Mega Projects to Drive Thailand's Economic Growth
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Thailand’s Transport Infrastructure Development Strategy
2015-2022

Priority Projects and Plans

Eastern Economic Corridor (EEC)
Thailand’s Transport Infrastructure Development

Priority Projects and Plans

Eastern Economic Corridor (EEC)

Transportation Development Framework

**Green & Safe Transport**
- - Green & Safe transport
- - Use of clean/alternative fuels

**Innovation & Management**
- - Improved transport & logistics efficiency
- - Reduced transport & logistics costs
- - Development of domestic & international transport connectivity

**Inclusivity**
- - Access to transport services with affordability & equity
- - Universal design & service design

**Transport Efficiency**
- - Development of domestic & international transport connectivity
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 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

Enhancing operation and service transportation management
**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.)

**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.)

**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 Prao - 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.)

**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.)

**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.)
In Service: 2 projects
1. Ferry Service across Gulf of Thailand (MD) - US M.
2. Common ticket system (OTP) - US M.

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

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

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

Cabinet/PPP Committee Approval: 8 projects
1. New Line DT Den Chai-Chiang Rai-Chiang Khong (SRT) - US M.
2. New Line DT Ban Pai – Nakhon Phanom (SRT) - US M.
3. Light Red Extension : Taling Chan-Siriraj & Taling Chan-Saraya (SRT) - US M.
4. Lam Cha Bang Phase 3 (PAT) - US M.
5. Exp. Northern Route N2 and E-W Corridor (CAAT) - US M.
6. Exp. Kratu – Patong (EXAT) - US M.
7. Motorway Nakhon Phatom – Cha Am (DOH) - US M.
8. Cross-border Logistics Center Nakorn Phanom (DLT) - US M.

Policy Driven: 2 projects
1. Truck Rest Area (Buriram/Udonthani/Kampaeng Phet (DOH) - US M.
2. Mass Transit in Phuket (MRT) - 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

<table>
<thead>
<tr>
<th>Project</th>
<th>Cost (US M.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Expressway: Kratu-Patong (EXAT)</td>
<td>397.62</td>
</tr>
<tr>
<td>2. Cross-Border Logistics Centre at Nakorn Phanom (DLT)</td>
<td>32.36</td>
</tr>
<tr>
<td>3. Regional Truck Terminal (9 Border provinces) (DLT)</td>
<td>230.00</td>
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<tr>
<td>4. Regional Truck Terminal (9 Regional cities) (DLT)</td>
<td>238.35</td>
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<tr>
<td>5. Bus Procurement (EV) (BMTA)</td>
<td>11.91</td>
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<tr>
<td>6. Bus Procurement (NGV) (BMTA)</td>
<td>49.60</td>
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<tr>
<td>7. Motorway: Nakhon Phathom-Cha Am (DOH)</td>
<td>2,223.80</td>
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<tr>
<td>8. Motorway: Hat Yai-Thailand Malaysia Border (DOH)</td>
<td>973.43</td>
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<tr>
<td>9. Motorway: Rangsit-Bang Pa-In New (DOH)</td>
<td>716.30</td>
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<tr>
<td>10. Motorway: H36 BKK-Maha Chai New (DOH)</td>
<td>1,145.00</td>
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<tr>
<td>11. HSR BKK-Chiang Mai (OTP/SRT)</td>
<td>7,992.17</td>
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<tr>
<td>12. HSR BKK-Hua Hin (OTP/SRT)</td>
<td>2,225.91</td>
</tr>
<tr>
<td>13. Red Line: Bang Sue – Phayathai – Makkasan – Hua Mak &amp; Bang Sue - Hua Lam Phong (OTP/SRT)</td>
<td>3,663.86</td>
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<tr>
<td>14. Purple Line: Tao Poon-Ratburana (SRT)</td>
<td>3,063.8</td>
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<tr>
<td>15. Mass Transit in Phuket (OTP/SRT)</td>
<td>388.37</td>
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<tr>
<td>16. Mass Transit in Chiang Mai New (OTP/SRT)</td>
<td>398.50</td>
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<tr>
<td>17. Mass Transit in Nakhorn Ratchasima New (OTP/SRT)</td>
<td>2.59</td>
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<tr>
<td>18. Mass Transit in Khon Kean New (OTP/SRT)</td>
<td>52.17</td>
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<tr>
<td>19. Laem Chabang Phase 3 (PAT)</td>
<td>114.90</td>
</tr>
</tbody>
</table>

### 23 Projects  Procurement/Construction/In Service

<table>
<thead>
<tr>
<th>Project</th>
<th>Cost (US M.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Truck Rest Area Buriram/Khon Kean (DOH)</td>
<td>13.71</td>
</tr>
<tr>
<td>2. Expressway: Rama 3-Dao Kanong-Outer Ring Road (EXAT)</td>
<td>892.70</td>
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<tr>
<td>3. Northern Route N2 and E-W Corridor (EXAT)</td>
<td>501.46</td>
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<tr>
<td>4. DT Nakhon Pathom-Chumphon (SRT)</td>
<td>1,226.67</td>
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<tr>
<td>5. DT Lop Buri-Pak Nam Pho (SRT)</td>
<td>647.94</td>
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<td>6. DT Mab Kabao-Jira Junction (SRT)</td>
<td>31.92</td>
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<tr>
<td>7. DT Paknampho-Denchai (SRT)</td>
<td>1,789.00</td>
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<td>8. DT Jira-Ubonratchathani (SRT)</td>
<td>1,072.00</td>
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<td>9. DT Khor Kean-Nong Khai (SRT)</td>
<td>761.55</td>
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<tr>
<td>10. DT Chumphorn-Surat Thani (SRT)</td>
<td>694.00</td>
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<tr>
<td>11. DT Surat Thani-Songkhla (SRT)</td>
<td>1,639.12</td>
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<tr>
<td>12. DT Hat Yai-Padang Besar (SRT)</td>
<td>231.90</td>
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<tr>
<td>13. DT Den Chai-Chiang Mai (SRT)</td>
<td>1,711.86</td>
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<tr>
<td>14. New DT Den Chai-Chiang Rai-Chiang Khong (SRT)</td>
<td>2,438.43</td>
</tr>
<tr>
<td>15. New DT Ban Pai-Nakhon Phanom (SRT)</td>
<td>1,941.86</td>
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<tr>
<td>16. HSR BKK-Nakhon Ratchasima (OTP/SRT)</td>
<td>5,126.06</td>
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<tr>
<td>17. ARL Phayathai-Bang Sue-Don Muang (SRT)</td>
<td>5,811.35</td>
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<tr>
<td>18. Dark Red Rangsit-TU Rangsit (SRT)</td>
<td>187.73</td>
</tr>
<tr>
<td>19. Light Red Extension Sirirat-Taling Chan-Salaya (SRT)</td>
<td>504.9</td>
</tr>
<tr>
<td>20. Orange Line : Western Section (SRT.)</td>
<td>3,441.68</td>
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<tr>
<td>21. Dev. Krabi Airport (Apron) New (DOA)</td>
<td>34.73</td>
</tr>
<tr>
<td>22. Dev. Khon Kean (Passenger terminal) New (DOA)</td>
<td>64.28</td>
</tr>
<tr>
<td>23. Common Ticket (SRT/OTP)</td>
<td>21.07</td>
</tr>
</tbody>
</table>

Note: Orange - Action Plan 2016 10 projects  
Black - Action Plan 2017 : 32 projects  
Blue - New 8 projects
Eastern Economic Corridor (EEC)

Thailand’s Transport Infrastructure Development

Priority Projects and Plans

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.
Thailand’s Transport Infrastructure Development

Priority Projects and Plans

Eastern Economic Corridor (EEC)

Existing Railway Network

<table>
<thead>
<tr>
<th>Type</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single</td>
<td>3,764 km</td>
</tr>
<tr>
<td>Double</td>
<td>174 km</td>
</tr>
<tr>
<td>Triple</td>
<td>105 km</td>
</tr>
</tbody>
</table>

Total: 4,043 km
**Future Railways 3,455 Km**

**Immediate Phase**
- Chachoengsao-Khlong 19-Kaeng Khoi Junction: 2019, 106 km
- Jira Junction-Khon Kean: 2019, 185 km
- Prachuap Kiri Khan-Chumphon: 2020, 167 km
- Lopburi-Pak Nam Pho: 2020, 148 km
- Mab Kabao-Jira Junction: 2020, 132 km
- Nakhon Pathom-Hua Hin: 2020, 165 km
- Hua Hin-Prachuap Kiri Khan: 2020, 90 km

**Medium Phase**
- Khon Kean-Nong Kai: 2024, 174 km
- Chumphon-Surat Thani: 2024, 167 km
- Pak Nam Pho-Den Chai: 2025, 285 km
- Jira Junction-Ubonratchathani: 2025, 309 km
- Hat Yai-Padang Besar: 2025, 48 km
- Sriracha-Map Ta Phut: 2025, 70 km
- Surat Thani-Hat Yai-Song Kha: 2026, 339 km

**Long term Plan**
- Den Chai-Chiang Mai: 2029, 217 km
- Khlong 19-Aranyaprathet: 2030, 175 km

**New Double Track Lines**
- Den Chai-Chiang Khong: 323 km
- Ban Pai-Nakhon Phanom: 355 km
**Eastern Economic Corridor (EEC)**

**Thailand’s Transport Infrastructure Development**

**Priority Projects and Plans**

**Intercity Motorway**

**Bang Pa In – Nakhon Ratchasima**
- 196 km project cost 2,188.6 US M.
- Cabinet approved for construction
  - July 14, 2015

**Ban Yai – Kanchanaburi**
- 96 km Project cost 1,403.4 US M.
- Progress: 7 percent
- Expected Completion: October 2020

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

- **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

Ferry Terminal

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 46 mil 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

Thailand's Transport Infrastructure Development
Priority Projects and Plans
Eastern Economic Corridor (EEC)
Eastern Economic Corridor (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

#### Immediate Phase (2017-2018)
- 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.

#### Medium Phase (2019-2021)
- 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.

#### Long Term Plan (2022)
- 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

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

The EEC Development Policy Committee endorsed plans February 1, 2018
6 Plans 168 Projects

**Source of Funding**
- 59% PPP
- 30% Gov. Budget
- 10% SOE’s Revenue
- 1% Revolving-budgetary Fund

**Transport Infrastructure Development**

**Priority Projects and Plans**

**Eastern Economic Corridor (EEC)**

- **Land**
  - 90 projects
  - 6,132 US M. (21.70%)
- **Air**
  - 20 projects
  - 4,967 US M. (17.56%)
- **Coastal**
  - 19 projects
  - 4,589 US M. (16.24%)
- **Electric**
  - 12 projects
  - 1,166 US M. (4.90%)
- **Rail**
  - 9 projects
  - 11,388 US M. (40.32%)
- **Water**
  - 18 projects
  - 23 US M. (0.08%)
Eastern Economic Corridor (EEC)

Thailand’s Transport Infrastructure Development

Priority Projects and Plans

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

Motorway No. 61
Laem Chabang – Nakhon Ratchasima 288 km

Motorway No. 72
Chonburi-Trad 216 km

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

U-Ta Pao International Airport
Accommodate more than 3 mil passenger/yr
Aerotropolis on area 575 Rai

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

• เอดีโอด้านอากาศชาย 3 แห่ง (สุวรรณภูมิ ดอนเมือง และภูเขาภูมิ)
• เอดีโอด้านอากาศขนานสำาหรับท่าอากาศ ทางเรือ และทางอากาศ
• เอดีโอด้านอากาศ
• เอดีโอด้านอากาศฟาร์มท่าอากาศพลังงานปลอดภัย ท่าอากาศยาน

ที่มา: การตรวจยุทธศาสตร์
Thank you