Shifting International Trade Routes International Economic Outlook & Global Trade Patterns









January 26, 2009



Agenda

Today's Objectives

Economic Drivers and Challenges

Global & North American Container Trades

The Global Container Shipping Industry

The North American Container Port Industry

Will Trade Patterns Shift: Some Considerations



Today's Objectives

Endeavor to provide a broad context for today's program by briefly touching on:

- ✓ Economic realities and challenges
- ✓ Shippers' supply chains
- ✓ The status of the global and North American container shipping industries
- ✓ Asia-North American container routing alternatives

But most importantly, finish on time!

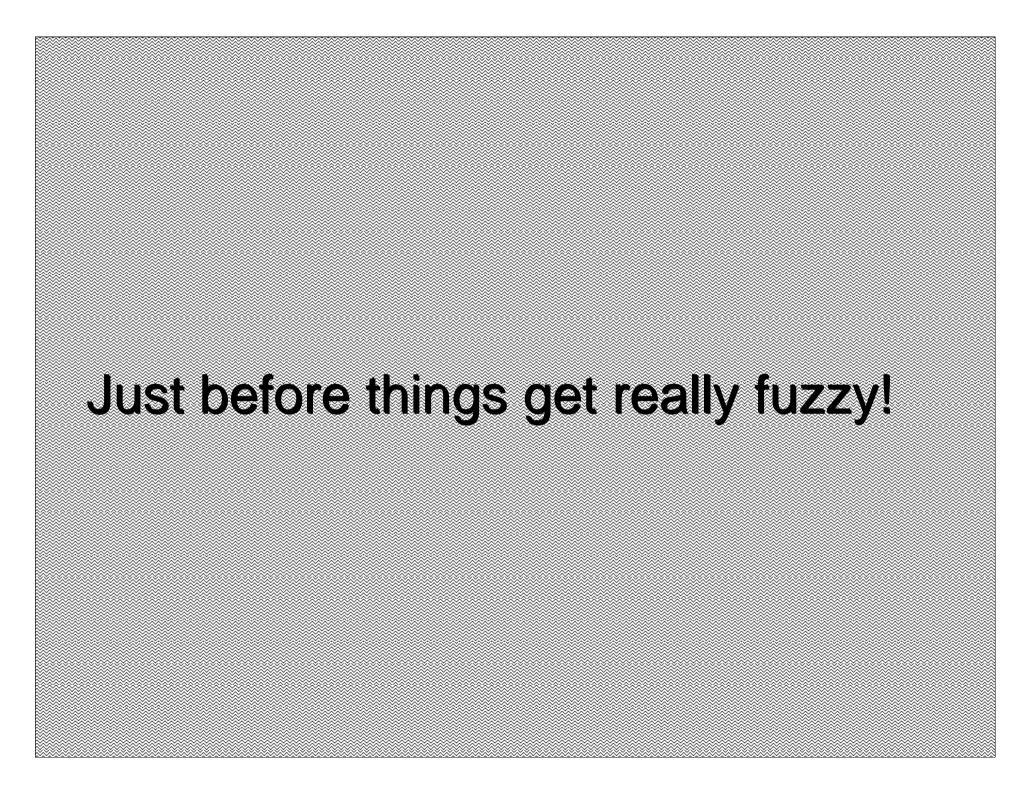


Economic Drivers and Challenges

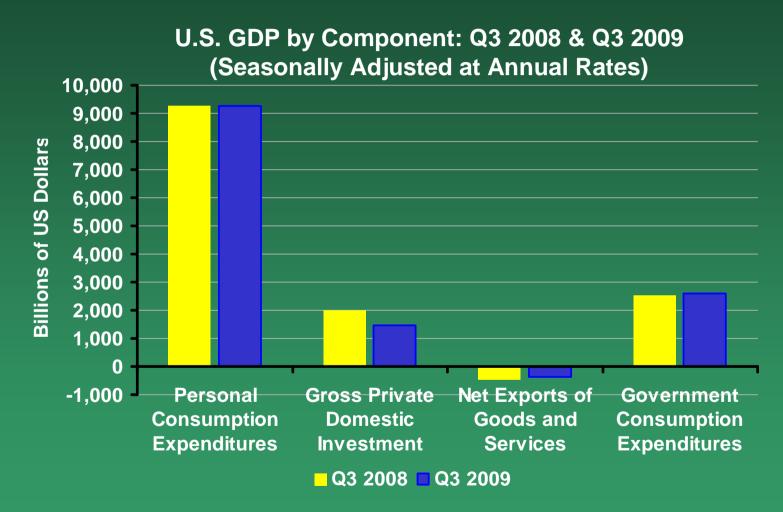


The Darkest Hour is.....





Personal consumption expenditures represent the greatest portion of U.S. GDP.





The consumer is under substantial pressure



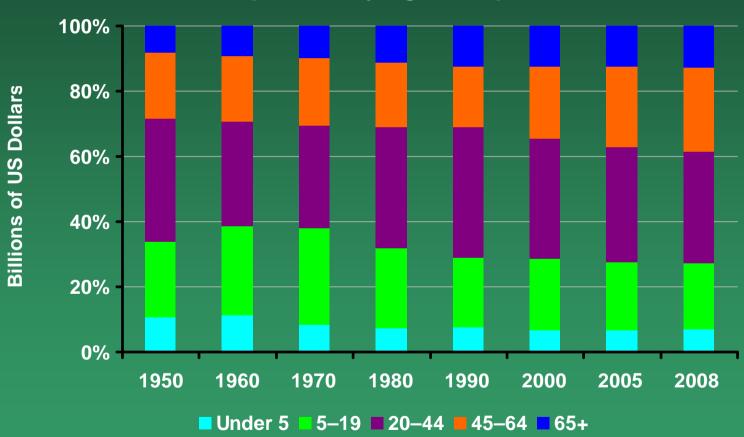
U.S. household net worth is down 18% since its Q2 2007 peak.

U.S. Household Net Worth: Q2 2007 vs. Q3 2009



The U.S. population is slowly getting older.





The consumer has begun to save—a good news/bad news story

Index of US Personal Consumption, Personal Income, and Personal Savings (1980-Q3 2009; 1980=100)

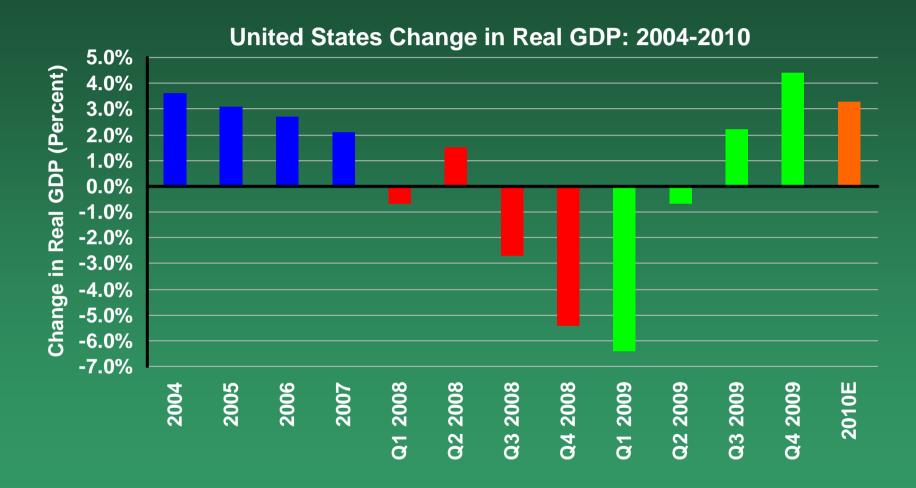


Note: 2009 estimated based on three quarters of data

Source: BEA; Norbridge analysis



The US economy is projected to return to more normal GDP growth in 2010.



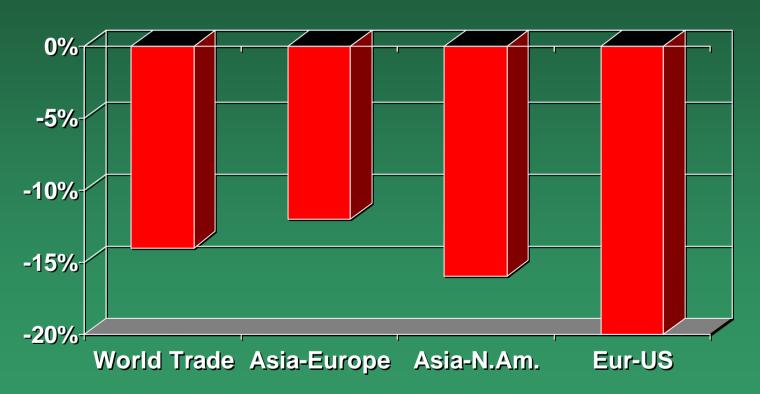


Global and North American Container Trades



2009: "The worst of times"

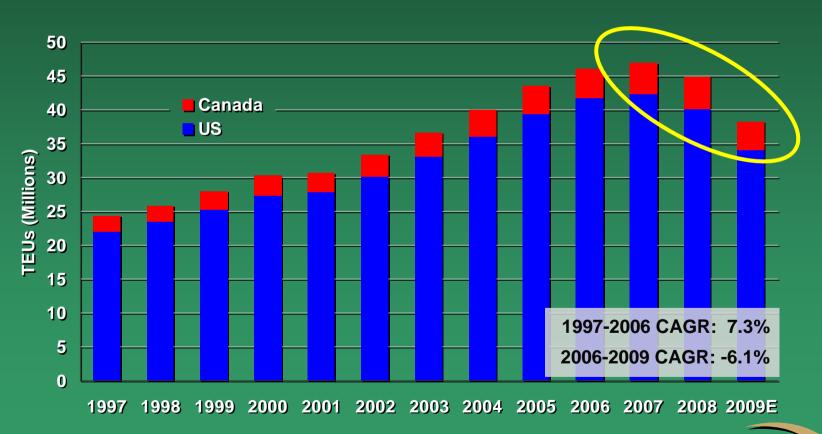
Percent change in TEUs: 2009 vs 2008





North American container traffic has declined nearly 20% in the past two years

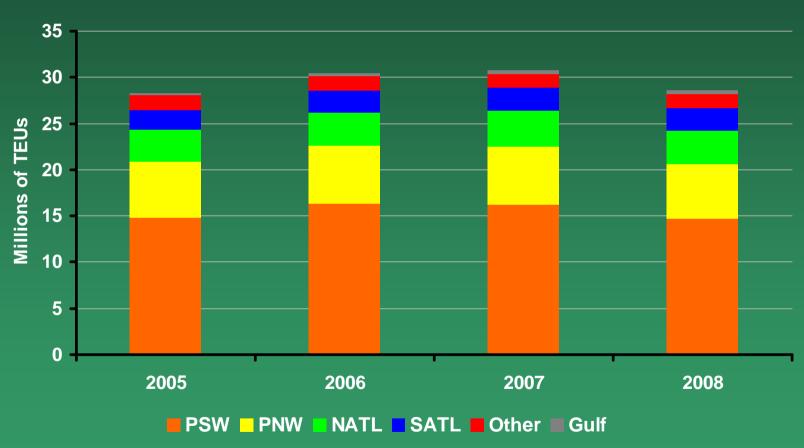
North America Ocean Container Traffic Growth (1997-2009E)





Asian Imports have declined across all coasts.

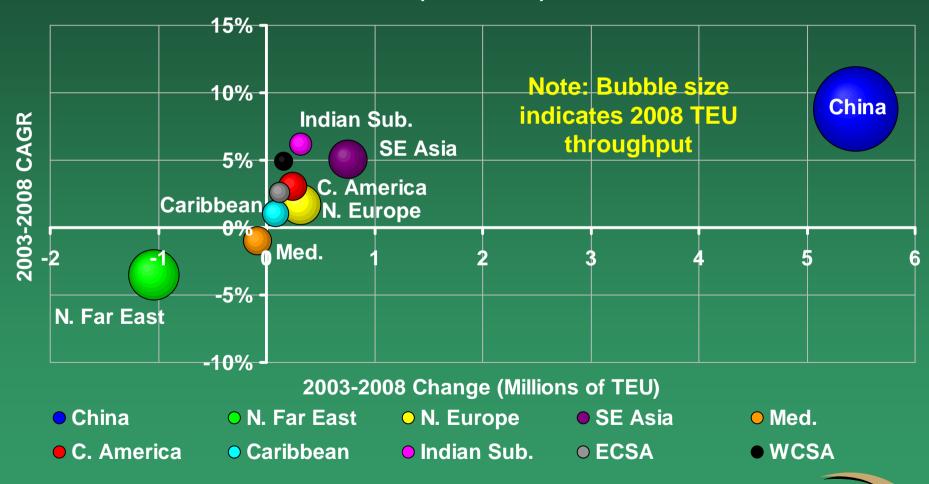
Imports by U.S. Port Region of Entry TEUs, 2005-2009 Asia – U.S. Container Trade





China continues to dominate North American container trade.

Size and Growth of North America Container Trade Regions (2003-2008)



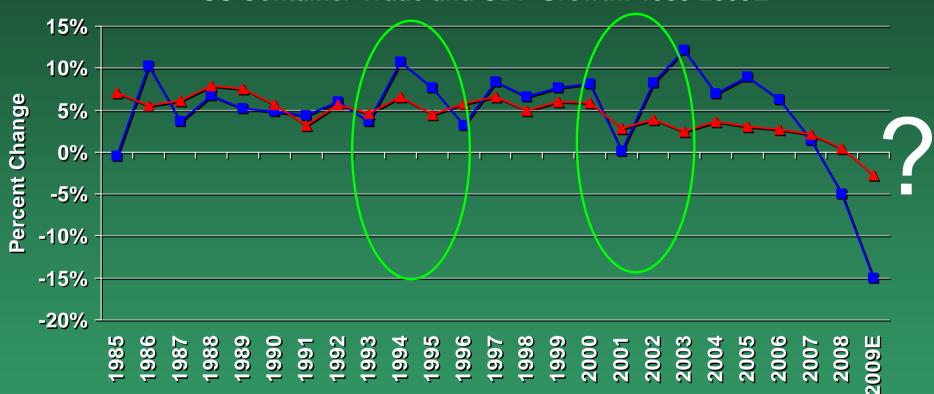
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Note: Excludes AK, HI, Guam and Puerto Rico ports

Source: 2003 and 2008 PIERS data; Norbridge Analysis

The economic recovery: an alphabet soup of scenarios.





─ US Containers **←** US GDP

Note: 2009 container volume is estimated

Source: IMJF; AAPA; Norbridge analysis



Global & North American Container Shipping Industries



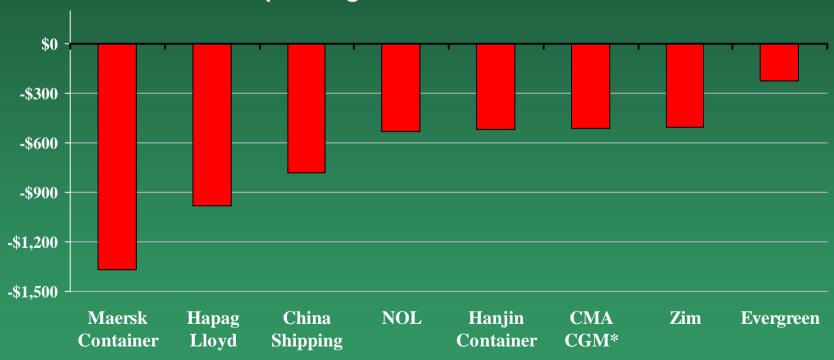
The Global Container Shipping Industry

- √ 400+ companies
- ✓ Operating 4,718 fully cellular container capable ships
 - 13.1M TEU of capacity
- ✓ On 400+ trade routes
- ✓ Carrying about 140M total TEUs per year (2008)
 - Estimated to have dipped by about 15% in 2009 to approximately 122M TEUs



Global container carriers have incurred substantial financial losses

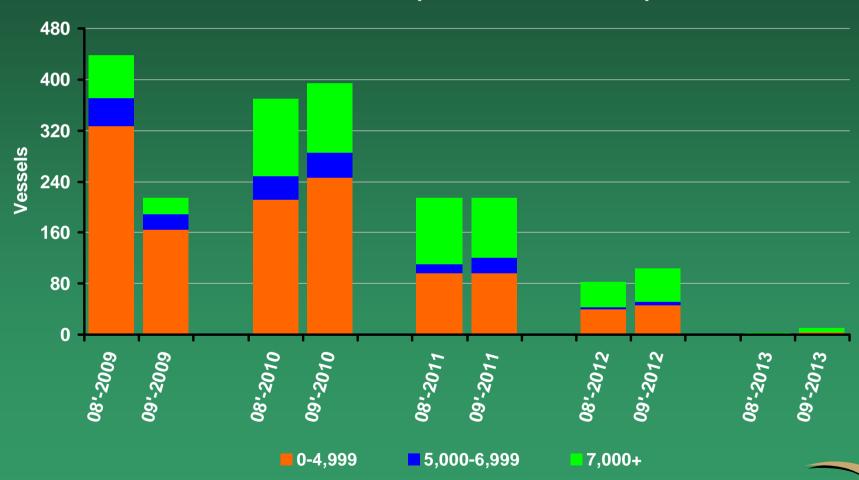
Ocean Carrier First 3 Quarters 2009 Financial Results: Operating Profit/Loss – USD Millions





Although the order book is declining due to deliveries, postponements & cancelations....

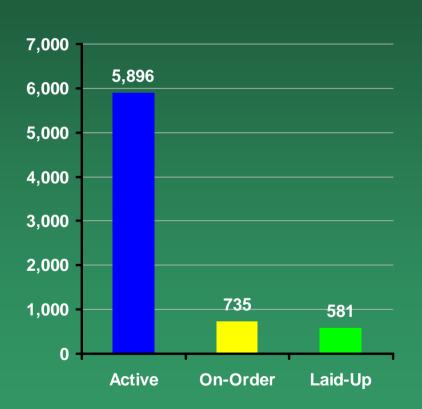
Container Vessels on Order: September 2009* vs. September 2008



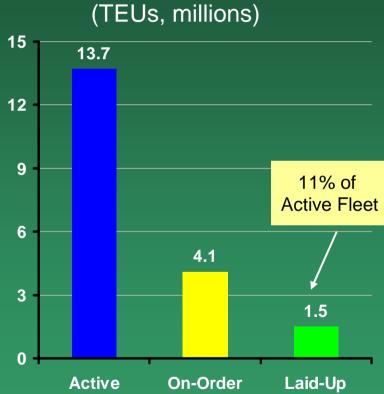
*Note: 2009 excludes newbuild postponements and cancellations under negotiation Source: CI Magazine. Norbridge Analysis

The increasing supply of container ships may pose challenges for years.

Number of Vessels*



Vessel Capacity (TELLs millions)



Note: All container capable vessels

Source: January 2010 AXS Alphaliner; Norbridge analysis



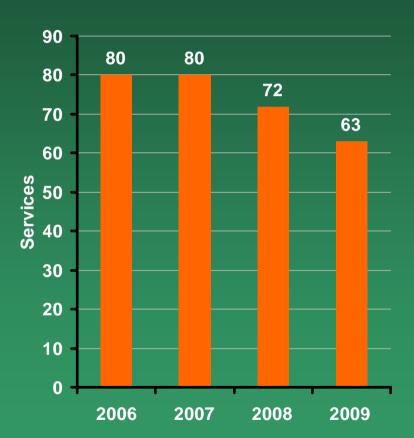
North American Container Port Industry

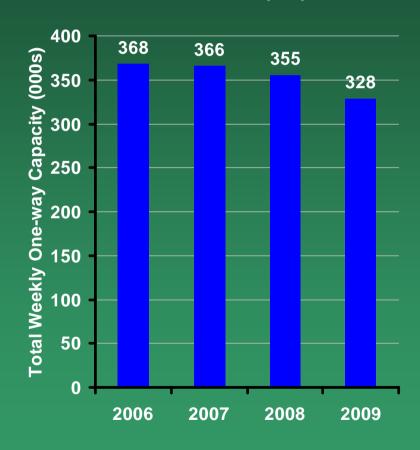




Asia-North America container services have steadily declined

Total Number of Services & Average Weekly TEU Capacity by Year to North America from India, SE Asia, N. Asia, and China (3Q)







The North American Port Industry has added significant capacity...



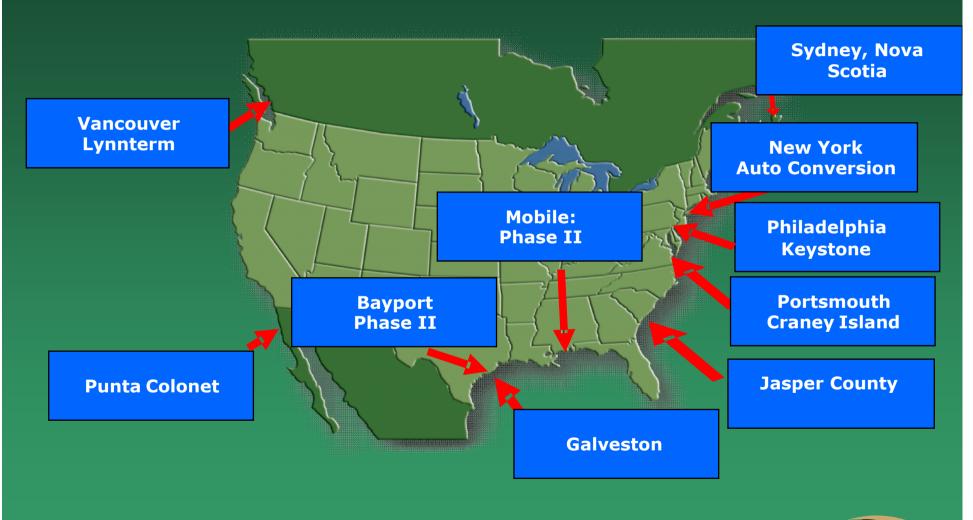


It has numerous projects currently in the planning/development stages...



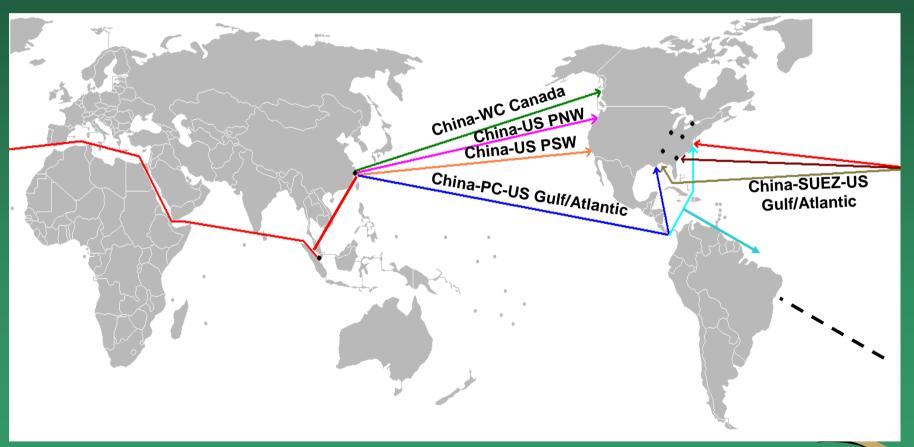


....and many additional projects in the conceptual planning phase



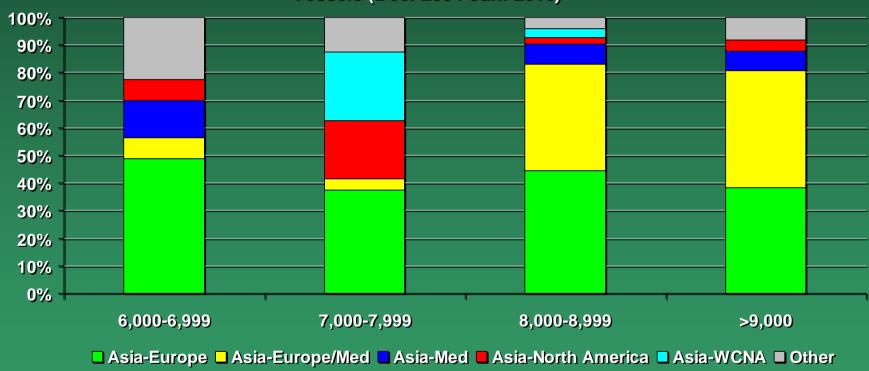
There are multiple options for Asia (China)-North American container trades

Asia-Americas Routing Options



How big will the ships be?

6,000 + TEU Newbuildings by Trade Lane: Percent of Total Number of Vessels (Dec. 2004-Jan. 2010)



Note: Asia-Europe, Asia-Europe/Med, and Asia-Med Trade Lanes can also include stops in the Middle East and India Subcontinent Note: "Other" Trade Lane is a bucket of Trade Lanes that have less volume than some of the more well traveled ones.

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Source: Containerization International Magazine; Dec 2004 –Jan. 2010

Big Ship Draft Requirements: Some Realities

- ✓ The eastbound trade is the driver.
- ✓ The eastbound trade is a cube, not a weight trade
- ✓ The expanded Panama Canal will have a draft of 50' freshwater = about 14.5 meters or 47.5-48 feet salt water
- ✓ Containerships burn 40-50% of their bunkers in route from Asia to the East Coast of North America
- ✓ Most large containerships traversing the Panama Canal will likely arrive at vessel drafts significantly less than 14.5 meters or 48 feet



Economics: Some Important Questions

- ✓ Will North American western railroads price themselves out of interior markets?
- ✓ Will management & the ILWU solve the West Coast productivity issue?
- ✓ What will the optimal size vessel be on the expanded Panama Canal route?
- ✓ If one transships, can one fill a 10,000+ TEU vessel and deliver competitive service vs. direct call all-water?

Shifting International Trade Routes









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