



Mega Projects to Drive Thailand's Economic Growth



March 19, 2018

Pailin Chuchottaworn
(Deputy Minister, Ministry of Transport)

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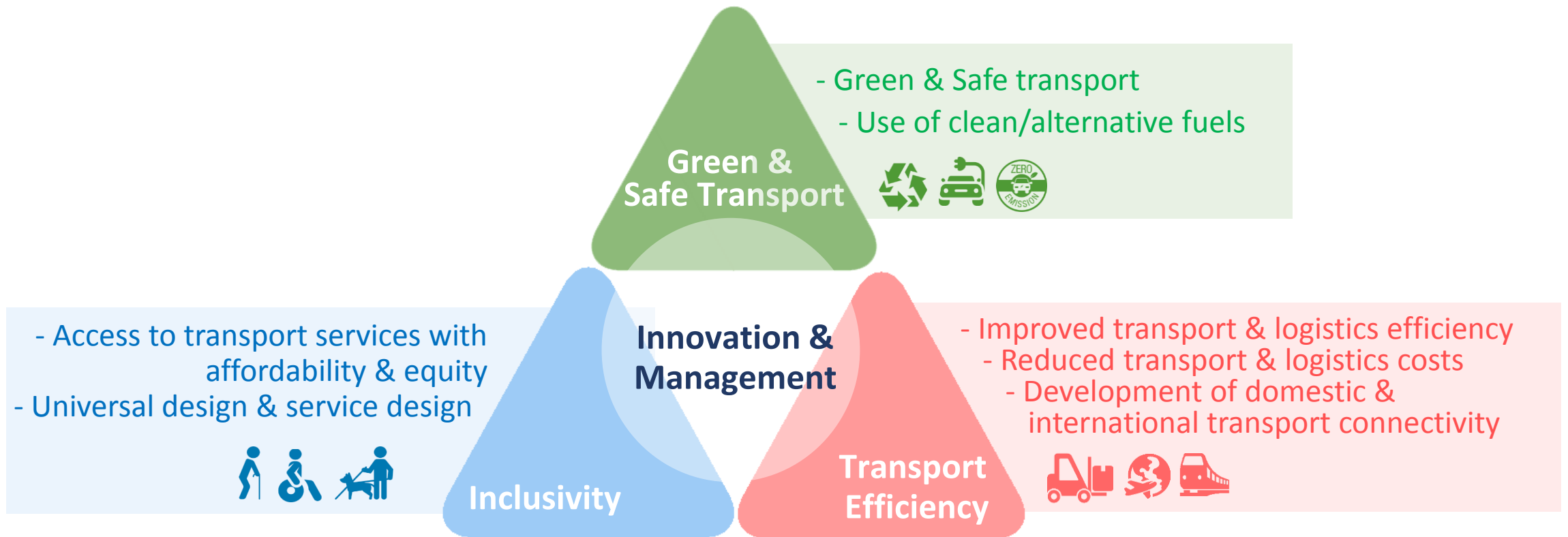


Thailand's Transport Infrastructure Development Strategy 2015-2022

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

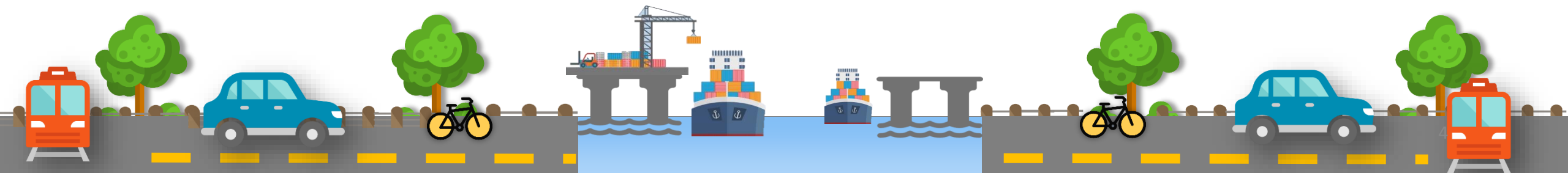
Regulations & Institution: Transparency, Equity, PPP

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

38.72 US M.

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

- US M.

38.72 US M.

Procurement Stage: 15 projects

13,387.56 US M.

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)

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

1,399.59 US M.

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)

28.05 US M.

871.43 US M.

230.45 US M.

269.66 US M.



Cabinet acknowledged
December 13, 2016

Construction Stage: 5 projects

1,565.67 US M.

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)

67.59 US M.

219.59 US M.

892.69 US M.

292.56 US M.

93.25 US M.

Cabinet/PPP Committee Approval: 8 projects

8,514.42 US M.

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 N₂ 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)

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

687.11 US M.

1. Truck Rest Area
2. Mass Transit in Phuket (MRT)

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 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

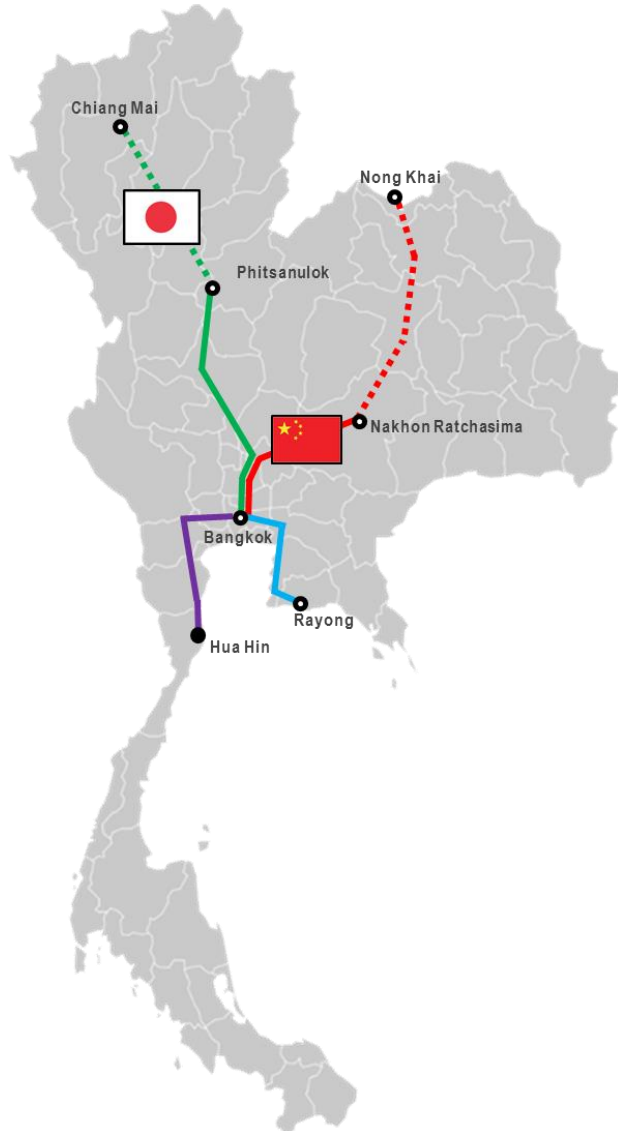
รวม 26,114.64 US M.

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. 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) New (DOA)	34.73
22. Dev. Khon Kean (Passenger terminal) New (DOA)	64.28
23. Common Ticket (SRT/OTP)	21.07

รวม 31,636.32 US M.

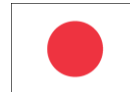
High Speed Rail



Bangkok - Nakhon Ratchasima – Nong Khai 608 km.

Bangkok – Ra Yong 194 km.

Bangkok – Hua Hin 211 km.



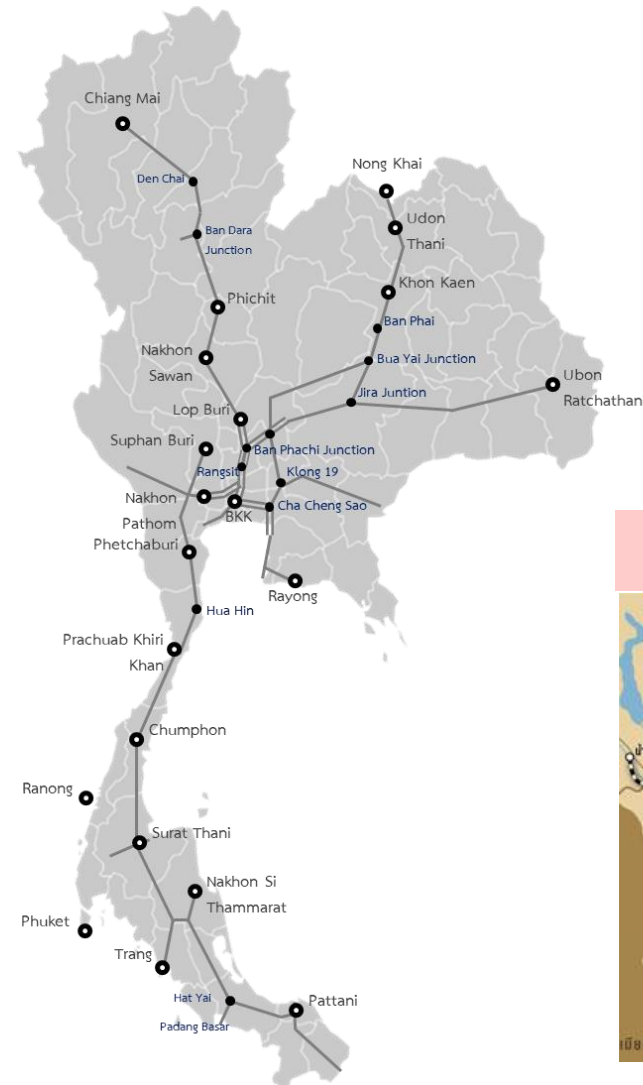
Bangkok – Phisanulok - Chiang Mai 673 km.



Existing Railway Network



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



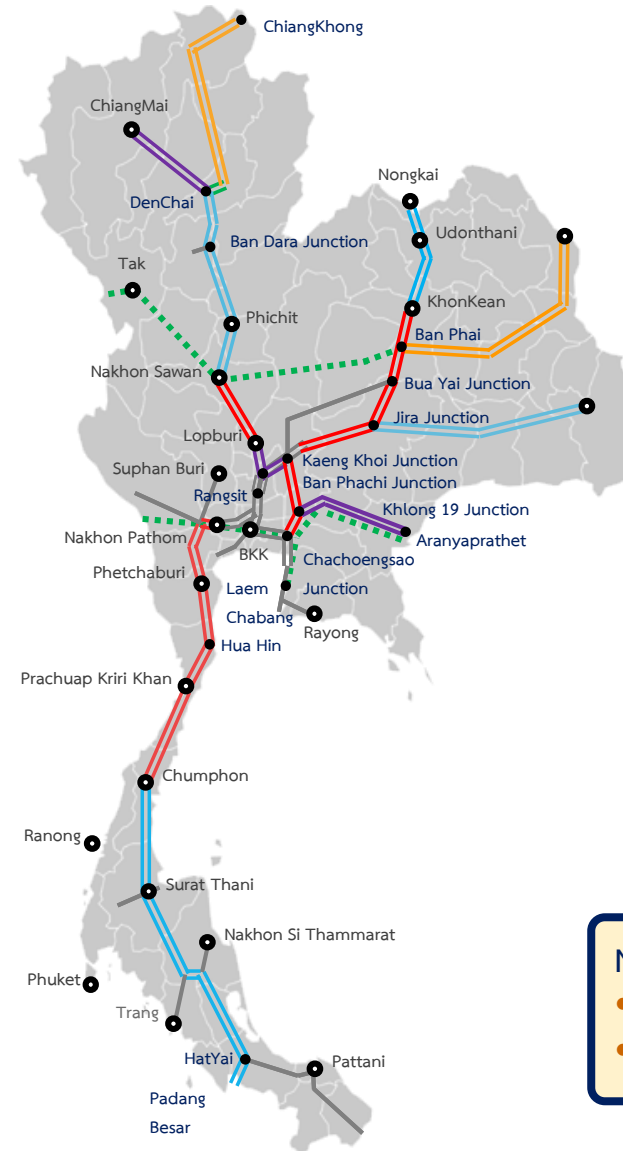
Existing Railway Network





Future Railways 3,455 Km

		Completion	km
Immediate Phase 7 sections 993 km	Chachoengsao-Khlong 19-Kaeng Khoi	2019	106
	Jira Junction-Khon Kean	2019	185
	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
Medium Phase 7 sections 1,392 km	Khon Kean-Nong Khai	2024	174
	Chumphon-Surat Thani	2024	167
	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
Long term Plan 2 sections 392 km	Den Chai-Chiang Mai	2029	217
	Khlong 19-Aranyaprathet	2030	175

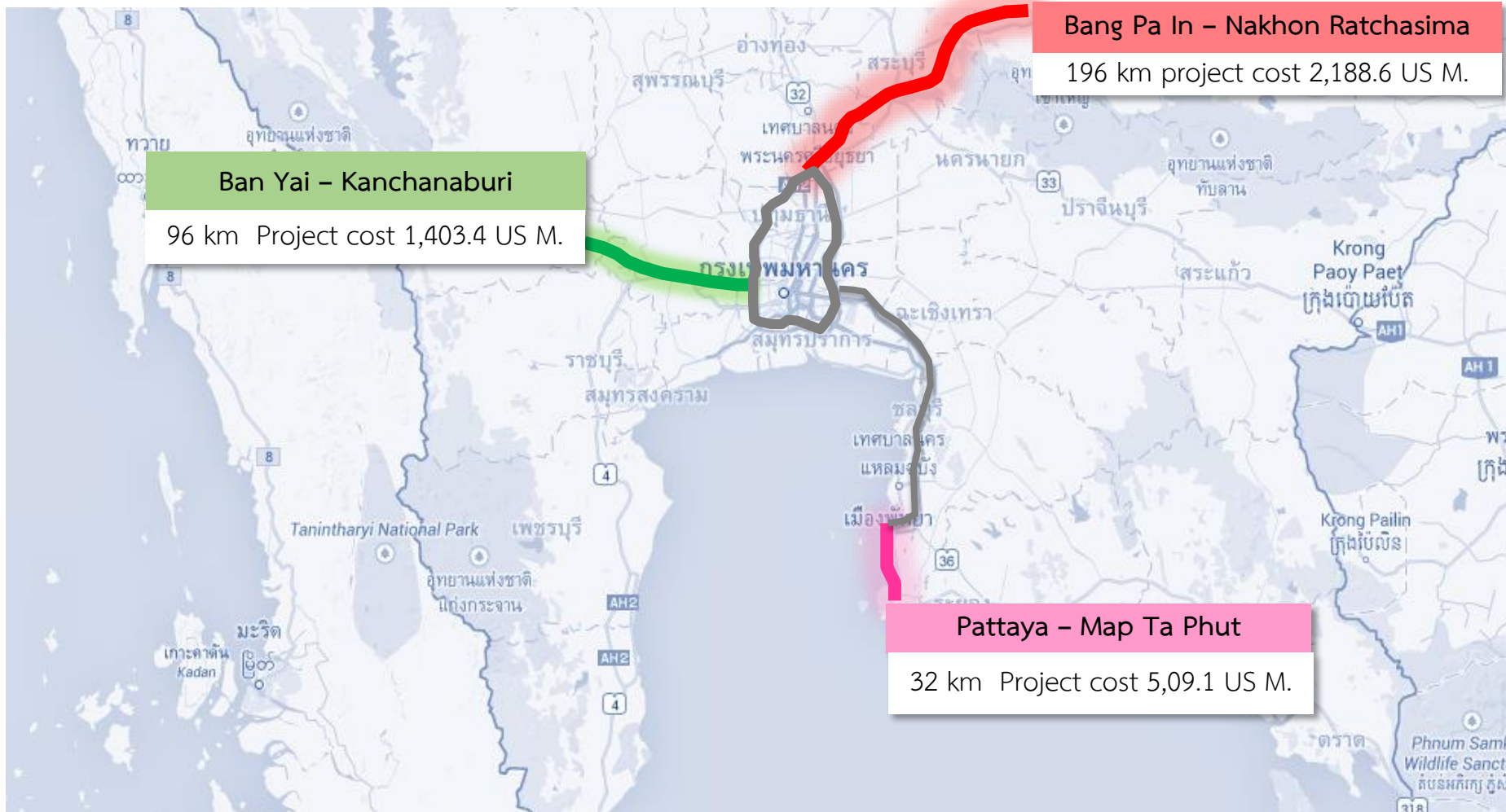


New Double Track Lines

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



Intercity Motorway



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



Single Rail Transfer Operator
(SRTO), Laem Chabang

Completion

2018



Coastal Port Dev. (Terminal A)

2018



Laem Chabang Phase III

2020



Future : Maritime Transport



Single Rail Transfer Operator
(SRTTO), Laem Chabang

Completion

2018



Coastal Port Dev. (Terminal A)

2018



Laem Chabang Phase III

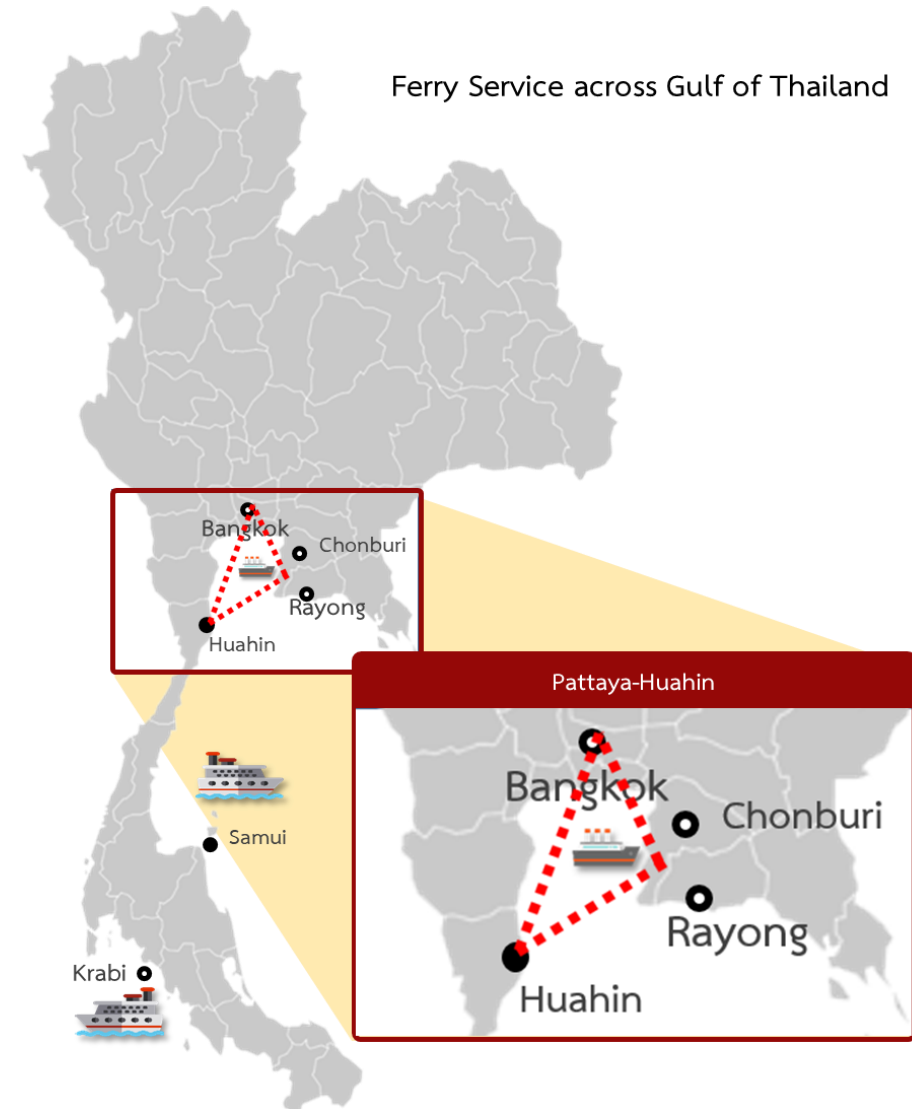
2020



Ferry Service across Gulf of
Thailand

2023

Ferry Service across Gulf of Thailand



Future : Maritime Transport



Completion



Single Rail Transfer Operator
(SRTTO), 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



Ferry Terminal

Krabi Province



Samui, Suratthani Province



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 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 2016 : 56 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



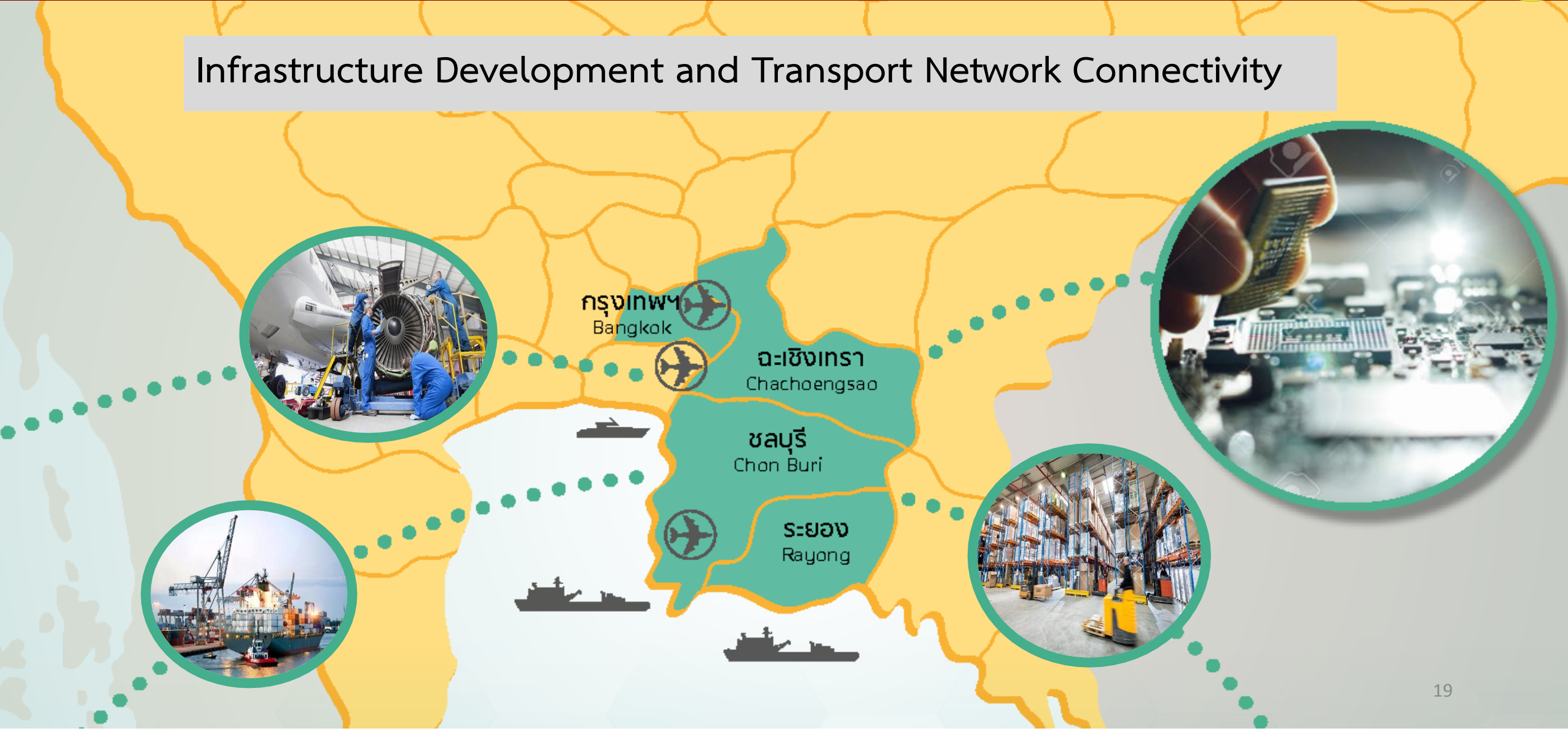
561,332 Flights/years



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

99 projects

8,368 US M.

- 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

62 projects

11,839 US M.

- 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

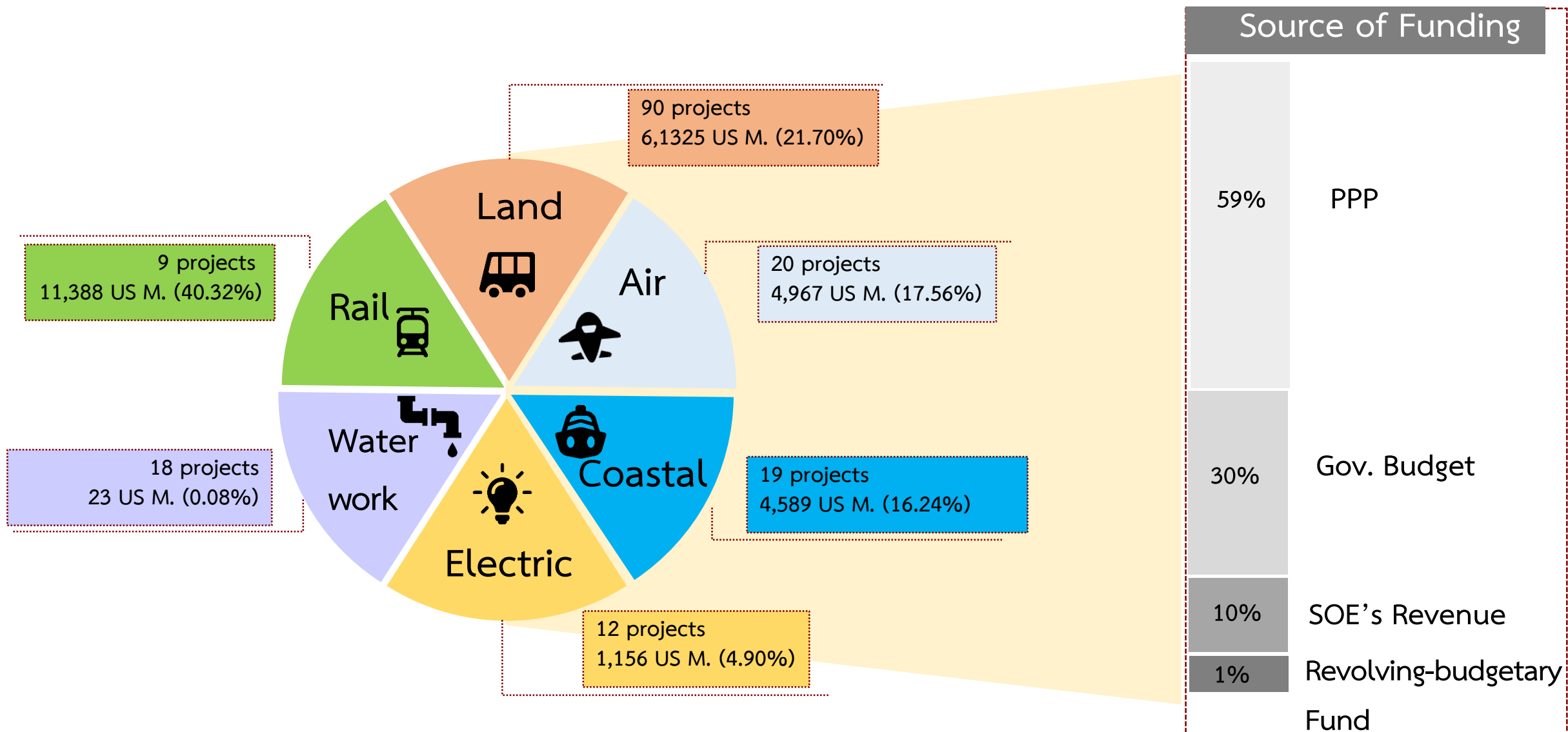
7 projects

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



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)



การบูรณาการเชื่อมโยงด้านโครงสร้างพื้นฐานและการดึงดูดนักลงทุน

ฉะเชิงเทรา ศูนย์ขนถ่ายมาตรฐานโลกรองรับกรุงเทพฯ

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 ท่าเรือจุลเสม็ด

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

เขตเศรษฐกิจพิเศษเกาะกง

เขตเศรษฐกิจพิเศษสระแก้ว

เขตเศรษฐกิจพิเศษตราด

เสียมราฐ

กัมพูชา

พนมเปญ

สีหนุวิลล์

โฮจิมินห์

วังเตา

นามกาน

เวียดนาม

เก๋นออน

ไทย

สปป.ลาว

กรุงเทพฯ

ชลบุรี

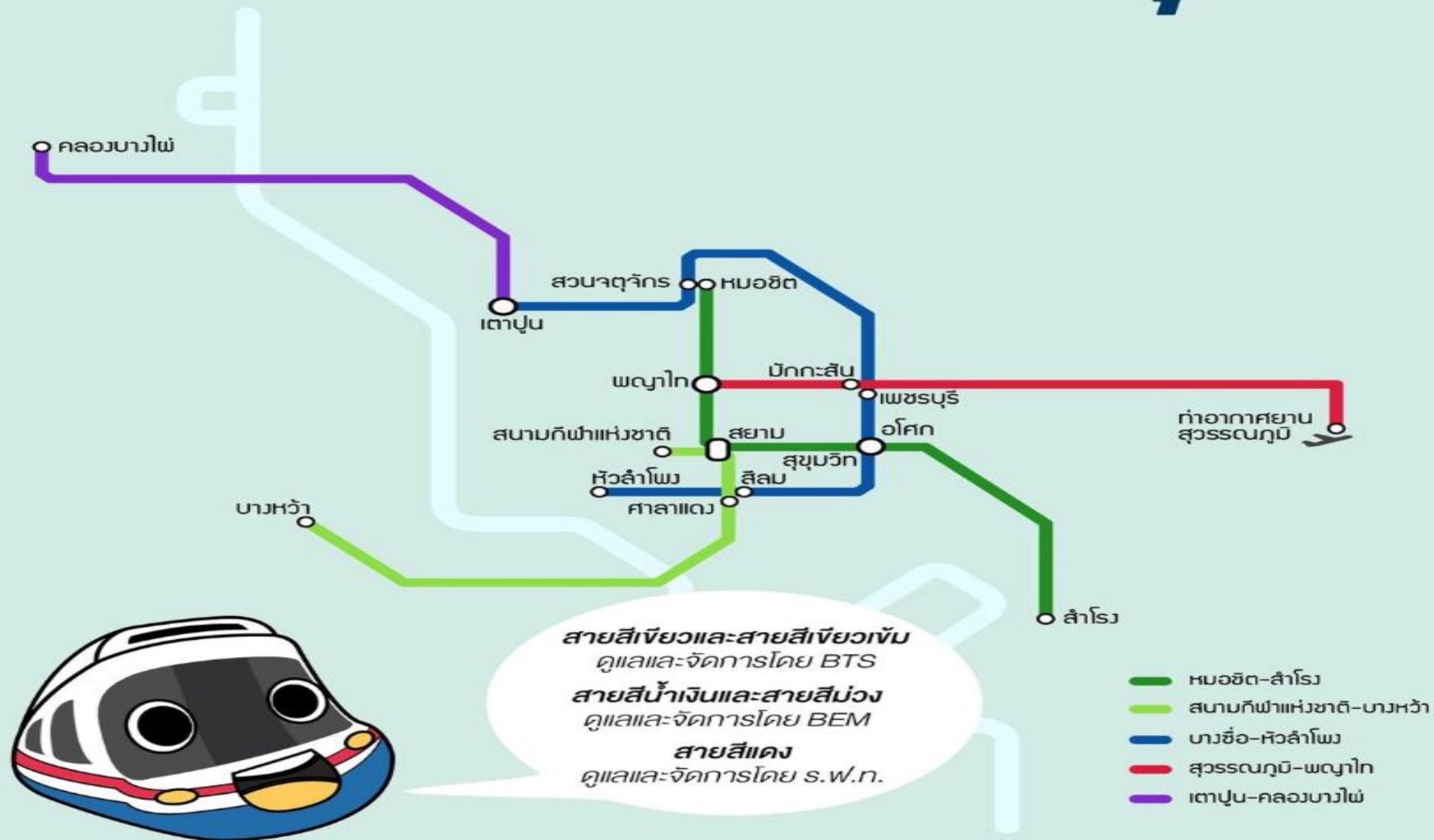
จันทบุรี

ระยอง

อ่าวไทย

ที่มา : กระทรวงอุตสาหกรรม

รถไฟฟ้าที่เปิดให้บริการอยู่ใน **ปัจจุบัน**



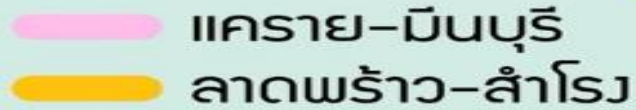
รถไฟฟ้าเปิดให้บริการในปี **2561**



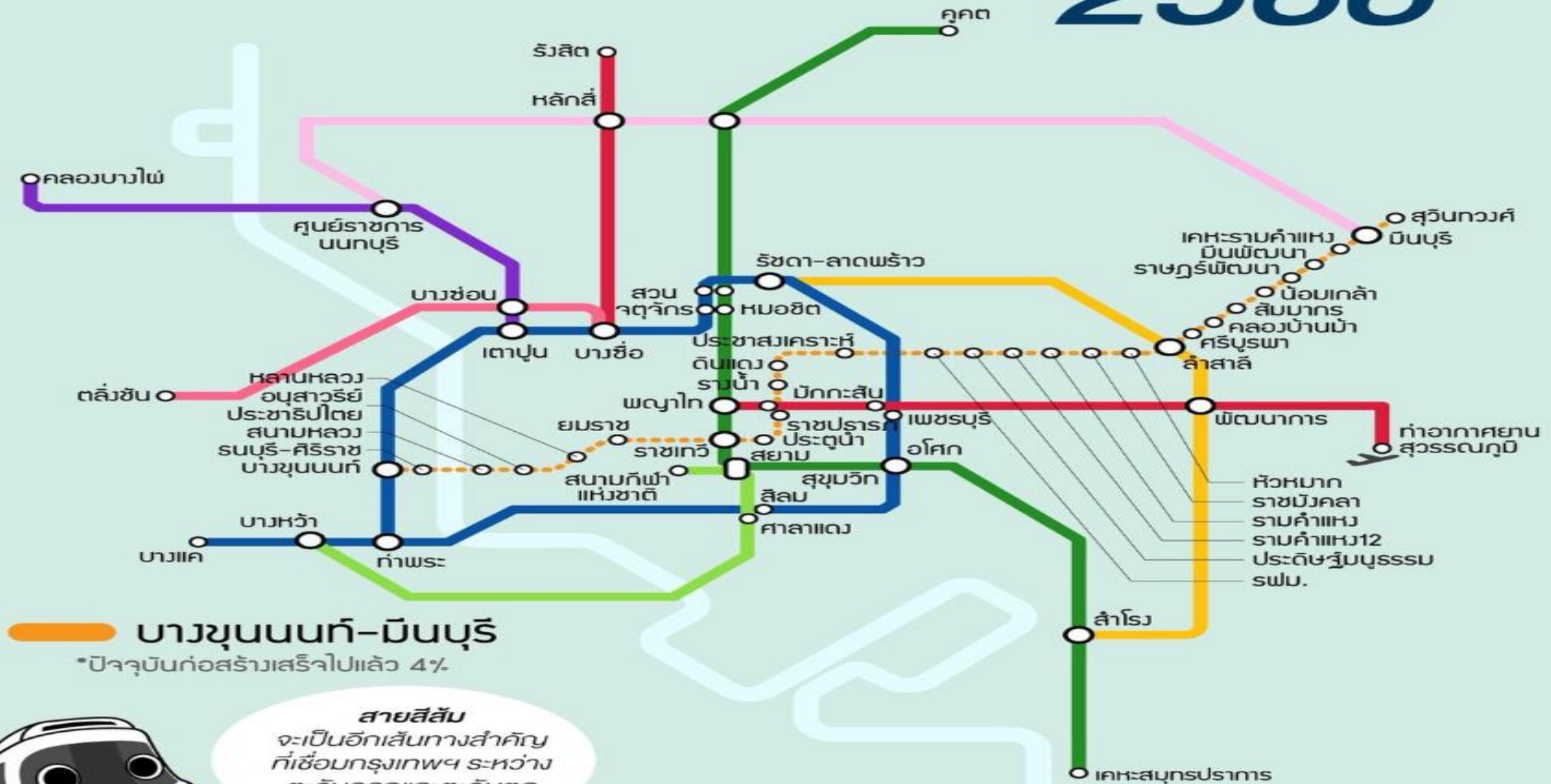
รถไฟฟ้าเปิดให้บริการในปี **2562**



2564



รถไฟฟ้าเปิดให้บริการในปี



สายสีส้ม
จะเป็นอีกเส้นทางสำคัญ
ที่เชื่อมกรุงเทพฯ ระหว่าง
ตะวันออกและตะวันตก

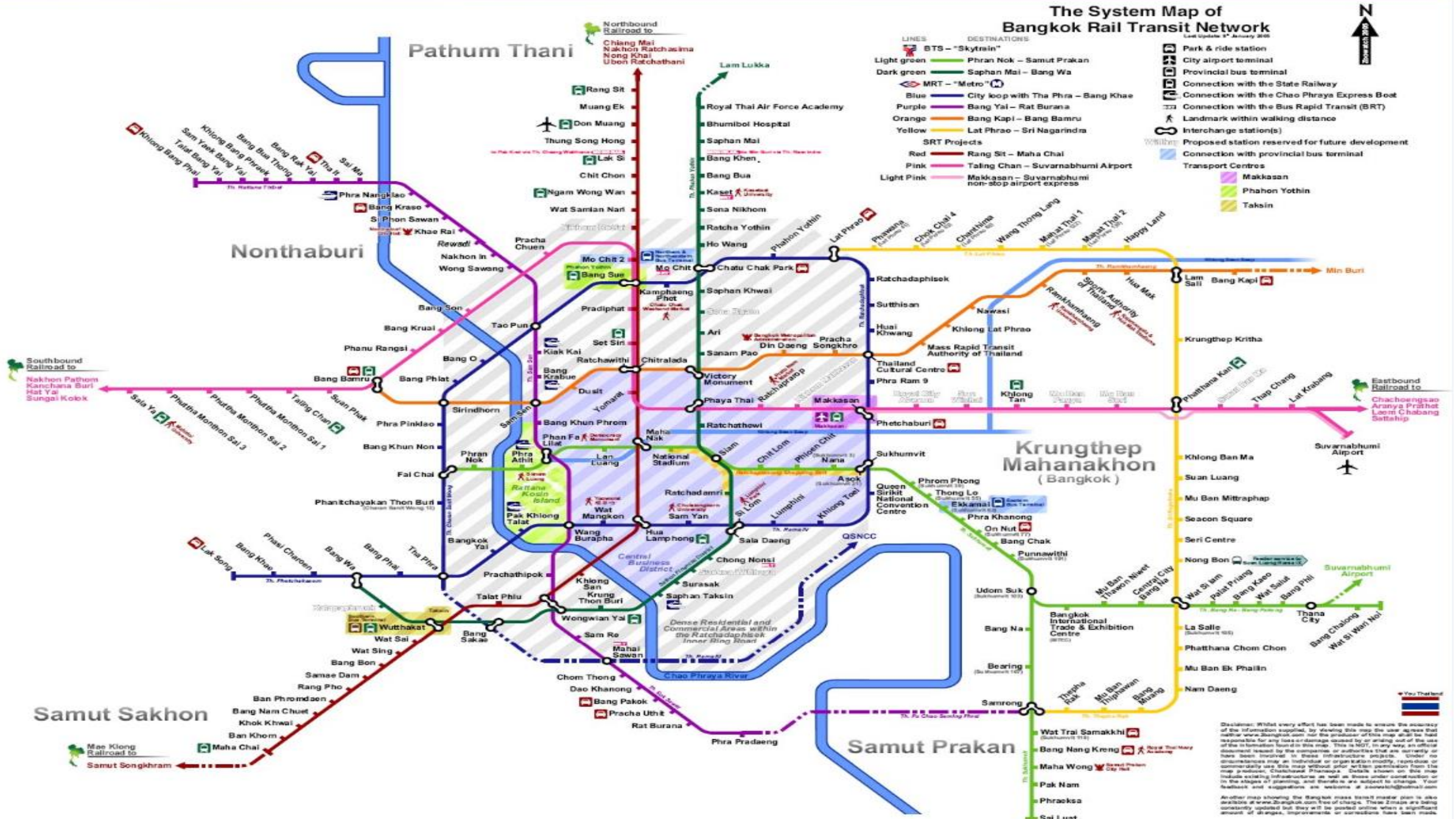
The System Map of Bangkok Rail Transit Network

Last Update: 1st January 2008



- LINE**
- Light green: BTS - "Skytrain"
 - Dark green: Phran Nok - Samut Prakan
 - Blue: MRT - "Metro"
 - Blue: City loop with Tha Phra - Bang Khae
 - Purple: Bang Yai - Rat Burana
 - Orange: Bang Kapi - Bang Bamru
 - Yellow: Lat Phrao - Sri Nagarindra
- DESTINATIONS**
- Red: Rang Sit - Maha Chai
 - Pink: Taling Chan - Suvarnabhumi Airport
 - Light Pink: Makkasan - Suvarnabhumi non-stop airport express
- SRT Projects**
- Red: Rang Sit - Maha Chai
 - Pink: Taling Chan - Suvarnabhumi Airport
 - Light Pink: Makkasan - Suvarnabhumi non-stop airport express

- Park & ride station
- City airport terminal
- Provincial bus terminal
- Connection with the State Railway
- Connection with the Chao Phraya Express Boat
- Connection with the Bus Rapid Transit (BRT)
- Landmark within walking distance
- Interchange station(s)
- Proposed station reserved for future development
- Connection with provincial bus terminal
- Transport Centres
- Makkasan
- Phahon Yothin
- Taksin



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Another map showing the Bangkok mass transit master plan is also available at www.bangkok.com free of charge. These zones are being constantly updated but they will be posted online when a significant amount of changes, improvements or corrections have been made.

Thank you 

