

ASEAN Connectivity & Thailand 4.0



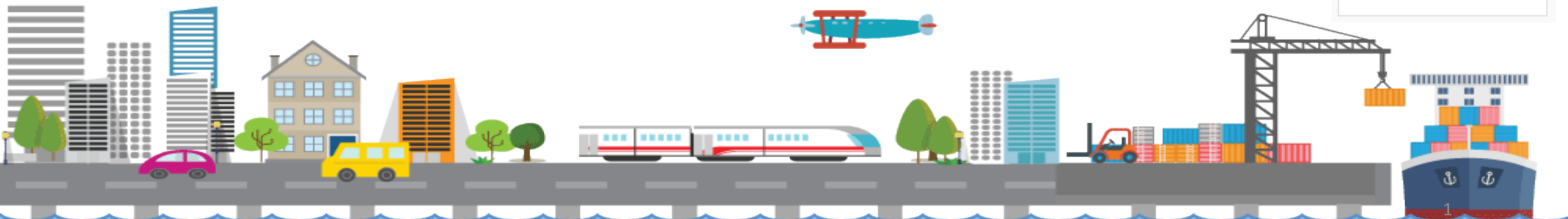
ขับเคลื่อนแผนงานคมนาคม เพื่อความสุขของประชาชน



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Director General,

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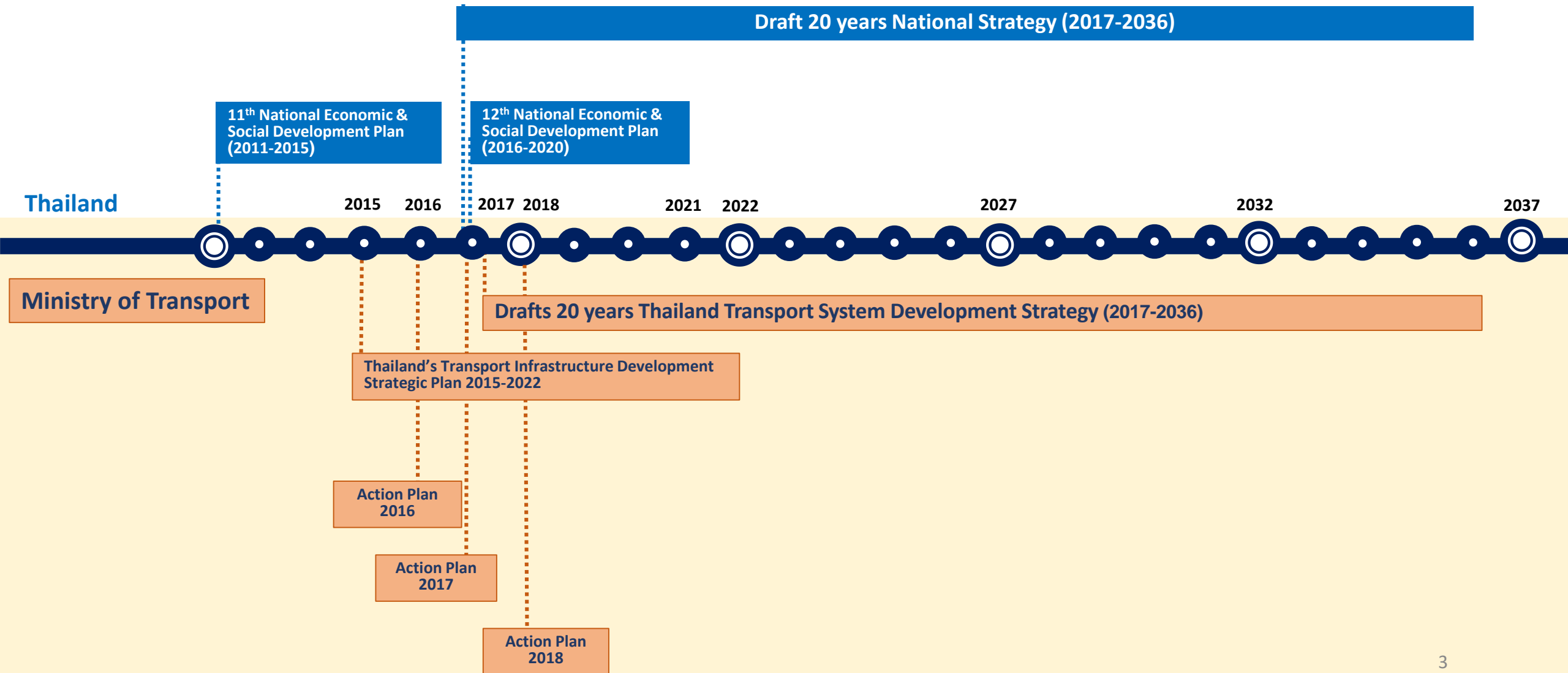
Thailand's Transport Infrastructure Development Strategy

Priority Projects and Plans

ASEAN Connectivity

Eastern Economic Corridor (EEC)

1 Thailand Transport Systems Development 2017-2036



1

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

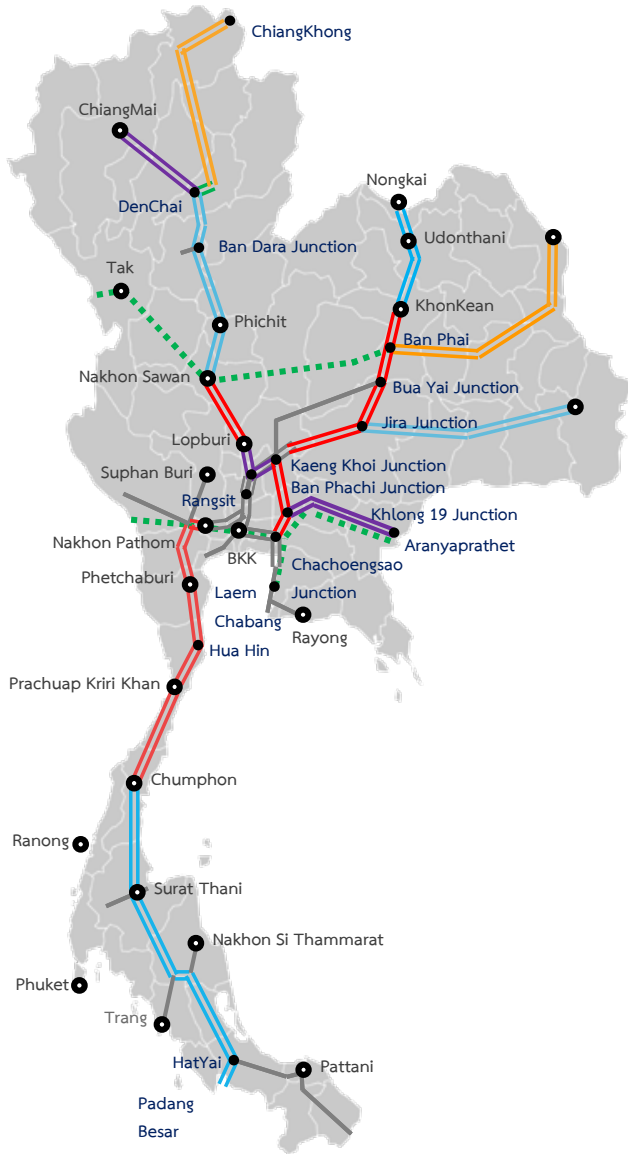
110 Projects : Investment Cost 63,756.06 US M.

2 Existing : Railway Network

	Single	3,675 km
	Double (Lop Buri-Ban Pachi / Kaeng Khoi-Ban Phachi/Nakhon Pathom-BKK/BKK-Rangsit)	252 km
	Triple (Rangsit-Ban Phachi Junction/Hua Mak- Chachoengsao)	107 km
	Total	4,034 km



2 Future : Railways 3,455 Km (Double Track Projects)



Phase	Sections	Distance (km)	Completion Year	Distance (km)
Immediate Phase	7 sections	993 km	2019	106
			2019	185
			2020	167
			2020	148
			2020	132
			2020	165
Medium Phase	7 sections	1,392 km	2020	90
			2024	174
			2024	167
			2025	285
			2025	309
			2025	48
			2025	70
Long term Plan	2 sections	392 km	2026	339
			2029	217
			2030	175

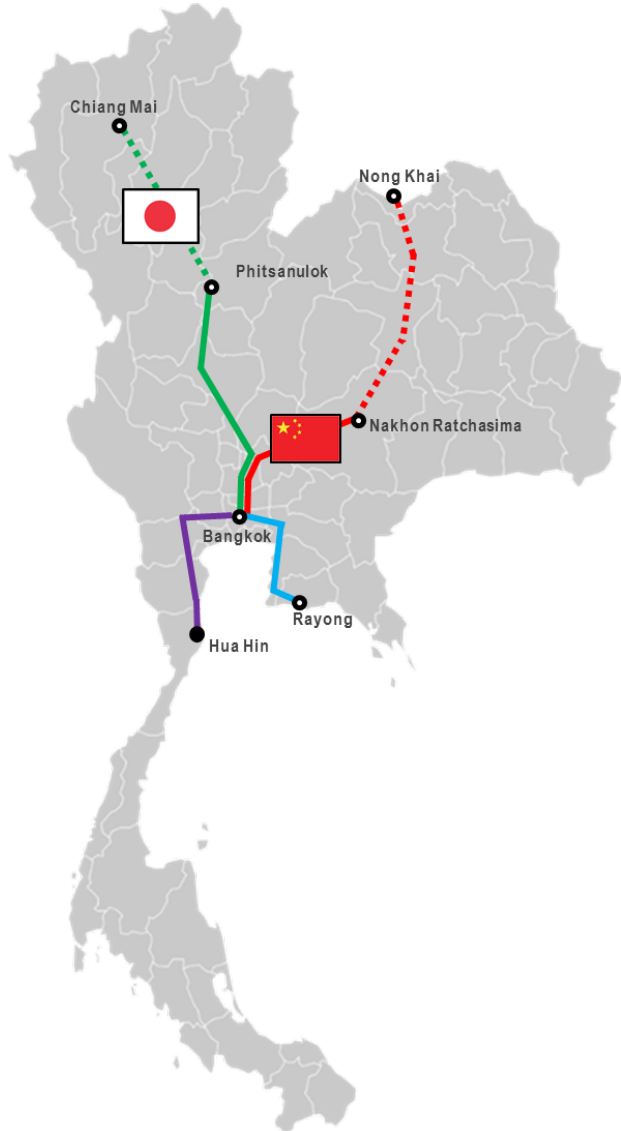
Double Track = 80.9% of the Total



New Double Track Lines

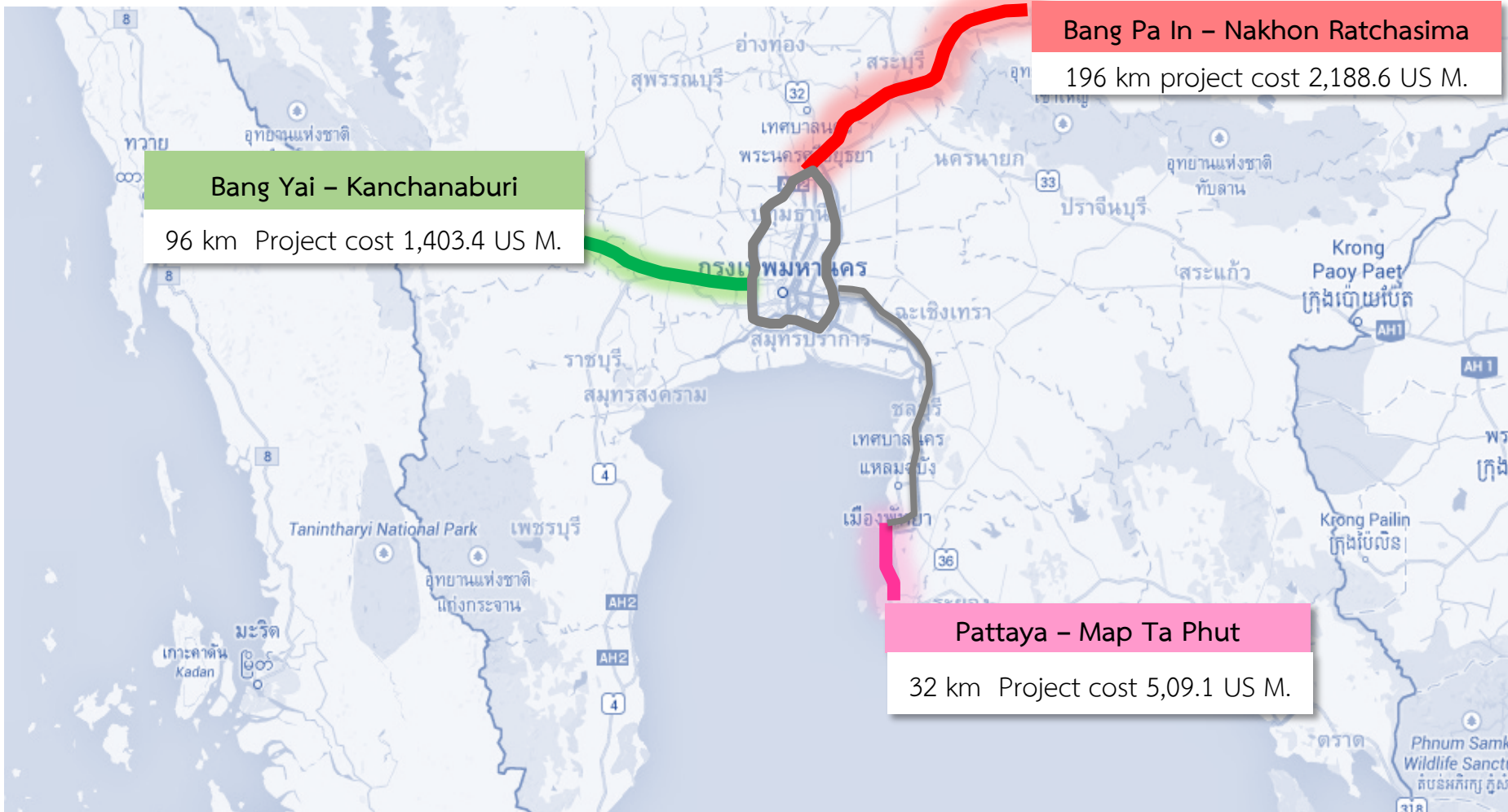
- Den Chai-Chiang Khong 323 km
- Ban Pai-Nakhon Phanom 355 km

2 High Speed Rail Master Plan



	Bangkok - Nakhon Ratchasima – Nong Khai	608 km.
	Bangkok – Ra Yong	194 km.
	Bangkok – Hua Hin	211 km.
	Bangkok – Phisanulok - Chiang Mai	673 km.

2 Intercity Motorway



Cabinet approved for construction
July 14, 2015

Pattaya – Map Ta Phut

- Progress : 74 percent
- Expected Completion: November 2018

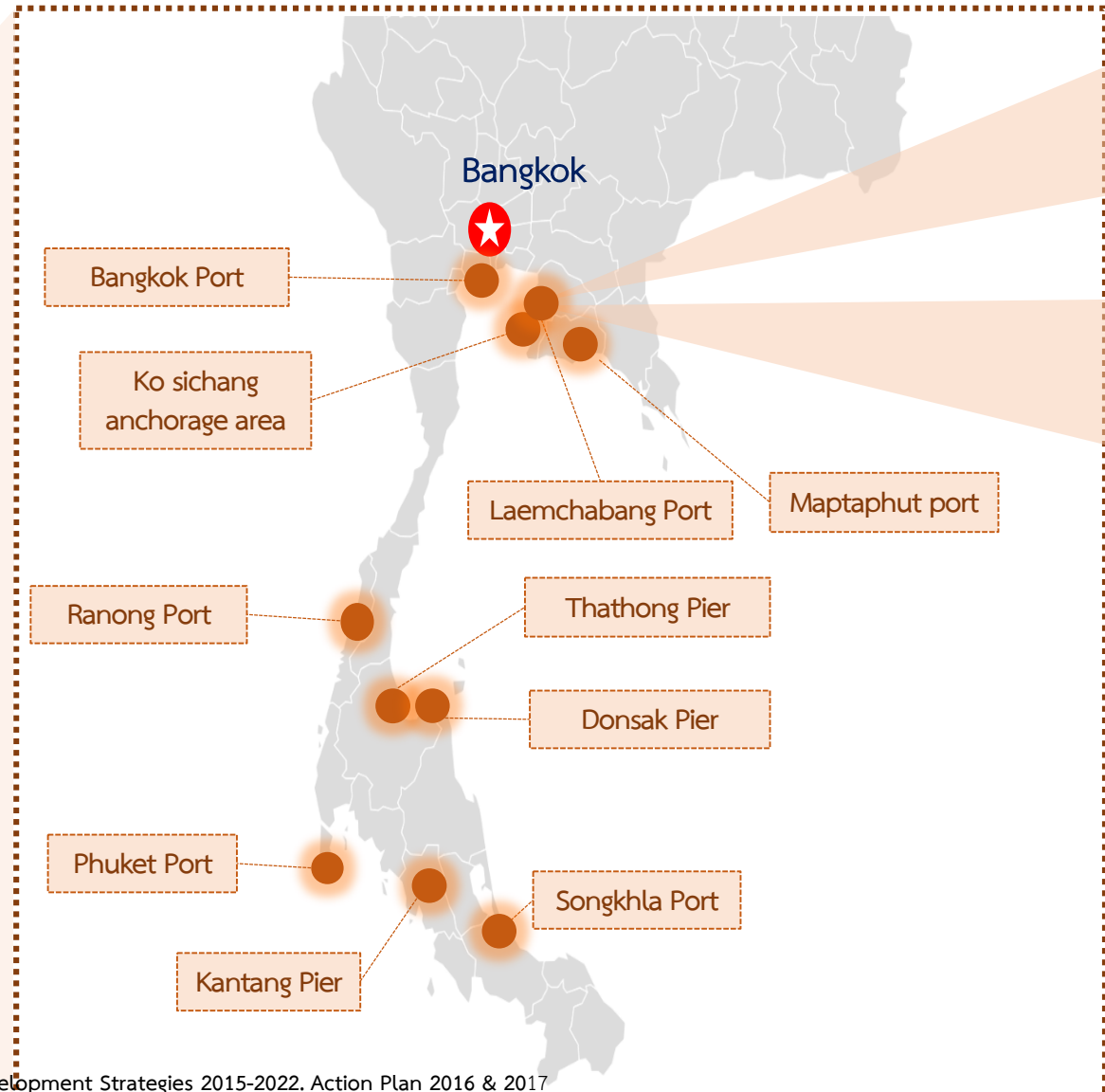
Bang Pa In – Nakhon Ratchasima

- Progress : 35 percent
- Expected Completion: July 2020

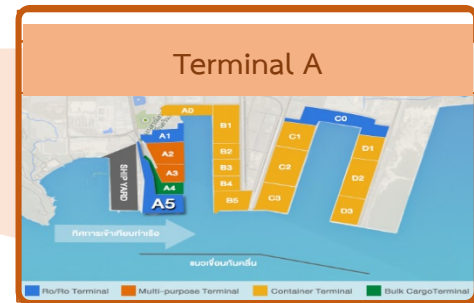
Bang Yai - Kanchanaburi

- Progress : 8 percent
- Expected Completion: October 2020

2 Existing : Maritime Transport



- 1 Chiang Saen Port
- 2 Chiang Khong Port



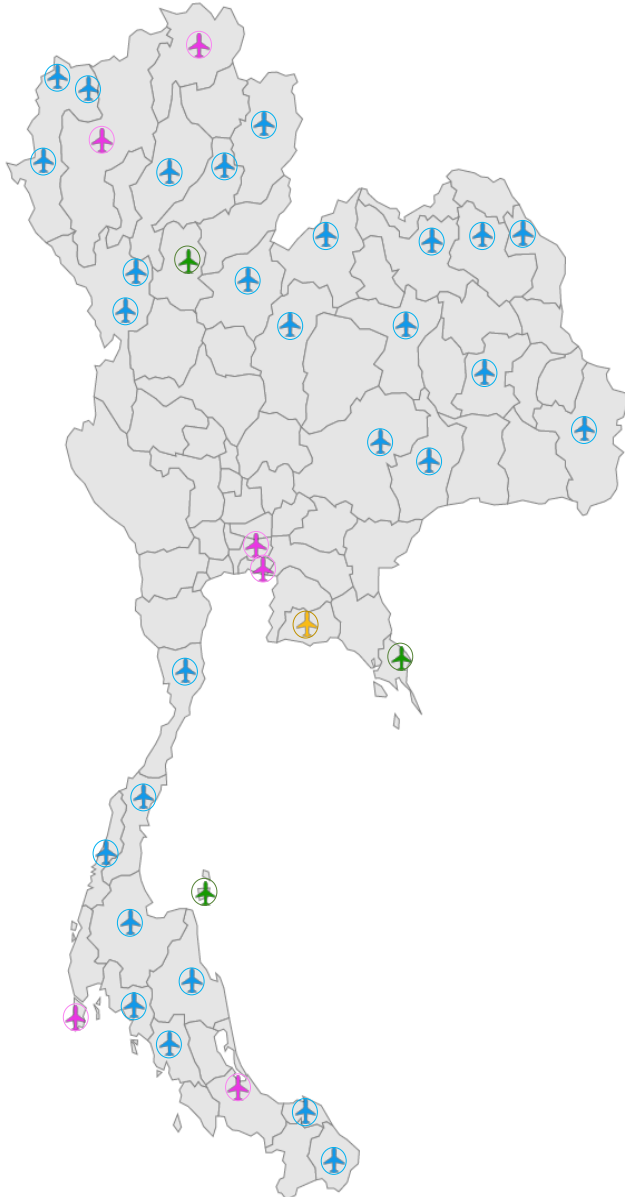
2 Future : Maritime Transport



- 1 Chiang Saen Port
- 2 Chiang Khong Port



2 Domestic Airports



38 Commercial Airports in Thailand✈

-  28 airports operated by Department of Airports
(Excluding Bae Tong Airport)
-  6 airports operated by Airports of Thailand
-  3 airports operated by Bangkok Airways 3
(Samui, Trat and Sukhothai)
-  1 airport operated by Navy (U-Tapao)



2

Future : Air Transport

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



2

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 (Completion : 2020)
- 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



3 ASEAN Economic Community (AEC)

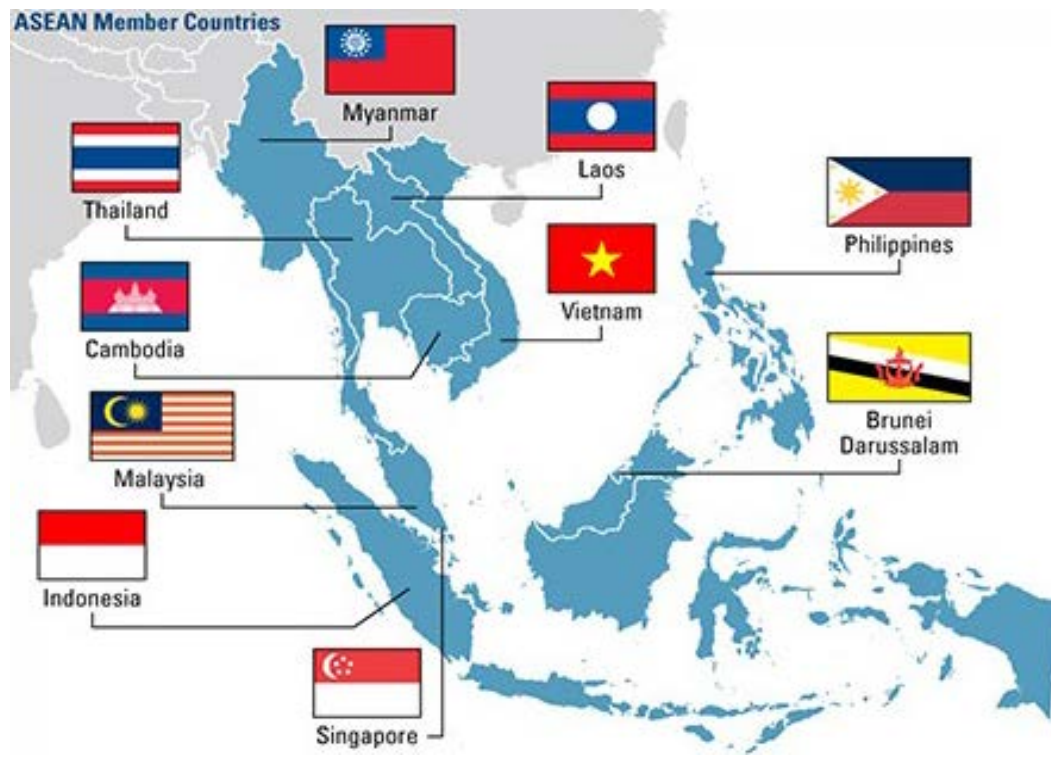
10 countries : Brunei Darussalam, Cambodia, Indonesia, Lao PDR, Malaysia, Myanmar, Philippines, Singapore, Thailand, Vietnam
Population : 639 million (9% of the world total population) GDP : US\$ 2,432 billion

Myanmar
 GDP US\$ 74,775 million
 Population 54.37 million

Thailand
 GDP US\$ 409,536 million
 Population 68.15 million

Cambodia
 GDP US\$ 19,714 million
 Population 15.92 million

Malaysia
 GDP US\$ 309,479 million
 Population 30.75 million



Lao PDR
 GDP US\$ 13,548 million
 Population 6.92 million

Vietnam
 GDP US\$ 201,805 million
 Population 94.45 million

Philippines
 GDP US\$ 297,314 million
 Population 102.31 million

Indonesia
 GDP US\$ 936,243 million
 Population 260.91 million

Singapore
 GDP US\$ 294,959 million
 Population 5.9 million

Brunei Darussalam
 GDP US\$ 9,636 million
 Population 420,000

3 Master Plan on ASEAN Connectivity 2025



Vision: “To achieve a seamlessly and comprehensively connected and integrated ASEAN that will promote competitiveness, inclusiveness, and a greater sense of Community.”



STRATEGIC OBJECTIVES



Sustainable infrastructure

- Increase public and private infrastructure investment in each ASEAN Member State, as needed
- Significantly enhance the evaluation and sharing of best practices on infrastructure productivity in ASEAN
- Increase the deployment of smart urbanisation models across ASEAN



Digital innovation

- Support the adoption of technology by micro, small and medium enterprises (MSMEs)
- Support financial access through digital technologies
- Improve open data use in ASEAN Member States
- Support enhanced data management in ASEAN Member States



Seamless logistics

- Lower supply chain costs in each ASEAN Member State
- Improve speed and reliability of supply chains in each ASEAN Member State



Regulatory excellence

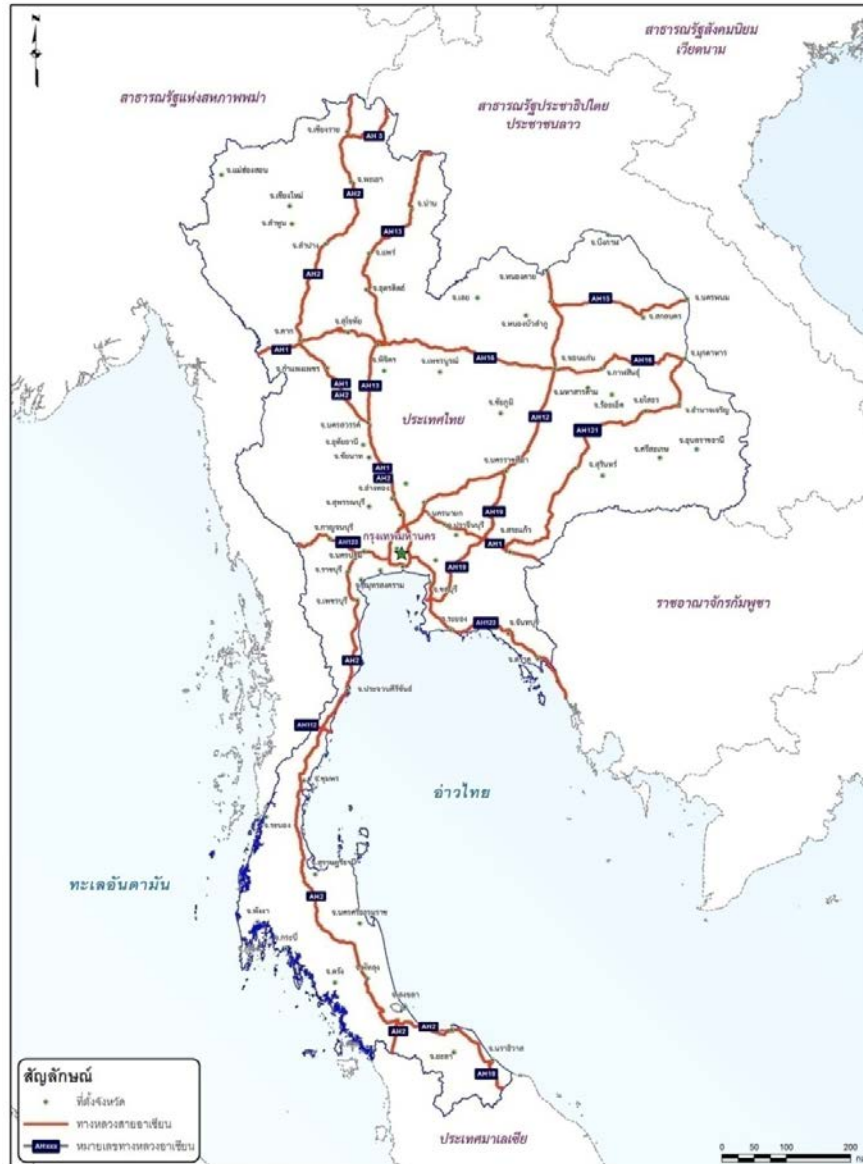
- Harmonise or mutually recognise standards, conformance, and technical regulations for products in key sectors
- Reduce number of trade-distorting non-tariff measures across ASEAN Member States



People mobility

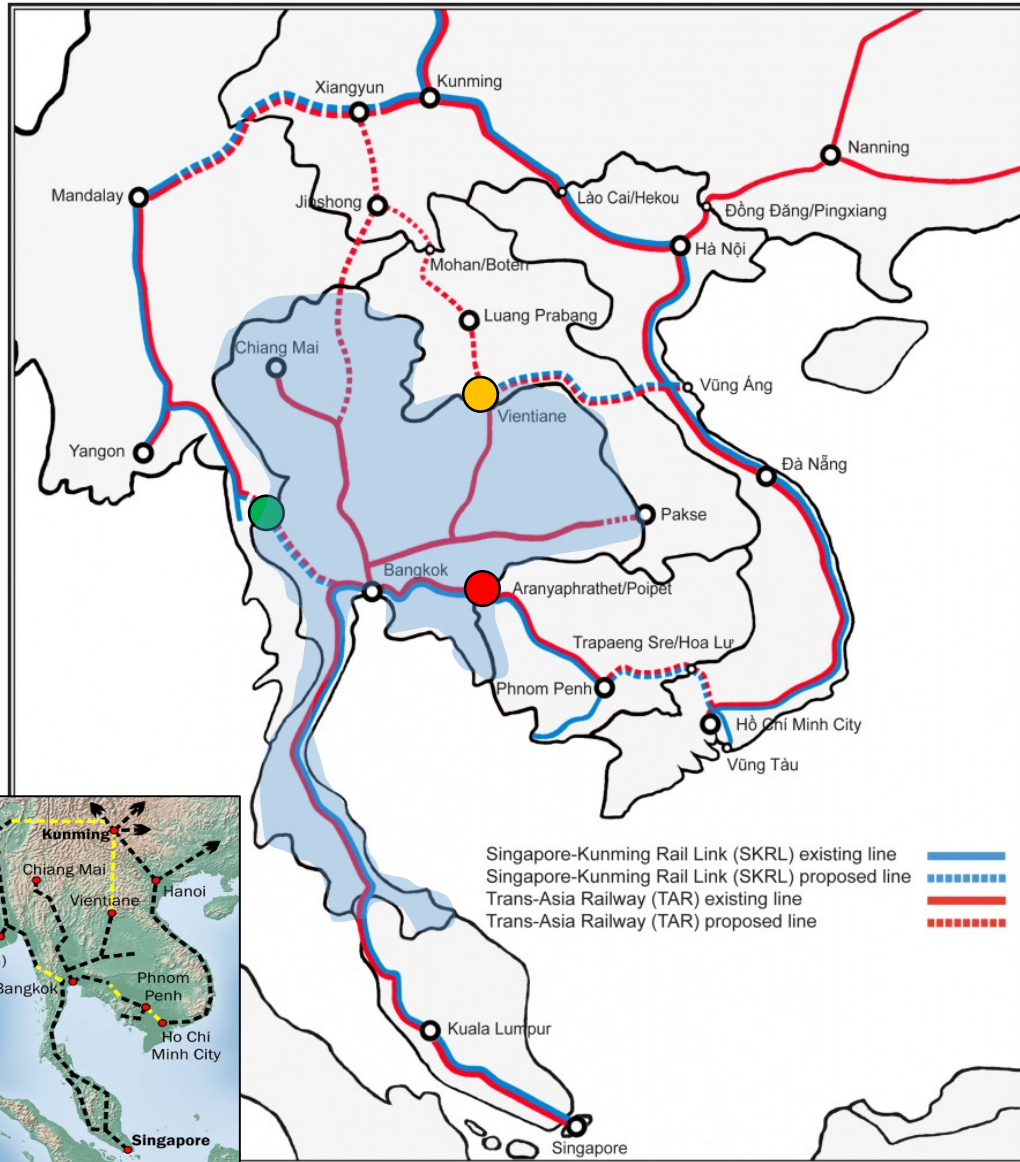
- Support ease of travel throughout ASEAN
- Reduce the gaps between vocational skills demand and supply across ASEAN
- Increase the number of intra-ASEAN international students

3 ASEAN Highway Network (AHN)



Asian Highway	Distance (km.)	Highway Road
AH 1	701.00	33, 32, 1, 12
AH 2	1,913.00	4, 41, 338, 9, 34, 32, 1
AH 3	116.50	1020
AH 12	511.50	2, 204, 1
AH 13	557.00	1080, 101, 11, 12, 117, 304, 202,
AH 15	242.50	22
AH 16	688.50	12, 230
AH 18	268.00	42, 43, 4057, 4084
AH 19	459.50	331, 304, 344, 7
AH 112	29.00	-
AH 121	458.50	212, 202, 214, 219, 218, 348, 3486, 3393, 3485, 3462
AH 123	747.50	3, 36, 7, 4, 338, 323, 3512, 3229
Total (km.)	6,669	

3 Singapore-Kunming Rail Link Project (SKRL)

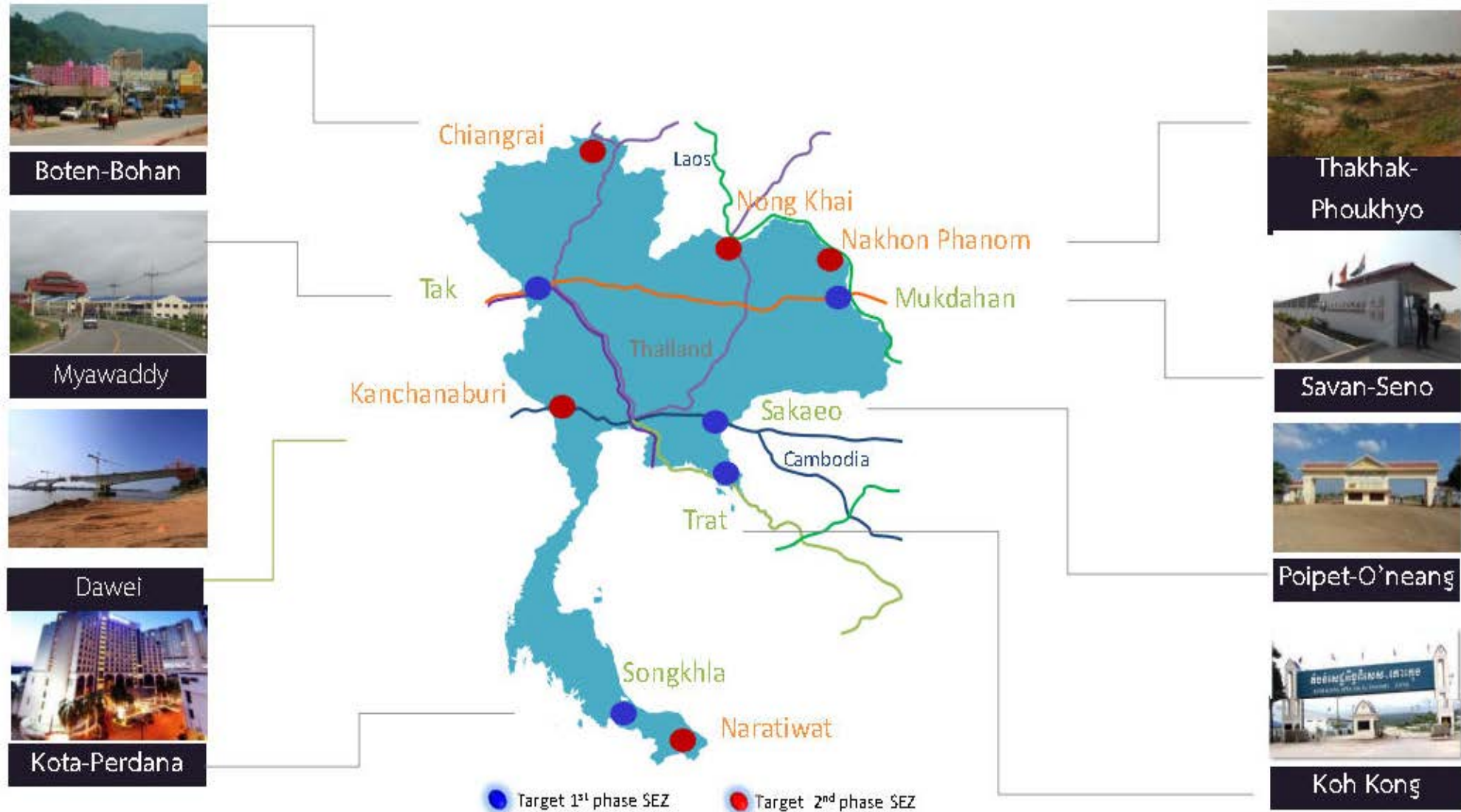


- SKRL is part of Trans-Asia Railway (TAR) network initiated by ESCAP
- Connecting Asia to Europe
- Connecting to main railway lines of 8 countries in Asia: Singapore, Malaysia, Thailand, Cambodia, Lao PDR, Vietnam, Myanmar, and China
- Double-Track Railway with standard gauge (1.435 metre)

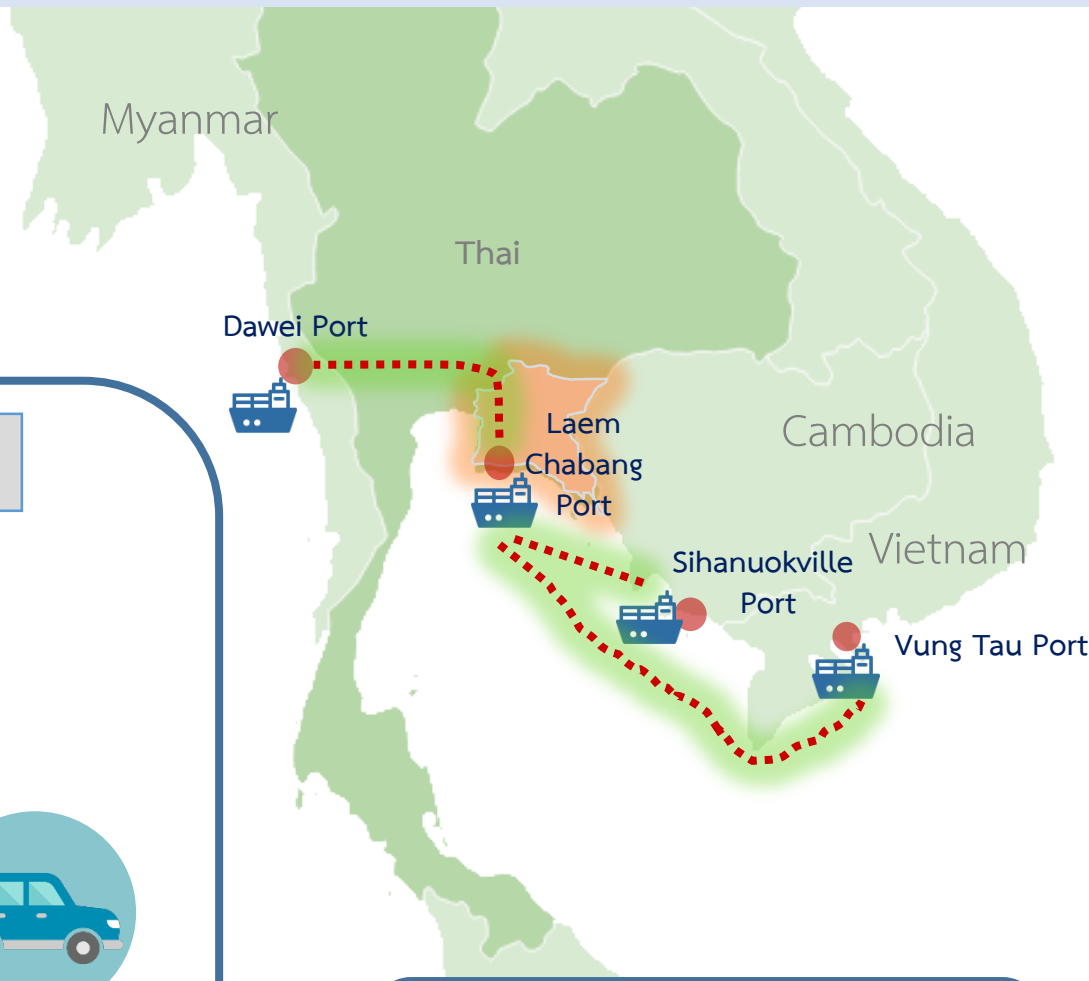
Connecting Point at Border

● Thailand-Cambodia	Aranyaprathet-Poipet
○ Cambodia-Vietnam	Tra peang Sre-Hoa Lu
● Thailand-Lao PDR	Nong Khai-Vientiane
○ Lao PDR-Vietnam	Vientiane-Vung Ang
● Thailand-Myanmar	Phu Nam Ron-Kanchanaburi-Dawei
○ China-Myanmar	Ruili/Muse
○ China-Lao PDR	Mohan-Boten

3 10 Targets areas for SEZs along the Economic Corridors and will be complementary with SEZs in neighboring countries



4 Eastern Economic Corridor Development



Industrial Base

Petrochemical Energy Automotive

Infrastructure

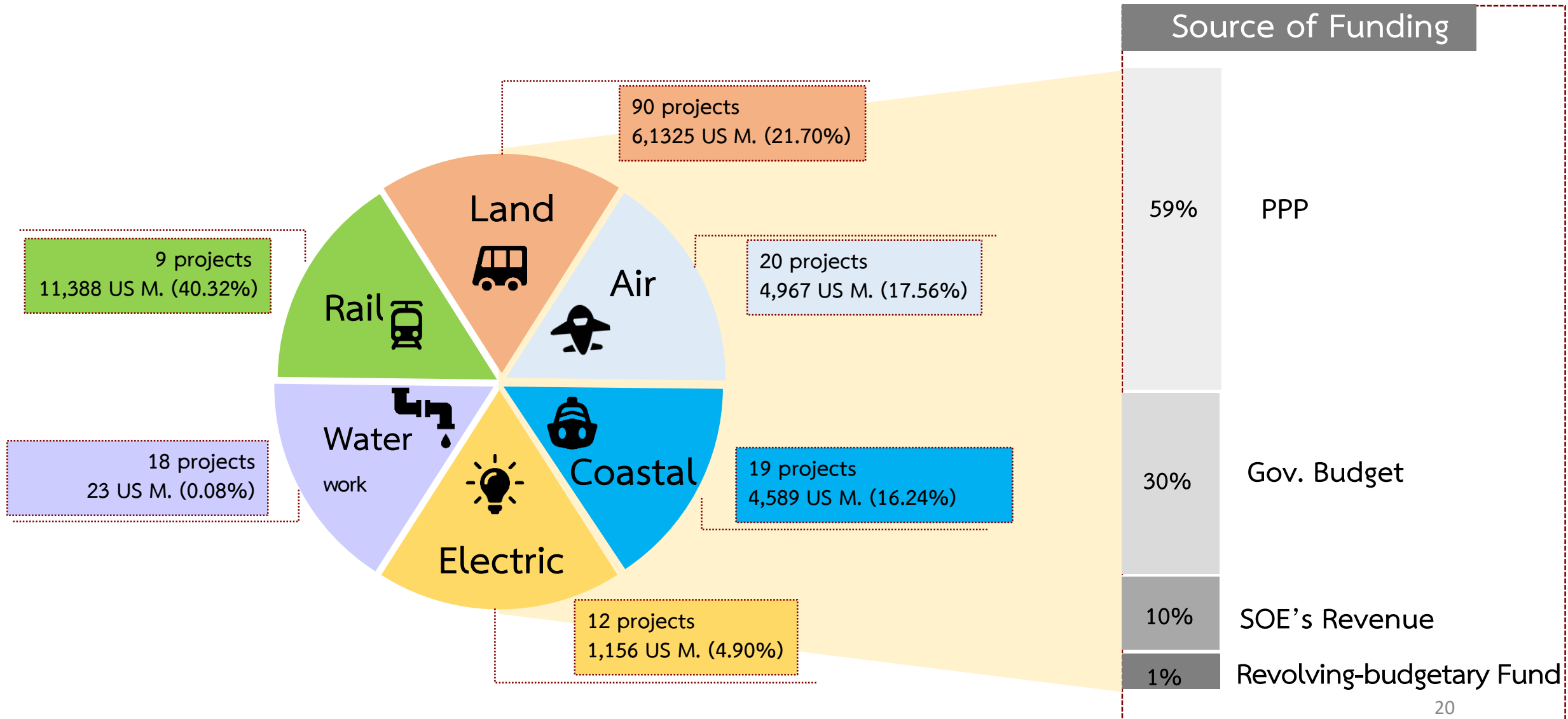
Road Rail Port

Industrial Estate

ASEAN Maritime Transport Hub

4

6 Plans 168 Projects



4 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

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)



Transport 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)





THANK YOU

