Introduction of Port Development Plan

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PAT

CAPITAL

EVERGREA

EMIRATES



PROFILE & PERFORMANCE





WORLD



"Developing the modern Port, Linking Waterway Transport to the Centralized Logistics of **Distributing Goods and Services**"

CONNECTED WAY

"Establishing Management Efficiency, Developing of Port Area, Service System and Working **Methods for Organizational Sustainable Development**







Mission logistics both at domestic and ASEAN levels. achieve highest capacity and performance. world-class standard.

Expand the port service and business related to waterway Develop and manage all resources in the Organization to Increase the ability to manage and uplift the port's service standard with a view to achieve modernity, good governance and

Being a State Enterprise, *PAT* plays a significant role on industrial, economic and trade development of Thailand

PAT is responsible for the managements of 5 key Ports

MAIN PORTS : Bangkok Port and Laem Chabang Port

REGIONAL PORTS : Chiang Saen Commercial Port, Chiang Khong Port and Ranong Port







Bangkok Port, Feeder Ship destination

- Description Located on the left side of the
- Chao Phraya River
- Total area 930 acres
- West Quay : Multipurpose
- terminal
- East Quay : Container terminal
- Capacity : 1.5 million T.E.U.s
- Port city: Limited of land use
- River Port: Draft Restriction
- Limited maximum size of

vessels

- 12,000 DWT
- 172 meters in length
- 8.2 meters in draught



Bangkok Port located in the heart of city, some limitation but its still has room to grow.



LAEMCHAPANG PORT the deep sea port, gateway of SE Asia

Hocated in the ea acres.

Basin 1

Capacity 4.3 millions T.E.U.s
11 Berths A0-A5 and B1-B5
Leased out to private companies to manage and operate

Basin 2

Capacity 6.8 millions T.E.U.s
 7 Berths, 4 Quaysides;C3,C0, C1-C2
 While D1-D3 expected to be operations within 2015

Capacity 11.1 n fully operated

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Hocated in the eastern part of Thailand with total areas 2,500

Capacity 11.1 millions T.E.U.s when Basin 1 and Basin 2 are



Regional Ports



Chiang Saen Commercial Port

Situated alongside the Mekong River in the northern part of Thailand Comprised of 2 pontoons, which is 12 m. and 50 m. with a roofed gangway of 630 m.

OThe pontoons can accommodate 4 barges O2 Quayside terminal can

accommodate 2 cargo ships



Chiang Khong Port

OAdjacent to the Mekong River , opposite to Lao PDR (Houay Xai District of Bokeo Province) OEnhancing the efficiency of import-export services and promoting border trade between Lao PDR and Thailand O22 × 208 m. quayside terminal OAccommodate 3-5 motor vessels of up to 80-150 gross tonnage



Ranong Port

Consist of 2 berth

OMulti purpose berth with a 26 134 m., Accommodate 2 barges with maximum loading of 500 gross tonnage

OThe container berth with 30 150 m., Accommodate one cargo vessel of 12,000 DWT



ASEAN Ports Ranking 2013

2013	2012	2011	Port	Country	TEUs	TEUs	TEUs
					2013	2012	2011
2	2	2	Singapore	Singapore	32.20	31.65	29.94
12	12	13	Klang	Malaysia	10.35	10.00	9.60
20	18	17	TanjungPelepas	Malaysia	7.60	7.70	7.52
22	20	23	TanjungPriok	Indonesia	6.4	6.20	5.65
23	23	22	LaemChabang	Thailand	5.97	5.93	5.66
24	25	26	Ho Chi Minh	Vietnam	5.3	5.06	4.81
36	36	35	Manila	Philippines	3.77	3.71	3.46
46	45	47	Tanjung Perak	Indonesia	2.9	2.85	2.64
88	94	86	Bangkok	Thailand	1.51	1.27	1.45

In 2013, Laem Chabang Port ranking is at 23th and Bangkok Port ranking at 88th had risen up from 94th rank in the previous year.



Market Share in ASEAN Ports 2013



Since 2009 LCB has been growing strongly at 7% a year on average and gained more market share in ASEAN Ports which is increasing by 6% to 8% While BKP also continuing growth and gained the market share about 2%

Singapore

Klang

Tanjung Pelepas

Tanjung Priok

Laem Chabang

Ho Chi Minh City

Manila

Tanjung Perak

Bangkok



VESSEL AND CONTAINER THROUGHPUT Bangkok Port and Laem Chabang Port 2011 - 2015



In 2015, PAT reached the highest number of containers cargo Bangkok Port 1.559 mil TEU. and Laem Chabang Port 6.78 mil TEU.



CARGO VOLUMES (mil. Ton) Bangkok Port and Laem Chabang Port 2011 - 2015

In 2014, Total cargo volumes 124 mil. tons passed through in Thailand. Almost 80% of total cargo through Laem Chabang Port and Bangkok Port.

Port	2012	2013	2014	2015
Laem Chabang Port	65.227	66.917	72.264	73.451
% Change	7.45%	2.59%	7.99%	1.64%
Bangkok Port	17.923	21.207	21.422	21.848
% Change	-4.06%	18.32%	1.01%	1.98%





PAT Challenges & Opportunities

AAL

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EVERGREEN



Public and Customer Perception Improved



Thailand Overall ranking

Ranking of logistics performance index

35 1





Input and outcome LPI indicators





Note: NESDB refers to Office of the National Economic and Social Development Board



i3rd)	(57th)	(83th)	(131st)	(145th)	
Joru)	(3711)	(0511)	(13150)	(1450))	

Problem of the Transport and Logistics System







Thailand an important link in ASEAN and global trade







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Global container flows by main trades 2015 (mil.TEUs)

Global container traffic led by Intra-Asia containe trades which is still remaining the majority of growth. ASEAN cities are becoming the world's hotspots for businesses. Improving Transportation Logistics System is a key to be ASEAN Supply Chain Connectivity Hub + Thailand has great potential because of its geographical location link to ASEAN members.







Infrastructure Development to Connect with Neighboring Countries





Infrastructure Development : Road and Bridge Projects

Ongoing



Future

✤ Under Construction, will be

completed in 2014

- (Myawaddy-Kawkariek)
- area section)



Road link new border crossing points at Aranyaprathet (C)

Infrastructure linking Dawei (M)

- Motorway Bang Yai-Kanchanaburi 97 km. : Details design complete. Searching for fund.
- Kanchanaburi-Border 70 km. Preparing for F/S and Detail Design.

PAT Port Development Policies







Development is tend to have vertical integration.

'Shipping lines have become integrated with other parts of the transport chain,

For ports, it has become increasingly important to be integrated in these supply chains in order to be competitive.'



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PAT Key challenge is.... to be hub of waterway transport

and logistics linking the Thai economy to ASEAN.

expansion, better services, more efficiency and effective

Meet customer service requirements

- + Flexibility in operational and expand new port services
- + Port efficiently accommodate variety of vessels sizes
- Creating innovative door-to-door service

Port Performance Improvement

Crane productivity, reliable berth windows and turnaround time + Enhancing port capacity, modernize administrative management

Develop connectivity in transport and logistic systems + Reaching into the hinterland

Response to ASEAN Strategy in Transport Network

- + Increase port network, hinterland connectivity
- + Extending cooperation and business partners

Optimize the use of assets

+ Increase productivity to use of assets and utilization improvement









Strategic Plan for the fiscal year 2015-

- **Strategy 2**: Expanding port services and new business to ASEAN.
 - **Strategy 3: Extending cooperation** and increasing domestic and international business partners, particularly in ASEAN
 - Strategy 4: Establishing business unit or subsidiary to support business activities in domestic and foreign countries.
 - Strategy 5: Business development and asset utilization improvement
 - Strategy 6: Developing Information and Communications Technology (ICT) Management.
 - Strategy 7: Developing Human Resources Management.
 - Strategy 8: Enhancing capacity in modernizing administrative management.
 - Strategy 9: Improving port's standard to the world class level and maintaining good governance.



PAT Latest Port Projects Updates





Main Projects at Bangkok Port

Coastal Terminal Development (Berth 20G)



Investment programme continued in development plan

CFS Export & Import

Coastal Terminal Development (Berth 20 G) at BKP

2013

(%)

80.36

2.24

8.99

8.39

0.02

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Transport Category	2009 (%)	2010 (%)	2011 (%)	2012 (%)
Road	82.66	81.36	80.42	81.86
Rail	2.25	2.18	2.11	2.28
Domestic Waterway	8.11	9.32	9.28	9.12
Coastal	6.96	7.11	8.16	6.72
Aviation	0.02	0.02	0.03	0.02

- % shared by cargo throughput at coastal terminals in Thailand grew from in 2009 to in 2013.
- **Highest Increasing**

Nowadays, About 80% of transportation in Thailand dominated by road

Government policy on shift mode of transport from road to waterway and rail has been launched aiming to reduce logistics cost



Coastal Terminal Development (Berth 20 G) at BKP

+ Cover 3,225 M²

+Located at East Quay, Terminal 2 (20G)

Purpose

- To reduce logistics cost of the country in compliance with the government's policy, Ministry of Transport and PAT
- -To increase terminal operation capacity
- -To reduce ship turn around time
- -To serve domestic waterway transport

Capacity : 240,900 TEUs. - Expected to implement in 2017







Establishment of Exported Container Freight Station (CFS) at BKP

Exported CFS project covers 45,000 M²

- Purpose
- -To enhance asset utilization
- To reduce congestion and traffic around port
- To increase income in differential activities
- To satisfy customers need

Exported CFS:

- + CFS building (8,400 M²)
 - 24 Dock Levelers
 - 299 box/day
 - 107,640 T.E.U.s/year
- + Container yard for LCL (36,000 M²)
- Capacity 300 T.E.U.s/GLS









Establishment of Imported **Container Freight Station (CFS) at BKP**

Imported CFS project cover 92,000 M² Purpose

- -To reduce process on dispatchingreceiving
- -To enhance asset utilization
- To reduce congestion and traffic around port
- To increase income in differential activities
- To satisfy customers need 4 CFS will be constructed.

 - + Space of storage/ CFS -12,600 M²
 - + Usable space : 19,404 M²

Total space of storage of 4 CFS = **50,400 M²**

Operational space 8,800 M² **Capacity : 600 boxes/day**

- Container Yard for LCL: 32,500 M²
- 4 RTG 6+1
- 4 Tracks
- 130 × 250Meter
- Capacity : 150,000 200,000 T.E.U.s / Year

130

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Main Projects at Laem Chabang Port Investment programme continued in development plan

Coastal Terminal Cerminal A)



Single Rail Transfer Operator (SRTO) Development Project (Phase 3)

Coastal Terminal Development of Laem Chabang Port Project Coastal Terminal (Terminal A)

Purpose

- To develop the coastal terminal for serving containers transported from/to LCP by coastal ship from southern port of Thailand or barge from inland waterway.

- To reduce the logistics cost of the country in compliance with the government's policy, Ministry of Transport and Port Authority of Thailand.

- To reduce traffic congestion and offer the port users a cost-effective mode of transport.

Laem Chabang Port Phase I



Location : At the End of Basin 1 Project Area : 17.5 acres Length (Meter) : 150 Depth (Meter) : -10 Vessel Size (DWT) : 3,000 Capacity (Maximum) : 300,000 TEUs/year



Single Rail Transfer Operator Development Project



Terminal:240 acres

It would increase the handling capacity of rail transport in LCP from the existing of 500,000 to 2 million TEUs/year.

Purpose

-To develop infrastructure and necessary facilities for serving the discharging/loading containers transported by rail within the port area. The project would largely help facilitate rail transfer in the future in response to the completion of double track construction project of State Railway Authority of Thailand (SRT).

- To increase the efficiency of rail transfer in LCP, and subsequently make the operation faster and safer.

- To support the SRT's double tracking system project linking from Chachoengsao Province to Laem Chabang Railway Station.

- To reduce the logistics cost of the country in compliance with the government's policy, Ministry of Transport and Port Authority of Thailand.



Laem Chabang Port (LCP) Development Project (Phase 3)

Purpose

- To serve the increasing throughput in the future.
- To strengthen the LCP's role as a Gateway Port of the Mekong Sub-



Laem Chabang Port (LCP) Development Project (Phase 3)



2011-2012	2019 -20
Feasibility study and Detail Design	Construc



ction

2025

Bidding for private sectors to participate in investing superstructures and operating terminals

Operation Year (The First Terminal) : 2025



Thank you for your attention