



CANAL DE PANAMÁ






Update on the Panama Canal Expansion



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EVP, Planning and Business Development

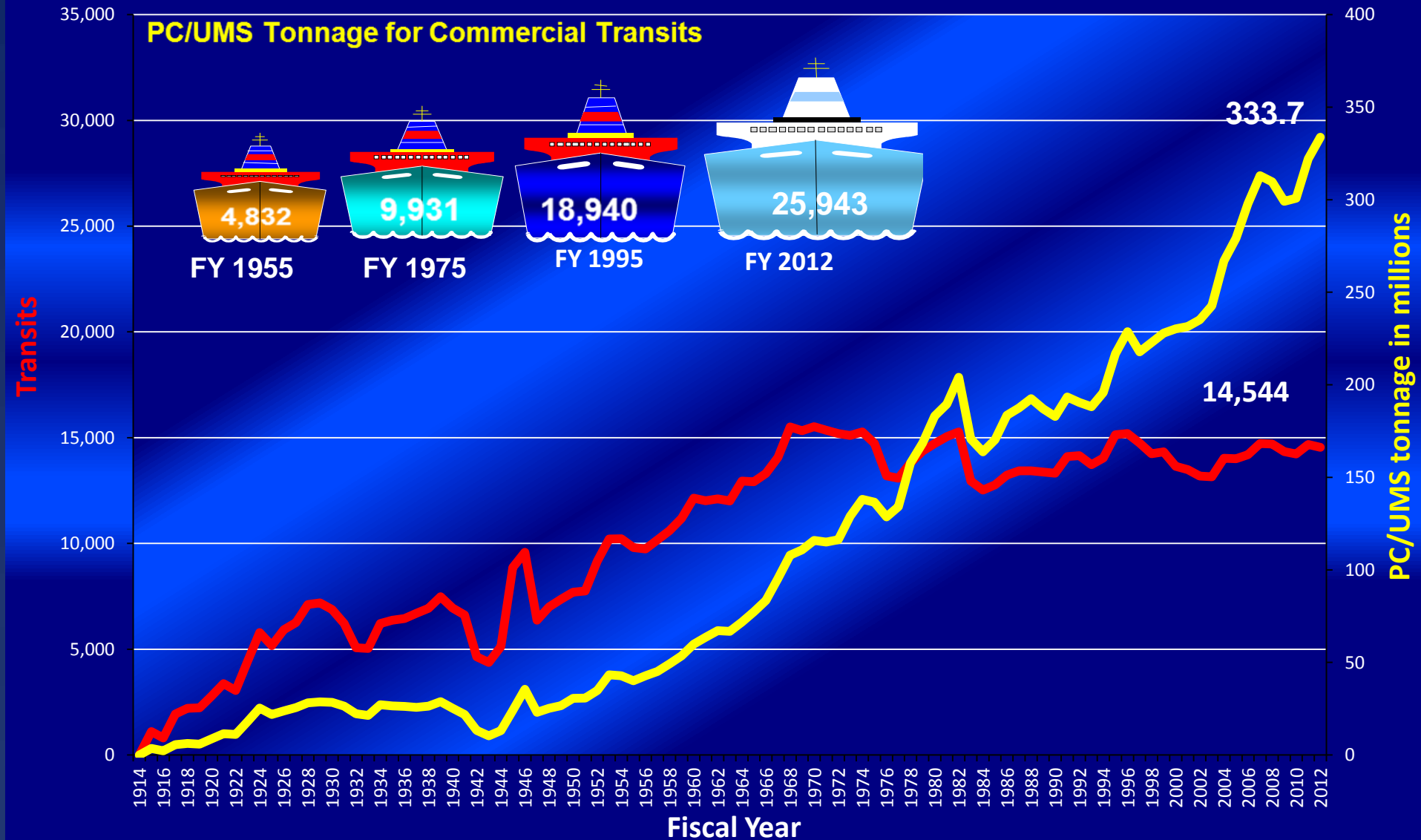
AAPA
January 24, 2013

Agenda

-  **Canal Traffic Update**
-  **Panama Canal Expansion Update (video)**
-  **Macro and Micro Drivers**
-  **Potential Impact of the Expansion**
-  **Canal New Business Development**

Transits vs PC/UMS Tonnage

FY 1914 – FY 2012



Principal Users of the Panama Canal FY 2011 and FY 2012

USERS	FY 2011*	FY 2012*	FY2012 (%)
United States	144.4	141.9	65
China	53.1	52.7	24
Chile	28.9	28.0	13
Japan	22.6	22.4	10
European Union	24.2	17.5	9
South Korea	19.1	17.0	8
Colombia	14.6	14.9	7

65% of the cargo that transits the Panama Canal has the United States as its origin or destination.

* In Million long tons

Principal Trade Routes – FY 2012



Total: 218.1 M Long Tons

East coast U.S. - Asia



84.3M

West coast S. America - East coast U.S.



27.6M

West coast S. America - Europe



14.4M

West coast U.S. — Europe



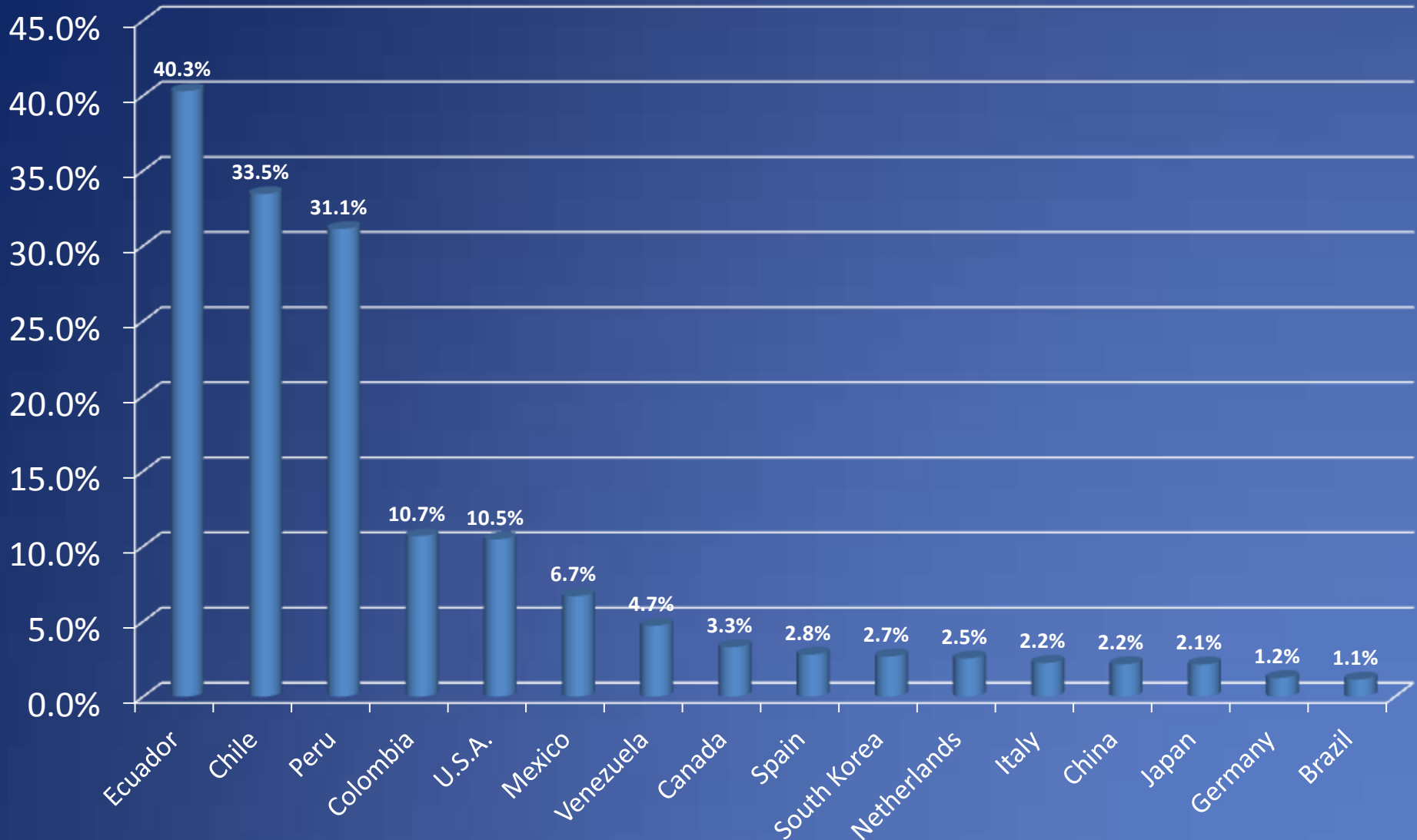
9.7M

West Coast C. America – East coast U.S.

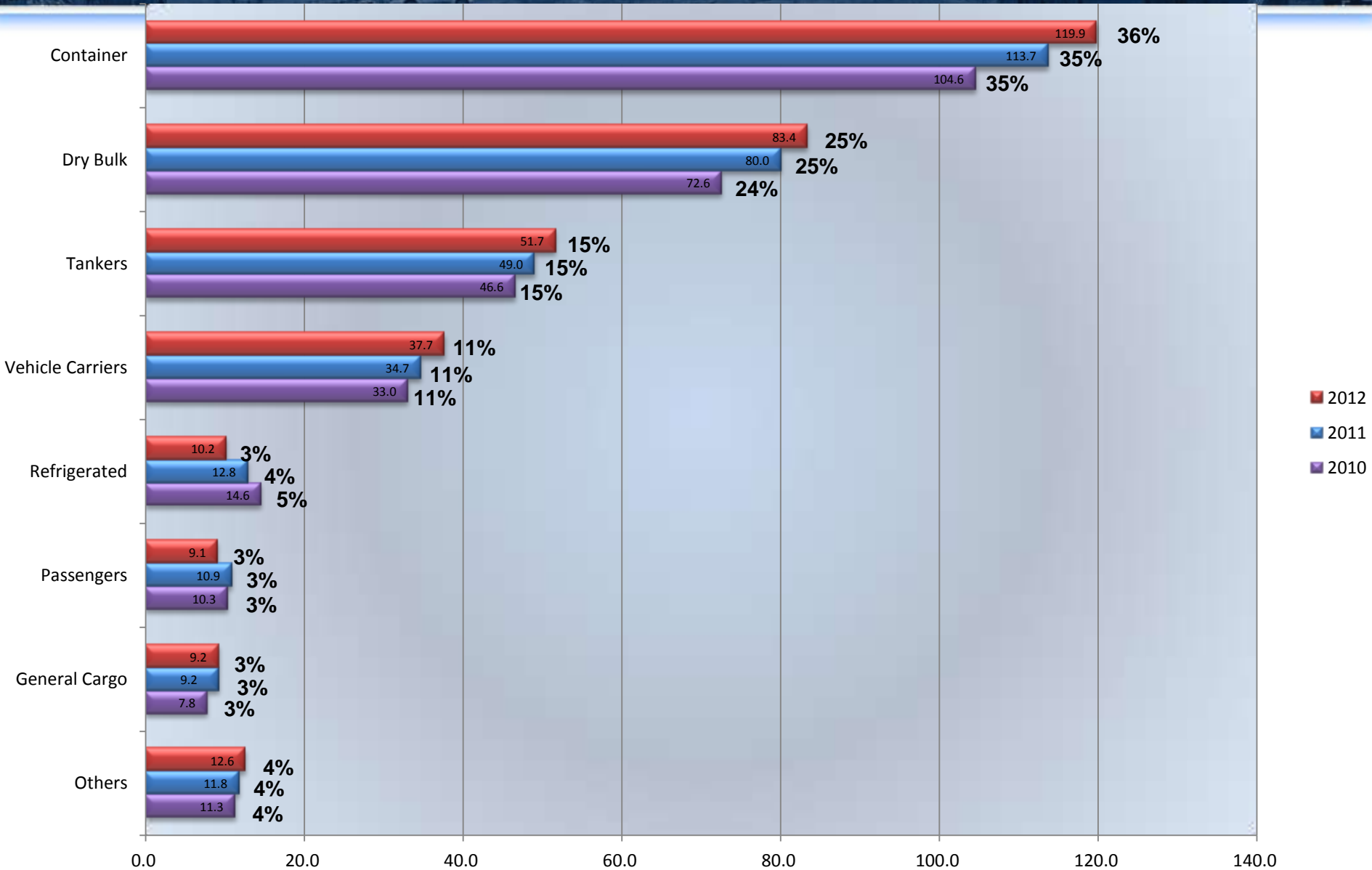


12.2M

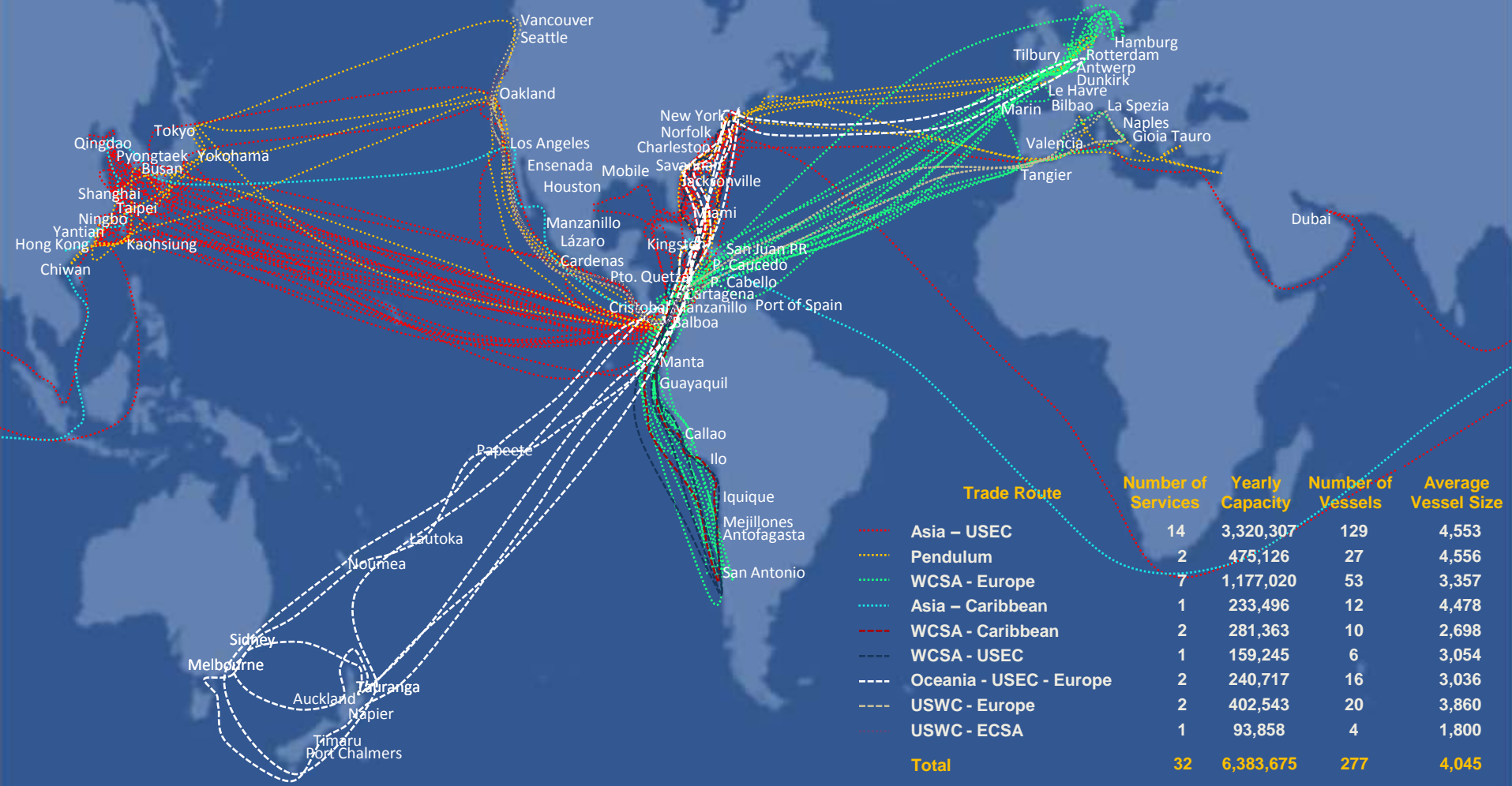
Relative Importance of the Canal on the International Seaborne Trade of Selected Countries



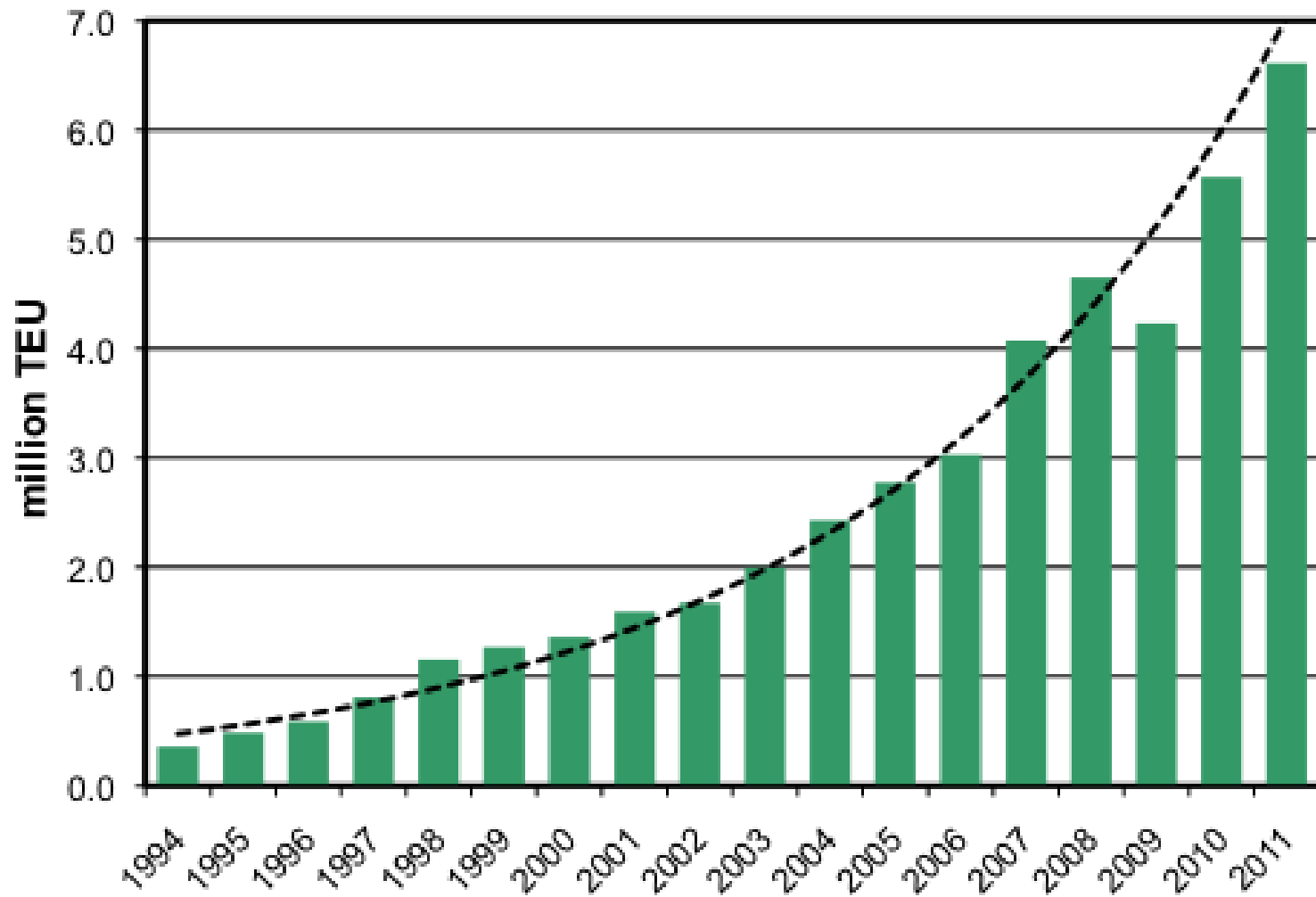
PCUMS '97 Tonnage (Million Tons)



Liner Services Through The Panama Canal



Panama Container Terminals



6.5 million TEU, 18.5%

Port Development in Panama

1996: 235K TEUs
2010: 5.6M TEUs
2011: 6.5M TEUs
2015: 8.4M TEUs
2020: 12.4M TEUs



Panama Ports Company - Cristobal



PSA



Colon Container Terminal



Manzanillo International Terminal (MIT)



Panama Ports Company - Balboa

Inventory of Gantry Cranes - Panama



	Panamax	PPmax*	SPPmax**	Total
PPC-Balboa	8	10	6	24
PPC-CRI	6	5		11
CCT	5	5		10
MIT	2	6	9	17
PSA	3			3
	24	26	15	65

Source: Panamanian Ports, September 2012.

* PPmax=PosPanamax

** SPPmax=SuperPosPanamax

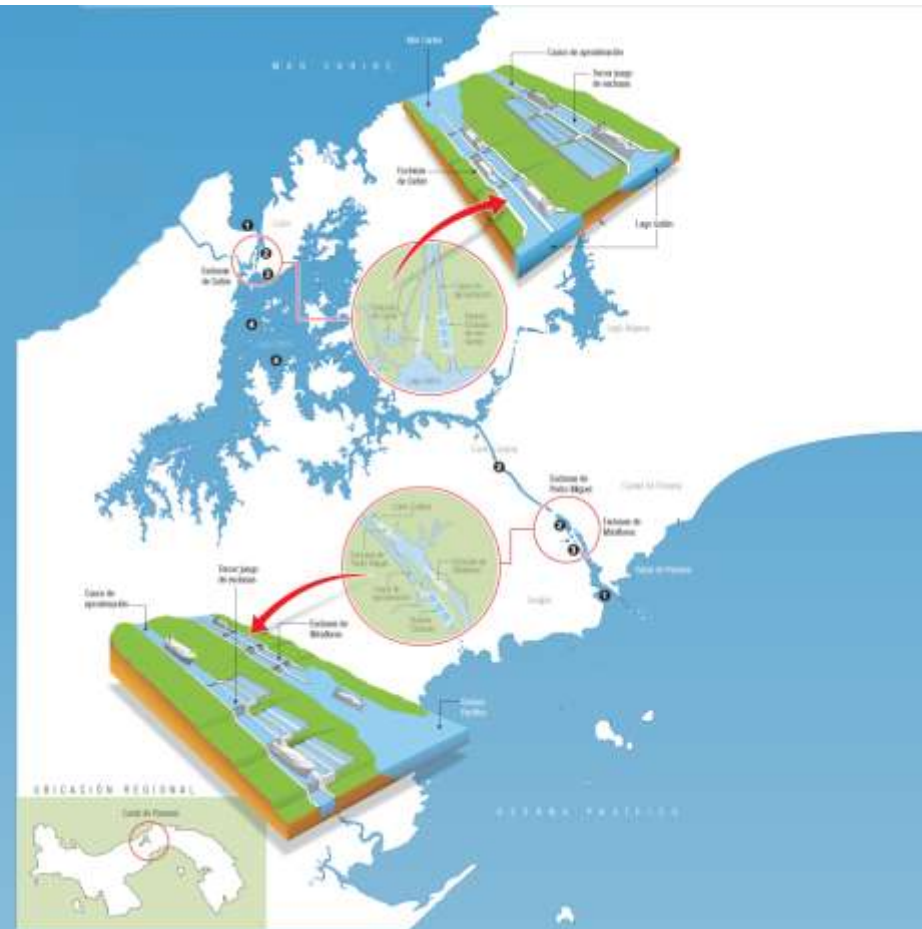
Agenda

 **Canal Traffic Update**

 **Panama Canal Expansion Update (video)**

Canal Expansion Program Components

- Deepening of Pacific and Atlantic entrance channels
- Deepening and widening of the Gatun Lake navigation channel
- Construction of new access channel for Pacific Locks
- Construction of new Post Panamax Locks and water saving basins in the Atlantic and the Pacific
- Increase the maximum operating level of Gatun Lake







NEW LOCKS



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-  **Macro and Micro Drivers**

Seaborne Trade Change Drivers

Macro Fundamentals:

- Population growth and demographics
- Slow economic growth – developed countries
- Globalization and faster growth of developing countries

Microeconomic Paradigms and Trends:





- Volatility in fuel costs and charter rates
- Environmental pressures to reduce emissions
- Increase in logistics costs
- Supply chain: key differentiator
- Risk management: diversification/ flexibility
- Improve Service: flexibility, reliability
- Strong move to E-Commerce: Explosion of Multimodal Transport (sea-air-surface)

Seaborne Trade Change Drivers

Maritime Industry Response:

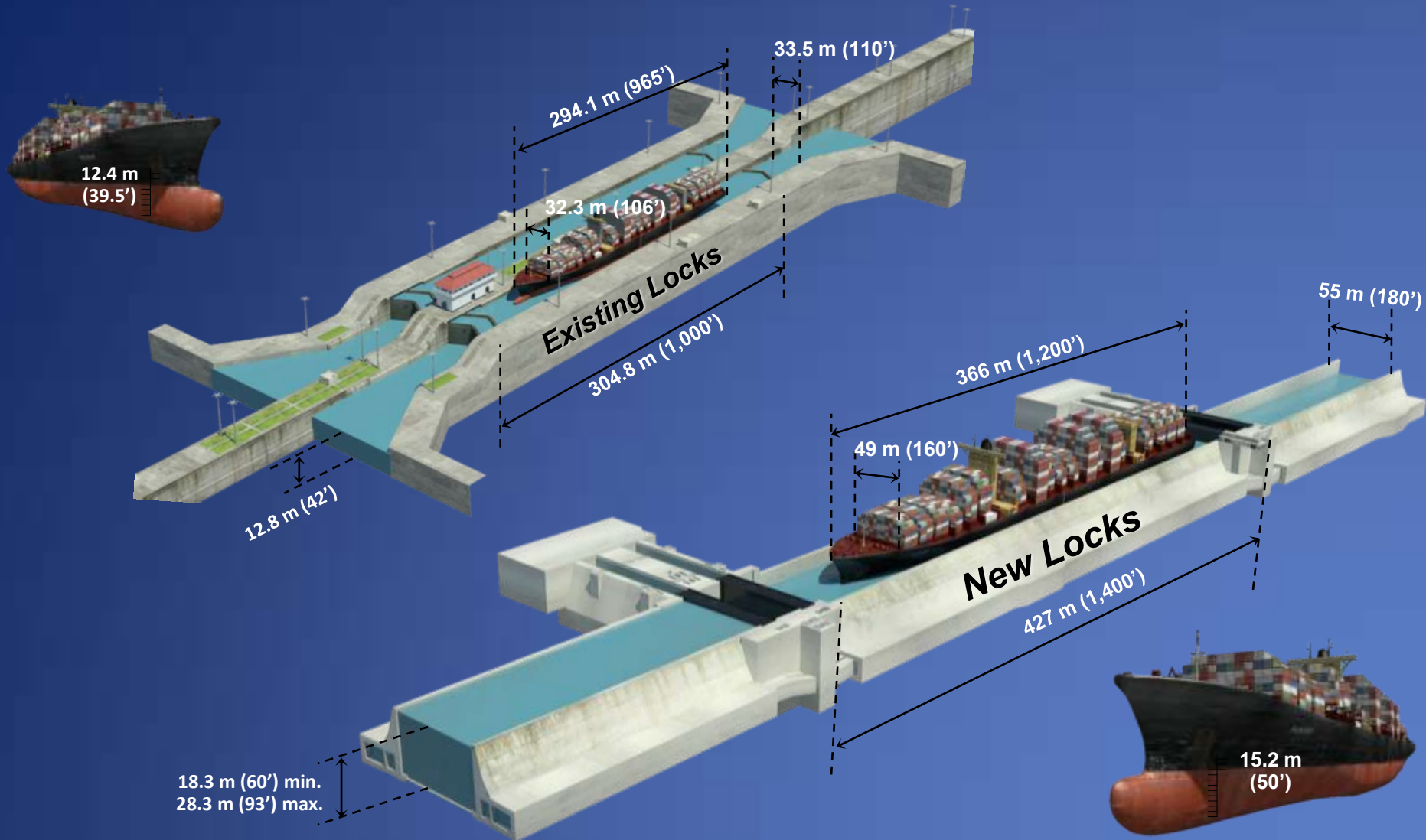
- Bigger and More Efficient Ships
- Better Use of Technology in Ship Management
- Improve Vessel Utilization / Asset Management
- R & D: Use of Cleaner Fuels (LNG)
- Improvements to Port Infrastructure and Suprastructure
- Growth in Transshipment
- Improved Connectivity (Rail/Road)
- Better Tracking / Controls

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-  **Potential Impact of the Expansion**

Dimensions of Locks and Ships

Maximum size of vessels in existing Locks: **4,400 TEU**



Maximum size of vessels in new Locks: **13,200 TEU**

■ CONTAINER – 13,000 TEU

● Main Dimension

- . LOA x B x D : 366.0 x 48.2 x 29.8 m
- . Draft at Td / Ts: 14.0 m / 15.5 m

● Ship's Capacity

- . Deadweight at Ts : 143,500 Ton
- . Container Capacity : 13,200 TEU

● Main Engine & Speed

- . Max. Power : 54,200 kW x 77 RPM
- . Service Speed : 23.5 kts

● Complement

- . Crew 30P + Suez 6P



● Navigation & Communication

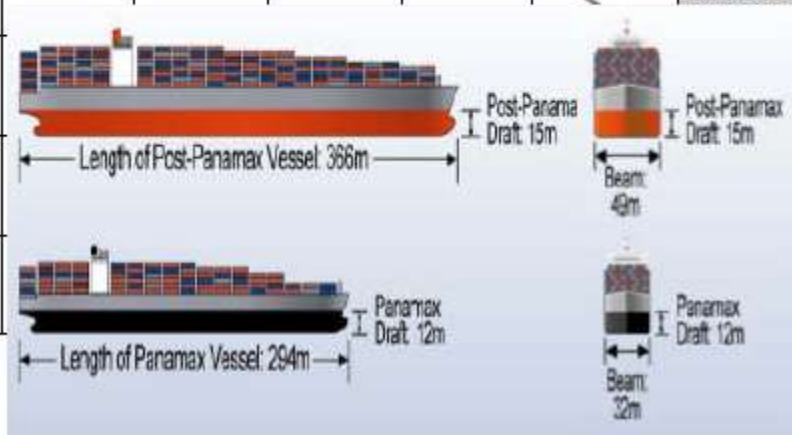
- . 1-INS / 2-Radar Plant
- . 2-DGPS
- . 1-Auto Pilot / 2-Gyro compass

Container – Main Dimension Study

❖ Matrix of Ship's Length & Beam

— Guideline to Expanded Panama Canal (Plan)

LOA Beam	277m	285m	300m	316m	334m	350m	366m	383m	399m	414m	430m
40 m	5,800 TEU	6,300 TEU	6,800 TEU								
42.8 m		6,900 TEU	7,400 TEU	8,000 TEU							
45.6 m			8,100 TEU	8,550 TEU	9,200 TEU						
48.2 m					11,400 TEU	12,200 TEU	13,000 TEU				
51.2 m						13,200 TEU	14,000 TEU	14,700 TEU			
54.0 m							14,400 TEU	15,200 TEU	16,000 TEU		
56.5 m									17,000 TEU	18,000 TEU	
58.0 m									18,000 TEU	19,000 TEU	20,000 TEU



■ CONTAINER – 14,000 TEU

● Main Dimension

- . LOA x B x D : 366.0 x 51.2 x 29.9 m
- . Draft at Td / Ts: 14.5 m / 15.5 m

● Ship's Capacity

- . Deadweight at Ts : 154,000 Ton
- . Container Capacity : 14,100 TEU

● Main Engine & Speed

- . Max. Power : 72,240 kW x 104 RPM
- . Service Speed : 24.2 kts

● Complement

- . Crew 31P + Suez 6P

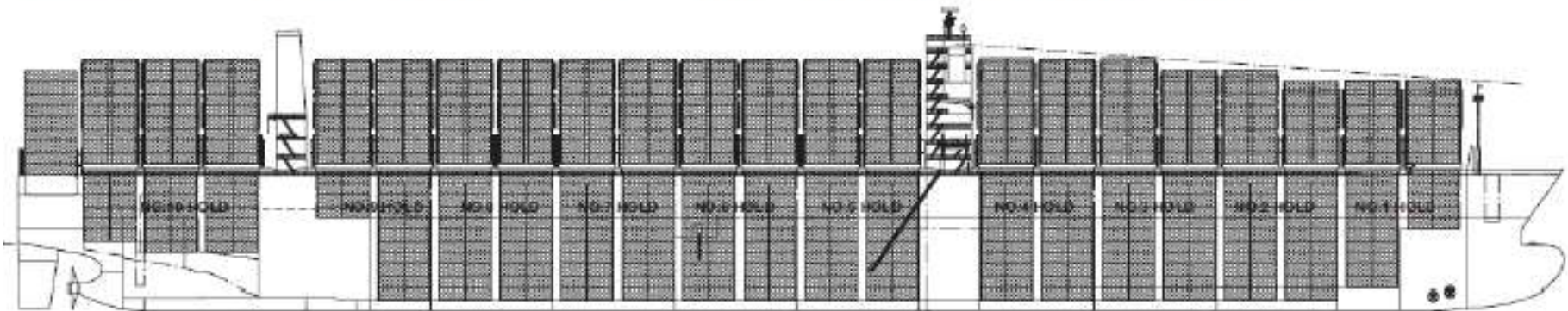


● Navigation & Communication

- . 1-INS / 2-Radar Plant
- . 2-DGPS
- . 1-Auto Pilot / 2-Gyro compass



Size matters - but efficiency is important too !

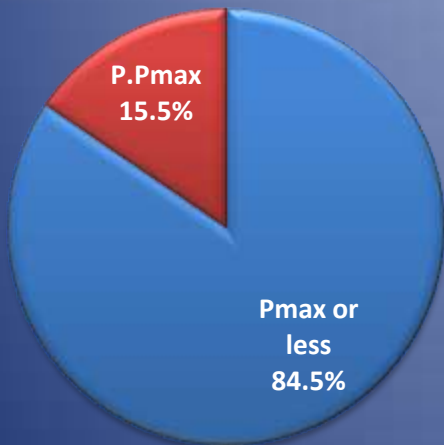


Container Vessel Type	Daewoo 14000 built 2010/2011	Hyundai 13800 2013/2014	9600 Class 2013/2014
Length over all	365,50 m	368,00 m	332,00 m
Beam	51,20 m	51,00 m	48,20 m
Draught	14,00 m	14,50 m	14,00 m
DWT	165.300 mt	152.300 mt	123.500 mt
Main Engine	MAN B&W	MAN B&W	MAN B&W
Output	72.000 kW	53.000 kW	40.500 kW
Container capacity @ 14 tons hom.	14.000 teus 10.650 teus	13.800 teus 10.250 teus	9600 teus 7950 teus
Bunker consumption (18 kts)	152 mt IFO/Day	101 mt IFO/day	83 mt IFO/day
Consumption per nm per ton dwt	2,37 g IFO	1,62 g IFO	1,75 g IFO

Fleet Capacity and Vessel Size Composition

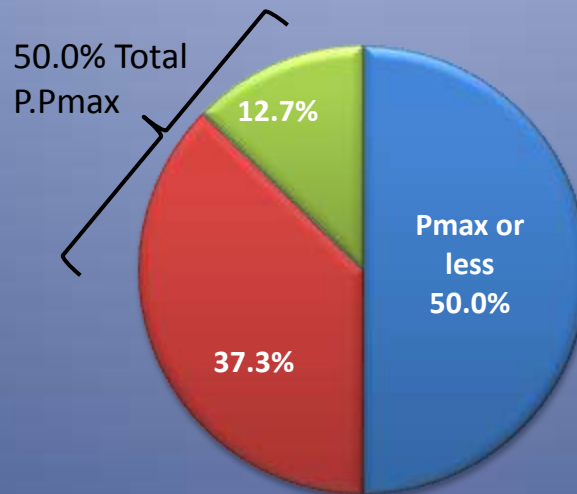
Containership Fleet 2000

(4.79 million TEU)



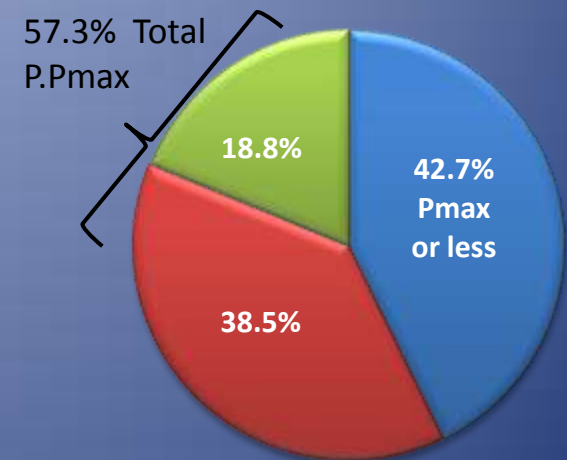
Containership Fleet 2012

(16.2 million TEU)



Containership Fleet 2016

(19.7 million TEU)



0-4,000+ teu 4,000-6,000+ teu

0-5,000 teu 5-10,000 teu 10,000+ teu

0-5,000 teu 5-10,000 teu 10,000+ teu

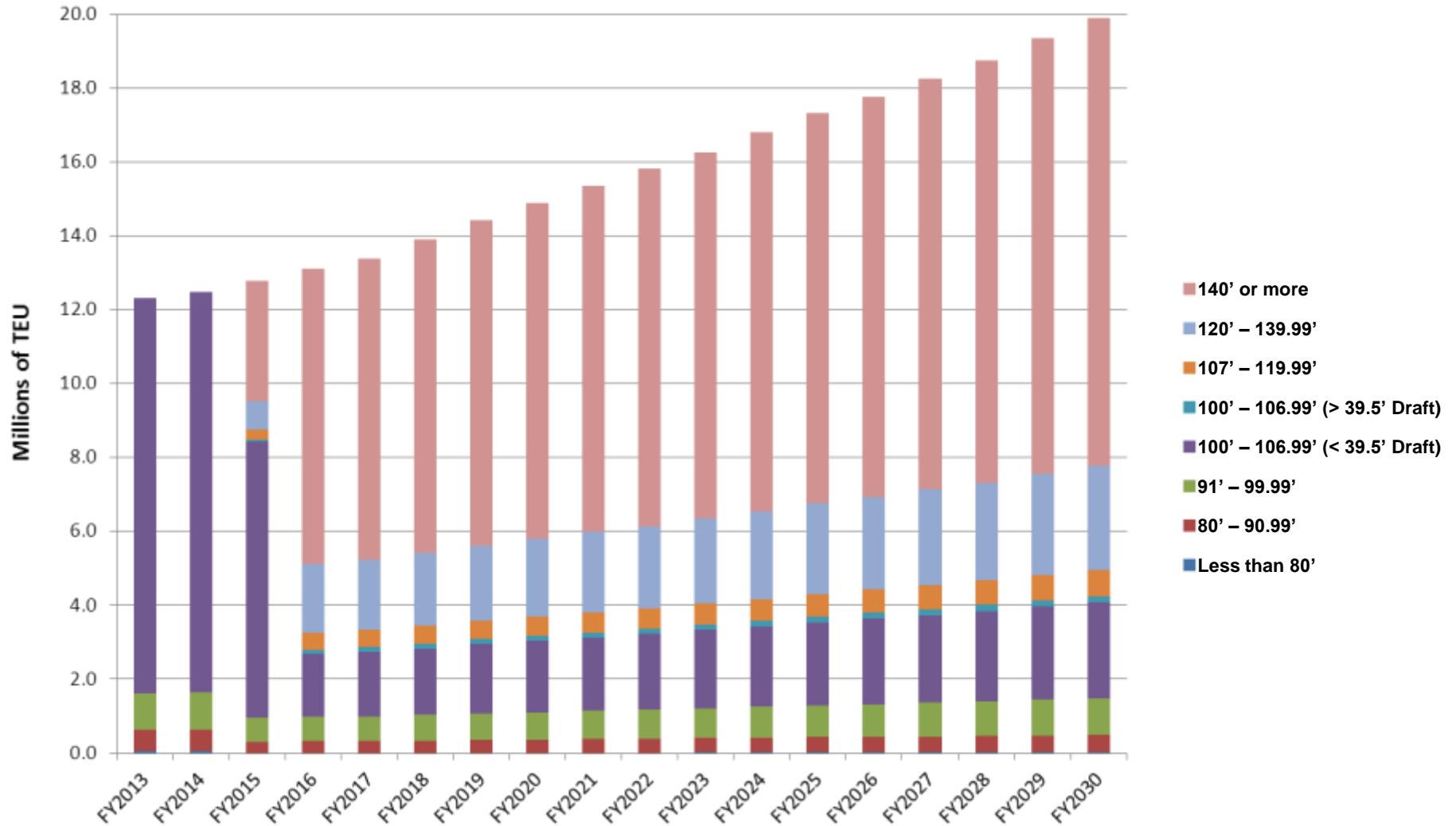
371 Panamax vessels
134 Post Panamax vessels

949 Panamax vessels
1,048 Post Panamax vessels

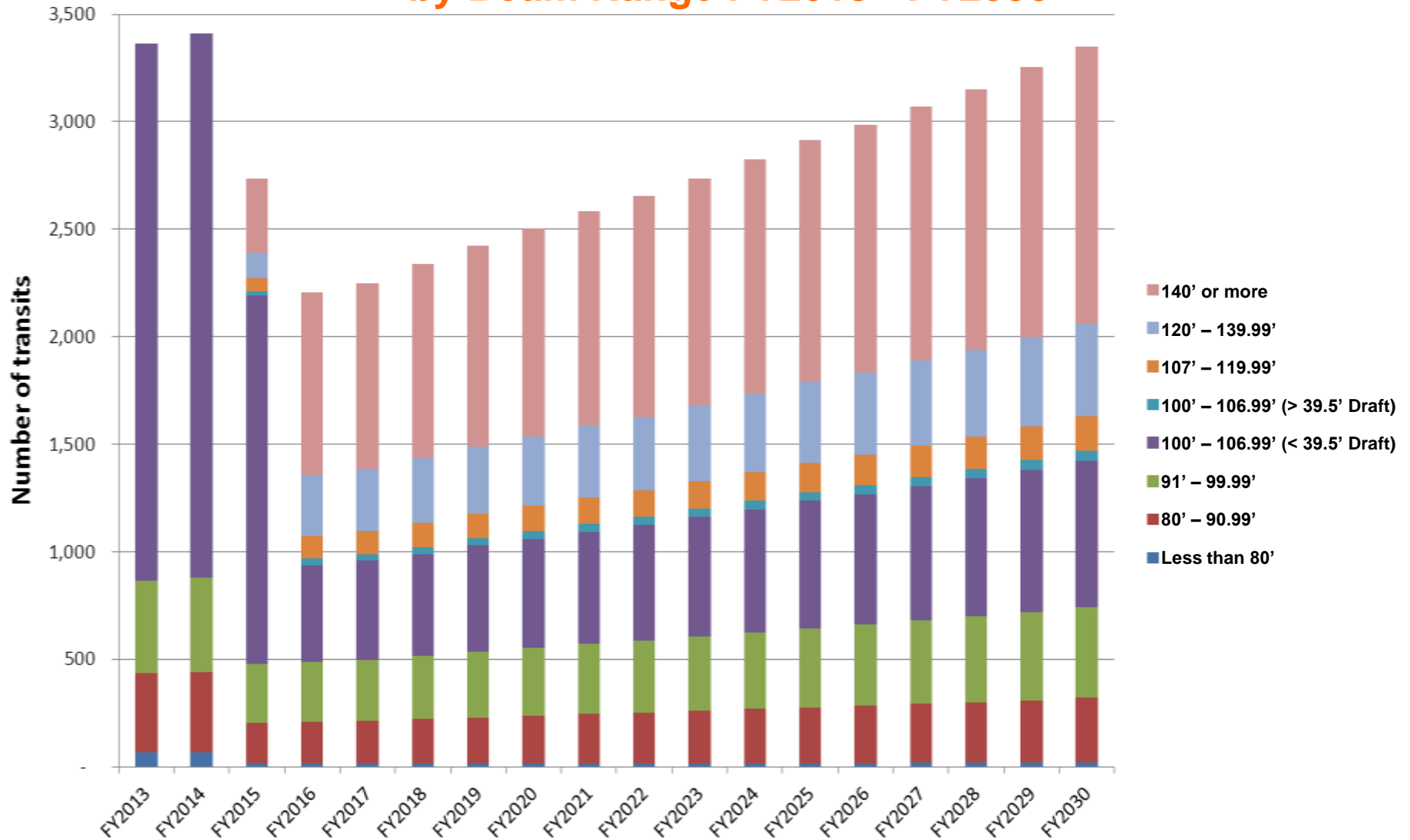
974 Panamax vessels
1,397 Post Panamax vessels



Canal Forecast (Estimated TEU Distribution) by Beam Range FY2013 - FY2030



Canal Forecast (Estimated Transit Distribution) by Beam Range FY2013 - FY2030



Source: Container Market Segment and Transshipment Study, October 2012, ACP/M&N.

**It is all about economies of scale,
improving efficiency, productivity, and
profitability**

Operational Efficiency

Fuel Efficiency

Improve Vessel Utilization

Competitiveness

Environmental Sustainability

Value of Ships - Charter Rates

Ripple Effects and Other Factors

Ports: Ready/not Ready

Adequate Rail/Road Connections

Land Value: Adjacent to Ports

Transshipment (Caribbean Triangle)

Logistics/Supply Chain (Near Sourcing)



The Panama Canal: Market Segment Analysis and Pricing Structure

Full Containers

Full Container Vessels

Cost per TEU (Asia – U.S. East Coast)

Headhaul and Backhaul - FY2015

Increasing Vessel Utilization Scenario

ASIA - UNITED STATES EAST COAST (Headhaul)									
Vessel Size	Vessel Utilization	Fuel	Charter Rate	Ports	Canal	Cargo Handling	Total Cost Per TEU Loaded	Canal Cost Impact (%)	Savings due to Economies of Scale
4500	75%	356.76	325.82	52.75	129.25	480.66	1,345.25	10%	
6000	80%	310.00	228.56	45.23	124.96	510.70	1,219.46	10%	-125.79
8000	85%	267.82	179.04	39.61	112.50	480.66	1,079.62	10%	-265.63
10000	90%	212.20	179.73	35.73	103.80	480.66	1,012.12	10%	-333.13
12000	90%	203.54	162.08	34.62	101.39	480.66	982.30	10%	-362.95
UNITED STATES EAST COAST - ASIA (Backhaul)									
Vessel Size	Vessel Utilization	Fuel	Charter Rate	Ports	Canal	Cargo Handling	Total Cost Per TEU	Canal Cost Impact (%)	Savings due to Economies of Scale
4500	35%	612.23	558.91	70.15	267.81	401.38	1,910.49	14%	
6000	40%	497.88	362.10	55.87	240.93	401.38	1,558.16	15%	-352.33
8000	45%	408.17	269.16	46.01	205.38	401.38	1,330.10	15%	-580.39
10000	50%	308.35	257.30	39.44	180.44	401.38	1,186.92	15%	-723.57
12000	50%	293.91	231.55	38.13	176.10	401.38	1,141.08	15%	-769.41

Assumptions for FY2015:

Panama Canal tolls based on \$74/TEU capacity and \$8/TEU loaded

Impact of Expansion on Container Services (Lines Perspective)



- Cost Based on:
 - 4000 TEU Vessel
 - Canal Tolls proposal January 2011
 - \$ 467/ MT Bunker (HFO)
 - Actual Charter Rate

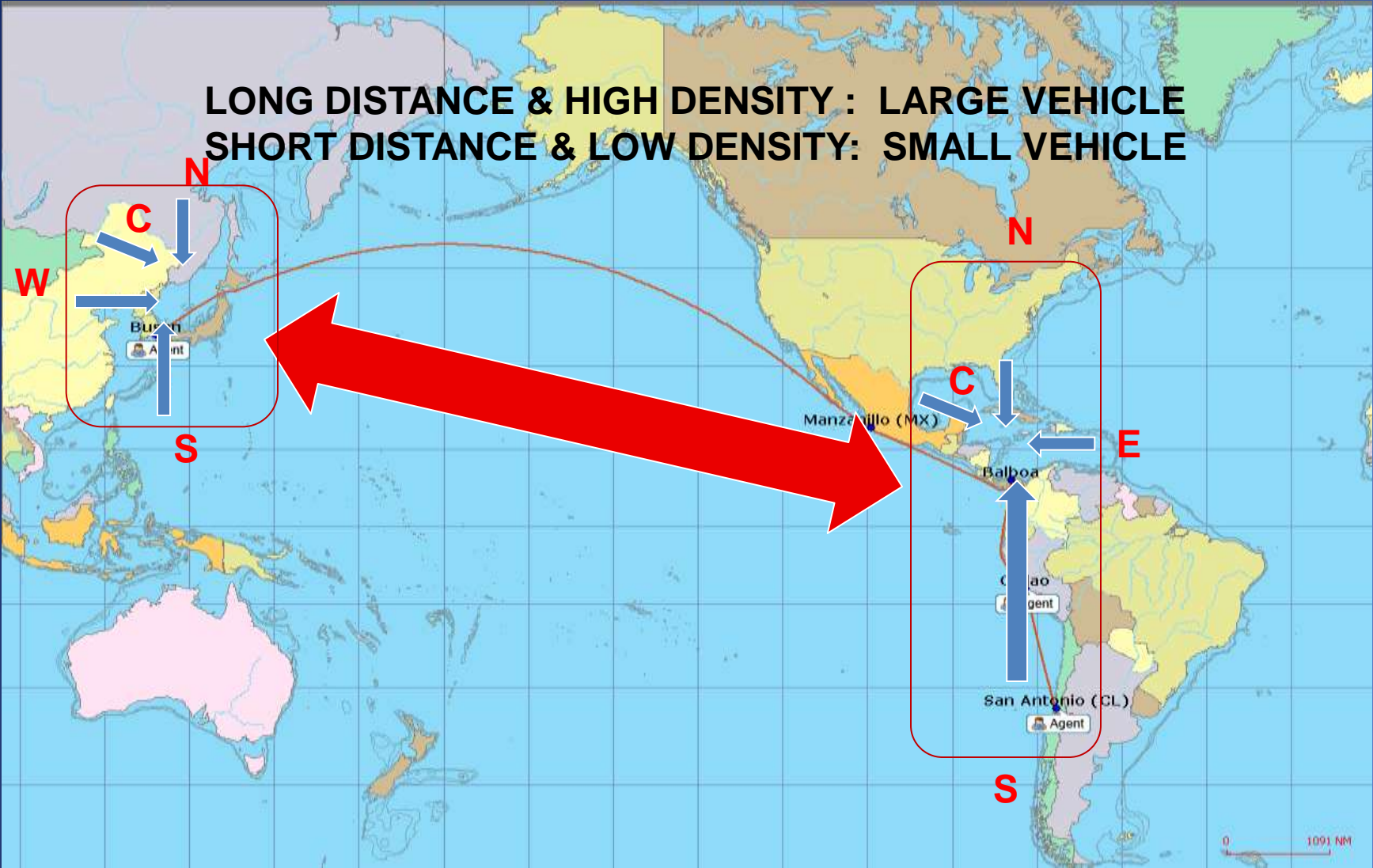
- Cost Based on:
 - 8000 TEU Vessel
 - Canal Tolls proposal January 2011
 - \$ 467/ MT Bunker (HFO)
 - Actual Charter Rate

International Ports Connected through the Panama Canal every Week

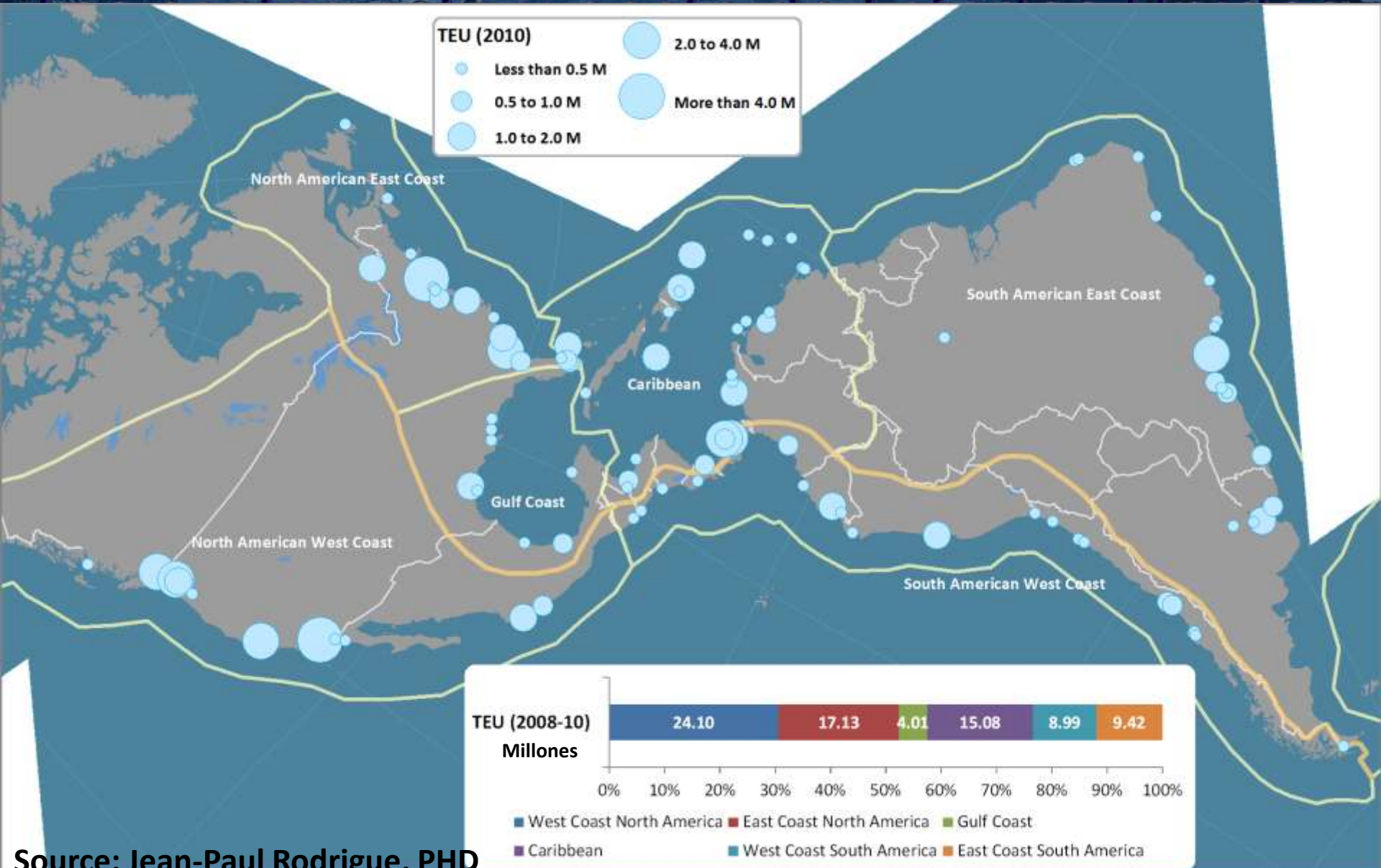


Network Economies

LONG DISTANCE & HIGH DENSITY : LARGE VEHICLE
SHORT DISTANCE & LOW DENSITY: SMALL VEHICLE

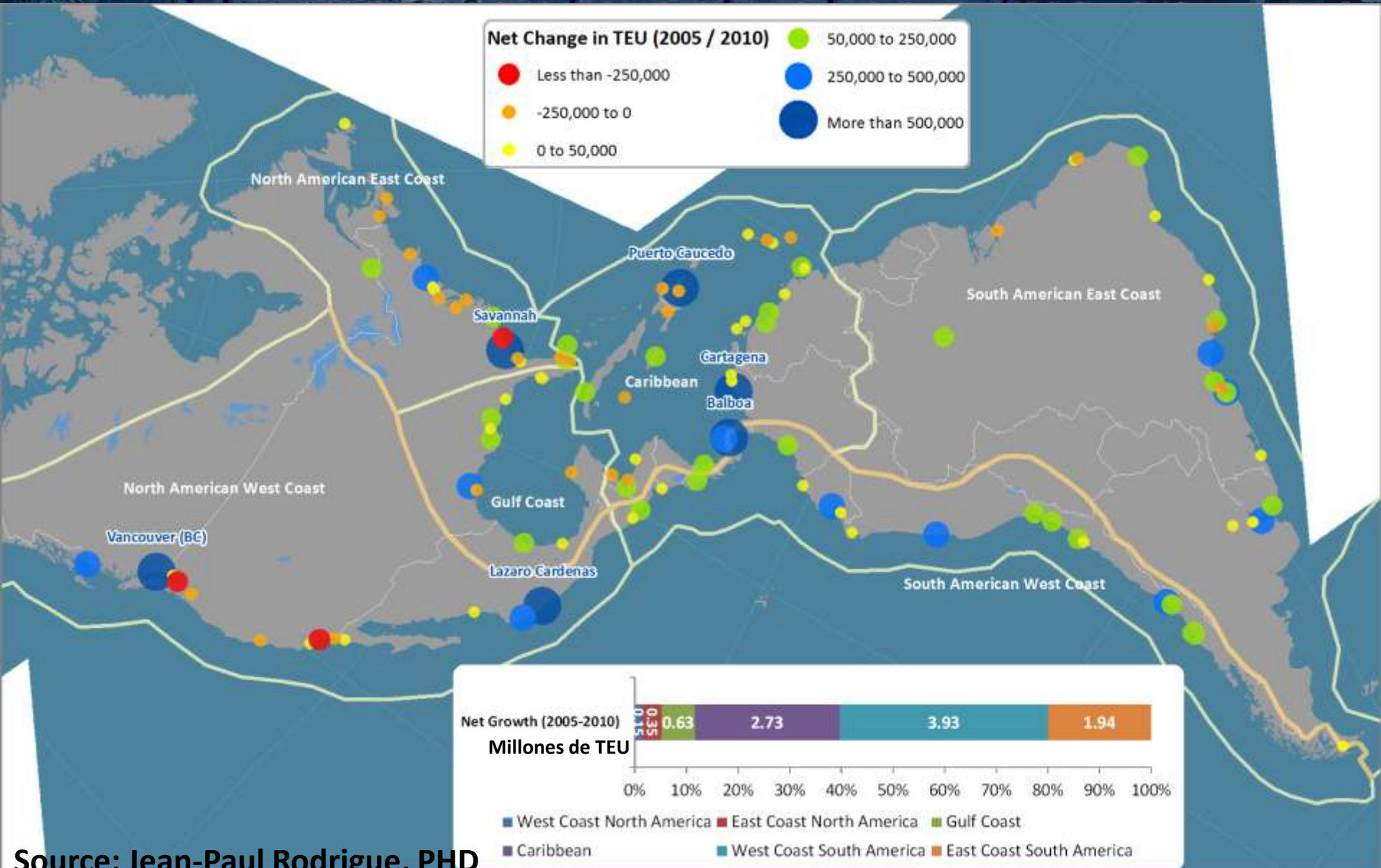


TEU Movement and Regional Hinterlands

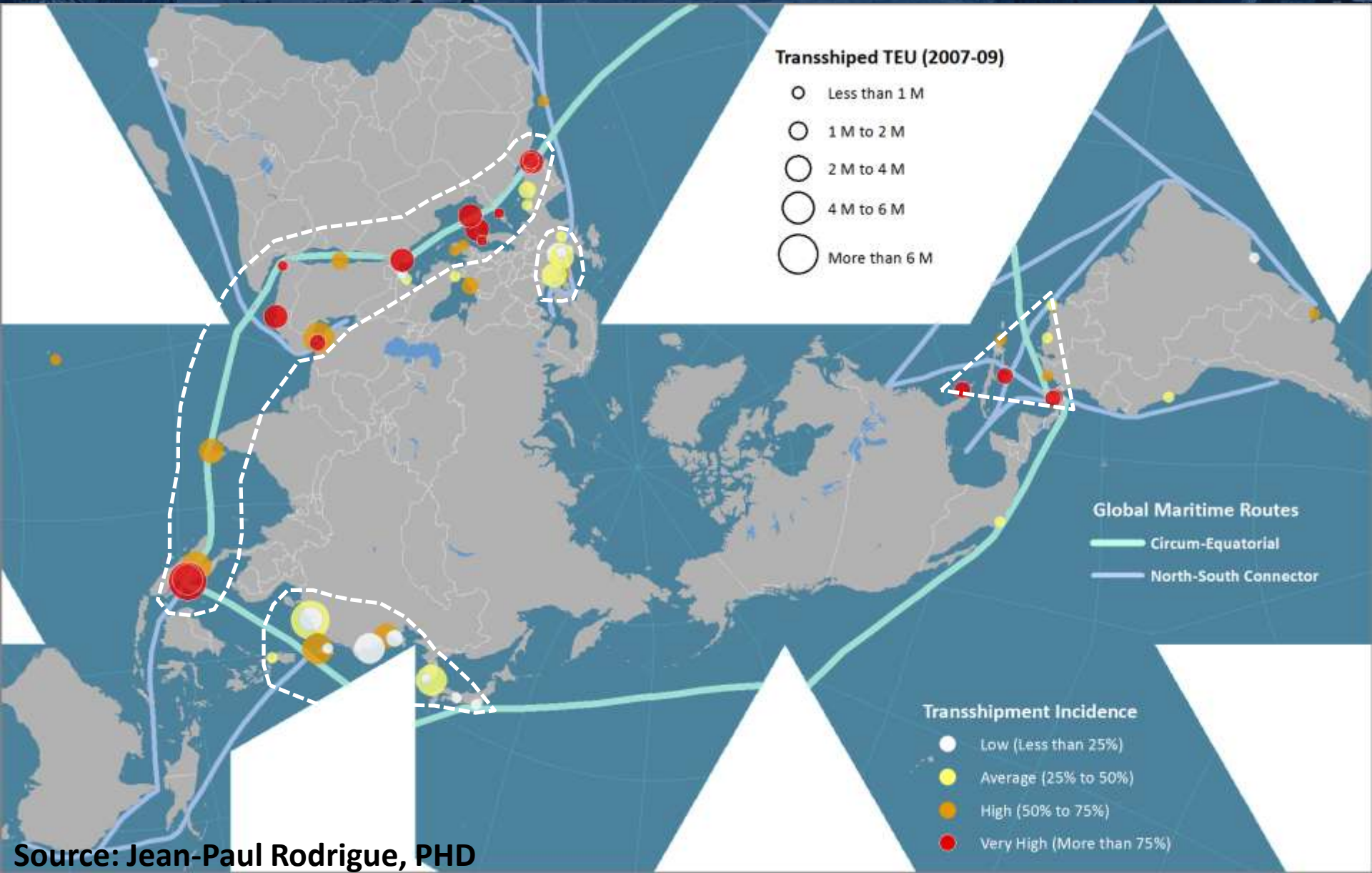


Source: Jean-Paul Rodrigue, PHD

Growth in TEU Movement



Transshipment volumes, 2007-2009



Short Sea Shipping Network

EAST-WEST POST-PANAMAX MOVEMENT

- CONNECTING PORTS
- MANZANILLO
 - LAZARO CARDENAS
 - ACAPULCO
 - SALINACRUZ
 - SAN JOSE
 - PUERTO QUETZAL
 - ACAJUTLA
 - LA LIBERTAD
 - CORINTO
 - PUERTO SANDINO
 - PUNTARENAS
 - CALDERA
 - GOLFITO
 - PUERTO ARMUELLES
 - BALBOA
 - BUENAVENTURA
 - TUMACO
 - ESMERALDAS
 - GUAYAQUIL
 - PAITA
 - CALLAO
 - ANTOFAGASTA
 - VENTANAS
 - VALPARAISO
 - SAN ANTONIO
 - TALCAHUANO
- TAMPICO
 - VERACRUZ
 - COATZACUALCO
 - BELICE CITY
 - PUERTO CORTES
 - PUERTO CASTILLA
 - PUERTO CABEZAS
 - EL BLUFF
 - PUERTO LIMON
 - CHIRIQUI BRANDE
 - CRISTOBAL-MIT-EVERGREEN
 - CARTAGENA
 - BARRANQUILLA
 - PUERTO BOLIVAR
 - PUERTO CABELLO
 - LA GUAIRA
 - SUAP / PCEM
 - RECIFE

Latin America By The Numbers

- 59% of retailers said their supply chains include distribution to and from Latin America
- 25% currently have retail operations in Latin America
- 30% currently have distribution operations in Latin America
- **58% consider entering or expanding Latin American operations in the next five years**

Goods Movement Transformation

“It’s all about speed to market, so there’s a great focus on how we eliminate dwell time.”

-Respondent, RILA 2012 State of Retail Supply Chain Study



89% of RILA Logistics Executives said the canal expansion has value for their worldwide supply chain

The Impact of Canal Expansion on Dry Bulks

1. The USG-Asia grain trade will become more competitive through the use of larger vessels.

2. Potential for increased trade of coal to Asia/China.

Potential Post Panamax Trade US Grain Exports



Grains :US Gulf. – China

Panama: 10,069 nm
Cape of Good Hope: 15,353 mn

Savings 5,284 nm, 14 knots, 16 days less

Potential Impact of the Expansion Soybeans



Potential Post Panamax Trade Coal



180K DWT
Capesize

Coal: US East Coast – China

Panama: 10,389 nm
Cape of Good Hope: 14,688 nm

Savings 4,299 nm, 14 knots, 13 days less

Potential Post Panamax Trade Coal



180K DWT
Capesize

**Coal: East Coast South America -
China**

Panama: 8,975 nm
Cape of Good Hope: 13,972 nm

Savings 4,997 nm, 14 knots, 15 days
less.

Potential Impact of the Expansion Iron Ore



The Impact of Canal Expansion on Liquid Bulks

1. Canal expansion will make Ecuador – USG crude shipments more competitive vs alternative sources .

2. The expanded Canal will be the first route choice for LNG trades between Trinidad-Chile and Peru-USG and for Shale Gas exports coming out of the U.S. destined to Asia.

Potential Post Panamax Trade Crude Oil



Potential Post Panamax Trade LNG



PostPanamax

Cargo capacity:
145,000 m³

**LNG: Trinidad & Tobago –
Quintero, Chile**

Panama: 3,782 nm
Magellan Strait: 6,750 nm

Savings 2968 nm, 19.5
knots, 6.3 days



Potential Post Panamax Trade LNG



PostPanamax

Cargo Capacity:
137,100 m³

LNG: Peru – Spain

Panama: 5,839 nm

Magellan Strait: 9,579 nm

Savings 3,740 nm, 19.5 knots, 8 days less

Potential Post Panamax Trade LNG



PostPanamax






Cargo Capacity:
137,100 m³

LNG: US Gulf– Japan

Panama: 9,214 nm
Suez: 14,570 nm

Savings 5,356 nm, 19.5 knots 11.4
days less

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Panama: The transportation and logistics hub of the Americas

Modern
Logistics
Services

Supply Chain - VAS
Coordinate Procurement,
Delivery, After-Sales Service,
Distributed Production and
Linking Sales with Production

Modern Logistics - IT
Order Processing, Inventory Management, Transloading,
Distribution Networks, Reverse Logistics, Customization

Traditional Logistics - Physical
Transport, Consolidation, Storage, Forwarding, Clearance, Transshipment, Packaging

PORT CONTAINER TRAFFIC IN LATIN AMERICA AND THE CARIBBEAN 2011, BY PORT
(Thousands of TEUs)

Port	Country	2009	2010	2011	Percentage change
1 Colón (MIT, Evergreen, Panama Port)	Panama	2 210 720	2 810 657	3 371 714	20.00
2 Balboa	Panama	2 011 778	2 758 506	3 232 265	17.20
3 Santos	Brazil	2 255 862	2 715 568	2 985 922	10.00
4 Cartagena (inc. S.P.R, El Bosque, Contecar,ZP)	Colombia	1 237 873	1 581 401	1 853 342	17.20
5 Buenos Aires (inc. Exolgan)	Argentina	1 412 462	1 730 831	1 851 687	7.00
6 Manzanillo	Mexico	1 110 356	1 511 378	1 762 508	16.60
7 Kingston	Jamaica	1 728 042	1 891 770	1 756 832 ^a	-7.10
8 Callao (inc. DPW/ APM)	Peru	1 089 838	1 346 186	1 616 165	20.10
9 Guayaquil	Ecuador	884 100	1 123 098	1 405 762	25.2
10 Freeport	Bahamas	1 297 000	1 125 000	1 116 272	-0.80
11 Itajai (inc. Navegantes)	Brazil	593 359	957 130	983 985	2.80
12 Valparaiso	Chile	677 432	878 787	973 012	10.70
13 Caucedo	Dominican Republic	906 279	1 004 901	960 000 ^b	-4.50
14 Lazaro Cárdenas	Mexico	591 467	796 023	953 497	19.80
15 San Antonio	Chile	729 033	870 719	928 432	6.60
16 Limón-Moin	Costa Rica	748 029	858 176	901 330	5.00
17 Montevideo	Uruguay	588 410	671 952	861 164	28.20
18 Buenaventura (inc. SPR, TCBUEN and ZP)	Colombia	647 323	662 821	748 305	12.90
19 Veracruz	Mexico	564 315	662 537	732 538	10.60

Source: Gabriel Pérez Salas, Infrastructure Services Unit, Natural Resources and Infrastructure Division (NRID), ECLAC, United Nations, 2012.

Note: The ranking is prepared using public information or data provided by ports themselves or national organizations to ECLAC. The most up-to-date version of this ranking is available on line at: <http://www.ECLAC.org/id.asp?id=45897>.

a Estimate.

b Provisional.

Panama and the World rank



Quality of port infrastructure

1. Netherlands
2. Singapore
3. Hong Kong
4. **Panama**
5. UAE
6. Belgium
7. Finland
8. Iceland
9. Germany
10. Bahrain
11. Sweden
12. United Kingdom
13. Denmark
14. Spain
15. Malta

Well developed and efficient by international standards

Affordability of financial services

1. Hong Kong
2. **Panama**
3. Luxembourg
4. Taiwan, China
5. Singapore
6. Qatar
7. Bahrain
8. Switzerland
9. Finland
10. Norway
11. Malaysia
12. Puerto Rico
13. United States
14. Saudi Arabia
15. United Kingdom

Ensure the provision of financial services at affordable prices

Soundness of banks

1. Canada
2. South Africa
3. New Zealand
4. **Panama**
5. Australia
6. Finland
7. Hong Kong
8. Singapore
9. Norway
10. Barbados
11. Chile
12. Lebanon
13. Malta
14. Brazil
15. Mauritius

Generally healthy with sound balance sheets

FDI and technology transfer

1. Ireland
2. Qatar
3. **Panama**
4. Singapore
5. Costa Rica
6. UAE
7. Luxembourg
8. Saudi Arabia
9. Slovak Republic
10. Hong Kong
11. Bahrain
12. Hungary
13. Uruguay
14. Israel
15. Mexico

Foreign direct investment (FDI) bring new technology

Business impact of rules on FDI

1. Ireland
2. Singapore
3. Bahrain
4. Hong Kong
5. **Panama**
6. Luxembourg
7. Uruguay
8. Slovak Republic
9. Mauritius
10. Malaysia
11. Taiwan, China
12. Chile
13. United Kingdom
14. UAE
15. Estonia

Rules governing foreign direct investment (FDI)



Copa Airlines



Hub of the Americas
P A N A M A



Connected, everything is possible

HUB of
THE AMERICAS
P A N A M A

Copa Airlines 

A STAR ALLIANCE MEMBER 

All Destinations

North America

[Cancun, Mexico](#)
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[Las Vegas, USA](#)
[Los Angeles, USA](#)
[Mexico DF, Mexico](#)
[Miami, USA](#)
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Central America

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South America

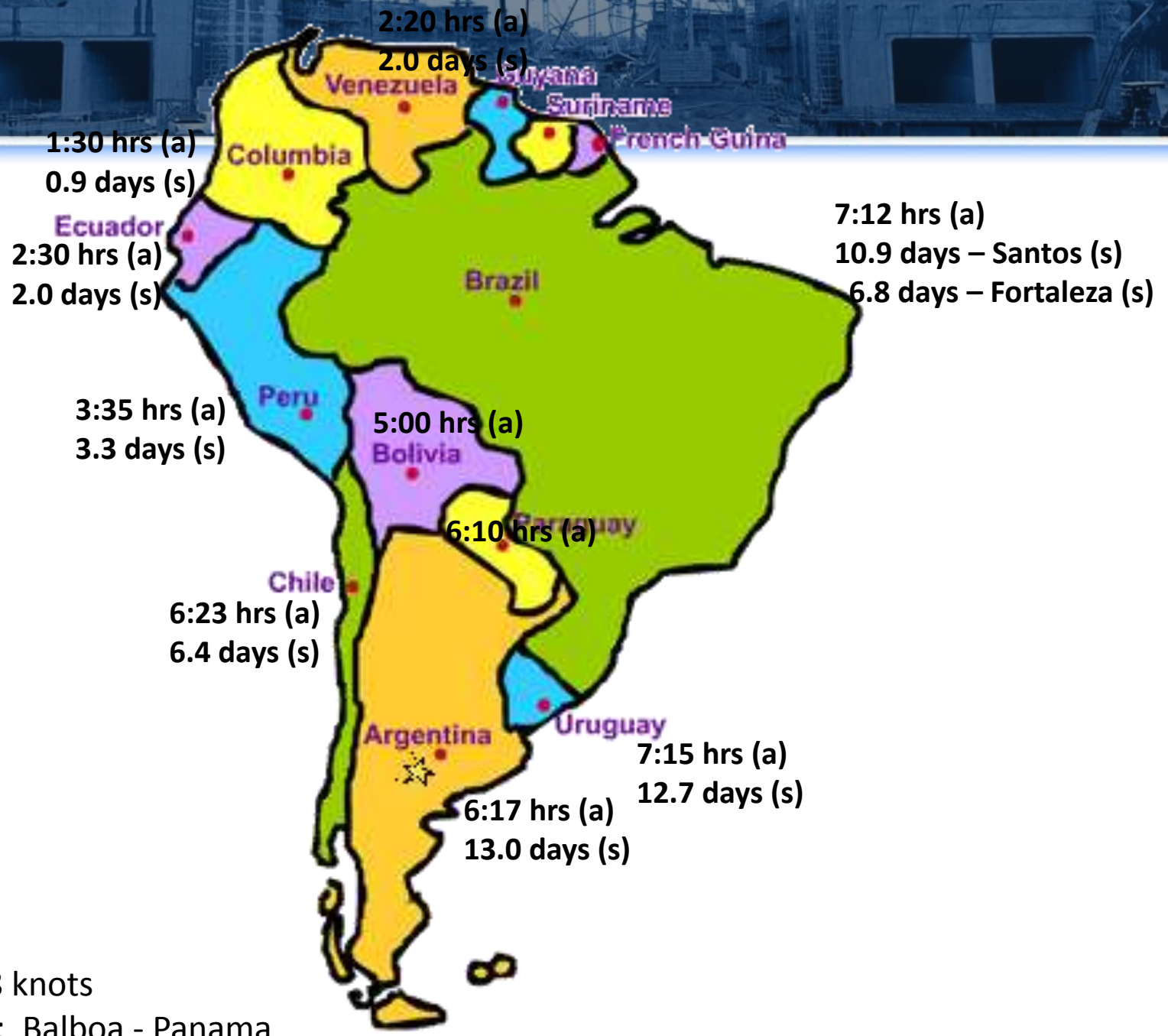
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Caribbean

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[Punta Cana, Dominican Republic](#)
[San Juan, Puerto Rico](#)
[Santiago de los Caballeros, Dominican Republic](#)
[Santo Domingo, Dominican Republic](#)
[St Maarten, Netherlands Antilles](#)



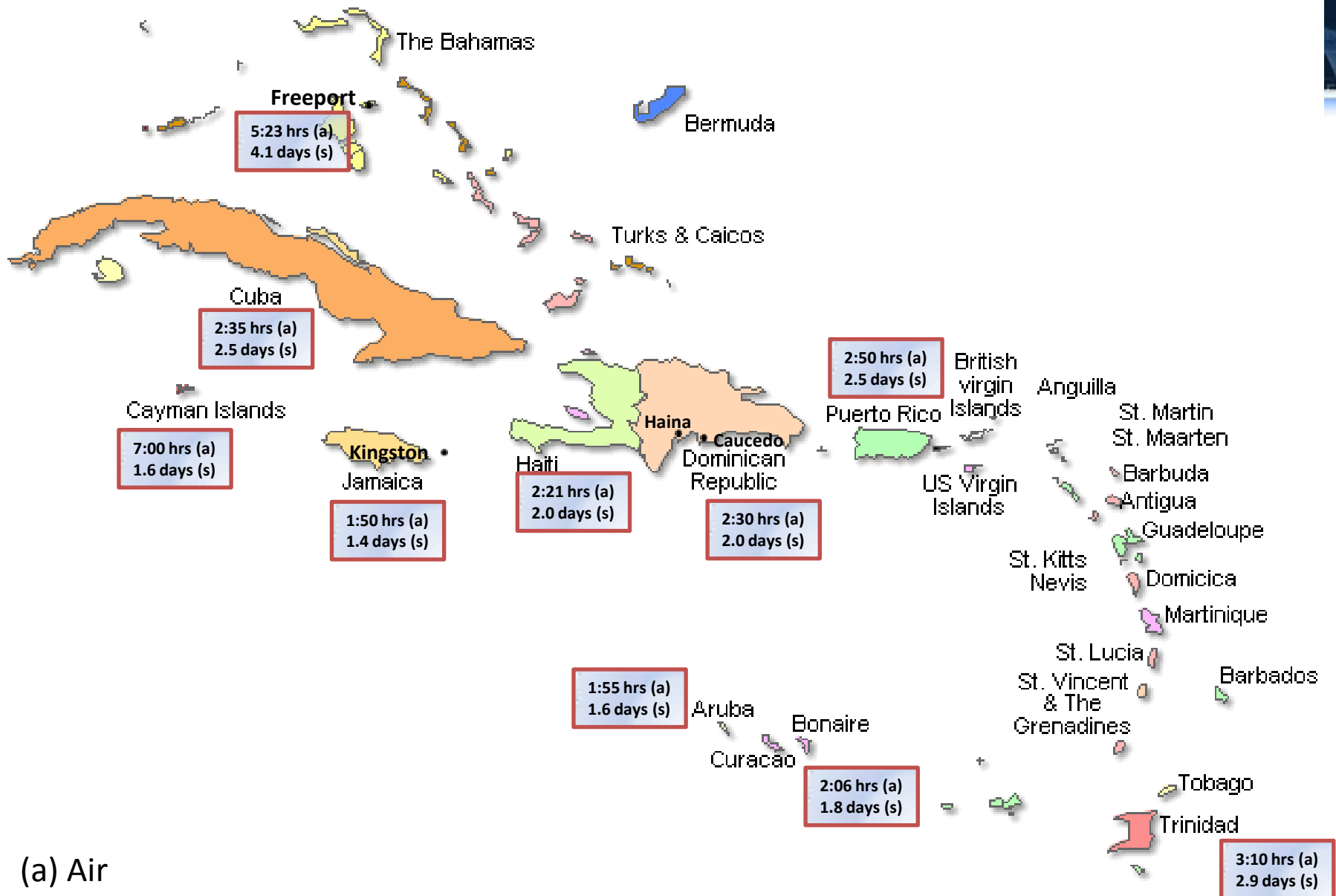
(a) Air
 (s) Sea – 18 knots
 Origin port: Balboa - Panama



(a) Air

(s) Sea – 18 knots

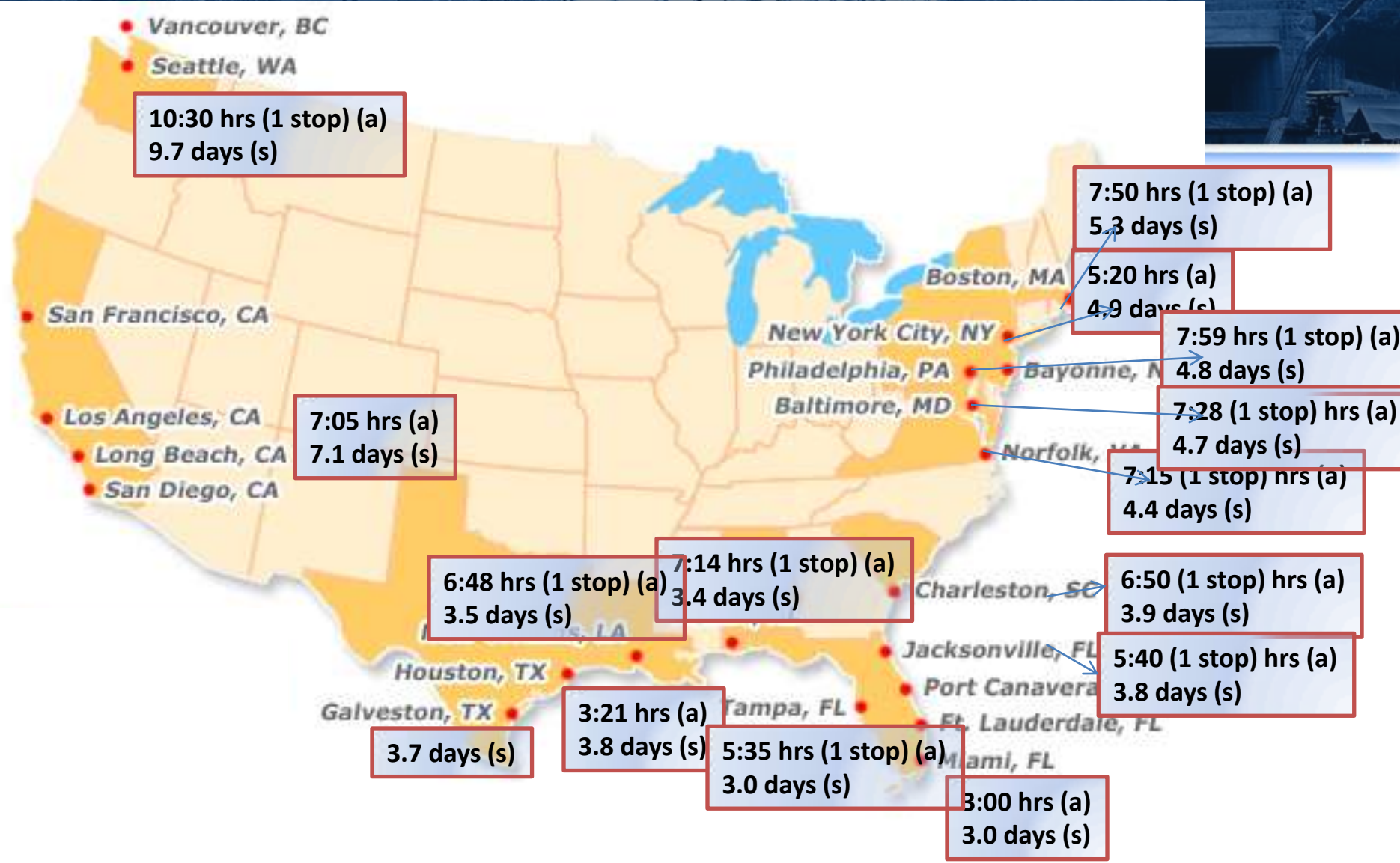
Origin port: Balboa - Panama



(a) Air

(s) Sea – 18 knots

Origin port: Balboa - Panama



(a) Air

(s) Sea – 18 knots

Origin port: Balboa - Panama



**CCT
491K
TEU**

**P. Cristobal
980K TEU**

**MIT
1.9 M
TEU**

**MIT
Logistics**

**MIT
Heavy
Equipment**

**Free
Zone**

**MIT
Heavy
Equipment**

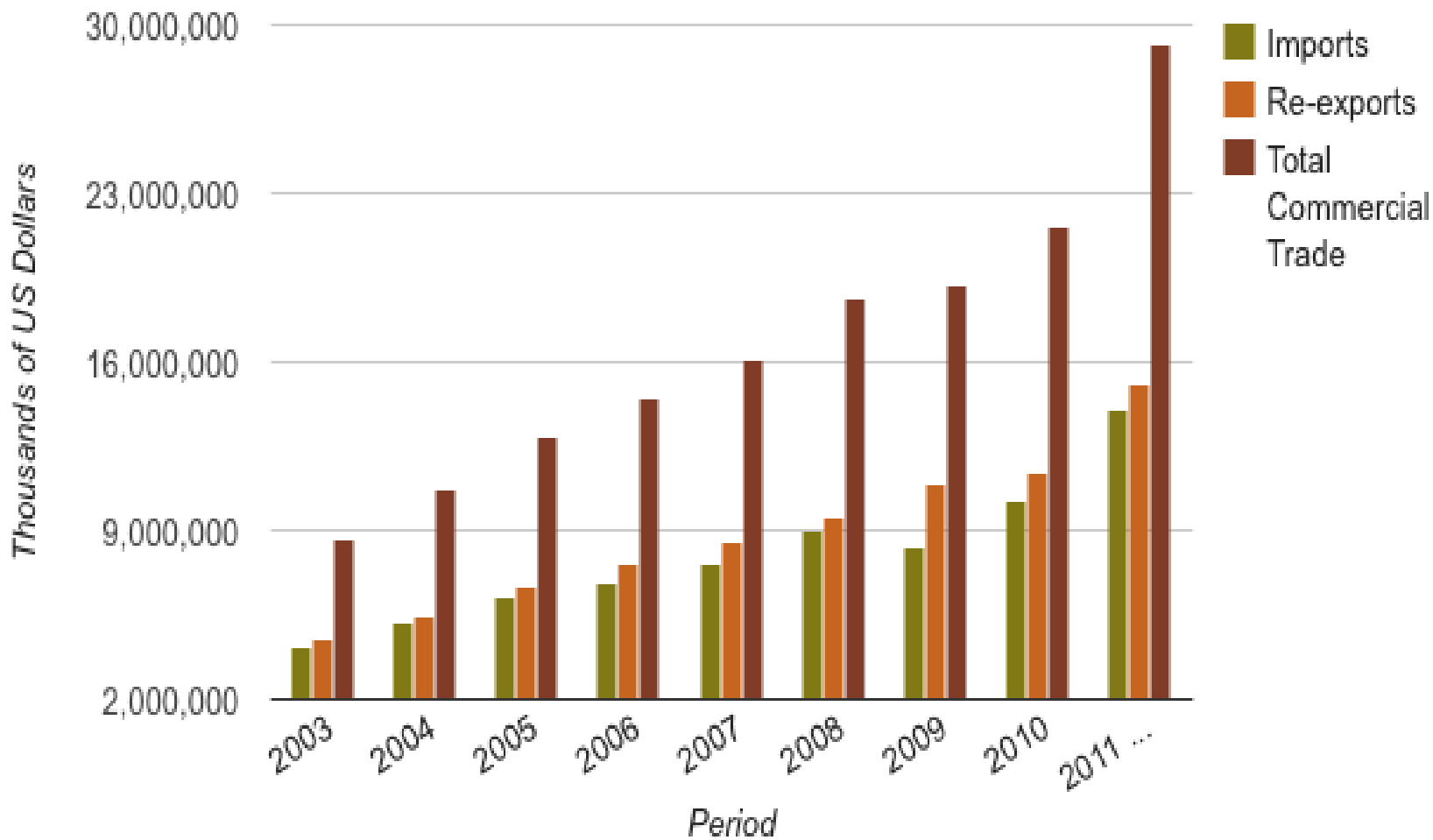
Free Zone

Free Zone

**France Field
Airport**

Railroad

Colon Free Zone





Pacific Side



Panama Canal Railway Company:

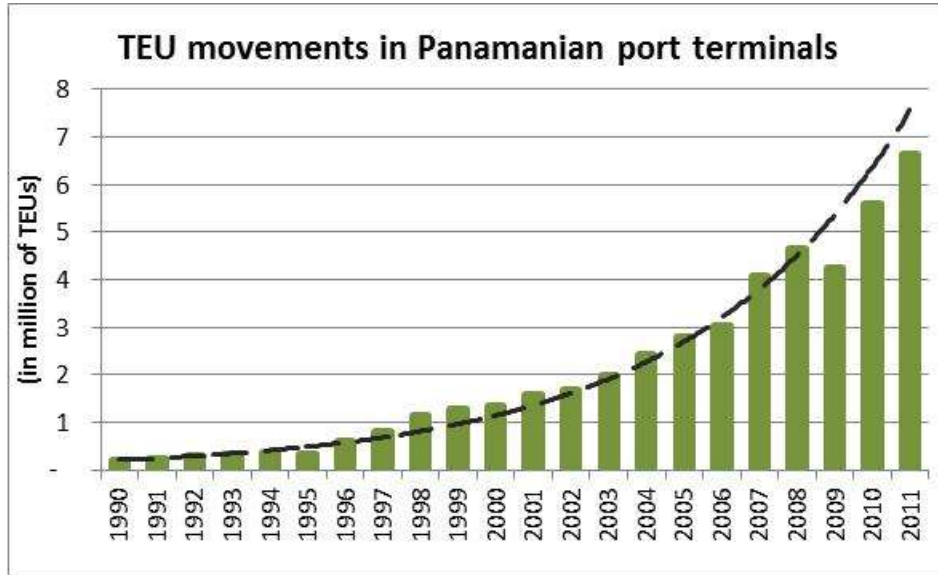
- Provides intermodal service between the Pacific and Atlantic ports of Panama.
- Joint venture between Kansas City Southern and MI-Jack Products.
- Installed capacity: 500,000 containers per year.

Potential for a new Port on the Pacific

116 Hectares



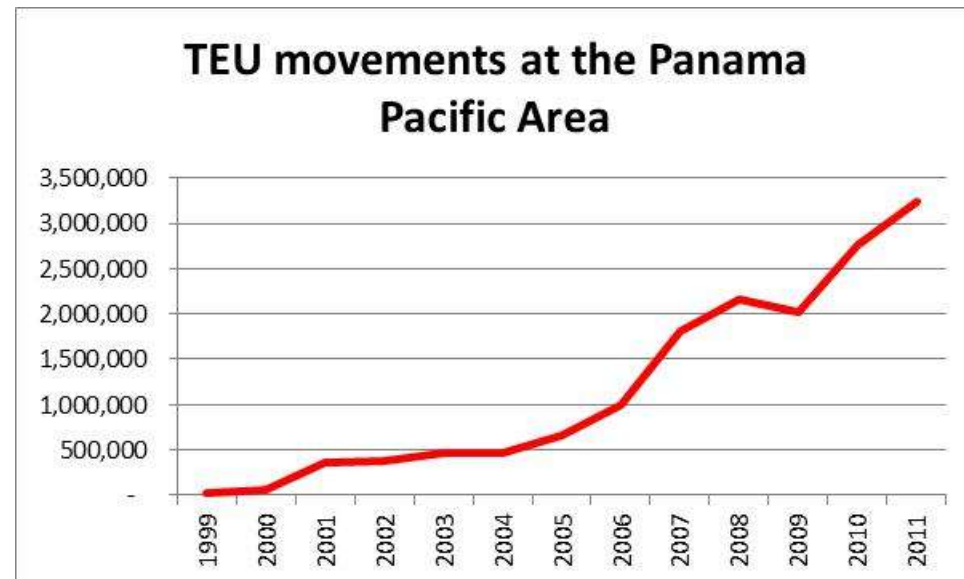
Rationale for Corozal Port Terminal



Source: Panama Maritime Authority

Total TEU movements in Panama are rapidly approaching 7 M TEU, putting pressure into the port system.

- Current port capacity is limited and the demand for transshipment will increase after the Panama Canal expansion*



Site location and development

① Phase I: 66 has

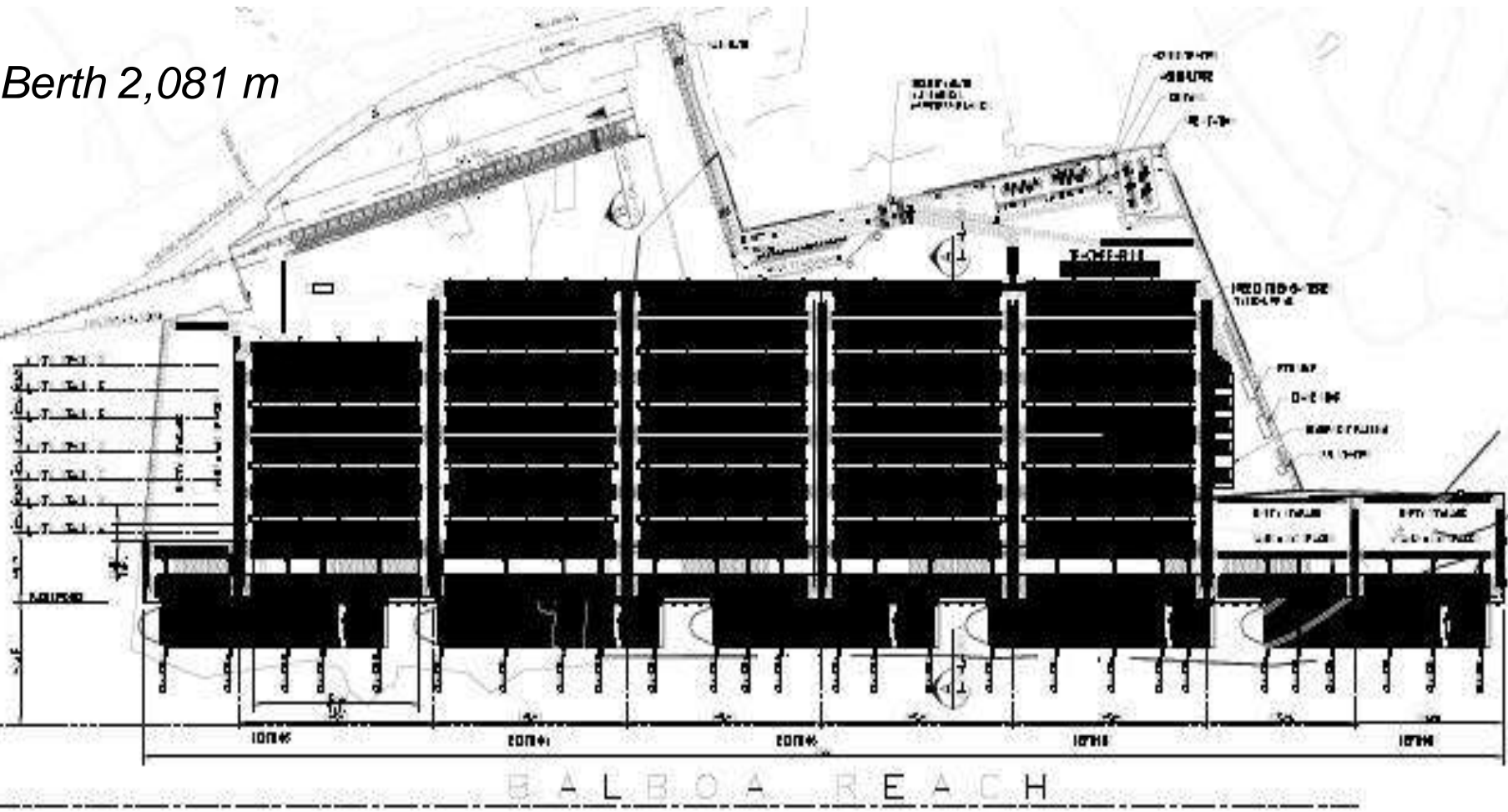
② Phase II: 52 has

Concept	Phase 1	Phase 2	Total
Total Area	66 has	52 has	118 HA 98 for CY
Estimate Capacity (M TEUs)	2.4	1.5	3.9
STS cranes			27
Quay (m)	1,350	731	2,081
Draft (m)			16.3



Proposed layout of the terminal

Berth 2,081 m



Potential for Special Economic Zone Development

980 Hectares of Reclaimed Land





PANAMA CANAL

PANAMA CITY

AIRPORT

TOWN CENTER

KOBBE HILLS

PANAMERICA
CORPORATE
CENTER

Panamá-Pacífico:

- Special Economic Area located in the former Howard Air Force base in the Pacific.
- Operated by the international real estate developer London & Regional.

PACIFIC OCEAN



A GROWING ROSTER OF MULTINATIONAL COMPANIES

3M	IT Lab
3PL Panama	Kings Ocean Services
Agencia Aduanas Seihorn	KIO Networks
Albacrome	KPMG
Alliance Transport Logistics	Marine Engineers Corp
Arnsal Industries	Metro Service Logistics
ASCON PANAMAX	North American Aircraft Services
Associated Steamships	Norton Lily
Atlas Copco	Orica Mining Services
Barwil Agencies	Ossala
BASF	Panama Canal Port Service
Bombasa	Panama Pacific Logistics
Boyd Steamship Corporation	Panamericana de Logistica
C. Fernie & Co.	PanCo Construction Consultants
C.B Fenton & Company	Petróleos Independientes de Panamá
Cable & Wireless	PRIMO Scientific Corporation
Cabo Drilling Corp	Proex
Canal Transit Services	PROMIX
Caterpillar	Radio Holland
Codico	Realtime Automation Solutions
Consultores Urbanos	River Canarias
DELL	Rozo & Company (Panama)
Dynamic Logistics	Samtec
Edificar Panamá	ST Aerospace
Escharch Panama	Thermoflex
Eternity International Freight	Trade Service Panama
Flavor Infusion	Transcanal Agency
Garal Bravotek	Trucks Logic
Gateway Transit	Vaihala Ventures
Gianfranco Agency	Vakor Consulting
Global Cold Chain System	VF Corporation
Global Profile	VT Shipping
GMP Pacifico Architects	W.R. Grace
Grace	Wakefield Marine
Green Ivory International	Ware Makomb
Grudanthal	Wartsila
Hi - Tek Marine	Wilhelmsen Ship Services
Hidropana	Yamont Enterprises
IR Leather Corporation	
IntelData	

NEW ONSITE RETAILERS



COMING SOON

Beauty Dreams Spa

Café Gourmet

Flavors



One-Stop-Shop

Pacific Beauty

SAAB Farmacias

Onsite Schools:

- Howard Kids Academy
- Licée Francais Paul Gauguin
- Magen David Academy
- Panama Pacifico Academy

Study Program for YR 1

- **Contract Program Management**
- **Demand, Capacity and Feasibility Studies**
 - Bunkering
 - Transshipment Ports
 - Container on Barge
 - Logistic Parks
 - Ship Repair
 - LNG Bunkering for Ships and Tugs
 - RoRo Terminal for Vehicles, Pacific Side
 - Top-off operations for Dry Bulks
- **Economic Studies**
 - Logistic Costs and Impact on Competitiveness
 - Regional Logistics Observatory (IDB)



CANAL DE PANAMÁ

COMING SOON



MARITIME & LOGISTICS

WORLD OUTLOOK 2014

HARD ROCK HOTEL
PANAMA CITY, REPUBLIC OF PANAMA



THANK YOU!

