<b>Total</b>	<b>10,555</b>	<b>13,900</b>	<b>32%</b>

Includes Top 25 ports, excludes Mexico

## North America 10-Year Container Port Outlook *Where will the next doubling of cargo go?*

\$9-\$10 billion port investment  
needed for planned “in the ground” assets  
to even create terminal business value



Expansion minded: (+acres)

### East Coast

Norfolk- APMT & Craney Is., +800

N.C.- Southport +600

Charleston- Navy base +250

Savannah – Jasper +400

Jacksonville- MOL/Hanjin +300

### Gulf & West Coast

Houston- Bayport +375

(Texas City & Pelican Is. ?+1,600)

Tacoma – Blair waterway +350

Vancouver – T2 +200

Prince Rupert – 2 terminals

+160 to +350

## If the project fits . . . PPP it? In their own words

**“As a result of rampant demand, the infrastructure sector is suffering from the dual curse of overvaluation and excessive leverage – the classic symptom of a bubble, similar to the dot-com era.”**

*Standard & Poors, Infrastructure Report 2006*

**“Today there is a fairly broad acceptance that higher levels of operating efficiency can be achieved if container terminals are managed by private companies, motivated by profit, rather than by state bureaucracy. There are also benefits for governments from shifting port development funding to the private sector, easing the burden on the public.”**

*Drewry Shipping, Container Terminal Report 2007*

**“We were attracted to the NY port by global trade trends, the port’s tight capacity, stable volume & container revenue, the large consumer market and resultant opportunities for terminal value creation.”**

*AIG Highstar, Journal of Commerce 2008*

## There are Proponents & Critics On both Sides of the PPP Fence

### Why are Port Authority governing bodies attracted to PPPs?

- ▶ Asset monetization (Cash!)
- ▶ Ability to defease/collateralize debt
- ▶ Still own & control port as a landlord
- ▶ Improve operating efficiency
- ▶ Develop new port facilities
- ▶ Fund related infrastructure projects
- ▶ Redeploy gov't. spending/taxes
- ▶ Share/redirect risk  
(political, operational, labor, economic, etc.)



## New Players ... Same Port Business ... Perhaps different Values & Objectives

### Why are Private Investors attracted to Ports?

“Most investors emphasize that privatization is not a panacea, but rather a financing tool.”

*Standard & Poors, Infrastructure Report 2007*

- ▶ Long term leases, low risk assets
- ▶ Visible & predictable earnings
- ▶ Inflation linked revenue
- ▶ Barriers to entry & high cost for Greenfields
- ▶ Performance not tied to common financial instruments
- ▶ Ability to build a better mousetrap (scale up)
- ▶ Client “stickiness”: durable contracts & guarantees
- ▶ Opportunity to create & leverage value

1-10  
years



10-20



+20



## How has the Terminal Prom Played out so far ...

- **Financial buyers acquiring existing lease concessions**
- **Banks active & aggressive in lending, 7-year deal has been the norm**
- **Most common debt-to-equity shares: 70/30 or 80/20 (two deals appear to have been more conservatively priced 60/40)**
- **Bank lending rates fairly similar among deals:  
Libor + 120 bp (low), + 185 bp (high), common +140/150 bp**
- **Lending rates are scaled on a sliding debt-to-EBITDA multiple**

## O.K. so what do I do to prepare for the BIG Dance?

- ✓ **Know the ground rules:**  
buyers look first at discounted cash flow, which is  
“driven” by the demand forecast
- ✓ **Know the limitations of demand forecasting:**  
accurate in the short term at the 50,000-ft. level,  
but only a guideline when projecting out concession  
life (30-50 years)

## O.K. so what do I do to prepare for the BIG Dance?

### ✓ **Know what makes your port & terminals special:**

do your homework on

risks/rules (especially environmental),

landside +/- (road & rail)

competition

customer details (like DC control)

operating issues

labor

expansion capability & capital requirements

### ✓ **Know when to call in outside help:**

engineering & economic “assessments” that bench-test  
terminal capacity, competitiveness & upside opportunities  
(you are not just selling a terminal, but a connection)

## Who do I dance with & when?

- ❖ **Be patient, be thorough!**
- ❖ **Look internally first at your financing costs & options:  
GO & revenue bonds, taxing authority, trust funds,  
buy/lease backs, public benefit corp. options, etc.**
- ❖ **Be realistic in your value assessment:  
assets, liabilities, business model, future plans**
- ❖ **Be able to explain what you mean to your customers**
- ❖ **PPP strategy should include entry, transition & exit plans**
- ❖ **Is financial maximization the only criteria?**
- ❖ **Can/will the port authority consider joint ventures?**
- ❖ **Investor interest does not stop at containers  
(bulk, breakbulk, intermodal, etc.)**

*Thank you!*

