Railway development and long term plan in Thailand

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Railway development and long term plan in Thailand

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2. Thailand’s Transport Infrastructure Development Strategies 2015 - 2022

3. Current Status of Railway Infrastructure Development Projects in Thailand
Situation of Transport and logistics in Thailand

Background of Thailand

- Geographical area 513,115 sq.kms (rank 50th of the world)
- Population 66 million people (rank 20th of the world)
- Density 122 people/sq.kms
- GDP 260,000 million USD (rank 33th of the world)
- 77 provinces
- Monetary: Baht (THB)
Situation of Transport and logistics in Thailand

- Capital: Bangkok (1,568 sq.kms)
- Registered Bangkok residents: 9.10 million
- The greater Bangkok area population: 11.97 million
- Administration: 50 districts
- Economic output: 16% of Thailand's GDP
- Per capita income: 33,000 dollars
# Situation of Transport and logistics in Thailand

## Existing Transport Network

<table>
<thead>
<tr>
<th>Category</th>
<th>Sub-category</th>
<th>Details</th>
<th>Lengths</th>
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</thead>
<tbody>
<tr>
<td>Primary roads</td>
<td>Highways (ETA and Motorway)</td>
<td></td>
<td>66,794 km</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(146+207.9) 353.9 km</td>
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<tr>
<td>Secondary roads</td>
<td>Rural roads</td>
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<td>47,916 km</td>
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<td>Local roads</td>
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<td>352,157 km</td>
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<tr>
<td>Water</td>
<td>Coast</td>
<td></td>
<td>2,614 km</td>
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<tr>
<td></td>
<td>River</td>
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<td>1,750 km</td>
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<tr>
<td></td>
<td>Canal</td>
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<td>883 km</td>
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<tr>
<td>Rail</td>
<td>Single track</td>
<td></td>
<td>3,685 km</td>
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<tr>
<td></td>
<td>Double/triple track</td>
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<td>358 km</td>
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<tr>
<td>Airport</td>
<td>Airport operated by DCA and AOT</td>
<td></td>
<td>(28+6) 34 airports</td>
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<tr>
<td></td>
<td>Bangkok Airways</td>
<td></td>
<td>3 airports</td>
</tr>
<tr>
<td></td>
<td>Royal Thai Navy</td>
<td></td>
<td>1 airports</td>
</tr>
</tbody>
</table>

---
Situation of Transport and logistics in Thailand

In year 2016

**Travel mode share**
- Car: 38.60%
- Bus: 51.30%
- Air: 6.40%
- Rail: 3.70%

**Transportation mode share**
- Road: 92.60%
- Rail: 6.40%
- Air: 0.03%
- Water: 1.00%

Source: OTP
Thailand Total Ranking (2017): 27 of 63, Infrastructure Ranking 49
Railroad Ranking: 42 (0.011 km/sq.km.)
#1 Ranking: Singapore (0.255 km/sq.km.)

<table>
<thead>
<tr>
<th>Country</th>
<th>Overall Ranking</th>
<th>Infra. Ranking</th>
<th>Basic Infra. Ranking</th>
<th>Railroad Ranking (value)</th>
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<tbody>
<tr>
<td>Singapore</td>
<td>3 (99.488)</td>
<td>7</td>
<td>2</td>
<td>1 (0.255)</td>
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<tr>
<td>Malaysia</td>
<td>24 (85.530)</td>
<td>32</td>
<td>16</td>
<td>46 (0.007)</td>
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<tr>
<td>Japan</td>
<td>26 (82.267)</td>
<td>14</td>
<td>40</td>
<td>18 (0.051)</td>
</tr>
<tr>
<td>China</td>
<td>18 (87.758)</td>
<td>25</td>
<td>23</td>
<td>45 (0.007)</td>
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<tr>
<td>S.Korea</td>
<td>29 (78.649)</td>
<td>24</td>
<td>27</td>
<td>23 (0.039)</td>
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<tr>
<td>Thailand</td>
<td>27 (80.095)</td>
<td>49</td>
<td>34</td>
<td>42 (0.011)</td>
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</tbody>
</table>

Thailand Total Ranking (2016-2017): 34 of 138, Infrastructure Ranking 49
Railroad Ranking (2016): 78 (2.5 in 1-to-7- Scale)
#1 Ranking: Japan (6.7)

<table>
<thead>
<tr>
<th>Country</th>
<th>Overall Ranking (Score 1-7)</th>
<th>Infra. Ranking (Score 1-7)</th>
<th>Railroad Ranking (Score 1-7)</th>
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<tr>
<td>Singapore</td>
<td>2 (5.72)</td>
<td>2 (6.5)</td>
<td>5 (5.7)</td>
</tr>
<tr>
<td>Japan</td>
<td>8 (5.48)</td>
<td>5 (6.3)</td>
<td>1 (6.7)</td>
</tr>
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<td>Malaysia</td>
<td>25 (5.16)</td>
<td>24 (5.4)</td>
<td>15 (5.1)</td>
</tr>
<tr>
<td>S.Korea</td>
<td>26 (5.03)</td>
<td>10 (6.0)</td>
<td>9 (5.5)</td>
</tr>
<tr>
<td>China</td>
<td>28 (4.95)</td>
<td>42 (4.7)</td>
<td>14 (5.1)</td>
</tr>
<tr>
<td>Thailand</td>
<td>34 (4.64)</td>
<td>49 (4.4)</td>
<td>77 (2.5)</td>
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</table>
Impact to National Competitiveness

Railroad Density (IMD’s Indicator)

<table>
<thead>
<tr>
<th>Year</th>
<th>2017</th>
<th>2021</th>
<th>2026</th>
<th>2036</th>
</tr>
</thead>
<tbody>
<tr>
<td>Country Area (Sq.Km.)</td>
<td></td>
<td></td>
<td></td>
<td>513,115</td>
</tr>
<tr>
<td>Total Length of Railroad Network (Km.)</td>
<td>4,143*</td>
<td>5,557</td>
<td>6,934</td>
<td>8,852</td>
</tr>
<tr>
<td>Railroad Density (Km./Sq.Km.)</td>
<td>0.0081</td>
<td>0.0108</td>
<td>0.0135</td>
<td>0.0172</td>
</tr>
</tbody>
</table>

Note: *including Mass Rapid Transit Network in BMR

- When the short term plan is completed, IMD indicators can move from 42nd to 37th.
- Rating of quality of rail transport system of WEF's Executive Opinion Survey is expected to improve due to better rail service performance.
Railway development and long term plan in Thailand

2 Thailand’s Transport Infrastructure Development Strategies 2015 - 2022
Plan Under Thailand’s Transport Infrastructure Development Strategies 2015 - 2022

Transport Infrastructure Development Strategies 2015 - 2022 consists of 5 Plans, aiming to reduce cost of logistics and transportation, which in turn improve the competitiveness of the economy.

**Plan 1: Intercity Rail Networks Development**
- 1.1 Tracking & Facilities Improvement ฿4,055 million
- 1.2 Dual Track Development ฿491,541 million

**Plan 2: Improving Public Transport Networks & Services**
- 2.1 Implementation of 10 Metro Lines ฿579,654 million
- 2.2 Construction of Roads & Bridges ฿180,629 million
- 2.3 Procurement of 3,183 NGV Buses and Depots ฿13,637 million

**Plan 3: Enhancing Connectivity between Key Domestic Production Bases & Neighboring Countries**
- 3.1 Accessibility to Agricultural & Tourist Areas ฿527,835 million
- 3.2 Connectivity between Hub & Key Production Bases ฿430,454 million
- 3.3 Connectivity between Gateways ฿79,390 million
- 3.4 Promoting Seamless Multi-Modal Transport ฿50,571 million

**Plan 4: Increasing Water Transport Network**
- 4.1 Inland Port Development ฿37,295 million
- 4.2 Coastal Port Development ฿82,400 million

**Plan 5: Enhancing Air Transport Capability**
- 5.1 Airport Capacity Expansion ฿117,926 million
- 5.2 Enhancement in Air Traffic Management Capability ฿4,460 million
- 5.3 Increased Fleet Utilization ฿216,075 million
- 5.4 Air Transport Industrial Park ฿150,000 million
- 5.5 Human Resource Development ฿1,855 million
Transport Infrastructure Investment Action Plan (Priority Project) Year 2017: 36 Projects

Double Track Rail Network 10 Projects / 11,674.75 US M. (45.62%)
1. Huahin-Prachuap Khiri Khan 292.56 US M.*
2. Chumphon –Surat Thani 668.14 US M.
3. Surat Thani-Songkhla 1,480.67 US M.
4. Hat Yai-Padang Beza 226.91 US M.
5. Paknampho- DenChai 1,601.89 US M.
6. DenChai-Chiang Mai 1,712.12 US M.
7. DenChai-Chiang Rai-Chiang Khong 2,199.39 US M.
8. Khonkaen-Nong Khai 744.74 US M.
9. Jira – Ubonratchathani 1,023.99 US M.
10. Ban Pai – Nakorn Phanom 1,7214.34 US M.

Commuter Train 2 Projects / 4,777.79 US M. (2.97%)
1. Dark Red : Rangsit-TU Rangsit 217.06 US M.
2. Light Red Extension : Taling Chan-Siriraj and Taling Chan-Saraya 544.06 US M.

Mass Transit Dev. 6 Projects / 6,318.52 US M. (24.69%)
1. Blue Line : Bang kae- Sai 4 605.63 US M.
2. Orange Line : West Side 3,524.40 US M.
3. Dark Green : Samutprakarn - Bang Pu 347.03 US M.
4. Dark Green : Kukot – Lumluka 280.09 US M.
5. Airport Rail Link Extension (ARL) 889.98 US M.

Motorway & Expressway 5 Projects / 4,777.79 US M. (18.67%)
1. Nakom Phatom – Cha Am 2,302.86 US M.
2. Hat Yat-TH-Malaysia Border 871.43 US M.
3. Rama 3 – Dao Kanong-Outer Ring (West) 892.69 US M.
4. Northern Route N2 and E-W Corridor 410.91 US M.
5. Exp. Kratu – Patong 299.90 US M.

Road Facilitation 5 Projects / 613.52 US M. (2.40%)
1. Truck Rest Area on the main routes 15.71 US M.
2. Intermodal Facility – Chiang Khong – Nakorn Phanom 67.59 US M.
3. Cross-border Logistics Center 30.10 US M.
4. Regional Logistics Center (9 border provinces) 230.45 US M.
5. Regional Logistics Center (8 regional cities) 269.66 US M.

Public Bus Procurement 1 Project / 64.92 US M. (0.25%)
1. Public Bus Procurement and Stations 64.92 US M.

Common Ticket System 1 Project / 38.72 US M. (0.15%)
1. Common ticket system 38.72 US M.

Maritime Transport Dev. 3 Projects / 1,030.89 US M. (4.03%)
1. Ferry Service across Gulf of Thailand - US M.
2. Dev. of Ferry Terminal 28.05 US M.
3. Lam Cha Bang Phase 3 1,002.84 US M.

Air Transport Dev. 3 Projects / 312.83 US M. (1.22%)
1. Regional airport development 219.59 US M.
2. Baggage System Upgrade at BKK Airport 93.25 US M.
3. MRO Dev. at U-Tapao Airport - US M.

Source: Ministry of Transport / Remark: FX 1 US Dollar = 35 Baht
### Transport Action Plan (Priority Project) Year 2017: 36 Projects / 25,593.07 US Mill.Dollar

#### 1. In Service
- 2 Projects / 38.72 US M.
  1. Ferry Service across Gulf of Thailand
  2. Common ticket system

#### 2. Construction Stage
- 5 Projects / 1,565.67 US M.
  1. Intermodal Facility – Chiang Khong
  2. Regional airport development
  3. Rama 3 – Dao Kanong-Outer Ring (West)
  4. DT Huahin- Prachup Khiri Khan (Approved on Nov 1, 2016)
  5. Baggage System Upgrade at BKK Airport

#### 3. Procurement Stage
- 15 Projects / 13,387.56 US M.
  1. Public Bus Procurement and Stations
  2. Blue Line : Bang kae- Sai 4
  3. Dark Green : Samutprakam - Bang Pu
  4. Dark Green : Khukot – Lumluka
  5. Orange Line : West Side
  6. Airport Rail Link Extension (ARL)
  7. Dark Red : Rangsit-TU Rangsit
  8. Double Track (DT) Paknampho- DenChai
  9. DT Jira – Ubonratchathani
  10. DT Khonkaen-Nong Khai
  11. DT Chumphorn –Surat Thani
  12. DT Surat Thani-Songkhla
  13. DT Hat Yai-Padang Beza
  14. DT DenChai-Chiang Mai.
  15. MRO Dev. at U-Tapao Airport

#### 4. Cabinet or PPP Committee Approval
- 8 Projects / 8,514.42 US M.
  1. DT DenChai-Chiang Rai-Chiang Khong
  2. DT Ban Pai – Nakorn Phanom
  3. Light Red Extension : Taling Chan-Siriraj and Taling Chan-Saraya
  4. Lam Cha Bang Phase 3
  5. Exp. Northern Route N2 and E-W Corridor
  6. Exp. Kratu – Patong
  7. Motorway Nakorn Phathom – Cha Am
  8. Cross-border Logistics Center Nakorn Phathom

#### 5. Proposal Development
- 4 Projects / 1,399.59 US M.
  1. Development of Ferry Terminal
  2. Motorway Hat Yai-TH-Malaysia Border
  3. Regional Logistics Center (9 border provinces)
  4. Regional Logistics Center (8 regional cities)

#### 6. Policy driven projects
- 2 Projects / 687.11 US M.
  1. Truck Rest Area on the main routes
  2. Mass Transit in Phuket

Source: Ministry of Transport / Remark: FX 1 US Dollar = 35 Baht
Transport Infrastructure Investment Action Plan (Priority Projects) Year 2017

56 Projects with Total Investment of 65,628.60 US million dollar

Action Plan (AP) Year 2016
13 Projects (All Approved) with Total Investment of 15,020.99 US Mill.Dollar

Continued Projects from AP Year 2016
7 Projects with Total Investment of 24,978.15 US Mill.Dollar
(No. of Approved Projects = 2 Projects)

Action Plan Year 2017
36 Projects with Total Investment of 25,629.46 US Mill.Dollar
(No. of Approved Projects = 1 Project)

Double Track Rail Network
15 Projects
14,958.16 US M. (22.82%)

Commuter Train
3 Projects
2,022.77 US M. (3.08%)

Mass Transit Dev.
10 Projects
16,249.66 US M. (24.77%)

High Speed Train
4 Projects
20,035.18 US M. (30.55%)

Common Ticket System
1 Projects
38.72 US M. (0.06%)

Motorway & Expressway
8 Projects
8,717.03 US M. (13.29%)

Road Facilitation
5 Projects
613.52 US M. (0.94%)

Maritime Transport Dev.
5 Projects
1,131.63 US M. (1.73%)

Air Transport Dev.
4 Projects
1,750.61 US M. (2.67%)

Public Bus Procurement
1 Project
64.92 US M. (0.10%)

**Source of Financing**

- **Source of Financing for 43 Projects**
  - 7 Projects from AP Year 2016
  - 36 Projects from AP Year 2017

- **Disbursement Plan for Fiscal Year 2017 of Priority Projects = 4,278.64 US M.**

  1. **Action Plan Year 2016**
     - 13 Projects / 2,098.38 US M.

  2. **Continued Projects from AP Year 2016**
     - 7 Projects / 1,953.30 US M.

  3. **Action Plan Year 2017**
     - 36 Projects / 226.96 US M.

Source: Ministry of Transport  /  Remark: FX 1 US Dollar = 35 Baht
3 Current Status of Railway Infrastructure Development Projects in Thailand
Mass Rapid Transit in Bangkok

In operation
5 lines ; 108 km

In Action
10 lines ; 464 km
Mass Rapid Transit in Bangkok

5 Lines: in Operation (108 km)

• **Airport Rail Link**
  (Phaya Thai – Suvarnabhumi Airport) 28.5 km

• **Blue Line**
  (Hua Lam Phong – Bang Sue) 20 km

• **Dark Green Line**
  (Mochit – Samrong) 29 km

• **Light Green Line**
  (Nation Stadium – Bang Wa) 7.5 km

• **Purple Line**
  (Taopoon – Bang Yai) 23 km
2017 in Action

5 projects: Under Construction (99.2 km)

- Dark Red Line (Bang Sue – Rangsit) 26 km
- Light Red Line (Bang Sue – Talingchan) 15 km
- Blue Line (Bang Sue – Tha Phra, Hua Lam Phong – Bang Khae) 27 km
- North Dark Green Line (Mochit – Kho Khot) 18.4 km
- South Dark Green Line (Bearing – Samut Prakarn) 12.8 km

Progress (October 2017):
- Dark Red Line: 95.32%
- Light Red Line: 45.57%
- Blue Line: 100%

19
4 Lines: Construction in 2017 by MRTA (110.2 km.)

- Pink Line (Khao Rang – Makkasan) 34.5 km
- Yellow Line (Lat Phrao – Samrong) 30.4 km
- East Orange Line (Thailand Cultural Center – Minburi) 21.5 km
- Purple Line (Tao Poon – Ratchaburana) 23.8 km

Progress (October 2017): 2.74%
2017 in Action

2 Lines: Tendering Process by SRT (27.5 km.)

- Dark Red Line (Bang Sue – Hua Lam Phong) 8.5 km
- Light Red Line (Bang Sue– Hua Mark) 19 km.
7 Lines: Preparing for Cabinet Approval (84.8 km)

- **Dark Red Line** (Rangsit–Thammasart) 10 km
- **Light Red Line** (Talingchan – Ririraj, Talingchan - Salaya) 14 km
- **Blue Line** (Bang Khae – Buddha Monthon Sai 4) 8 km
- **West Orange Line** (Talingchan - Thailand Cultural Center) 17.5 km
- **North Dark Green Line** (Kho Khot – Lam Luk Ka) 6.5 km
- **South Dark Green Line** (Samut Prakarn – Bang Pu) 7 km
- **Airport Rail Link** (Phaya Thai – Don Muang Airport) 21.8 km
**Double Track Railways**

**In operation**

1 Meter Gauge; 4,043 km. (Nationwide)
- Single Track 3,685 km. (91.15%)
- Double Track 358 km. (8.85%)

**In Action**

1 Meter Gauge; 4,716 km. (Nationwide)
- Single Track 1,186 km. (25.14%)
- Double Track 3,530 km. (74.85%)
  (New lines 673 km.)
Double Track Railway Projects

- **2 Projects**
  Under construction
  (Complete 2021)

- **5 Projects**
  Starting construction in December 2017

- **9 Projects**
  Preparing for Cabinet Approval *
Operation Plan for Double Track Railways
16 projects / 3,172 km.

- 2021: 5 sections
- 2022: 5 projects
- 2023: 6 sections
- 2024-2025: 2 new lines
In Action

- **4 Routes** Total Distance 1,039 km.
- Speed 250 km/hr.
- **Standard Gauge** 1.435 m.
High Speed Train
4 Routes in 2022

2020
Bangkok-Nakhon Ratchasima
250 km.

2021
Bangkok-Rayong* 194 km.

2021
Bangkok-Hua Hin* 211 km.

2022
Bangkok-Phitsanulok
380 km.

* Open for Public-Private Partnership (PPP)
## Draft Master Plan for Railway Network Development

### High speed train

<table>
<thead>
<tr>
<th>No.</th>
<th>Route</th>
<th>Distance (km)</th>
<th>Project cost (Mill. Baht)</th>
<th>Readiness</th>
<th>Project Schemes</th>
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<tbody>
<tr>
<td></td>
<td><strong>Urgent phase</strong></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>1</td>
<td>Bangkok-Rayong</td>
<td>193.5</td>
<td>152,448</td>
<td>- Conducting PPP Study - Waiting for EIA approval</td>
<td>PPP</td>
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<tr>
<td>2</td>
<td>Bangkok-Nakhonratchasima</td>
<td>253</td>
<td>179,413</td>
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<td>SOE</td>
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<tr>
<td>3</td>
<td>Bangkok-Phitsanulok</td>
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<td>276,225</td>
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<tr>
<td>4</td>
<td>Nakhonratchasima-Nongkhai</td>
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<td>208,561</td>
<td>- Waiting for EIA approval</td>
<td>-</td>
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<tr>
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<td><strong>Middle phase</strong></td>
<td>499</td>
<td>308,678</td>
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<td>1</td>
<td>Bangkok-Hua Hin</td>
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<td>94,673</td>
<td>- Conducting PPP Study - Waiting for EIA approval</td>
<td>PPP</td>
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<td>Phitsanulok-Chiangmai</td>
<td>288</td>
<td>214,005</td>
<td>- Waiting for EIA approval</td>
<td>-</td>
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<td><strong>Long-term phase</strong></td>
<td>759</td>
<td>432,329</td>
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<td>1</td>
<td>Hua Hin-Suratthani</td>
<td>424</td>
<td>235,162</td>
<td>Pre-FS</td>
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<td>Suratthani– Padang Besar</td>
<td>335</td>
<td>197,167</td>
<td>Pre-FS</td>
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<td><strong>Total</strong></td>
<td>2,439.5</td>
<td>1,557,654</td>
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</tbody>
</table>

### Criteria
- Concordance of national strategies and policies
- Project readiness
### Bilateral Cooperation between THAILAND and JAPAN

<table>
<thead>
<tr>
<th>List of Projects</th>
<th>Length (km)</th>
</tr>
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<tbody>
<tr>
<td><strong>East - West Alignment:</strong></td>
<td></td>
</tr>
<tr>
<td>• Double Track</td>
<td></td>
</tr>
<tr>
<td>• Gauge Width to be decided</td>
<td></td>
</tr>
<tr>
<td>• Design Speed 100-120 km/hr</td>
<td></td>
</tr>
<tr>
<td>1. Bangkok – Kanchanaburi</td>
<td>180</td>
</tr>
<tr>
<td>2. Bangkok – Arunyaprathet</td>
<td>255</td>
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<tr>
<td>3. Bangkok – Leam Chabang</td>
<td>139</td>
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<tr>
<td><strong>NORTH Alignment:</strong></td>
<td>672</td>
</tr>
<tr>
<td>4. Bangkok – Chiangmai</td>
<td></td>
</tr>
<tr>
<td>• Double Track</td>
<td></td>
</tr>
<tr>
<td>• Standard Gauge (1.435 m)</td>
<td></td>
</tr>
<tr>
<td>• Design Speed &gt;200 km/hr</td>
<td></td>
</tr>
<tr>
<td>• Approx. Cost: 449 Billion Baht (€11,525 Million)</td>
<td></td>
</tr>
<tr>
<td>• Agencies in Charge: MOT/OTP/SRT</td>
<td></td>
</tr>
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</table>

**MOC : Thailan- Japan**
Bangkok-Chiang Mai High Speed Train Project

Current status:

- Finished Feasibility Study & Cost Estimation for High Speed Train Project (Bangkok-Chiangmai: Phase 1 Bangkok-Phitsanulok)

Plan:

- Submit to the cabinet for approval in **2017**
- Construction: year **2019**
- Service launching: year **2025**
New Bangkok Central Station

24 ชานชาลา

Bang Sue Station
(New Bangkok Central Station)

สถานีกลางบางซื่อ ศูนย์กลางระบบรางแห่งใหม่ของไทย

สถานีกลางบางซื่อ ศูนย์กลางระบบรางแห่งใหม่ของไทย

สถานีกลางบางซื่อ ศูนย์กลางระบบรางแห่งใหม่ของไทย

สถานีกลางบางซื่อ ศูนย์กลางระบบรางแห่งใหม่ของไทย

สถานีกลางบางซื่อ ศูนย์กลางระบบรางแห่งใหม่ของไทย

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สถานีกลางบางซื่อ ศูนย์กลางระบบรางแห่งใหม่ของไทย
Thank you for your attention