



# Mega Projects to Drive Thailand's Economic Growth



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(Deputy Minister, Ministry of Transport)

# Contents



Thailand's Transport Infrastructure Development Strategy 2015-2022

Priority Projects and Plans

Eastern Economic Corridor (EEC)



# Transportation Development Framework



# 20 Years' Thailand Transport System Development Strategy (2017-2036)



Strategy 1

Integrated Transport Systems: Connectivity, Accessibility, Mobility

Strategy 2

Transport Services: Safety, Reliability

Strategy 3

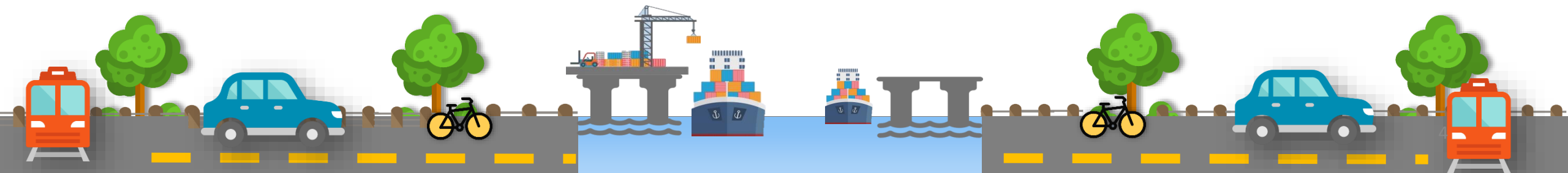
Regulations & Institution: Transparency, Equity, PPP

Strategy 4

Human Resource Development: World-Class Standard

Strategy 5

Technology & Innovation: Research and Development (R&D)





# Transport Infrastructure Development Strategy 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 2016 (20 Projects) Investment Cost 49,570.04 US M.



## 1. Air Transport

Suvarnabhumi Airport Phase II (1,437.78 US M.)

## Dual Track Railways (1.00 Meter-gauge)

- 1) Jira Junction – Khon Kaen (680.07 US M.)
- 2) Mab Kabao- Jira Junction (841.38 US M.)
- 3) Nakhon Pathom -Hua Hin (572.75 US M.)
- 4) Prachuab Kiirikan- Chumpon (492.85 US M.)
- 5) Lop Buri- Pak Nam Pho (706.35 US M.)

## Standard-gauge, Dual-Track Railways

- 1) Bangkok- Nong Khai, Kaeng Koi-Mab Taphut (10,547.08 US M.)
- 2) Bangkok- Phitsanulok-Chiang Mai (12,842.08 US M.)
- 3) Bangkok-Hua Hin (2,704.94 US M.)
- 4) Bangkok-Ra Yong (4,357.94 US M.)



## Motorway

- 1) Pattaya-Mab Taphut (509.13 US M.)
- 2) Bang Pa In- Saraburi-Nakhon Ratchasima (2,089.51 US M.)
- 3) Bang Yai-Ban Pong-Kanchanaburi (1,340.60 US M.)

## Urban Mass Rapid Transit

- 1) Orange Line: Thailand Cultural Ctr-Minburi (3,259.93 US M.)
- 2) Pink Line: Kae Rai-Minburi (1,528.16 US M.)
- 3) Yellow Line: Lad Praow - Sam Rong (1,408.19 US M.)
- 4) Red Line: Bang Sue-Phyathai-Makkasan- Hua Mak & Bang Sue-Hua Lam Phong (1,261.65 US M.)
- 5) Purple Line: Tao Poon-Ratburana (2,888.91 US M.)



Cabinet acknowledged  
December 1, 2015



## Maritime Transport

- 1) Coastal port development (Terminal A), Laem Chabang Port (48.72 US M.)
- 2) Single Rail Transfer Operator (SRTO) Phase 1, Laem Chabang Port (52.02 US M.)

# Action Plan 2017 (36 Projects) Investment Cost 25,593.07 US M.



## In Service: 2 projects

1. Ferry Service across Gulf of Thailand (MD)
2. Common ticket system (OTP)

38.72 US M.

- US M.

38.72 US M.



## Procurement Stage: 15 projects

1. Public Bus Procurement & Station (BMTA)
2. Blue Line : Bang Kae – Sai 4 (MRT)
3. Dark Green : Samutprakarn – Bang Pu (MRT)
4. Dark : Kukot - Lumluka (MRT)
5. Orange : Talingchan –Thailand Cultural Centre (MRT)
6. ARL Extension Don Muang-Bang Sue- Phayathai (SRT)
7. Dark Red : Rangsit – TU Rangsit (SRT)
8. Dual Track (DT) Paknampho-DenChai (SRT)
9. DT Jira - Ubonratchathani (SRT)
10. DT Khonkaen – Nong Khai (SRT)
11. DT Chumporn – Surat Thani (SRT)
12. DT Surat Thani - Songkha (SRT)
13. DT Hat Yai – Padang Beza (SRT)
14. DT Denchai – Chiang Mai (SRT)
15. MRO Dev. at U – Tapao Airport (TG)

13,387.56 US M.

64.92 US M.

605.63 US M.

347.03 US M.

280.09 US M.

3,524.40 US M.

889.98 US M.

217.06 US M.

1,601.89 US M.

1,023.99 US M.

744.74 US M.

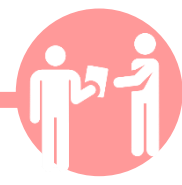
668.14 US M.

1,480.67 US M.

226.91 US M.

1,712.12 US M.

- US M.



## Proposal Development: 4 projects

1. Ferry Terminal Dev. (MD)
2. Motorway Hat Yai-TH-Malaysia Border (DOH)
3. Regional Truck Terminal (9 border provinces) (DLT)
4. Regional Truck Terminal (8 regional cities) (DLT)

1,399.59 US M.

28.05 US M.

871.43 US M.

230.45 US M.

269.66 US M.



## Construction Stage: 5 projects

1. Intermodal Facility – Chiang Khong (DLT)
2. Regional Airport Dev. (Mae Sot/Bae Tong/Sakon Nakhon/Krabi) (DOA)
3. Rama 3 – Dao Kanong-Outer Ring (West) (EXAT)
4. DT Hua Hin- Prachuap Khiri Khan (SRT)
5. Baggage System Handling Upgrade at Suvarnabhumi Airport (AOT)

1,565.67 US M.

67.59 US M.

219.59 US M.

892.69 US M.

292.56 US M.

93.25 US M.

Cabinet acknowledged  
December 13, 2016

## Cabinet/PPP Committee Approval: 8 projects

1. New Line DT Den Chai-Chiang Rai-Chiang Khong (SRT)
2. New Line DT Ban Pai – Nakhon Phanom (SRT)
3. Light Red Extension : Taling Chan-Siriraj & Taling Chan-Saraya (SRT)
4. Lam Cha Bang Phase 3 (PAT)
5. Exp. Northern Route N<sub>2</sub> and E-W Corridor (CAAT)
6. Exp. Kratu – Patong (EXAT)
7. Motorway Nakhon Phatom – Cha Am (DOH)
8. Cross-border Logistics Center Nakorn Phanom (DLT)

8,514.42 US M.

2,199.39 US M.

1,724.34 US M.

544.06 US M.

1,002.84 US M.

410.91 US M.

299.90 US M.

2,302.86 US M.

30.10 US M.

## Policy Driven: 2 projects

1. Truck Rest Area  
(Buriram/Udonthani/Kampaeng Phet (DOH)
2. Mass Transit in Phuket (MRT)

687.11 US M.

15.71 US M.

671.40 US M.

# Action Plan 2018 (44 Projects) Total Investment 5,7714.28 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 <b>New</b> (DOH)	716.30
10. Motorway: H35 BKK-Maha Chai <b>New</b> (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 <b>New</b> (OTP/SRT)	3,063.8
17. Mass Transit in Nakhorn Ratchasima <b>New</b> (OTP/SRT)	388.37
18. Mass Transit in Khon Kean <b>New</b> (OTP/SRT)	398.50
19. Laem Chabang Phase 3 (PAT)	2.59
20. Dry Port <b>New</b> (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 <sub>2</sub> 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. ARL Phayathai-Bang Sue-Don Muang (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) <b>New</b> (DOA)	34.73
22. Dev. Khon Kean (Passenger terminal) <b>New</b> (DOA)	64.28
23. Common Ticket (SRT/OTP)	21.07

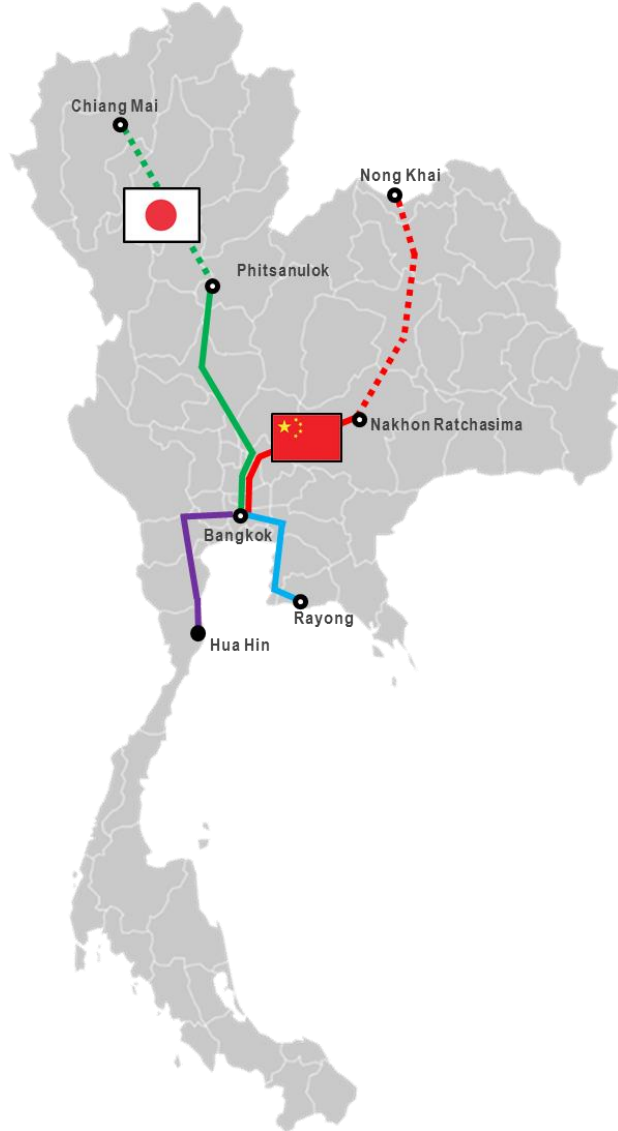
รวม 26,114.64 US M.

รวม 31,636.32 US M.





# High Speed Rail



Bangkok - Nakhon Ratchasima – Nong Khai 608 km.

Bangkok – Ra Yong 194 km.

Bangkok – Hua Hin 211 km.




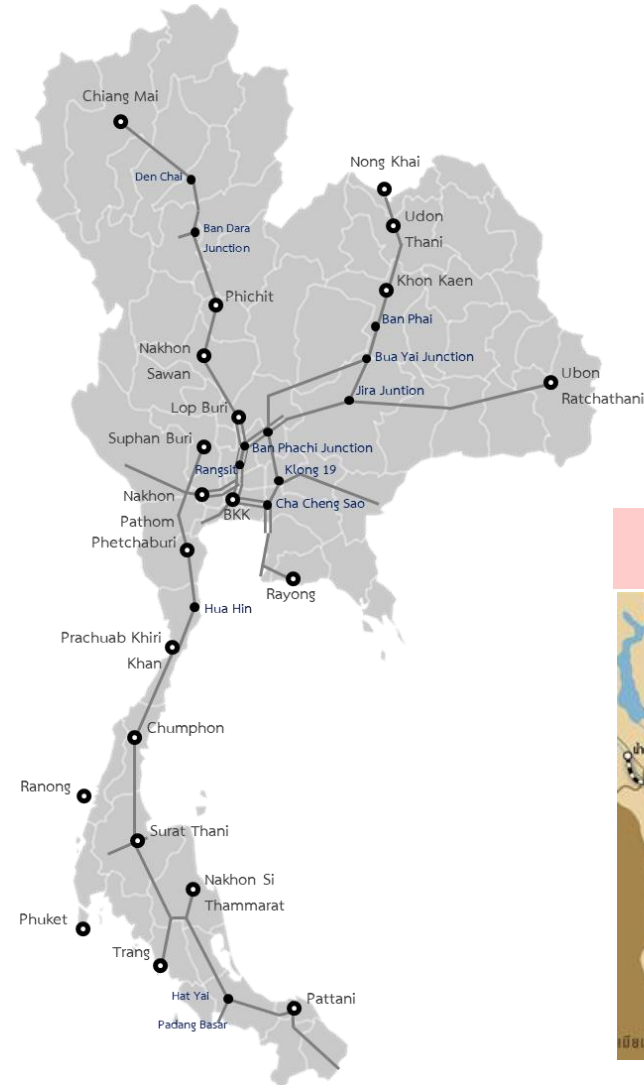
Bangkok – Phisanulok - Chiang Mai 673 km.





# Existing Railway Network

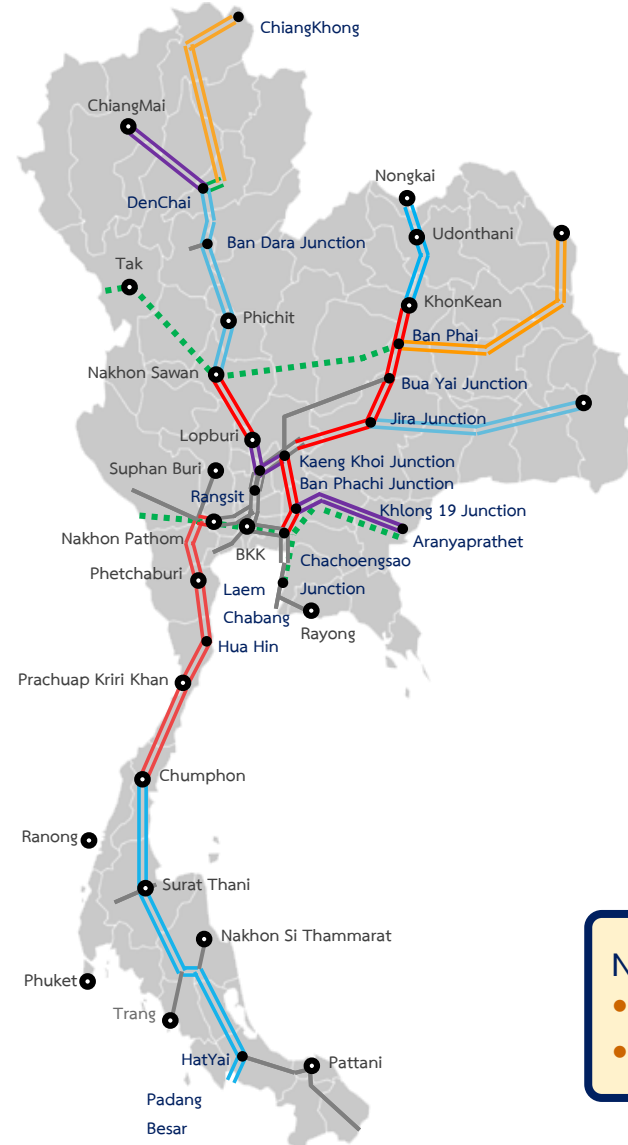
	Single	3,764 km
	Double (Lop Buri-Ban Pachi / Kaeng Khoi-Ban Phachi/Nakhon Pathom-BKK/BKK-Rangsit)	174 km
	Triple (Rangsit-Ban Phachi Junction/Hua Mak- Chachoengsao)	105 km
	<b>Total</b>	<b>4,043 km</b>





# Future Railways 3,455 Km

	Completion	km
<b>Immediate Phase</b>		
Chachoengsao-Khlong19-Kaeng Khoi	2019	106
Jira Junction-Khon Kean	2019	185
7 sections		
993 km		
Prachuap Kiri Khan-Chumphon	2020	167
Lopburi-Pak Nam Pho	2020	148
Mab Kabao-Jira Junction	2020	132
Nakhon Pathom-Hua Hin	2020	165
Hua Hin-Prachuap Kiri Khan	2020	90
<b>Medium Phase</b>		
Khon Kean-Nong Kai	2024	174
Chumphon-Surat Thani	2024	167
7 sections		
1,392 km		
Pak Nam Pho-Den Chai	2025	285
Jira Junction-Ubonratchathani	2025	309
Hat Yai-Padang Besar	2025	48
Sriracha-Map Ta Phut	2025	70
Surat Thani-Hat Yai-Song Kha	2026	339
<b>Long term Plan</b>		
Den Chai-Chiang Mai	2029	217
2 sections		
392 km		
Klong19-Aranyaprathet	2030	175

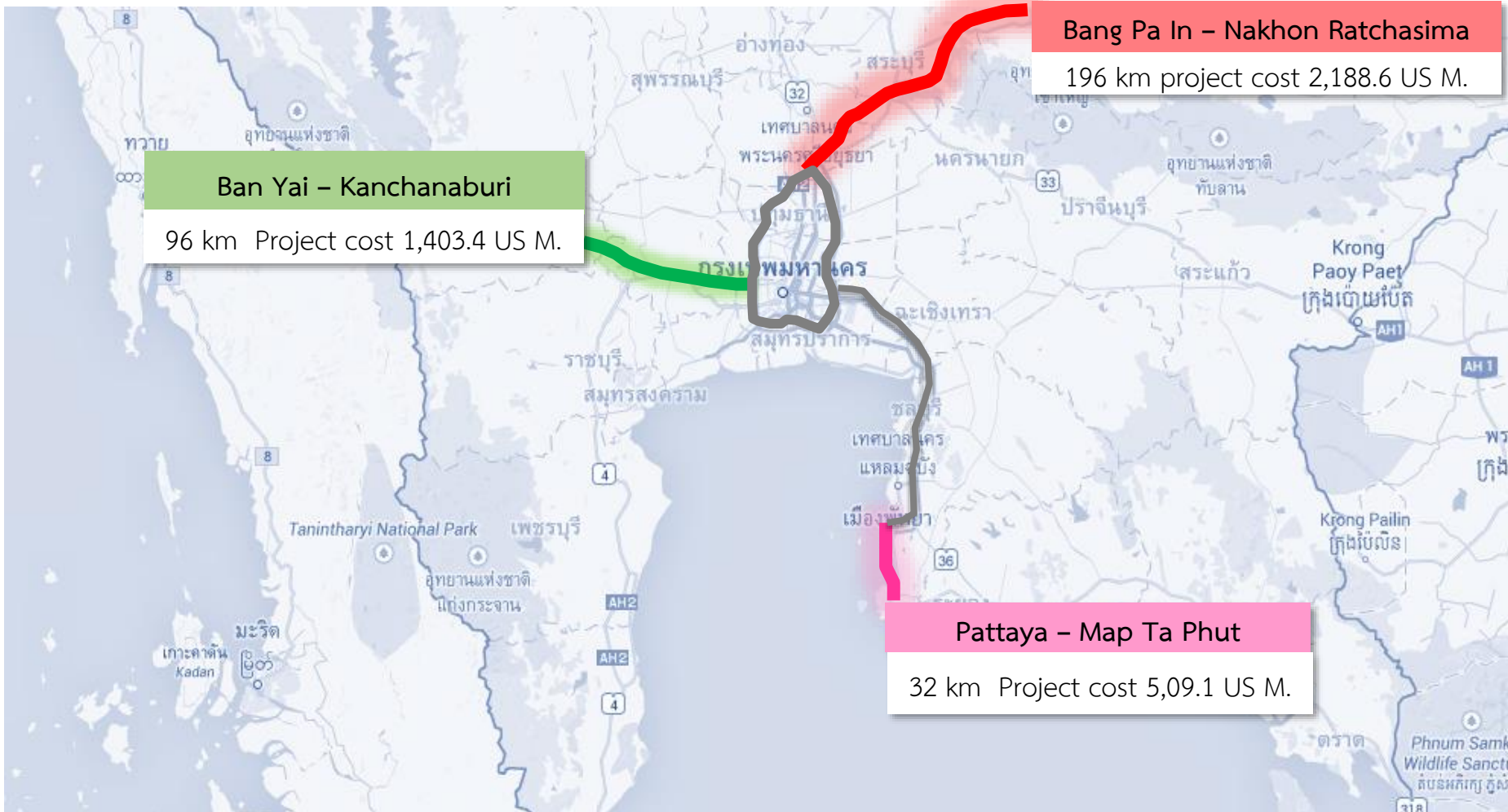


**New Double Track Lines**

- Den Chai-Chiang Khong 323 km
- Ban Pai-Nakhon Phanom 355 km



# Intercity Motorway



**Ban Yai – Kanchanaburi**  
96 km Project cost 1,403.4 US M.

**Bang Pa In – Nakhon Ratchasima**  
196 km project cost 2,188.6 US M.

**Pattaya – Map Ta Phut**  
32 km Project cost 5,09.1 US M.

Cabinet approved for construction  
July 14, 2015

**Pattaya – Map Ta Phut**

- Progress : 68 percent
- Expected Completion: November 2018

**Bang Pa In – Nakhon Ratchasima**

- Progress : 29 percent
- Expected Completion: July 2020

**Bang Yai - Kanchanaburi**

- Progress : 7 percent
- Expected Completion: October 2020

# Motorway 3 New Sections – Support Tourism & Industrial





## Enhancing network to other areas

- Pattaya – Map Ta Phut
  - Distance 32 km
  - To support related industrial areas Laem Chabang – Map Ta Phut
  
- Laem Chabang – Nakhon Ratchasima
- Ban Bueng-Klaeng – Chanthaburi-Trad



# Future : Maritime Transport

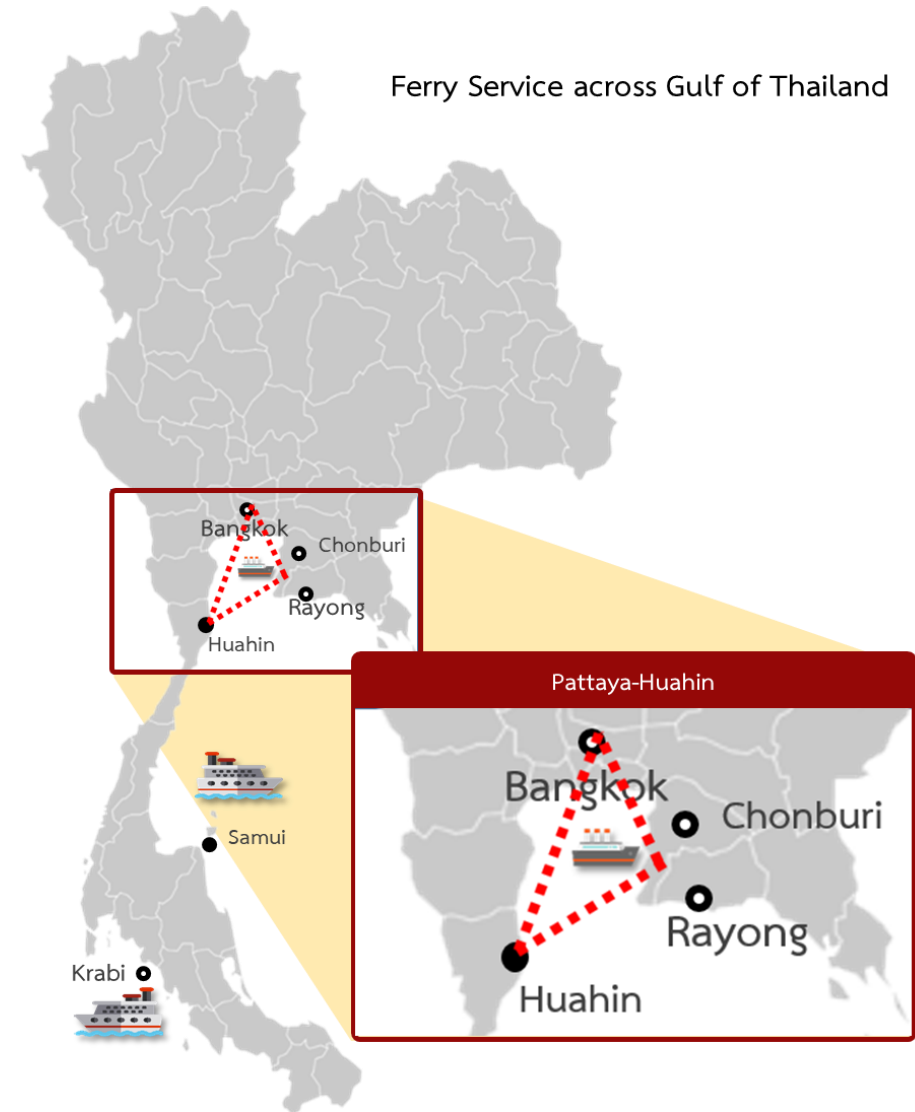
	Completion
 Single Rail Transfer Operator (SRTO), Laem Chabang	2018
 Coastal Port Dev. (Terminal A)	2018
 Laem Chabang Phase III	2020





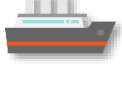

# Future : Maritime Transport

	Completion
 Single Rail Transfer Operator (SRTO), Laem Chabang	2018
 Coastal Port Dev. (Terminal A)	2018
 Laem Chabang Phase III	2020
 Ferry Service across Gulf of Thailand	2023





# Future : Maritime Transport

	Completion
 Single Rail Transfer Operator (SRTO), Laem Chabang	2018
 Coastal Port Development (Terminal A)	2018
 Laem Chabang Phase III	2020
 Ferry Service across Gulf of Thailand	2023
 Development of Ferry Terminal Krabi/Samui, Surat Thani	2024







# Future : Air Transport

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





# Suvarnabhumi Airport Development Plan

Development Plan 2<sup>nd</sup> 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 2016 : 56 million passengers

3<sup>rd</sup> Stage  
(2021)

Accom. 90 mil passenger/year



449,044 Flights/years

4<sup>th</sup> Stage  
(2026)

Accom. 105 mil passenger/year



504,316 Flights/years

5<sup>th</sup> Stage  
(2030)

Accom. 120 Million/year



561,332 Flights/years





# 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 1<sup>st</sup> 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)
- 2<sup>nd</sup> 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

99 projects

8,368 US M.

62 projects

11,839 US M.

7 projects

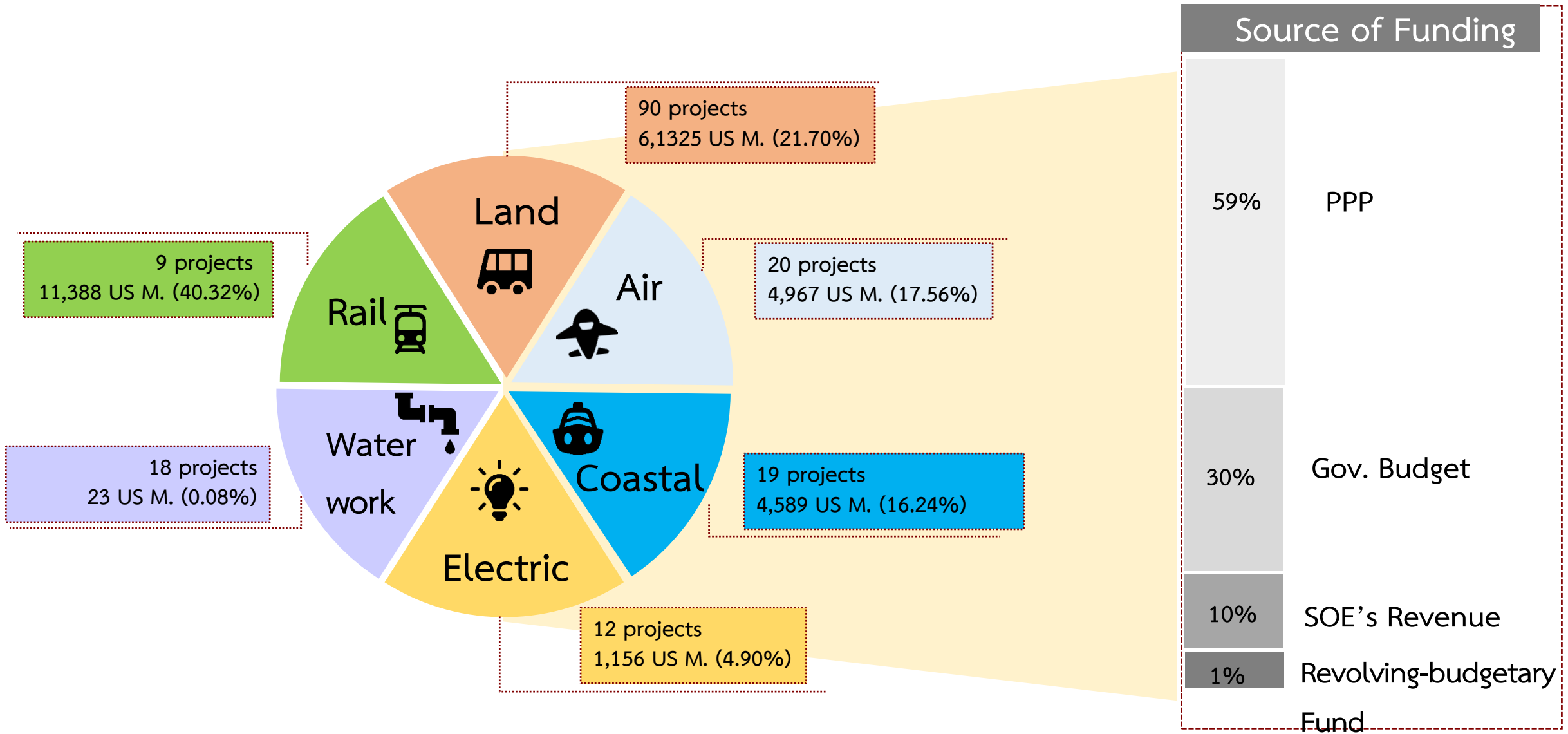
7,225 US M.

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

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



# 6 Plans 168 Projects







# Eastern Economic Corridor Development

สัญลักษณ์ในแผนที่


- ทางหลวงพิเศษ
- รถไฟความเร็วสูง
- ทางรถไฟรางคู่
- ท่าอากาศยาน
- ท่าเรือ

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



**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



**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



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

# การบูรณาการเชื่อมโยงด้านโครงสร้างพื้นฐานและการดึงดูดนักลงทุน

**ฉะเชิงเทรา** ชุมชนนำอยู่มาตรฐานโลกรองรับกรุงเทพฯ

## ชลบุรี-ศรีราชา

เมือง/ศูนย์กลางการศึกษา  
นานาชาติ รองรับ  
อุตสาหกรรมรถยนต์อนาคต/  
อิเล็กทรอนิกส์อัจฉริยะ:

## ท่าเรือแหลมฉบัง

ท่าเรือระดับโลก  
เชื่อม AEC จีน-อินเดีย

## พิกษา-สัตหีบ-ระยอง

เขตท่องเที่ยวภาคตะวันออก  
(เชิงธุรกิจ-ครอบครัว-สุขภาพ)  
นำโดยสนามบินพิกษาอู่ตะเภา

## ระยอง

เมืองนานาชาติมาตรฐานโลก  
นำอยู่ที่สุดในอาเซียนธุรกิจ  
กันสมัยวิจัยด้านอาหาร  
และไบโอไฮโคโนมี

## สนามบินอู่ตะเภา ท่าเรือจุกเสม็ด

ศูนย์กลางคมนาคม  
ถนน-เรือ-เครื่องบิน-รถไฟความเร็วสูง  
ศูนย์ธุรกิจการบิน  
(ซ่อม-ส่งสินค้า-พัฒนาคน)

## การเชื่อมโยงพื้นที่

### ชายฝั่งทะเลตะวันออกกับอนุภูมิภาค

- เชื่อมโยงท่าอากาศยาน 3 แห่ง(สุวรรณภูมิ ดอนเมือง และอู่ตะเภา)
- เชื่อมโยงการคมนาคมขนส่งทางถนน ทางราง ทางเรือ และทางอากาศ
- พัฒนากำเรือ
- เพิ่มศักยภาพการท่องเที่ยวทางทะเลการเชื่อมโยงกับ  
ท่าเรือท่องเที่ยว 2 พังทะเลอ่าวไทยและอันดามัน

## เขตเศรษฐกิจพิเศษเกาะกูด

## เศรษฐกิจพิเศษทวาย

## เขตเศรษฐกิจพิเศษสระแก้ว

## เขตเศรษฐกิจพิเศษตราด

Thank you

