

Panama vs. Non-Panama Transshipment

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Agenda

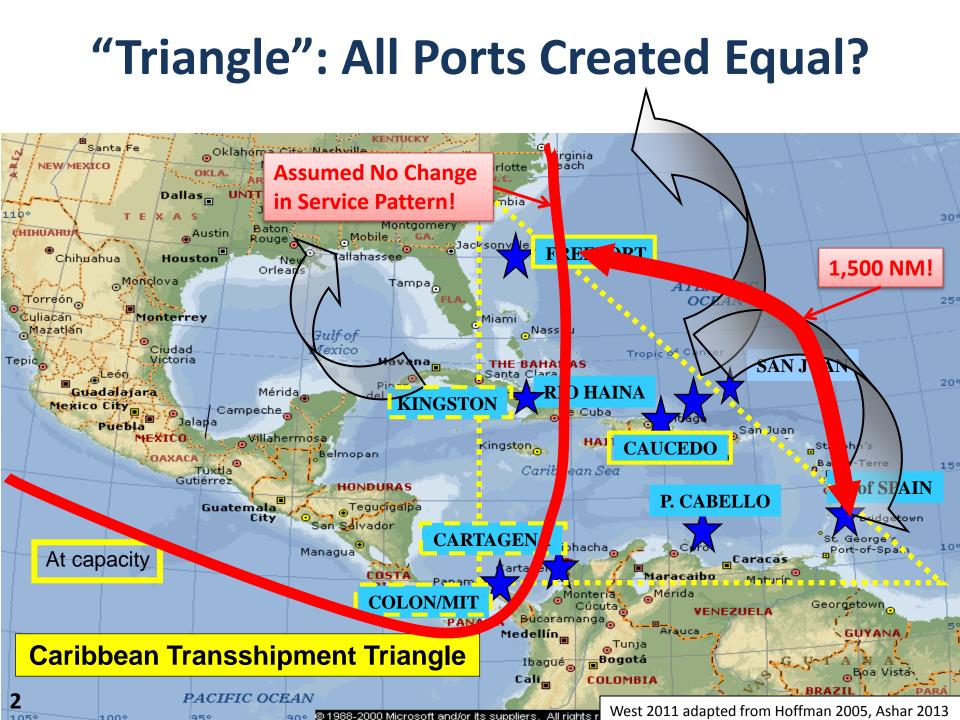
- Types and **Demand** for Transshipment
- Location of Transshipment Hubs
- Impact of Panama Expansion on Service
 Pattern and Transshipment Potentials
- Specialized Pure Transshipment Ports (PTP)
- Summary

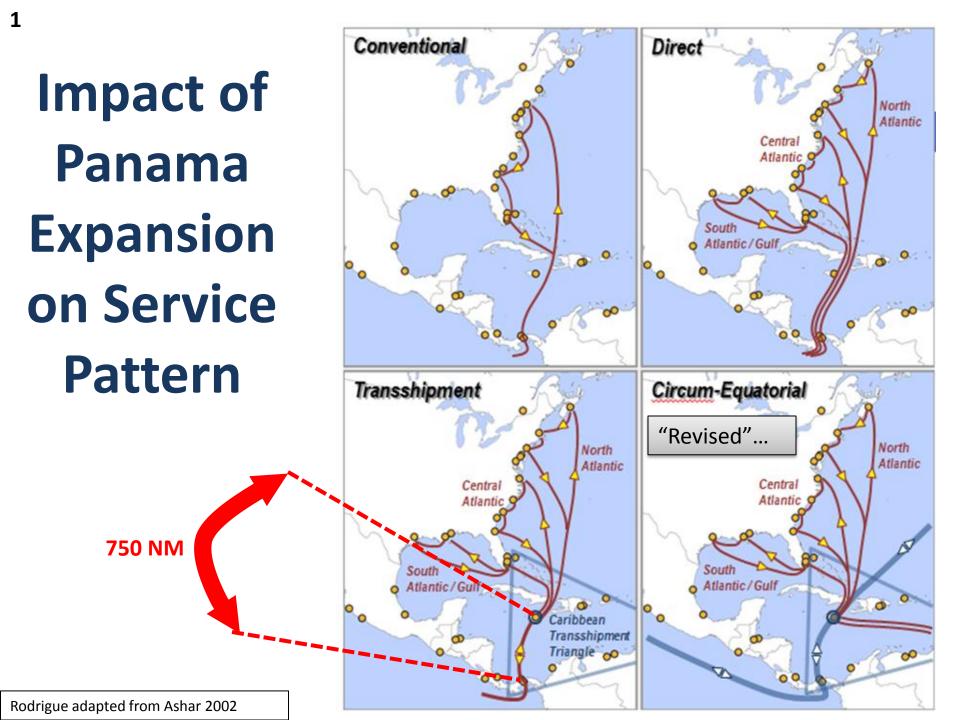
Demand for Transshipment (T/S)

- Types of T/S:
 - Hub & Spoke
 - Interline: Intersection Mixture
 - Interline: End-to-End
- T/S = f(Trade Growth)
 - − Bigger Ships → Fewer calls → more t/s
 - More Direct Calls \rightarrow less t/s
- Cost of T/S (too high...)
- Default T/S Port Restrictions; Unutilized Ships
- Forecasting T/S as Percentage of Regional Trade is No Good! Scenario based.
- Feedering Ranges: Intra-Caribbean vs. US East& Gulf

Hub Location

- Hub & Spoke
 - First In (Minimize Mother Sailing)
 - Asia/US: Prince Rupert / Melford
 - Asia/Europe: Algeciras, La Havre
 - Largest (Minimize Double-Handling)
 - Asia/West Coast S. America: Callao
 - Central (Minimize Feeder Sailing)
 - Asia/Med: Malta, Calgary
 - Special Considerations (US Ports; Jones Act)
- Intersection
 - "Funneling Point" (Maximize Inter-Lining)
 - Panama, Suez, Malacca & Gibraltar Straits

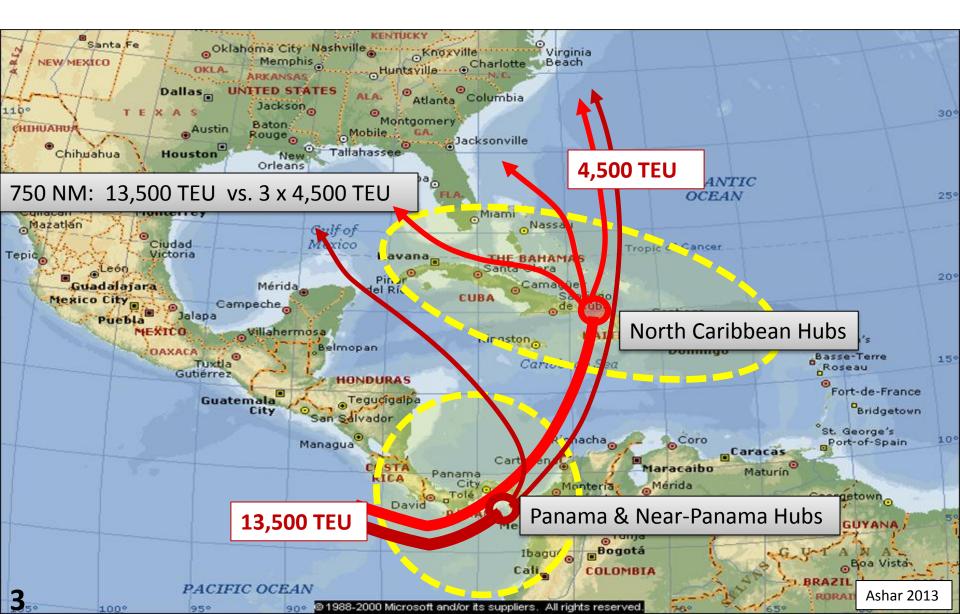




Feedering the USEC?



Panama vs. N Caribbean Hubs



Panama Atlantic vs. North Caribbean

- Cost Differential between 4,500-TEU and 13,500-TEU = \$0.052/FEU-NM
- 750 NM x \$0.052/FEU-NM = \$33/FEU
- 13,500 FEU x 52 x \$33/FEU = **\$23 million/year**

Panama Pacific vs. Callao

- 1,364 NM x 0.052/FEU-NM = **\$59/FEU**
- 13,500 FEU x 52 x \$59/FEU = **\$41 million/year**

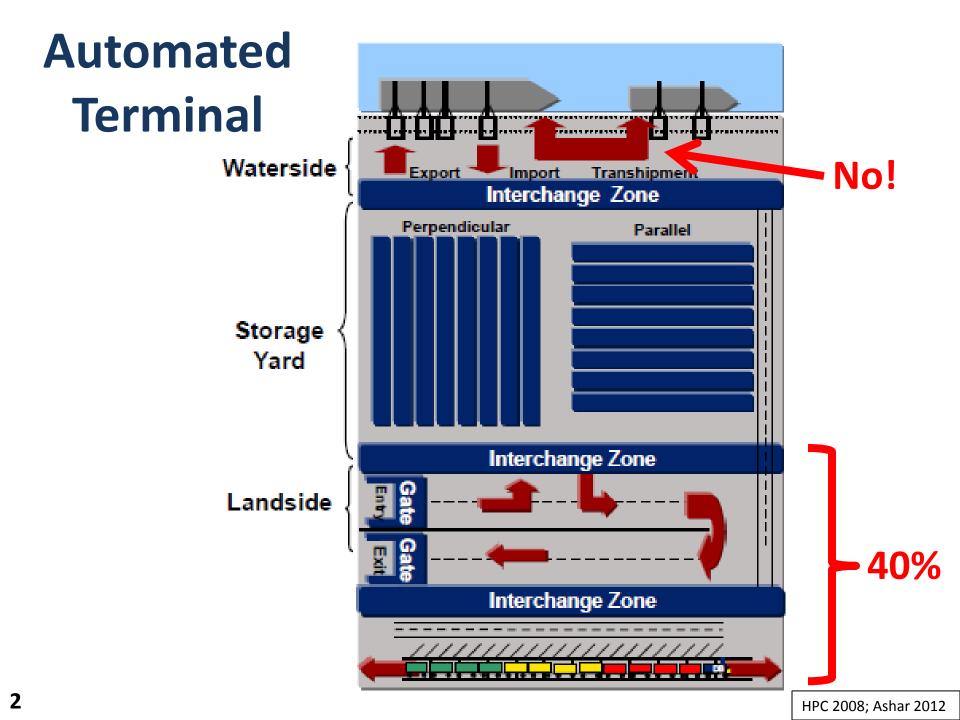
Present Hubs: Kingston

Reclaimed Land; Relatively Small Area

Straddle Carrier; Slow & Expensive

Short & Non-Continuous Berthage

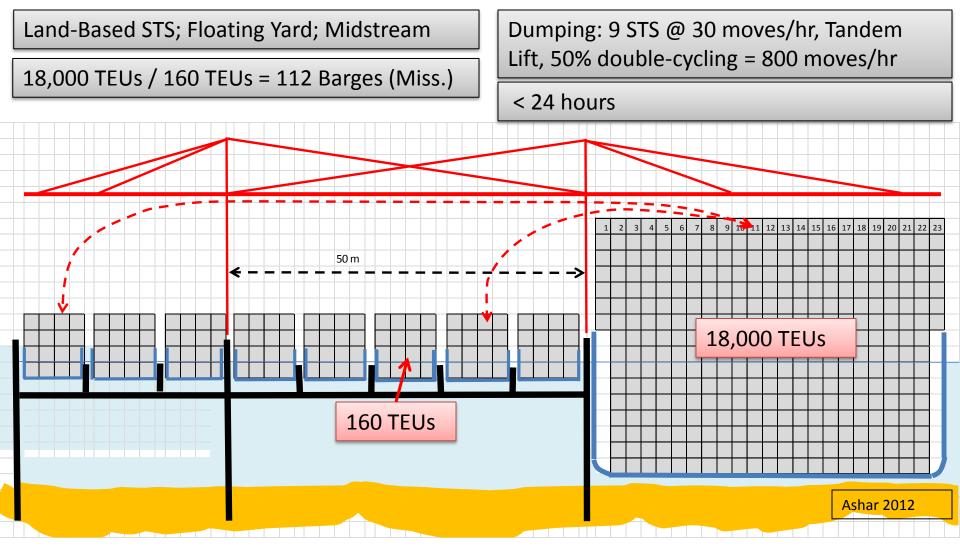
Augusta even More Expensive



Pure Transshipment Ports (PTP)

- Present terminals' design is geared for handling gateway (domestic)
- Automation is "no good" for t/s = Gateway x 2;
 Too Expensive!
- Lowering t/s cost at PTPs either by:
 - Finding *locations* with natural deep water, low-cost land, limited reclamation, low-cost labor; and/or
 - Developing specialized technology for PTPs based on handling groups of containers

Floating Terminal: Ship-to-Barge



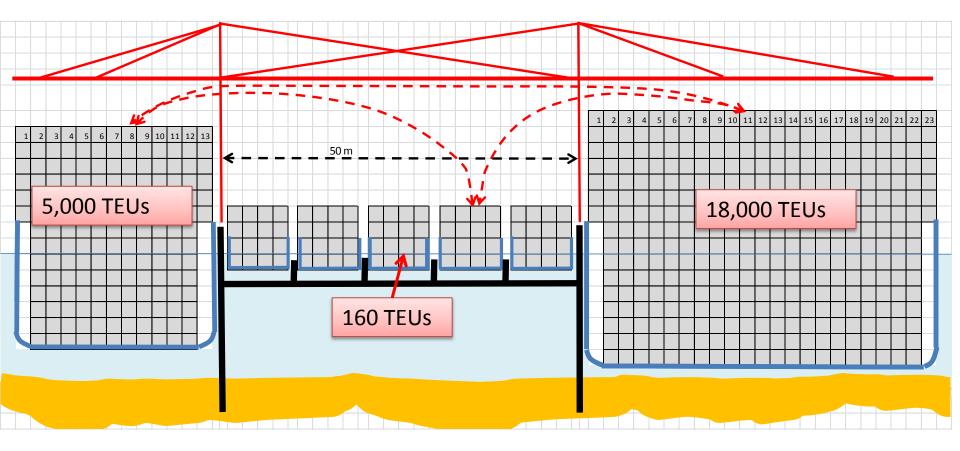
Mississippi River Barge Fleeting



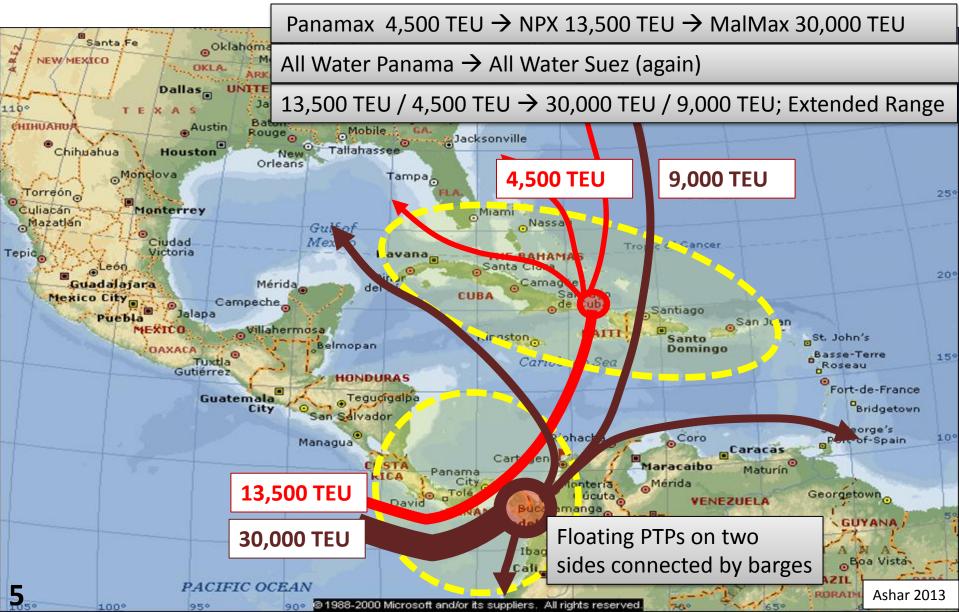
Floating Terminal: Ship-to-Barge-to-Ship

Direct Ship-to-Ship, or Ship-to-Barge-to-Ship

Ideal for Panama Canal!



A Journey into the Long Future



Summary Observations (Near Future)

- Panama / Atlantic : *Modest Opportunities,* mainly Interline t/s due to consolidation; Too far from US; Intra-Caribbean already exploited;
- N. Caribbean: *Major Opportunities*, pending on NPX deployment and US East & Gulf Coast Port Situation
- Panama Pacific: *Major Threats*; No Switch-Back (Maersk); Direct Calls; Regional WCSA Hubs



Thank You!

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