

Transport and Logistics Infrastructure

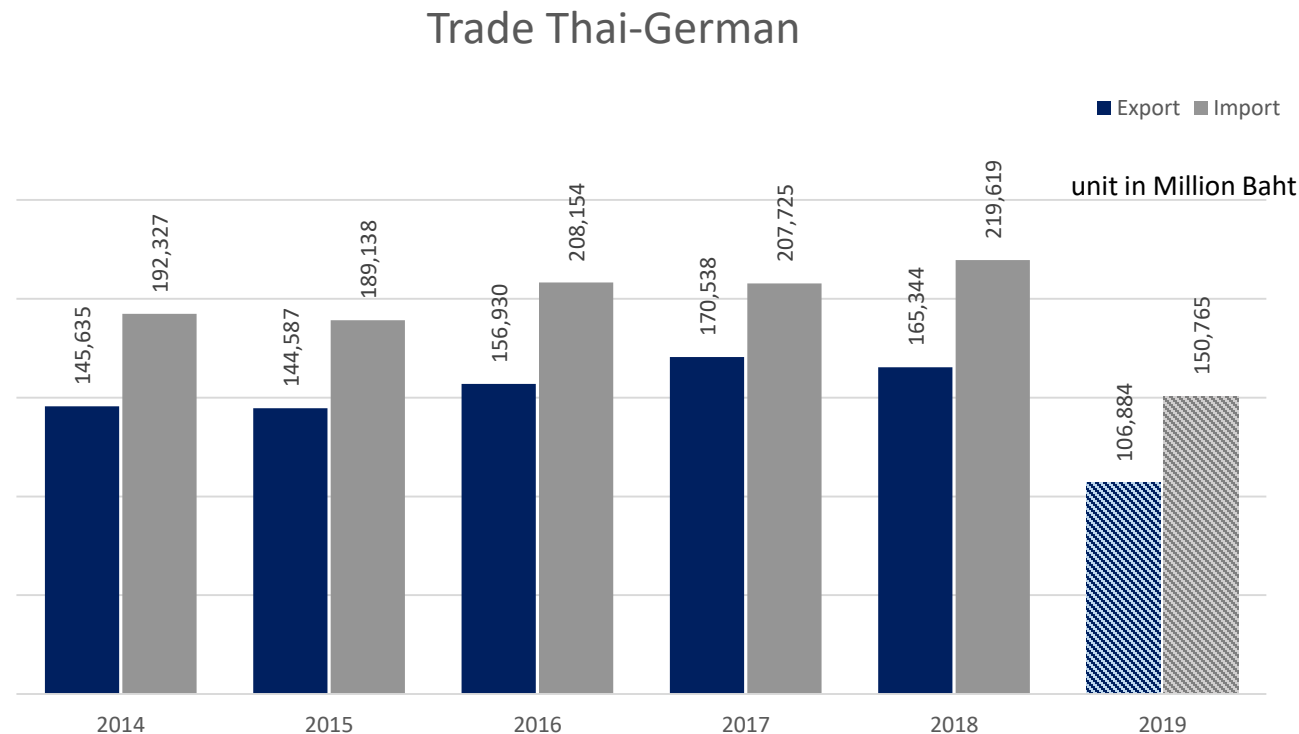


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Office of Transport and Traffic Policy and Planning
Ministry of Transport, Thailand

Thailand & Germany : General information

	Thailand	Germany
		
Area	513,120 sq.km.	357,021 sq.km.
Population	68 million	82 million
GDP	\$505 Billion	\$3,990 Billion
GDP per Capita	\$8,445	\$47,709
Tourist	60,000 (Thai to German)	893,054 (German to Thai)



Logistics Performance Index 2018



รายการ								
LPI Score	4.20	4.03	4.00	3.92	3.61	3.41	3.27	3.22
Ranking No.	1	5	7	12	25	32	39	41
(1) Custom	4.09	3.99	3.87	3.81	3.40	3.14	2.95	2.90
(2) Infrastructure	4.37	4.25	4.06	3.97	3.73	3.14	3.01	3.15
(3) International Shipment	3.86	3.59	3.58	3.77	3.33	3.46	3.16	3.35
(4) Logistics Competence	4.31	4.09	4.10	3.93	3.59	3.41	3.40	3.30
(5) Tracking & Tracing	4.24	4.05	4.08	3.92	3.75	3.47	3.45	3.15
(6) Timeliness	4.39	4.25	4.32	4.14	3.92	3.81	3.67	3.46

Overview of Thailand Transport Infrastructure



Road

National Highway
Motorway & Expressway
Rural road
Local road

61,747 km.
313 km.
47,916 km.
110,845 km.



Water

Total International Deep Sea Port
- Laem Chabang Port

6
7.7 MTEU/year



Rail

Single Track
Double and Third Track

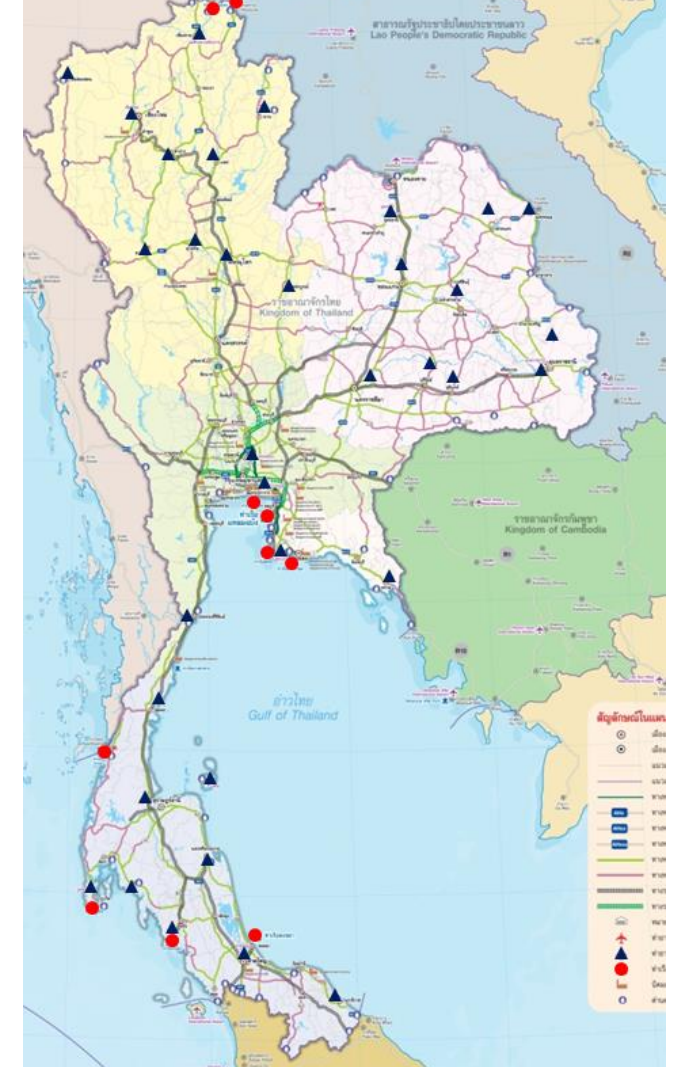
3,685 km.
385 km.



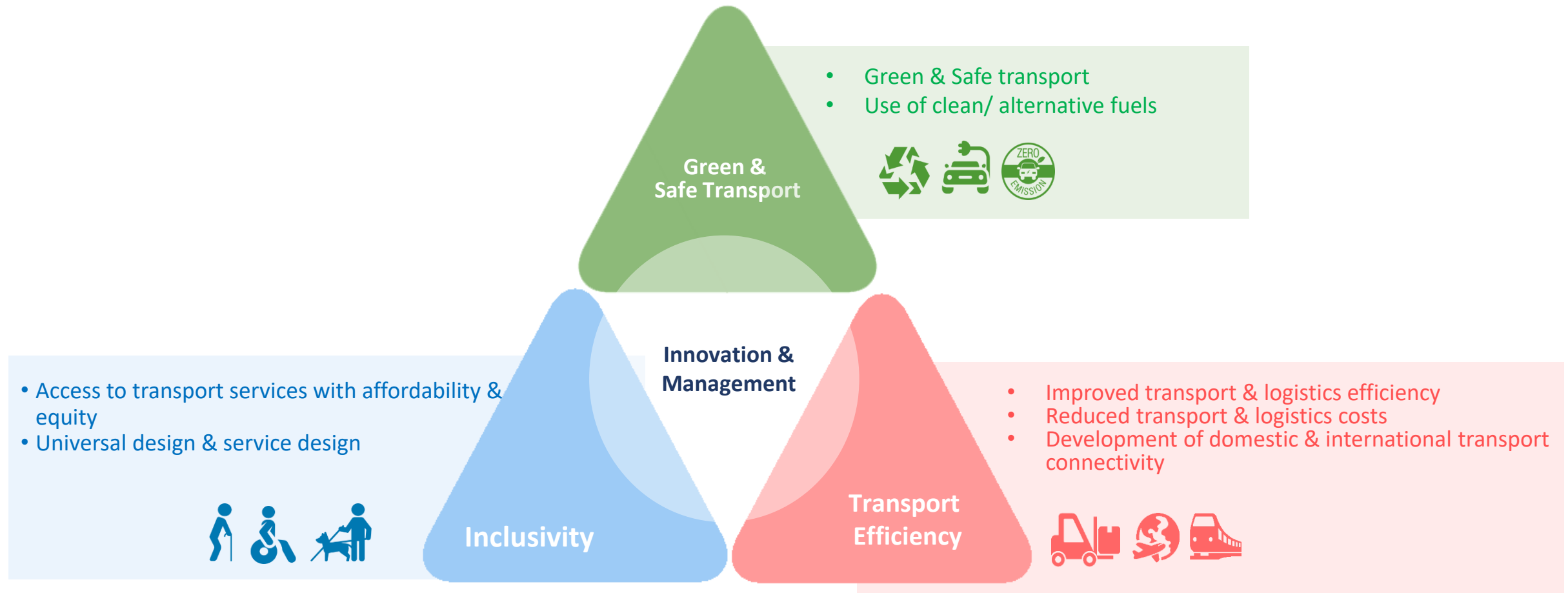
Air

Airports
- Suvarnabhumi Airport
- Don Mueang Airport
- Phuket Airport
- Chiang Mai Airport

38
45 M ppl/y
36 M ppl/y
6.5 M ppl/y
8 M ppl/y



Transport Development Framework



Plans under Thailand's Transport Infrastructure Development Strategies 2015-2022

Plan 1: Intercity Rail Networks Development

1.1 Tracking & Facilities Improvement

1.2 Dual Track Development

Plan 2: Improving Public Transport Networks & Services

2.1 Implementation of 10 Metro Lines

2.2 Construction of Roads & Bridges

2.3 Procurement of 3,183 NGV Buses and Depots

Plan 3: Enhancing Connectivity between Key Domestic Production Bases & Neighboring Countries

3.1 Accessibility to Agricultural & Tourist Areas

3.2 Connectivity between Hub & Key Production Bases

3.3 Connectivity between Gateways

3.4 Promoting Seamless Multi-Modal Transport

Plan 4: Increasing Water Transport Network

4.1 Inland Port Development

4.2 Coastal Port Development

Plan 5: Enhancing Air Transport Capability

5.1 Airport Capacity Expansion

5.2 Enhancement in Air Traffic Management Capability

5.3 Increased Fleet Utilization

5.4 Air Transport Industrial Park

5.5 Human Resource Development

Action Plan 2018 (44 Projects) Total Investment 57,750.96 US M.

Target within Fiscal year 2018

21 Projects Cabinet/ PPP Committee Approval

1. Expressway: Kratu-Patong (EXAT)	397.62
2. Cross-Border Logistics Centre at Nakorn Phanom (DLT)	32.36
3. Regional Truck Terminal (9 Border provinces) (DLT)	230.00
4. Regional Truck Terminal (9 Regional cities) (DLT)	238.35
5. Bus Procurement (EV) (BMTA)	11.91
6. Bus Procurement (NGV) (BMTA)	49.60
7. Motorway: Nakhon Phatom-Cha Am (DOH)	2,223.80
8. Motorway: Hat Yai-TH-Malaysia Border (DOH)	973.43
9. Motorway: Rangsit-Bang Pa-In New (DOH)	716.30
10. Motorway: H35 BKK-Maha Chai New (DOH)	1,145.00
11. HSR BKK-Chiang Mai (OTP/SRT)	7,892.17
12. HSR BKK-Hua Hin (OTP/SRT)	2,225.91
13. Red Line: Bang Sue–Phayathai– Makkasan - Hua Mak & Bang Sue- Hua Lam Phong (SRT)	1,432.50
14. Purple Line: Tao Poon-Ratburana (SRT)	3,663.86
15. Mass Transit in Phuket (OTP/SRT)	861.56
16. Mass Transit in Chiang Mai New (OTP/SRT)	3,063.8
17. Mass Transit in Nakhorn Ratchasima New (OTP/SRT)	388.37
18. Mass Transit in Khon Kean New (OTP/SRT)	398.50
19. Laem Chabang Phase 3 (PAT)	2.59
20. Dry Port New (PAT)	52.17
21. MRO (TG)	114.90

23 Projects Procurement/Construction/In Service

1. Truck Rest Area Buriram/Khon Kean (DOH)	13.71
2. Expressway: Rama 3-Dao Kanong-Outer Ring Road (EXAT)	892.70
3. Northern Route N ₂ and E-W Corridor (EXAT)	501.46
4. DT Nakhon Pathom-Chumpon (SRT)	1,226.67
5. DT Lop Buri-Pak Nam Pho (SRT)	647.94
6. DT Mab Kabao-Jira Junction (SRT)	882.30
7. DT Paknampho-Denchai (SRT)	1,789.00
8. DT Jira-Ubonratchathani (SRT)	1,072.00
9. DT Khon Kean-Nong Khai (SRT)	761.55
10. DT Chumporn-Surat Thani (SRT)	694.00
11. DT Surat Thani-Song Khla (SRT)	1,639.12
12. DT Hat Yai-Padang Besar (SRT)	231.90
13. DT Den Chai-Chiang Mai (SRT)	1,711.86
14. New DT Den Chai-Chiang Rai-Chiang Khong (SRT)	2,438.43
15. New DT Ban Pai-Nakhon Phanom (SRT)	1,941.86
16. HSR BKK-Nakhon Ratchasima (OTP/SRT)	5,126.06
17. HSR Connection to 3 Major Airports (Donmuang–Suvarnabhumi– U - Tapao) (SRT)	5,811.35
18. Dark Red Rangsit-TU Rangsit (SRT)	187.73
19. Light Red Extension Sirirat-Taling Chan-Salaya (SRT)	504.9
20. Orange Line : Western Section (SRT)	3,441.68
21. Dev. Krabi Airport (Apron) New (DOA)	34.73
22. Dev. Khon Kean (Passenger terminal) New (DOA)	64.28
23. Common Ticket (SRT/OTP)	21.07

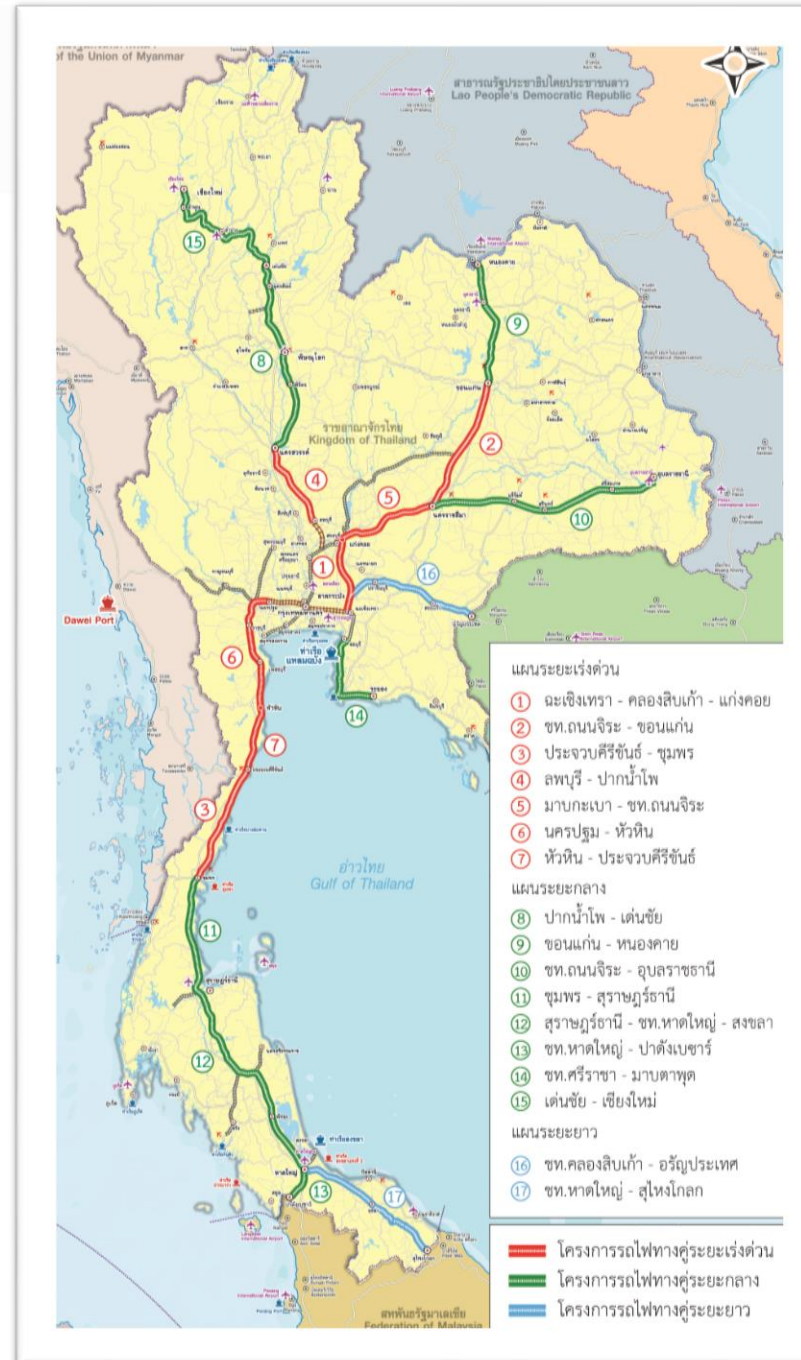
Total 26,114.64 US M.

2019 in Action

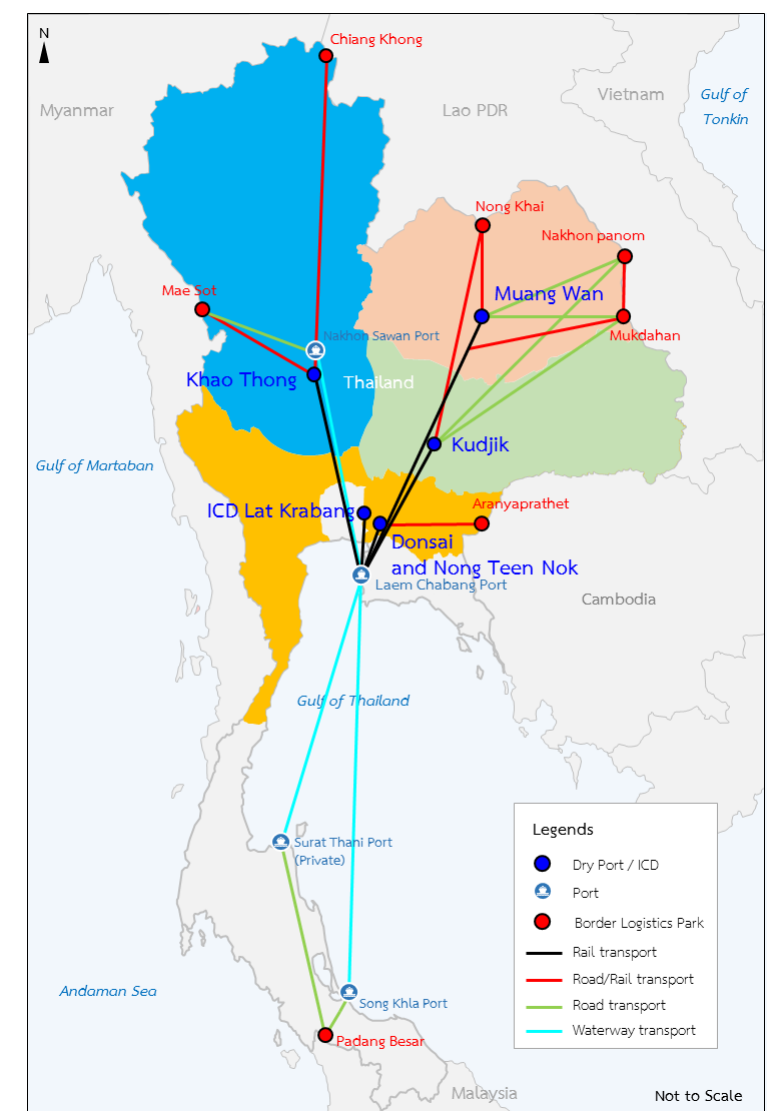
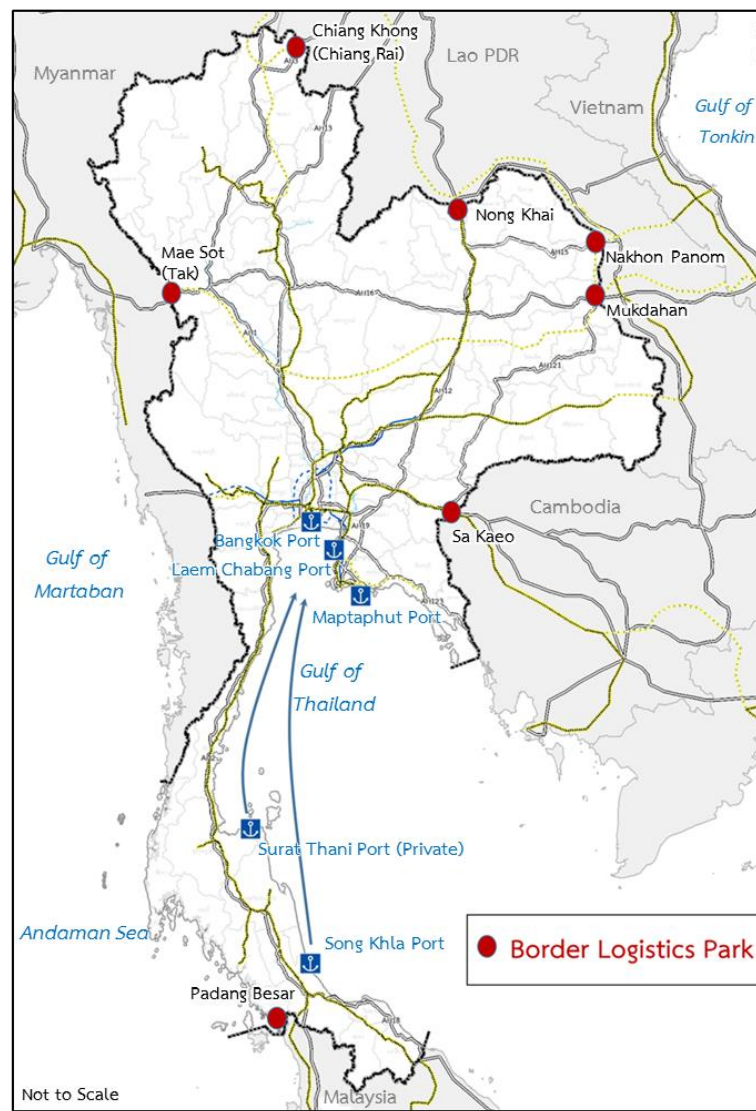
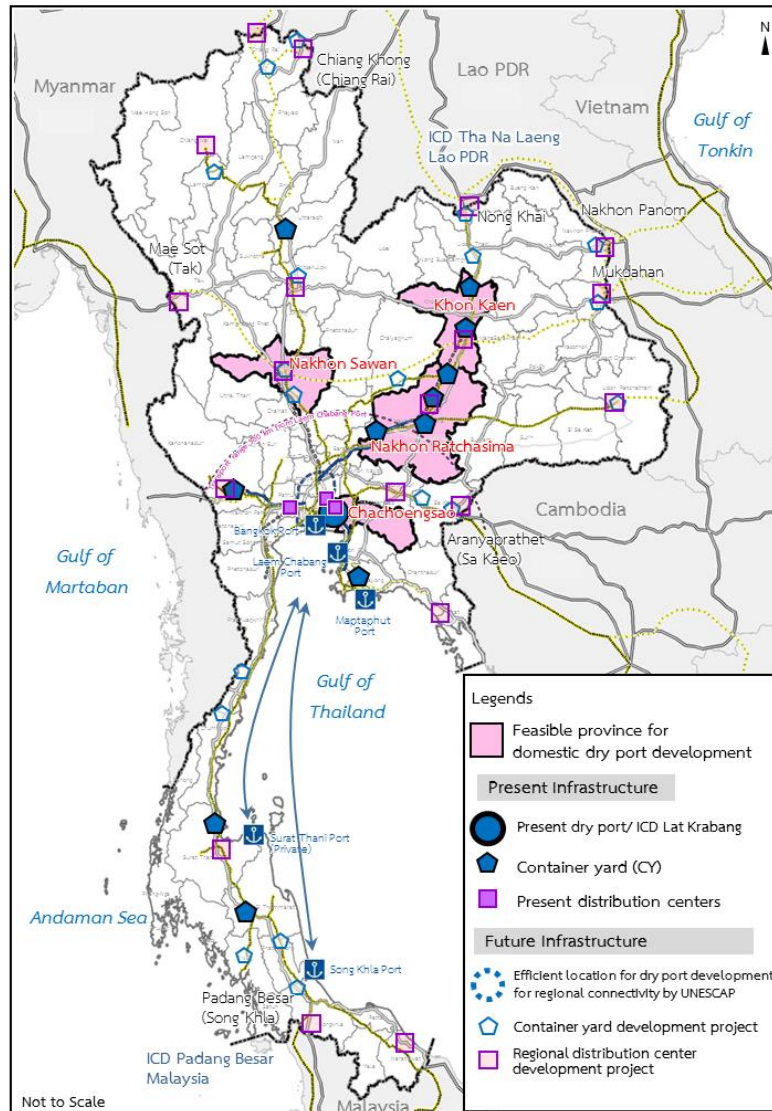
Double Track Railway Projects

— **7 Projects**
Under construction

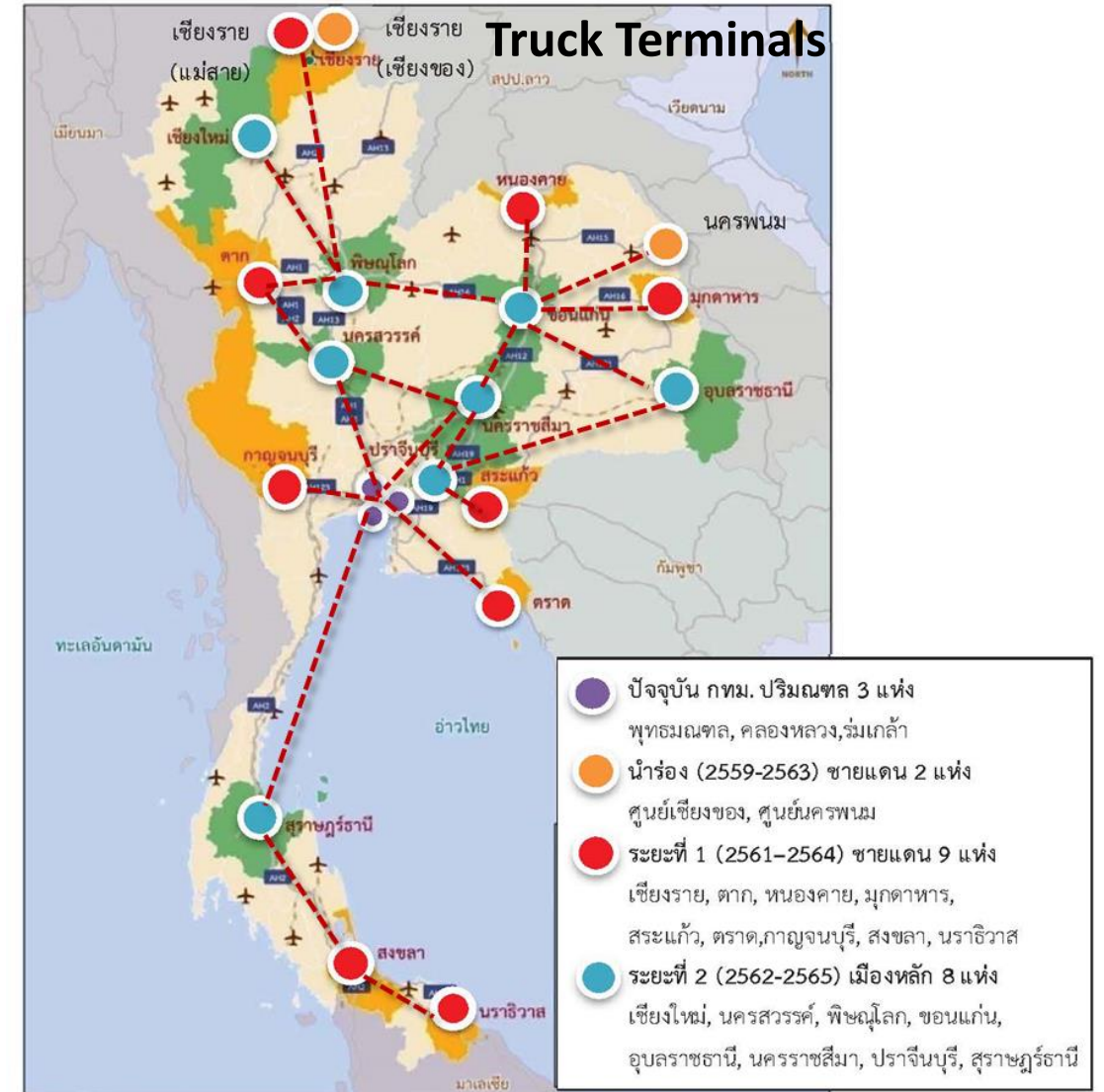
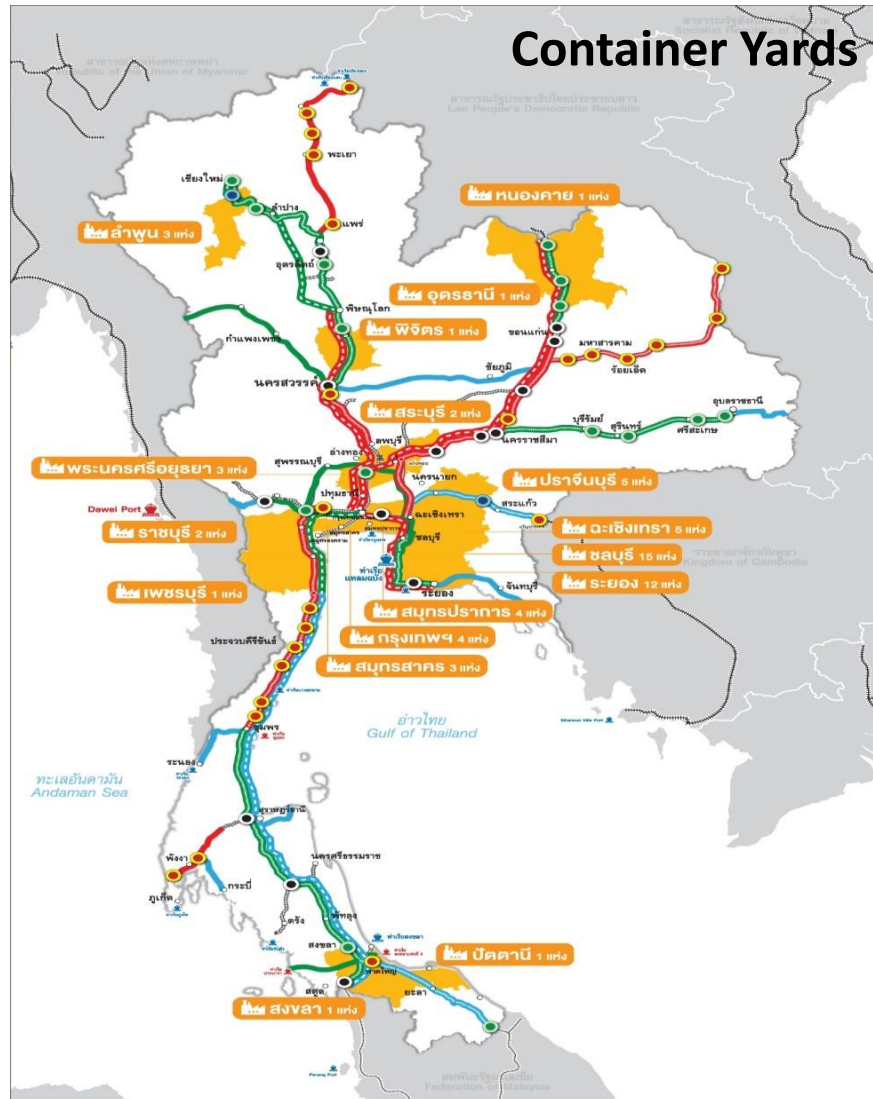
— **7 Projects**
Preparing for Cabinet
Approval



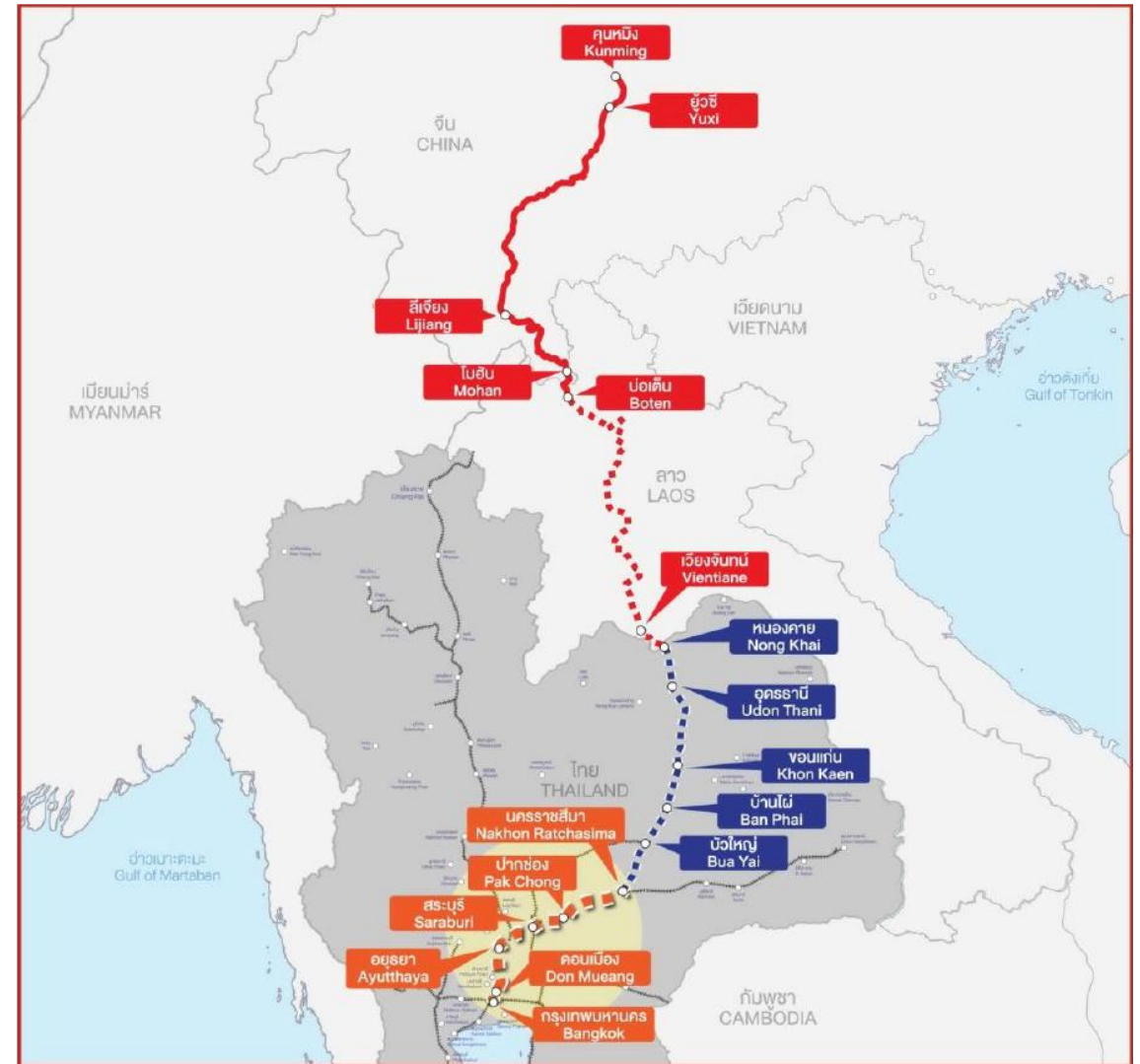
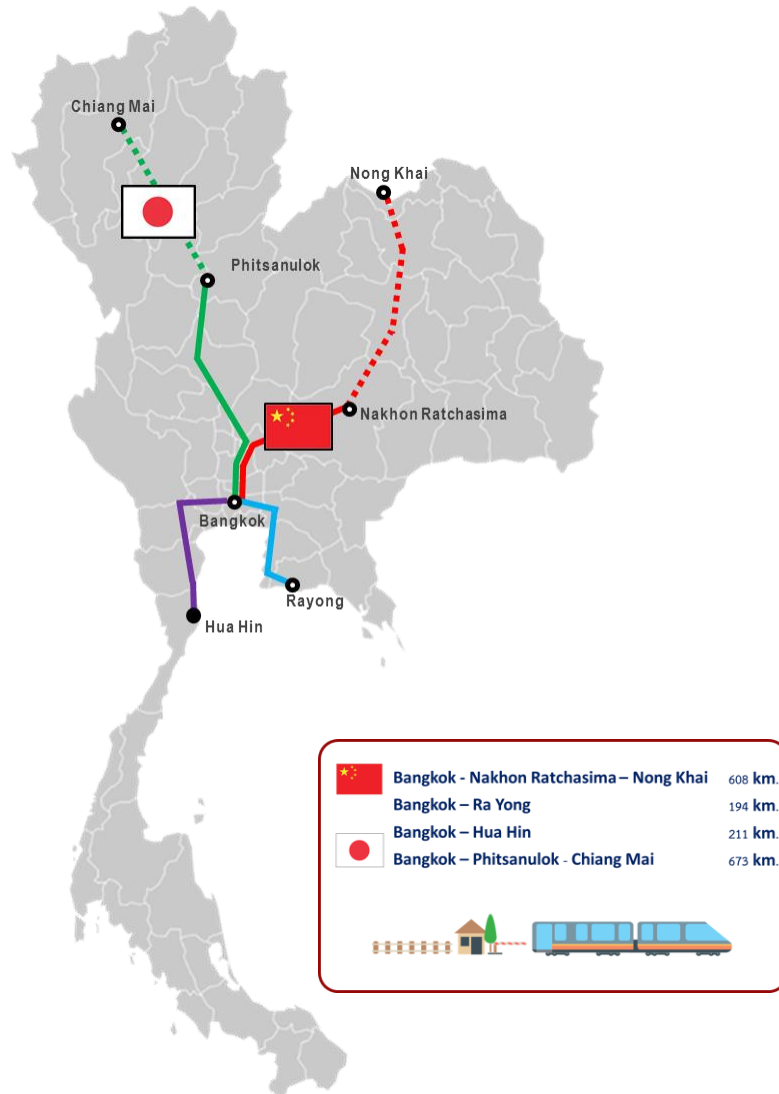
Dry Port Master Plan



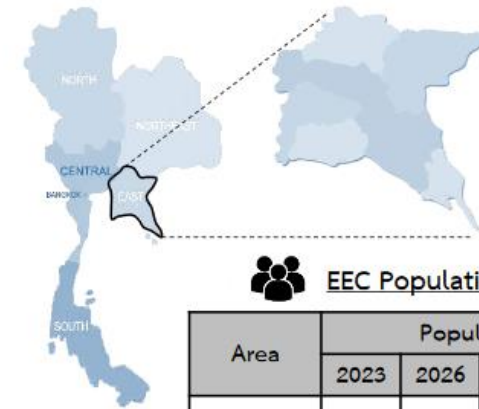
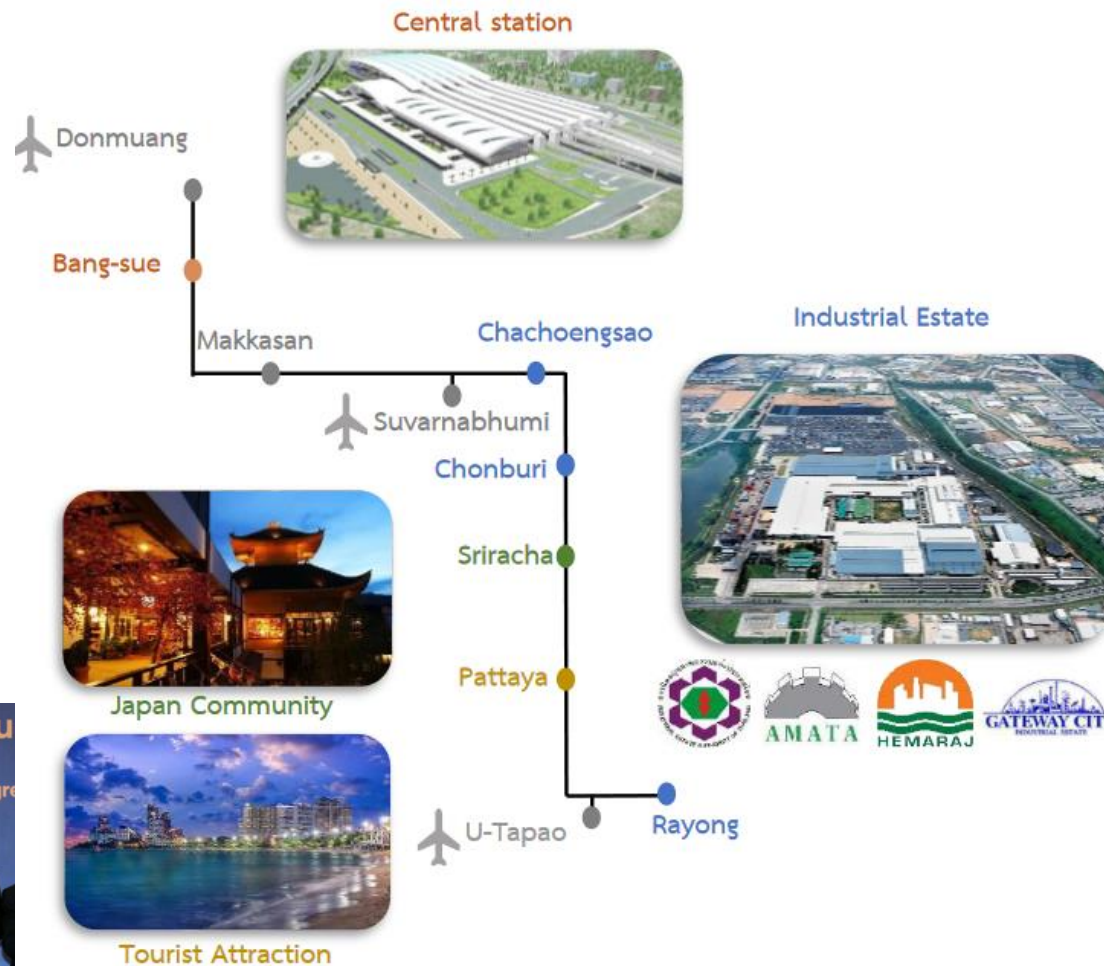
Container Yards and Track Terminals



High Speed Rail



3 Airport Seamless Connection by High Speed Rail (HSR)



EEC Population forecast

Area	Population (Million)				
	2023	2026	2031	2036	2041
EEC	4.16	4.54	5.21	5.77	6.4

CAGR of Thailand eastern province is estimated to grow at 2.1% per year due to growth in EEC (Chachoengsao, Chonburi and Rayong)



Estimate Project Ridership

Ridership forecast						
Year	2023	2033	2043	2053	2063	2073
Urban demand	103,920	130,470	158,310	185,950	197,370	209,370
Inter - city demand	65,630	85,450	119,370	134,510	146,700	155,130
Total (per day)	169,550	215,920	277,680	320,460	344,070	364,500

Signed Contract
24 Oct 2019



Makkasan Complex



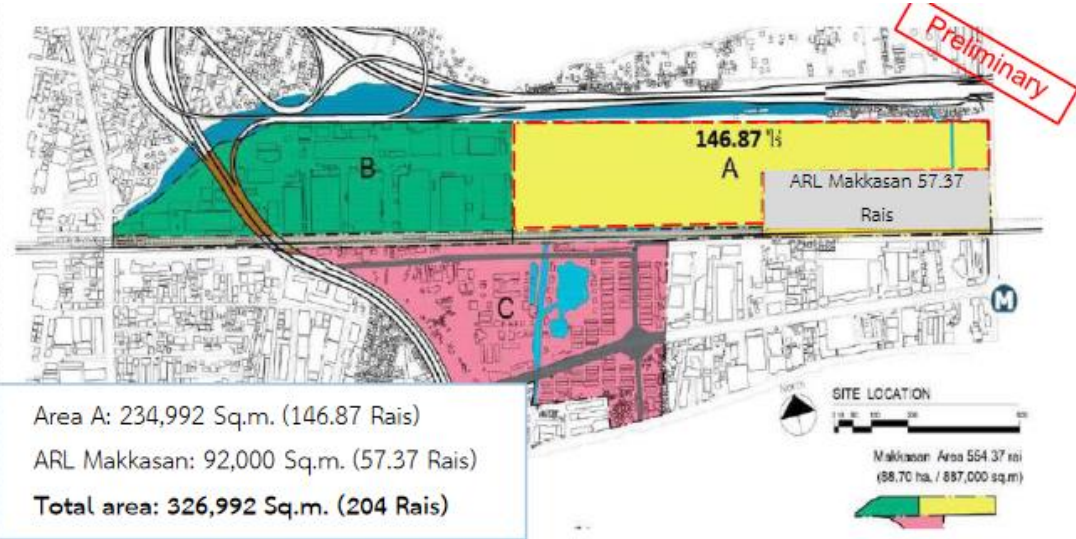
G tower
(Office Building)



Fortune tower
(IT mall, Office Bldg)



Central Rama IX
(Department Store)



The area cover around 326,992 square meters or approximately 204 rais

FAR: 8:1



Property development of Makkasan area

Property development of Makkasan area is expected to used in various ways e.g. mixed-use ,commercial purpose and public service



Siam Paragon
(Department Store)



Chulalongkorn
University



Terminal 21
(Department Store)



Ashton asoke
(Condominium)



Mixed-used building



Convention hall

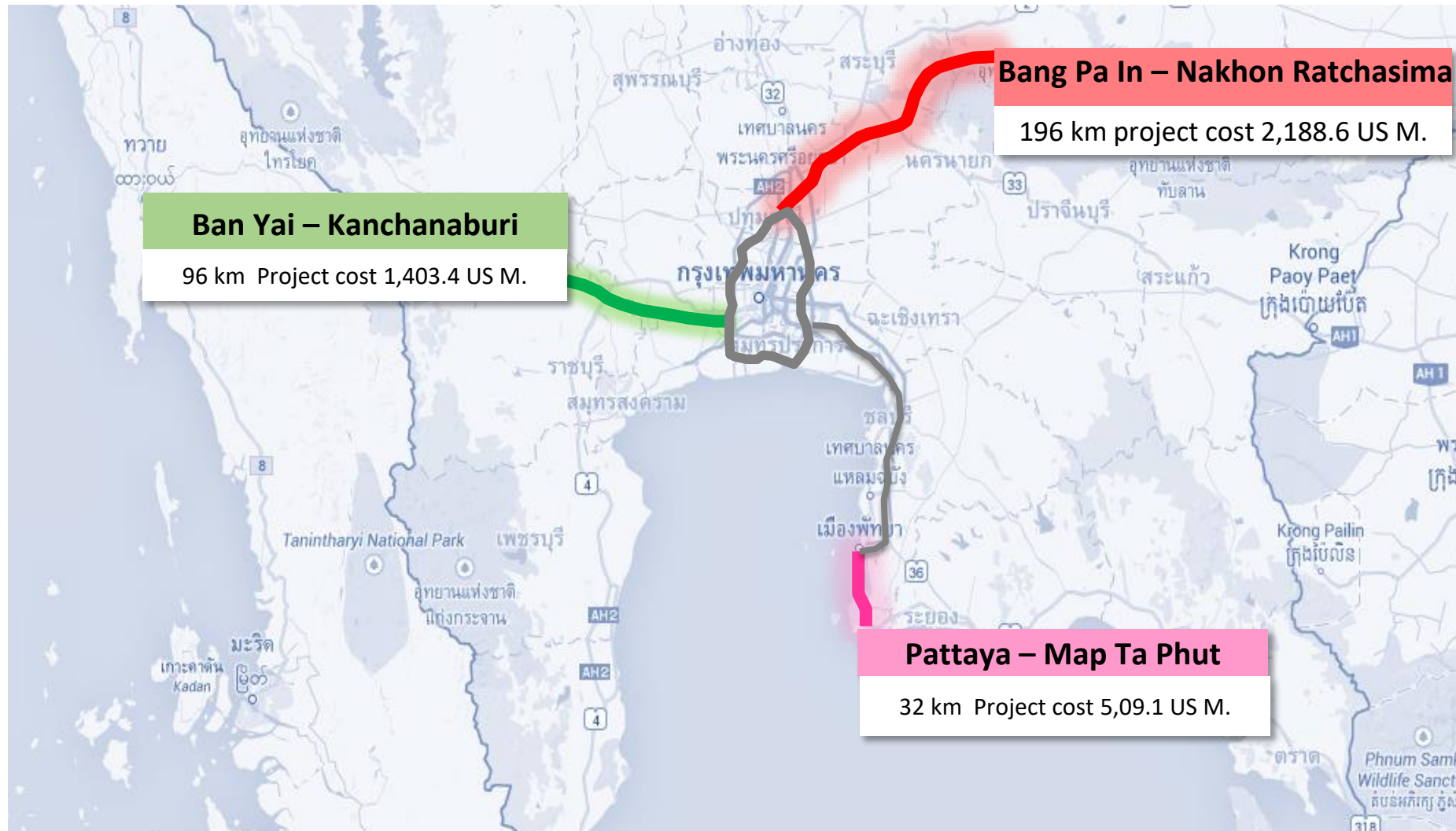


EEC Head Quarters

Bangsue Grand Station



Intercity Motorway



Cabinet approved for construction
July 14, 2015

Pattaya – Map Ta Phut

- Progress : 100%

Bang Pa In – Nakhon Ratchasima

- Progress : 80 %
- Expected Completion: 2020

Bang Yai - Kanchanaburi

- Progress : 22 %
- Expected Completion: 2021

Updated: Sep 2019

Future : Maritime Transport



Single Rail Transfer Operator (SRTO), Laem Chabang

Completion
Operating



Coastal Port Development (Terminal A)

Operating



Laem Chabang Phase III

2025



Ferry Service across Gulf of Thailand

2023



Development of Ferry Terminal Krabi/Samui, Surat Thani

2024



Suvarnabhumi Airport Development Plan

Development Plan 2nd Phase (Project cost 1,785.80 US M. approved by Cabinet)

- Midfield Satellite Building (SAT) 1 and 2
- Passenger Terminal

Passengers Capacity Current capacity : accommodate 45 mil passengers/yr.

In 2018 : 64.7 million passengers

3rd Stage
(2021)

Accom. 90 mil passenger/year ✈️ 449,044 Flights/years

4th Stage
(2026)

Accom. 105 mil passenger/year ✈️ 504,316 Flights/years

5th Stage
(2030)

Accom. 120 Million/year ✈️ 561,332 Flights/years



Satellite Terminal
Complete in Yr.2020



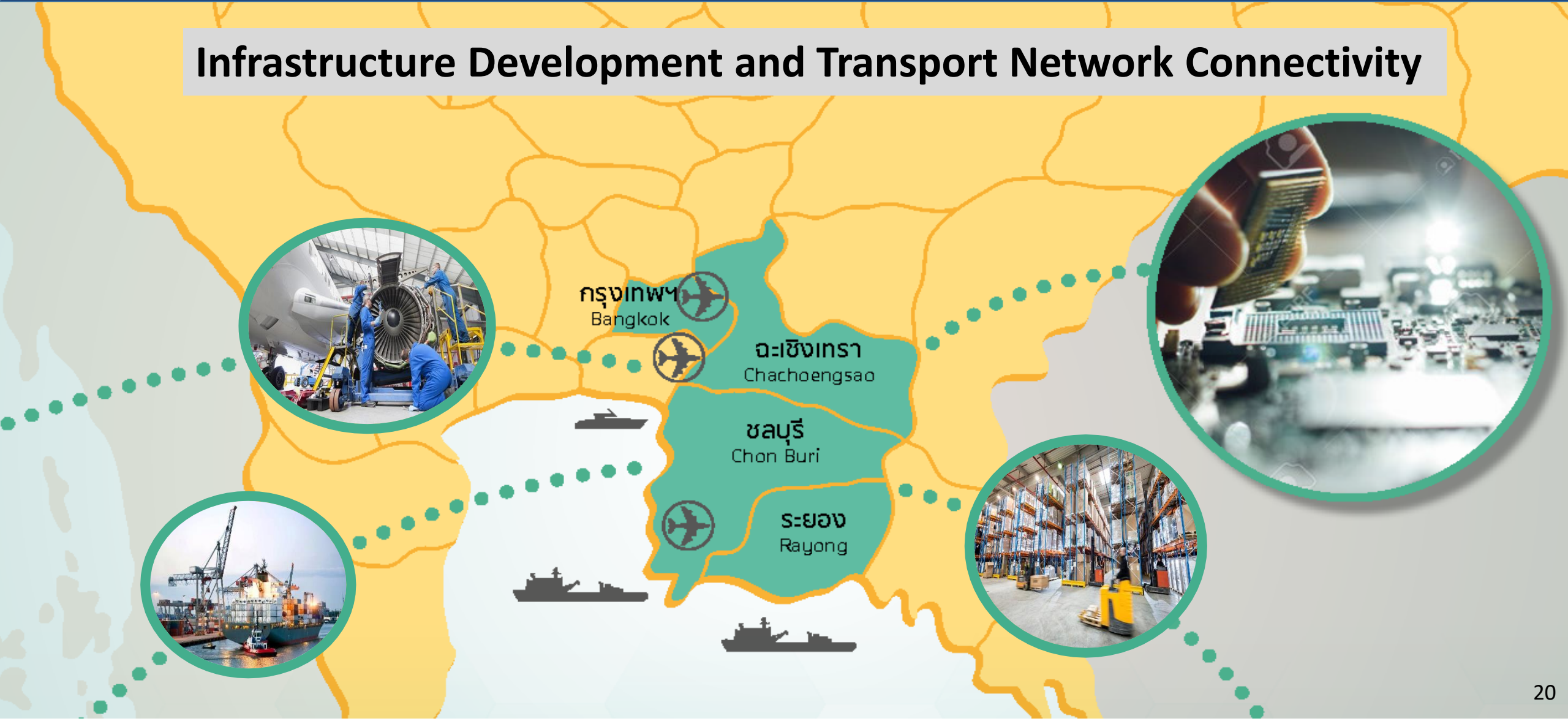
Future : Air Transport

- ✈ • Suvarnabhumi International Airport
- ✈ • Don Muang International Airport
- ✈ • Mae Sot Airport
- ✈ • Bae Tong Airport
- ✈ • Sakon Nakhon Airport
- ✈ • U-Tapao International Airport



Eastern Economic Corridor Development (EEC)

Infrastructure Development and Transport Network Connectivity



Development Plan : 3 Phases

Immediate Phase (2 yr)

Plans/projects to accelerate implementation for driving economic development in EEC

Medium Phase (3 yr)

Plans/projects continue from 1st stage to support trade activities from transport network efficiency

Long Term Plan

Plans/projects to support sustainable development in EEC, connect transportation network with regional countries and neighbor countries to be Gateway for CLMV

2017

2018

2019

2020

2021

2022

Projects

- PPP MRO U-Tapao Phase I
- PPP HSR connect 3 airports
- U-Tapao Train Station
- PPP Passenger terminal 3 at U-Tapao
- PPP Laem Chabang Phase 3
- PPP Map Ta Phut Port Phase 3
- Motorway (Pattaya – Map Ta Phut)
- Passenger Terminal at Chuk Samet Pier
- Secondary rd. network improvement

- Double Track Railway (Laem Chabang – Mab Ta Phut -Rayong- Chanthani - Trad)
- 2nd Runway at U-Tapao International Airport
- PPP Air cargo (U-Tapao) Phase 1
- PPP Free Trade Zone at U – Tapao International Airport
- Motorway (Laem Chabang -Prachinburi)
- Secondary rd. network improvement
- Bypass network improvement

- Railway connect EEC- Dawei -Cambodia
- ICD Chachoengsao
- PPP Air cargo (U - Tapao) Phase 2
- Motorway (Chonburi- Klaeng district)
- Increase road network for new urban development

*The EEC Development Policy
Committee endorsed plans
February 1, 2018*

99 projects

8,368 US M.

62 projects

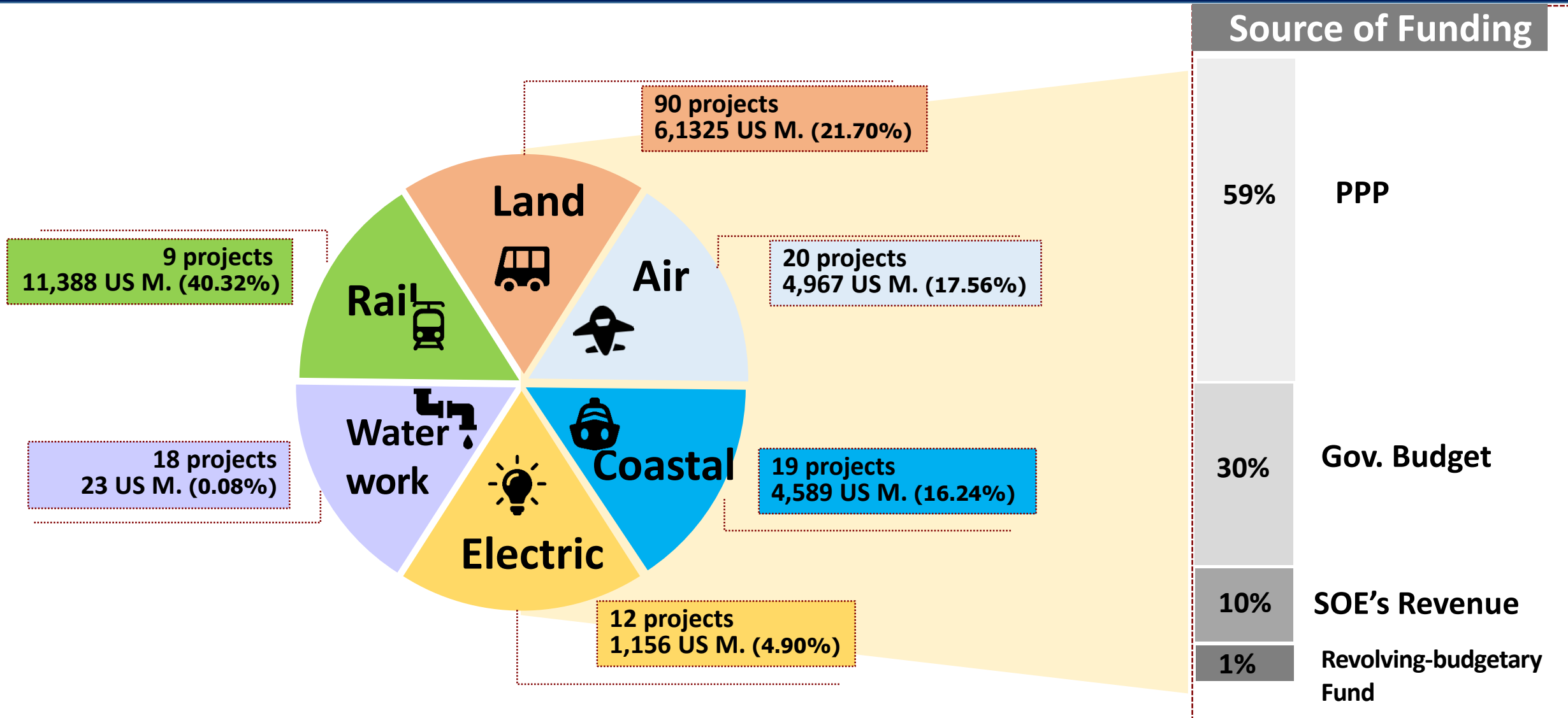
11,839 US M.

7 projects

7,225 US M.

168 projects with total investment cost 27,432 US M.

6 Plans 168 Projects



Eastern Economic Corridor Development



High Speed Rail: Bangkok-Ra Yong
Linking 3 International Airport
Don Muang – Suvarnabhumi - U Ta Pao
Accommodate 100,000 passenger/day

Laem Chabang Deep Sea Port

To accommodate 18 M. TEU/year
To accommodate 3 M. exported car units/year
To rank world's no. 10 port

Map Ta Phut Port

To serve 10,285.7 US M. investment in petrochemical over the next 5 years

Sattahip Port

To accommodate 3 M. investors & tourists/year
Add economic value of 131.4 US M./year

Double Track Railway
Chachoengsao-Khlong 19-Kaeng Khoi
Connecting industrial area & ports

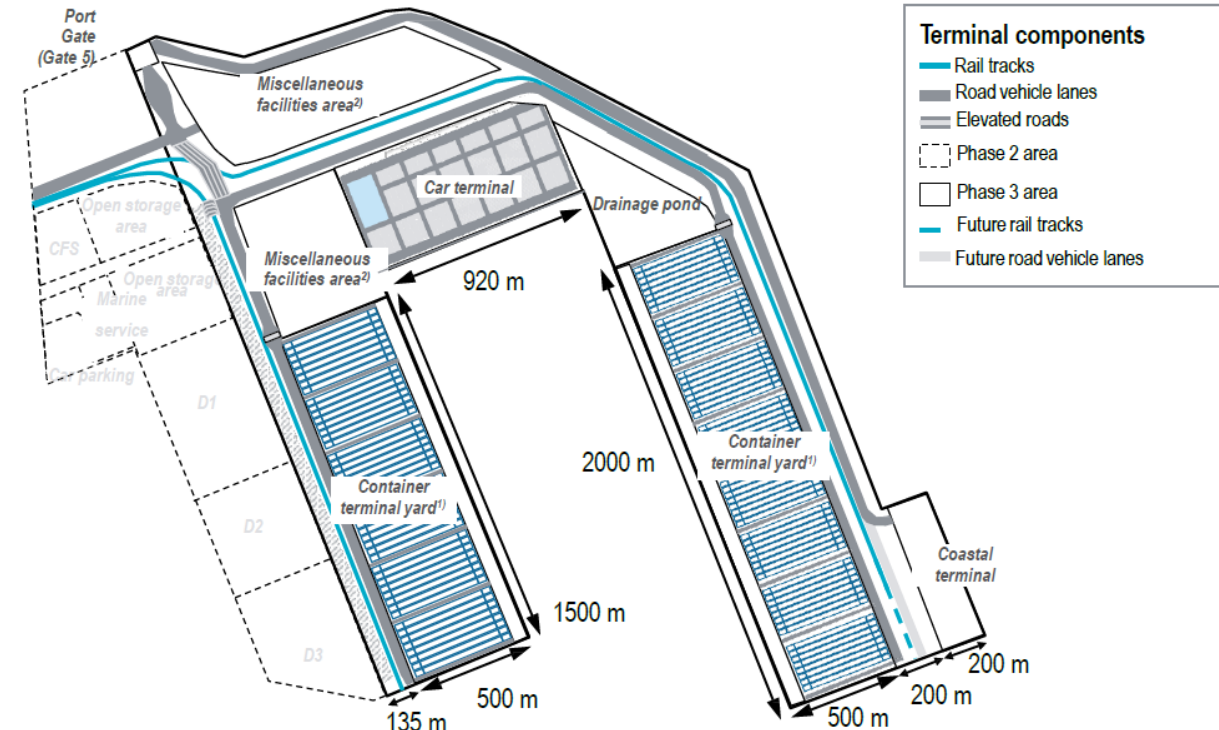
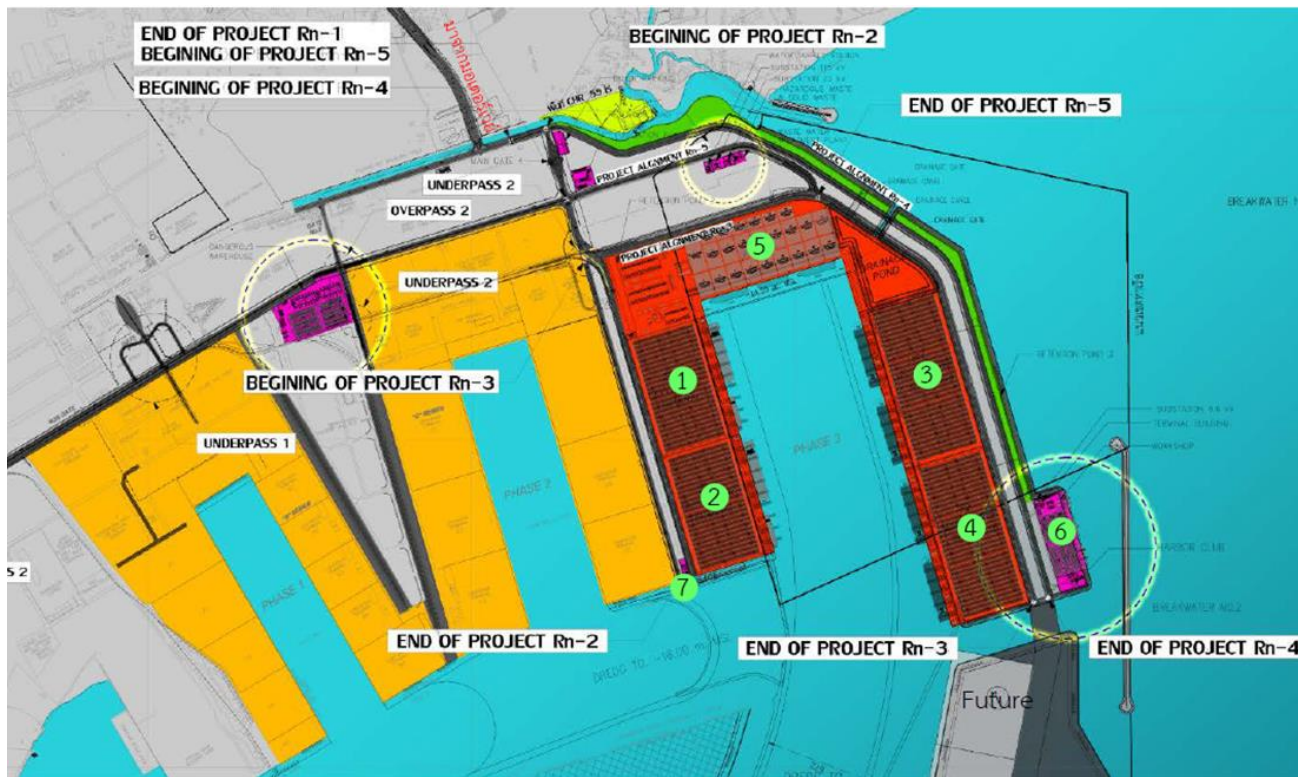
Motorway No. 7 Bangkok – Ban Chang: Pattaya – Mab Ta Phut (32 km)
To support related industries between Laem Chabang – Map Ta Phut & U-Tapao International Airport
Motorway No. 61
Laem Chabang – Nakhon Ratchasima 288 km
Motorway No. 72
Chonburi-Trad 216 km

U-Ta Pao International Airport
Accommodate more than 3 mil passenger/yr
Aerotropolis on area 575 Rai
Maintenance Repair & Overhaul Centre (MRO)



Laem Chabang Port 3rd Phase

Bidding

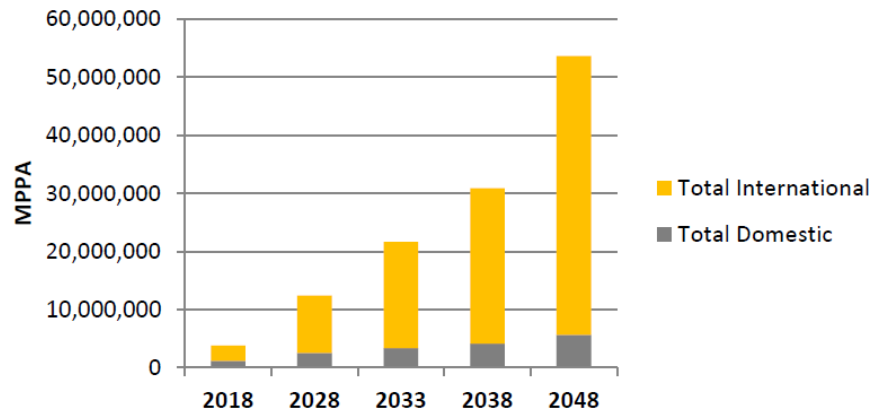


- 4 Terminals : 7 million TEUs / Year
- 1 Ro/Ro Terminal : 1 million cars /Year
- 1 Domestic Coastal Terminal : 1 million TEUs

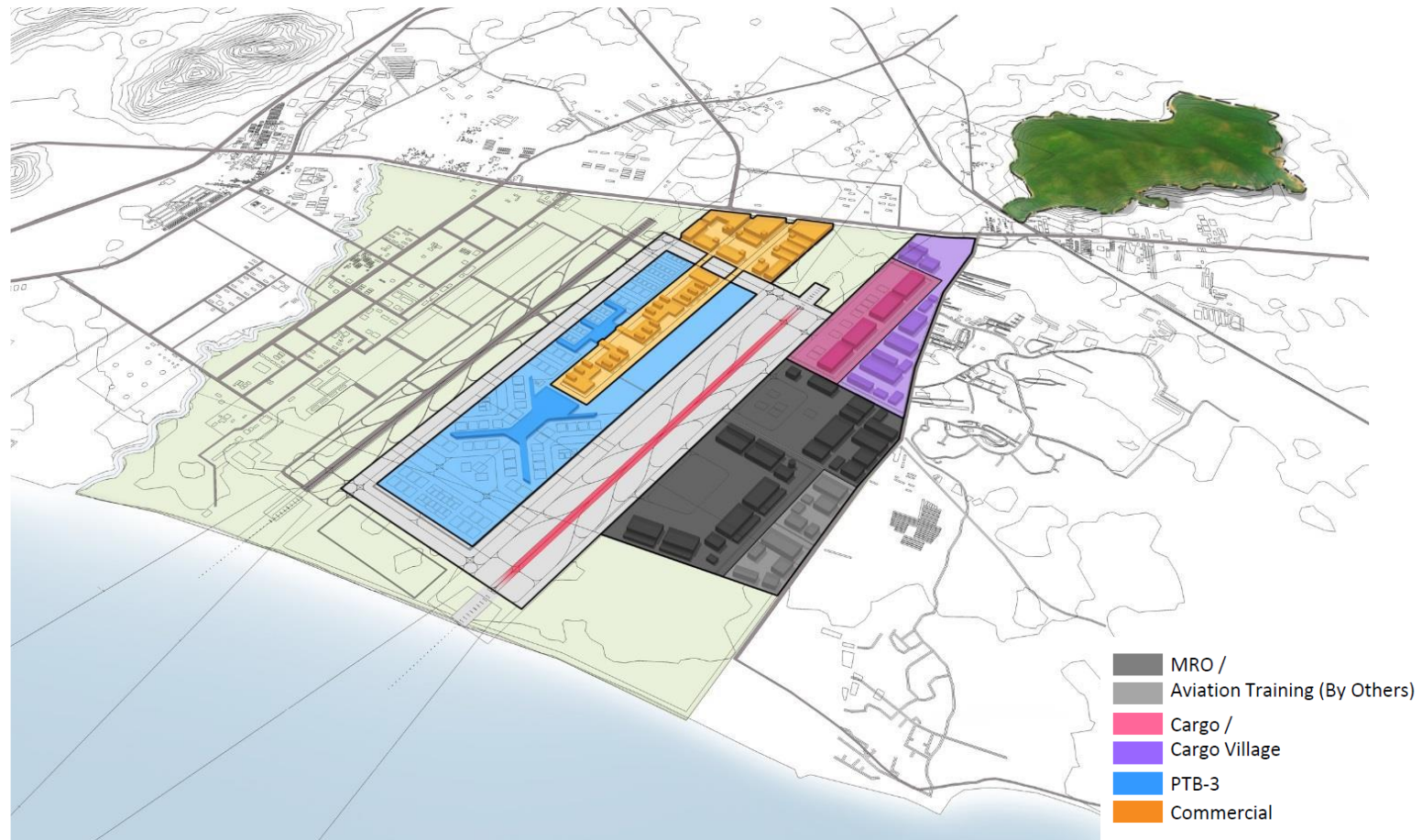
Utapal Airport

Bidding

Utapao Airport Forecast - Total Annual Passengers



53.65 MAP
'Ultimate'





THANK YOU

Office of Transport and Traffic Policy and Planning Ministry of Transport