

Economic Value and Sustainable Port Development Projects in Thailand

Ministry of Transport (MOT) THAILAND



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Mission Group
 Road transport

Rail transport

Air transport

Water transport

Marines Department

- Private Port

Port Authority of Thailand

- Laem Chabang Port
- Bangkok Port
- Ranong Port
- Chiang Saen Port

Regional Port

- Chiang khong Port

Bangkok Port 1.5 M. **TEU Laem Chabang Port** 8.1 M. TEU **Private Port 1.1 M.TEU Major Port**









West Quay

Cargo activity

- 10 Berth Conventional
- 20 Warehouses
- General cargo yard
- LCL Container yard
- Variety equipment
- Many Officer
- Many Labor











East Quay

Container activity

- 8 Berth for Container
- 16 Quay Crane
- 38 RTG
- 12,500 TEU FCL Storage
- 120 Trailer
- 800 Reefer Plugs
- etc.

Container Throughput

1.34 - 1.5 M. TEU



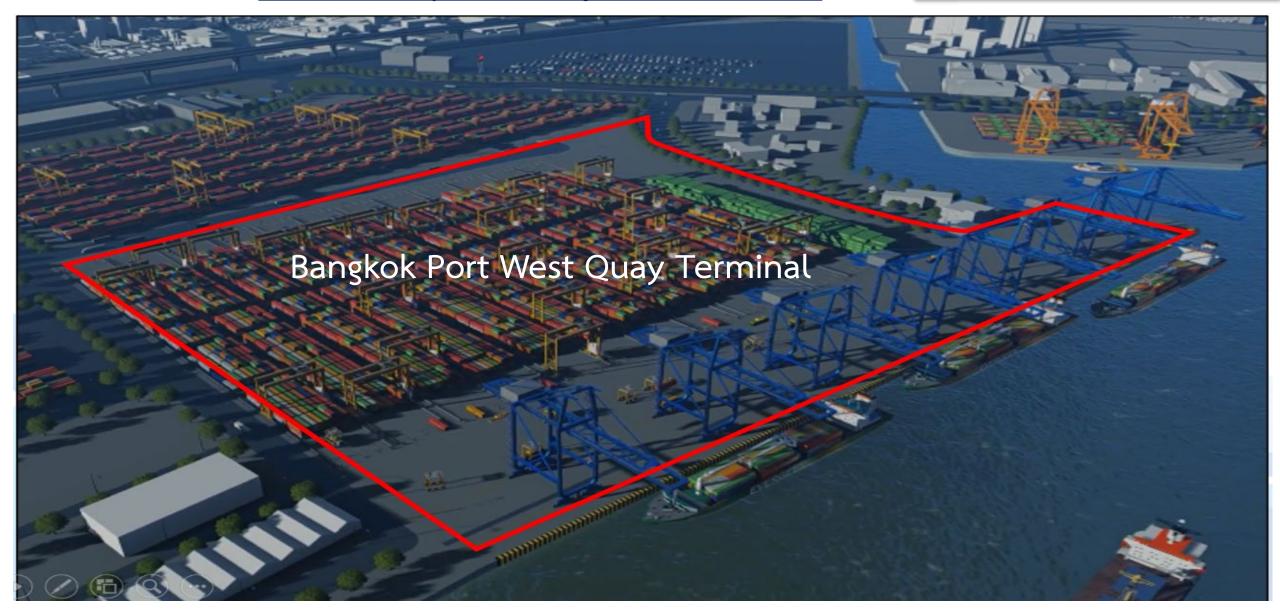
Bangkok Port Redevelopment Plan

Plan to develop half of west quay of Bangkok in a high rise Building and semi-automatic container yard Platform. This will be the most land utilization.

Plan to use other half of west quay of Bangkok to develop modern port city. for make new business and to have the better return on assets.









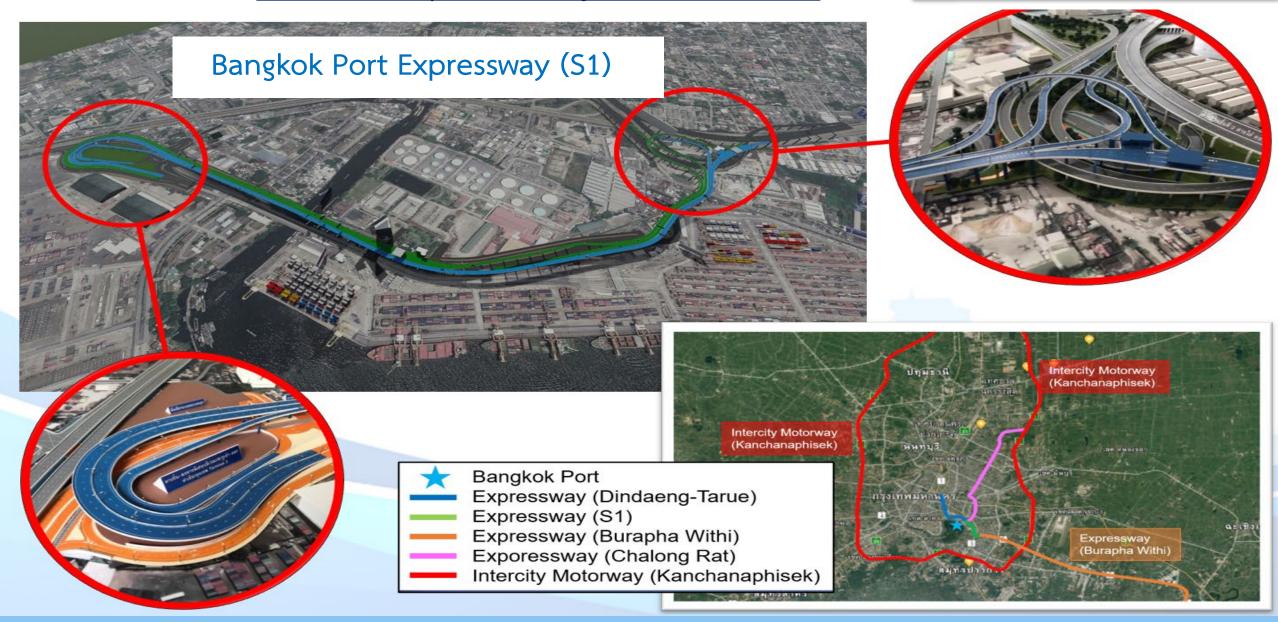








PORT AUTHORITY OF THAILAND







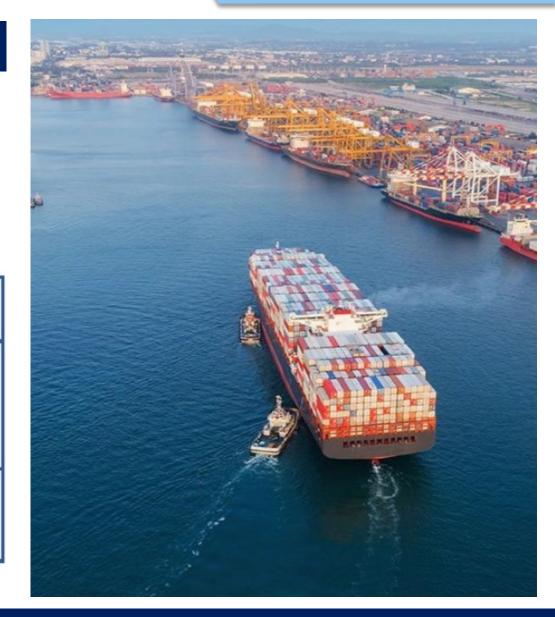


Laem Chabang Port Development Plan

LAEM CHABANG PORT IS THE MAIN DEEP SEA PORT OF THAILAND, ALSO AS THE LARGEST TRADING PORT IN THAILAND, IS RANKED21ST (LLOYD'S LIST) IN THE WORLD

LAEM CHABANG PORT HAS BEEN OPERATING BY THE GLOBAL TERMINAL OPERATORS (GTOS), ANDABLE TO ACCOMMODATE VARIOUS CARGO SHIPS THAT INCLUDES AN ULTRA-LARGE CARGO SHIP(SUPER POST PANAMAX) WITH DISTRIBUTION CAPABILITIES INTO BANGKOK AND DESTINATIONSTHROUGHOUT THE COUNTRY AND THROUGH VARIOUS MODES OF TRANSPORTATION SUCH ASROADS, RAILS AND SEA, AS WELL AS PROVIDING SPACE RENTAL SERVICES FOR LOGISTICS AND OTHERBUSINESSES

Phase	Area Size	Capacity	TEU' 2022	
Ì	8,752 RAI	4.3 M.TEU	0 72 M TEII	
II	(14,003,200 SQ.M)	6.8 M.TEU	8.73 M.TEU	
III	2,846 RAI (4,553,600 SQ.M)	7.0 MTEU	Operated in 2025	





Laemchabang Port Phase III

IN ORDER TO STRENGTHEN THE ECONOMIC GROWTH IN THAILAND AND TO SUPPORT THE GOVERNMENT 'S THAILAND POLICY, LAEM CHABANG PORT PHASE III HAS BEEN FAST-TRACKED BY THE GOVERNMENT AS PART OF THE EASTERN ECONOMIC CORRIDOR (EEC) DEVELOPMENT PLAN.

THIS DEVELOPMENT PROJECT OF LAEM CHABANG PORT PHASE 3 AIMS TO ENHANCE THAILAND'S COMPETITIVENESS OF MARITIME TRADE, PROMOTE THE COUNTRY AS A MAIN REGIONAL GATEWAY, AND BECOME A REGIONAL LOGISTICS CENTER. ADDITIONALLY, THE IMPLEMENTATION AND USAGE OF INNOVATION AND TECHNOLOGY WILL ADVANCE THIS PORT AS A MODERNIZED DEEP SEA PORT THAT GIVES PRIORITY TO ENVIRONMENT AS WELL..

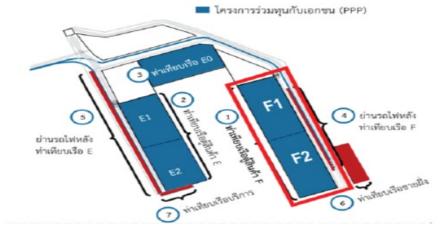


30%
TO INCREASE RAILWAY
CAPACITY

11 MILLION TEUS TO 18 MILLION TEUS 2 MILLION TO 6 MILLION TEUS (SHIFT FROM ROAD TO RAIL UP TO 30%)

2019	2021	2020-2022	2025	2029	2030	2033	2036
Recruiting Privet Sector for Invest	GPC Inter, Terminal Sign a Contract (F1/F2)	Recruiting Contractors for the Construction Port infrastructure	Open Terminal F1	Open Terminal F2	Open Terminal E0	Open Terminal E1	Open Terminal E2

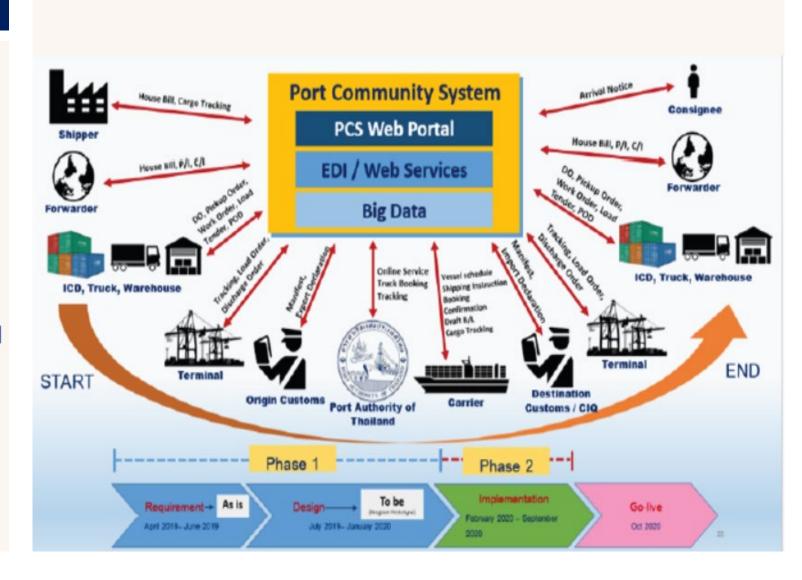






Port Community System

- 1. TO PROVIDE A MARITIME TRANSPORT SINGLE WINDOW PLATFORM FOR ALL STAKEHOLDERS
- 2. TO FACILITATE MOVEMENT OF GOODS FOR THAILAND'S LOGISTICS SYSTEM -TRACK AND TRACE.
- 3. TO STRETCH THE GLOBAL OUTREACH FOR THAI EXPORTERS, ESPECIALLY SMES.
- 4. TO EFFECTIVELY AND EFFICIENTLY CONTRIBUTE TO THE POSITIVE SUSTAINABILITY OF PORT DEVELOPMENT PROJECTS.





National Shipping Lines Development Project (Feasibility Study Only)

- TO ENHANCE THE MARITIME TRANSPORT COMPETITIVENES

- PAT CONDUCT FESIBILITY STUDY ON THE ESTHABLISHING NATIONAL SHIPPING LINE
- THREE POSIBILITY SHIPPING ROUTES
- OF THE NATIONAL SHIPPING LINES
- 1. MAPTHAPHUT LAEMCHABANG PORT
- 2. SAMUTPRAKARN LAEMCHABANG PORT
- 3. LAEMCHABANG PORT SURATTHANEE





Credit: OTP-MOT

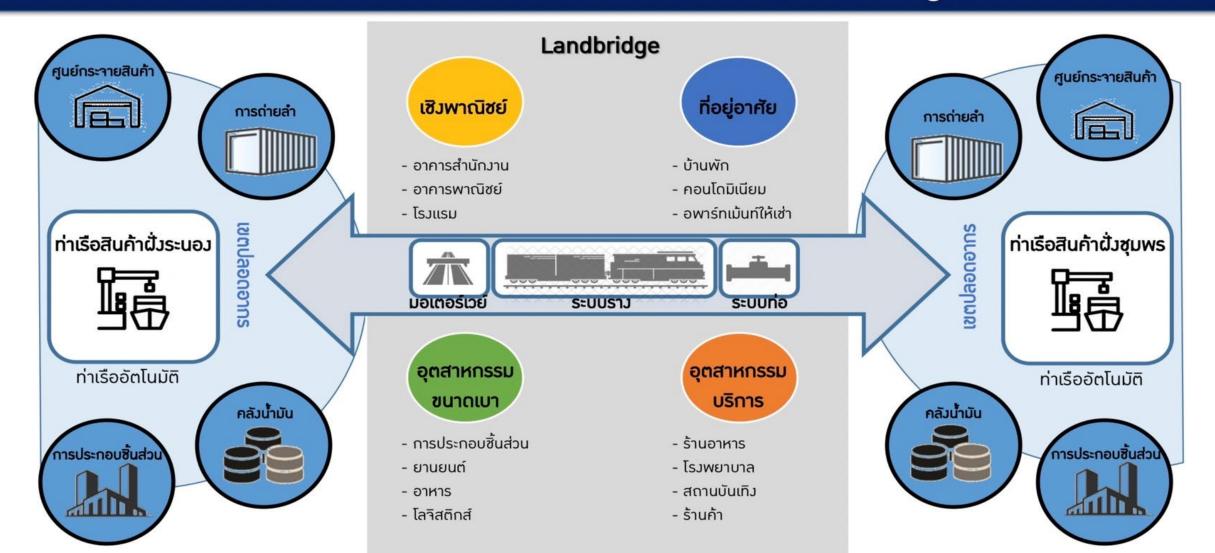
โมเดลรูปแบบการเคลื่อนที่ขอมสินค้าผ่านโครมการ Landbridge





Credit: OTP-MOT

อมค์ประกอบขอมโครมการแลนด์บริดจ์ (Landbridge)





Credit: OTP-MOT

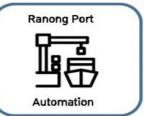
อมค์ประกอบขอมโครมการแลนด์บริดา์ (Landbridge)

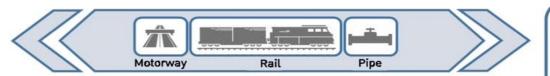


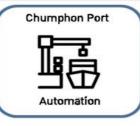


Credit: OTP-MOT

ปัจจัยแห่งความสำเร็จของโครงการ



















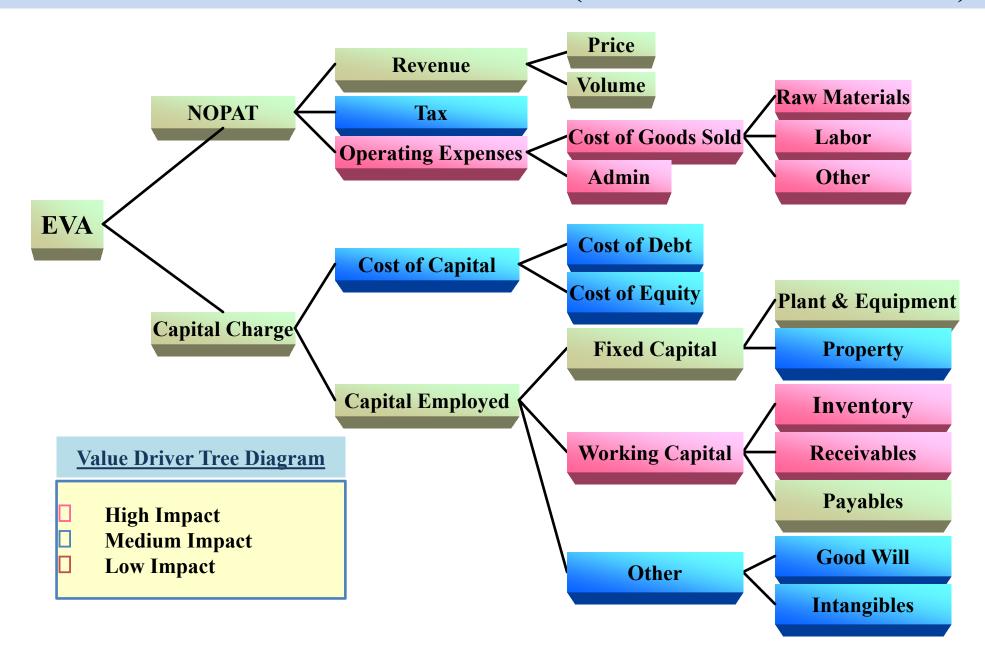


Public Participation Environmental Management





ECONOMIC VALUE DRIVER TREE (EVA = NOPAT-IC x WACC)





Conclusion for sustainable port development projects in Thailand

- 1) There are huge amount of investment for several port and related projects.
- 2) Some of them may have to face with high risks and uncertainties.
- 3) Considering on the Economic Value created may be help to minimize risks.

$$(EVA = NOPAT-IC \times WACC)$$

- 4) Cost of Capital for each Project is the most crucial and sensitive factor.
- 5) Over Investment or Over Supply must be recognized and very carefully!!!



Thank you



