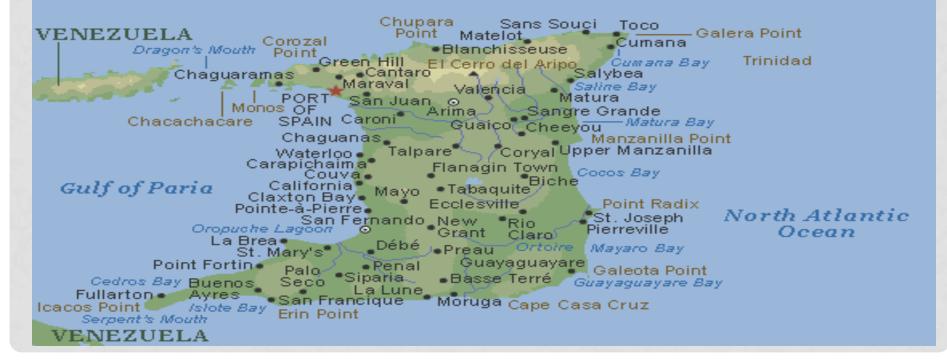
THE SUSTAINABILITY OF THE PUBLIC PORT GOVERNANCE MODEL-TRINIDAD AND TOBAGO

Caribbean Sea Charlotteville Parlatuvier Castara Plymouth Black Rock Scarborough Canaan Mt. St. George

Tobago

TRINIDAD AND TOBAGO



PORT OF PORT OF SPAIN TRINIDAD AND TOBAGO

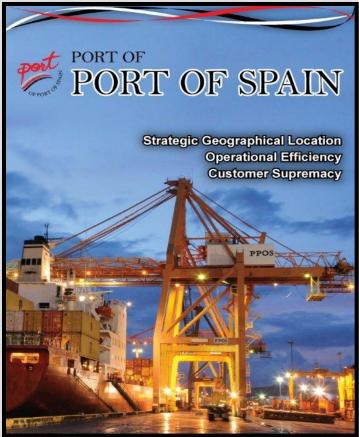


PPOS VISION AND OBJECTIVES

To be a sustainable, innovative, customer driven and productive Caribbean Port, through our focus on operational efficiency and aggressive and strategic marketing.

Mandate for PPOS Operations:

Utilize best working practices, Deliver a cost-effective & timely customer service, Produce & sustain positive financial results



A strategic hub in the southern-most waters of the Caribbean, where trade lanes between the Americas and the great oceans of the World converge.

PORT OF PORT OF SPAIN BERTHS

- Length of marginal quay wall: 2000 metres
- (1) Cruise ship and terminal berth no. 3
- (1) Break bulk and transit shed berth no. 4
- (1) Multi-purpose container berth no. 5
- (4) Container STS berths no. 6; 6AE; 6AW; 7
- (1) Bulk berth with Gantry no. 8
- In addition;
- The CARICOM wharves area is designed for handling inter island schooners
- 2 passenger and vehicle ro-ro ferries, which service the two islands
- 1 ro-ro cargo ferry services the two islands

PORT EQUIPMENT

- 2 Panamax STS rail mounted cranes 12 w x 40 tons
- 2 Post Panamax STS rail mounted cranes 18 w x 50 tons
- 1 Mobile Harbour crane 40 m radius x 41 tons
- 14 Rubber Tyred Gantry Cranes 5 high x 6 wide
- 6 Reachstackers
- 9 Empty container handlers
- 2 Full container handlers
- 45 Tractor trucks
- 6 x 20 foot trailers
- 26 x 40 foot trailers
- 28 x 45 foot trailers
- Dynastar system



CONTAINER TERMINAL AREA

- The total area of the container terminal is 45 ha
- Terminal Storage capacity: 500,000 TEUs per annum



INFORMATION AND COMMUNICATIONS TECHNOLOGY

- The Terminal is outfitted with NAVIS SPARCS N4 for cargo manifest document processing, vessel planning, storage, tracking and control of container movements from ship to yard storage and gate delivery
- The Customs and Excise Division is outfitted with the ASYCUDA system for the declaration and assessment of customs duties and border control procedures
- The Ministry of Trade and Industry is outfitted with the Single Electronic Window: TT Bizlink for online government trade transactions
- The offices of shipping agencies, brokers, transport operators and shippers are all computerized and there is a high level of internet connectivity.

HEALTH SAFETY SECURITY ENVIRONMENT

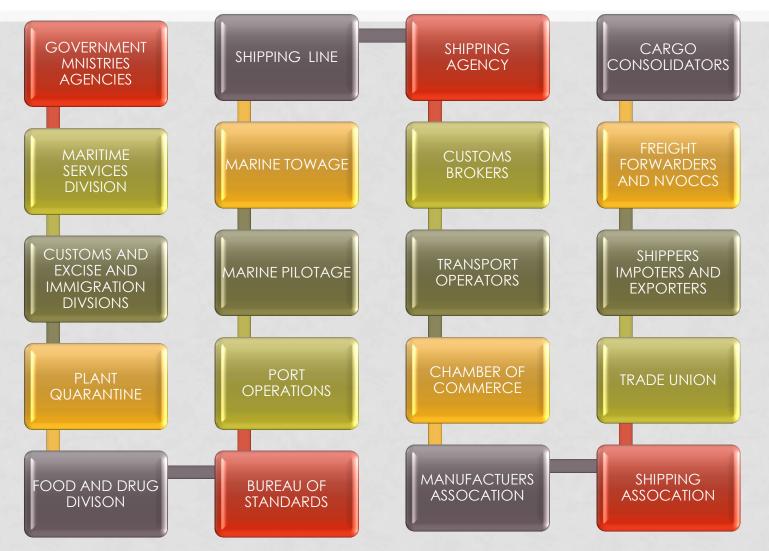
- The Port Authority is responsible for 24 hour port security surveillance
- The Container Terminal is outfitted with high mast lighting
 and CCTV cameras
- The Customs and Excise Division is responsible 24 hour cargo examination using X ray container scanners and 10% inspection at the Container Examination Station
- PPOS is responsible for Health Safety and Environment management of port operations
- PPOS is compliant with ISPS, Port State Control and IMDG codes
- Dedicated areas are allocated for the storage of hazardous chemicals and dangerous goods

PPOS PORT OPERATIONS

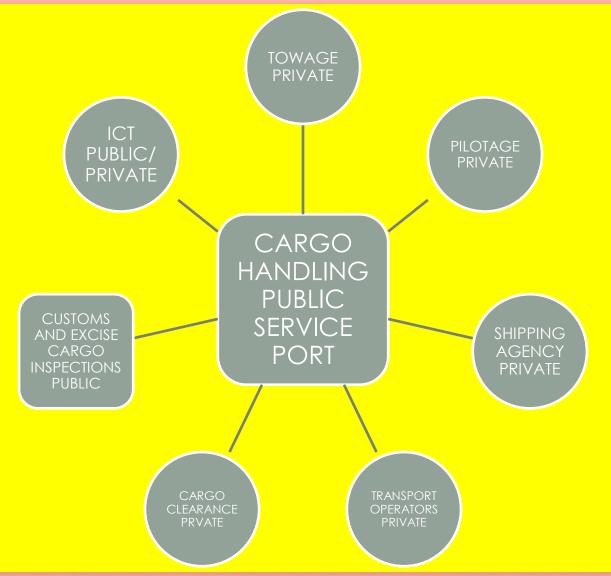
PPOS Operations include handling:

- Berthing Vessel Operations
- Container Vessel Operations
- Container Yard Operations
- Car Carrier, Vehicle Operations
- Container Freight Station, Stuffing & Un-stuffing
 Operations
- Break-bulk Operations
- Bulk Operations
- Gate Operations (receipt & delivery)
- Cargo Accounts Process
- Logistics Analysis

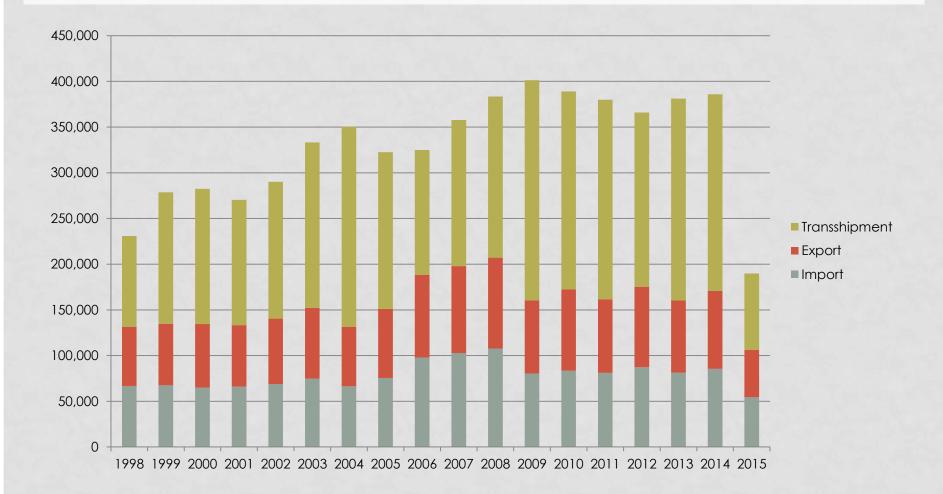
STAKEHOLDERS IN THE PORTS LOGISTICS COMMUNITY



PUBLIC PORT AND PRIVATE SECTOR RELATIONSHIPS



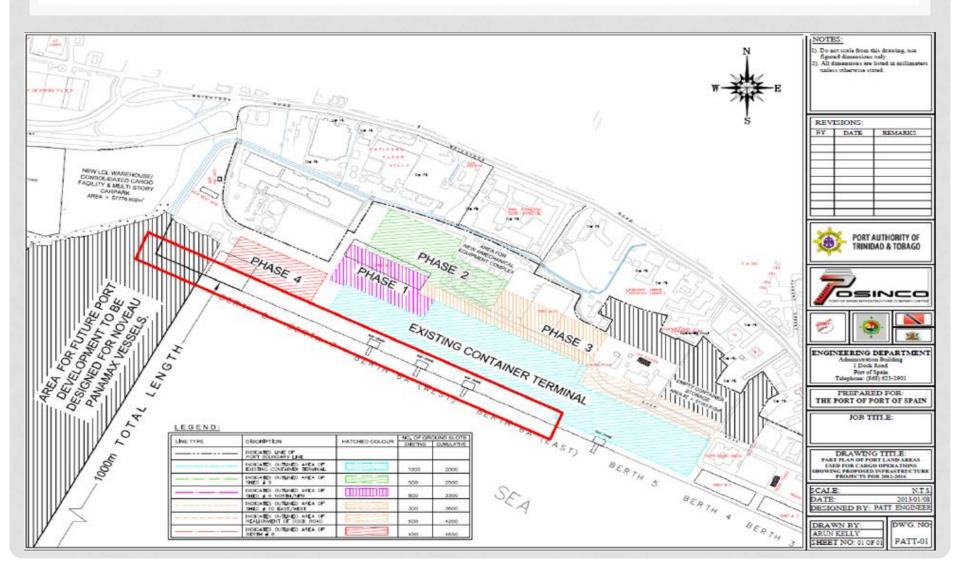
THROUGHPUT PERFORMANCE TEU



TEU PERFORMANCE STATISTICS

2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
2004	2005	2000	2007	2008	2009	2010	2011	2012	2013	2014	2013
66,413	75,535	98,001	102,865	107,737	80,428	83,458	81,154	87,239	81,282	85477	54310
65,199	75,683	90,463	94,953	99,449	79,890	88,827	80,480	88,137	78,914	85408	51892
218,857	171,249	136,474	159,850	176,212	240,946	216,675	218,203	190,519	221,036	215007	83575
350,469	322,467	324,938	357,668	383,398	401,264	388,960	379,837	365,895	381,232	385,892	189,777

PROPOSED NEW PANAMAX PORT EXPANSION PLAN AT BERTHS 8 AND 9



ESTIMATED COST OF NEW PANAMAX PORT EXPANSION PROJECT AT BERTHS 8 AND 9

- In 2012 the estimated cost of construction of the new panamax port expansion at berths 8 and 9 was TT\$0.9 billion, or US\$ 142.2 million.
- Assuming a cost escalation of 5% per annum this is equivalent to TT\$1.08 billion, or US\$161.7 million.

EXISTING PORT LAYOUT



WATERFRONT DEVELOPMENT PLAN PROPOSED



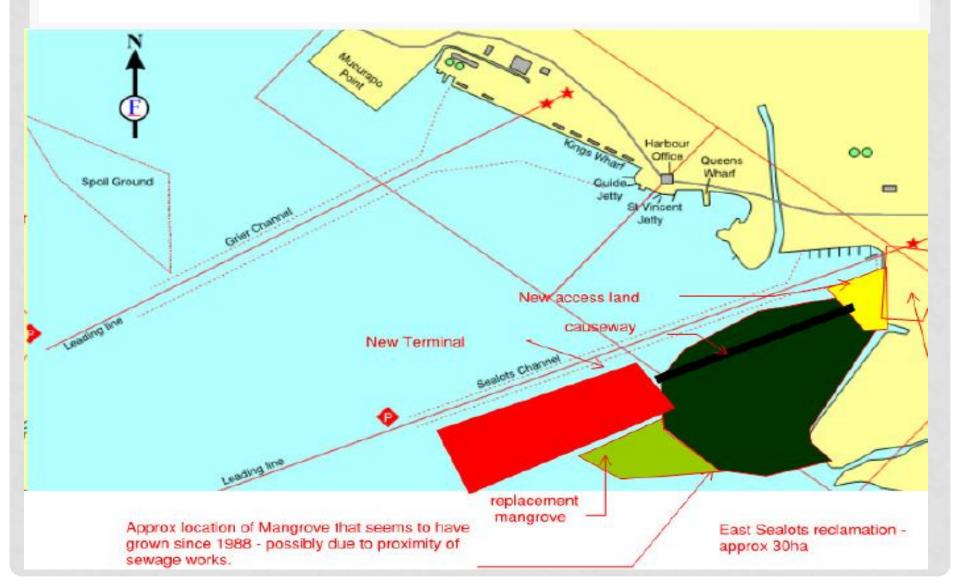
FEATURES AND BENEFITS OF WATERFRONT DEVELOPMENT PLAN

- The Westward extension of the Port of Spain Central Business district to include all lands southwest of Wrightson road including lands vested in the Port Authority of Trinidad and Tobago
- Conversion of low value port lands King's wharf and King's Wharf Extension to high value real estate
- Construction of an International Waterfront Complex
- Construction of an International Financial Complex
- Construction of a 5 star luxury Hyatt hotel and car park
- Construction of high rise commercial and office space overlooking the Waterfront.
- Connection of the city with the Waterfront through a promenade and boardwalk along the Waterfront
- Financial returns from the Waterfront development is proposed to fund the relocation of the Port of Port of Spain

MODEL OF STANDARD NEW PANAMAX PORT DEVELOPMENT COST

	BASE COST US (\$)	ESCALATED US (\$) COST (5%) TO 2014	DREDGING US(\$) 2014	EQUIPMENT US(4) 2014	TOTAL COST US(\$) 2014	ESCALATED COST US (\$) 2016
Port of Lazaro Cardenas Container Terminal Phase 1 (2012)	300	331	45		376	415
Hai Phong International Port (Lach Huyen Project) Component B (2013)	321	337		94	431	474
Felixstowe South Reconfiguration Phase 1 (2008)	330	421		94	515	567
				USD (\$) Million Standard Deviation	441 70	485

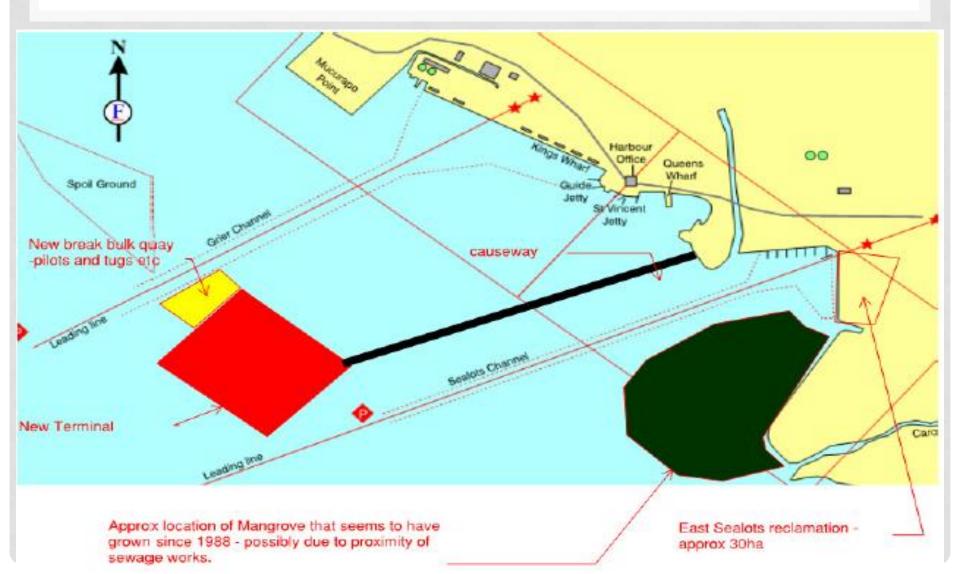
EAST SEA LOTS ONSHORE OPTION A



ENVIRONMENTAL ISSUES

- MANGROVE WETLANDS
- ECOLOGICAL SYSTEM
- CARONI RIVER ESTUARY
- EFFLUENT AND SILTATION
- SHALLOW DRAFT
- LOCATION OF CHANNEL ACCESS AND BASIN

EAST SEA LOTS OFFSHORE OPTION B



STAGES IN THE DESIGN BUILD PROCESS

- Site investigation coordination and supervision
- Completion of development plan
- Environmental Impact Assessment submission
- Environmental Management Authority Clearance
 Certificate
- Front End Engineering Design (up to 20%)
- EPC document preparation and Call for Tender
- Tender evaluation and recommendation
- Supervision of construction
- Design build contract (design detail 80%)
- Construction cost

OVERALL PROJECT 5% ESCALATED COST ESTIMATE 2016

Service	D&B Stages	Description	Consultant's Independent Estimate US(\$) million			
			Lower bound	Upper bound		
Consultant's service	Stage 1	Up to an including feed design (20%)	5.16	5.76		
		EPC documents up to award	2.27	2.27		
	Stage 2	Supervision	22.45	24.58		
Design build contractor		Detailed design (80%)	11.68	12.86		
		Construction cost	931.44	1,138.43		
		Total	972.90	1,183.87		

STRATEGIES AND REFORM OPTIONS FOR CONSIDERATION

Modernization of Port Administration and Management Liberalization or Deregularization of Port Services

Commercialization

Corporatization

Privatization

PORT MANAGEMENT MODELS

