

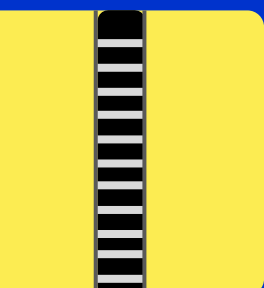


R



Department of
Rail Transport

A



RAIL

Infrastructure Report



Photo Credit : The Standard

2025



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Photo Credit : Sakke



Photo Credit : The Standard



March 2026

Rail Infrastructure Report 2025 has been prepared to compile an overview and strategic directions for railway transport system operations in Thailand across various dimensions, including the network, rail transport statistics, rail transport development goals and Indicators, railway station service quality assessment, and the World Competitiveness Ranking (IMD)

Furthermore, this report summarizes the key provisions of the Railway Transport Act, B.E. 2568 (2025), which was published in the Royal Gazette on December 27, 2025 and shall come into force on March 27, 2026 onwards. It aims to clarify the roles and responsibilities of Department of Rail transport and the principal legal provisions essential for elevating the unified management of the national railway system. This includes opening opportunities for the private sector to jointly utilize the infrastructure of the State Railway of Thailand, enabling higher-frequency and more efficient passenger and freight transport services, thereby reducing transport costs and enhancing the cost-effectiveness of infrastructure utilization.

Department of Rail transport, Strategy and Planning Division, sincerely hopes that this report will prove beneficial for research and study, and that its data can be leveraged to generate further value for relevant sectors.

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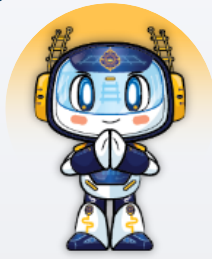
Key Essentials

Rail Transport Act

B.E.2568 (2025)



01



Chapter

1

Rail Transport Policy Committee

Proposing the rail transport development plans, guidelines for development around the railway station, and integrating with the other modes, alongside setting the maximum fare and cost ceiling for both passenger and freight services.

Chapter

2

Railway Project Formulation

The Department of Rail Transport (DRT) is responsible for formulating the National Railway Development Plan, while the project owners (operators) are responsible for its implementation.

Chapter

3

Railway Safety and Operational Areas

Project owners or operators are responsible for establishing the operational and safety standards for the railway system, including settling the railway operational boundary line

Chapter

4

Railway Business

A service provider, which is authorized to conduct railway business under the Act, must not collect fares exceeding the committee's regulation.

Chapter

5

Mutual Railway Operation

Allows the private sector to utilize the State Railway of Thailand (SRT)'s infrastructure to conduct business operations. Additionally, private sectors or service providers must provide suitable service schedules, maximize infrastructure efficiency, and minimize transportation costs as much as possible.

Chapter

6

Accident inspection

Establish the "Accident Inspecting Committee" to prevent any accidents in railway transport.

Chapter

7

Railway Inspectors

DRT's personnel, who are appointed by the Minister, will be the railway inspectors who respond and are authorized to inspect railway operations and business.

Chapter

8

Railway personnel

Railway personnel, including train drivers and controllers, must be certified and adhere strictly to all the standards and regulations.

Chapter

9

Licenses

All service providers must be registered and licensed to provide a service or operate a rail business. In addition, the specifications for facilities such as locomotives and carriages must meet the specified standards and guidelines provided to ensure safety.

Chapter

10

Passenger's protection

Authorized service providers are required to provide accident insurance that covers injuries and death, along with compensation for delays, accidents, and cancellations incurred from railway service.

Chapter

11

Penalties

Defines legal penalties for any violation of the act. These apply to service providers, railway personnel, and board directors found in breach of the law.

Chapter

12



Rail

Infrastructure



02



Los PDR

Myanmar

Vietnam

Andaman Sea

Gulf of Thailand

Cambodia

Malaysia

Rantau Panjang

“ From Single track to Double track

Significant steps for changing the way of travelling in the country

- Increase average speeds
- Reduce travel times
- Enhance rail capacity
- Support passenger and freight transport
- Reduce logistics costs

Legends

- In operation
- Double track (Under construction)
- New Route (Under construction)
- Double track (Preparing to propose to the cabinet)

4,044 km.

Single Track

2,826 km.

Double Track

1,111 km.

Triple Track

107 km.

70%

27%

3%

Southern Line

1,570 km.

Northeastern Line

1,094 km.

Northern Line

781 km.

Eastern Line

534 km.

Maeklong Line

65 km.



- 1 **Green Line (Sukhumvit)** 55.80 km.
- 2 **Green Line (Silom)** 14 km.
- 3 **M Blue Line** 47 km.
- 4 **M Purple Line** 23 km.

- 5 **Airport Rail Link** 28.70 km.
- 6 **Pink Line** 37.50 km.
- 7 **Yellow Line** 30.40 km.
- 8 **Red Line** 41.56 km.
- 9 **Gold Line** 1.88 km.

In Operation
279.84
km.

Legend

- In operation
- - - Under construction/
System work
- Preparing for
signing a contract



“

METRO

Moving beyond travel

- Creating opportunities
- Redistributing prosperity
- Enhancing accessibility

High Speed Rail

A Way of the future that extends the travel range and increases travelling speed

- Reduces the regional travelling time
- Connects major cities, minor cities, and neighboring countries
- Promotes economic activity, investment, and tourism

”

Phase 1: Bangkok – Nakhon Ratchasima

Phase 2: Nakhon Ratchasima – Nong Khai



Comparison



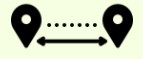
Thai–China Railway



Laos–China Railway



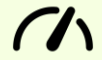
609 km.



420 km.



250 km/h



160 km/h



CR300



CR200



1.435 m



1.435 m

Double Track



Single Track



Passenger



Passenger, Freight

Legend

- Under construction
- Procurement process
- Preparing process



Rail Transport Statistics




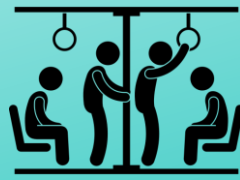
03

Passenger Volumes Railway

2025

(January – December 2025)

 **5,583,814** Person - trips
(+1.03%)



Total

547,918,317

Person - trips

Metro



520,491,914 Person - trips  **5,006,504** Person - trips
(+0.97%)

GREEN



261,364,984 Person - trips

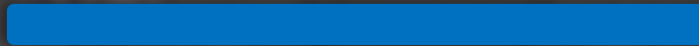


 **2,590,820** Person-trips
(-0.98%)

BLUE



154,834,153 Person - trips

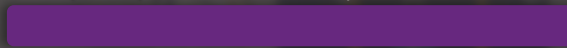


 **495,275** Person-trips
(-0.32%)

PURPLE



24,777,906 Person - trips

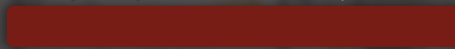



 **279,982** Person-trips
(+1.14%)

ARL



24,501,757 Person - trips




 **308,082** Person-trips
(+1.27%)

PINK



22,520,891 Person - trips




 **2,874,534** Person-trips
(+14.63%)

YELLOW



16,534,043 Person - trips

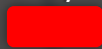


 **2,829,812** Person-trips
(+20.65%)

RED



13,235,122 Person - trips



 **1,840,178** Person-trips
(+16.15%)

GOLD



2,723,058 Person - trips



 **39,989** Person-trips
(-1.45%)

Inter-city Train



27,426,403 Person - trips  **577,310** Person - trips
(+2.15%)

Public obliged




16,879,224 Person - trips

 **137,506** Person - trips
(+0.82%)

Commercial



10,547,179 Person - trips

 **439,804** Person - trips
(+4.35%)

Sources: Mass Rapid Transit Authority (MRTA), State Railway of Thailand (SRT), S.R.T Electrified Train Co., Ltd., and Bangkok Metropolitan Administration (BMA)

Analyzed by: Department of Rail Transport (DRT)



Rail Freight Volume

2025 (January - December 2025)

Unit : tons

Total 13,132,925 tons

Petroleum Gas

LPG Gas



228,864

Oil

1 Crude Oil



915,649

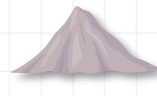
2 Refined Oil



264,182

Cement

1 Bulk Cement



27,744

2 Bagged Cements



620,848

Containers



1 Domestic



10,517,447

2 MALAYSIA



487,434

3 LAOS PDR



67,127

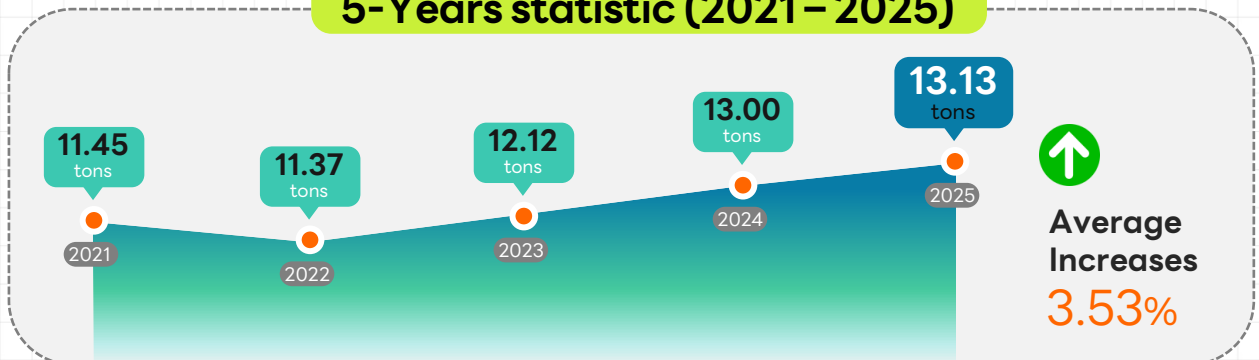
Etc.

Such as military equipment and construction materials



3,630

5-Years statistic (2021 – 2025)

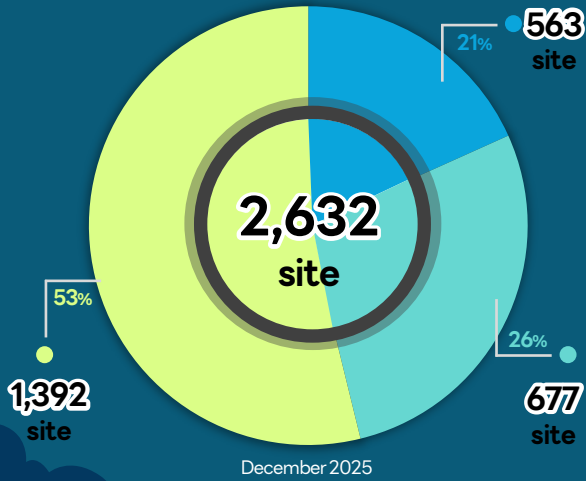


Source : State Railway of Thailand (SRT)
Analyzed by : Rail Transport Regulation Division, Department of Rail Transport



Railway Crossing and Accident Statistics 2025

Railroad Crossing



At-grade crossing



Overpass crossing



Unauthorized crossing

Railway Accidents

	Fatalities	Injuries
84 times	7	25
43 times	13	22
26 times	1	4
	21 cases	51 cases

153 cases

Type of Accident



Gated level crossing



Ungated crossing



Structural encroachment

Source: State Railway of Thailand (SRT)
Analyzed by: Safety and Maintenance Standards Division, Department of Rail Transport



Rail Transport

Development Goals and Indicators



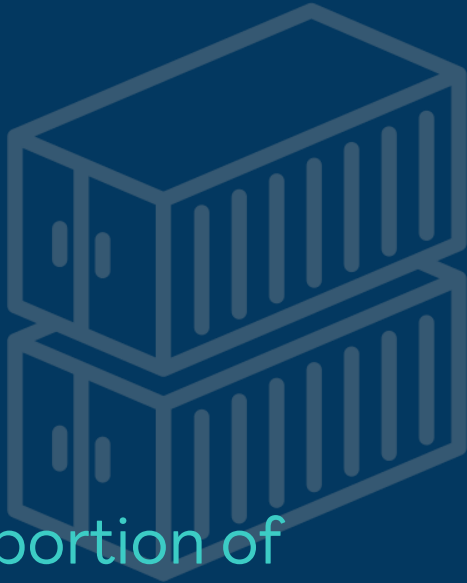
04



Railway Development Indicators

Under National Master Plan
Issue 7 : Infrastructure , Logistic, and Digital Development

1



Proportion of Rail Freight

To Total Freight Volume
(Average %)

Responsible Agency : Department of Rail Transport (DRT)

Result in 2025

1.81%

Goal 2023-2027

7%

2

Proportion of Urban Public Transport Trips

To Total Urban Trips
(Average %)

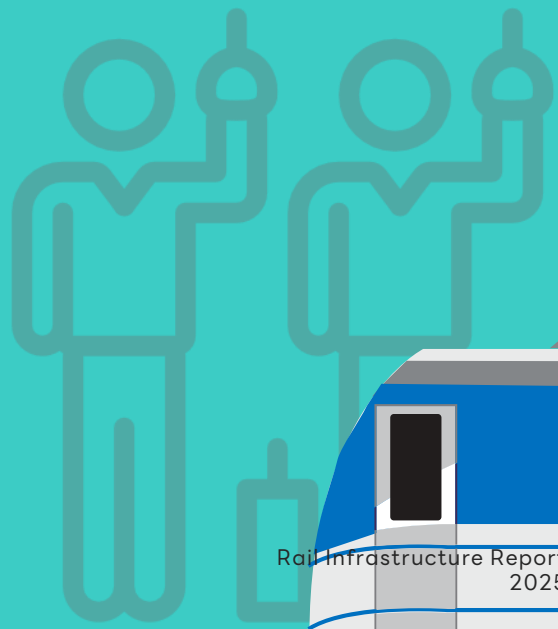
Responsible Agency : Office of Transport and Traffic Policy and Planning (OTP)

Result in 2025

11.71%

Goal 2023-2027

Not less than 40%



Rail Transport Standards



05



DRT. R 008 2025

Protective Provisions
Against Electrical
Hazards on Rolling
Stock



DRT. R 009 2025

General Design and
Layout Standard for
Rolling Stock Driver's Cab



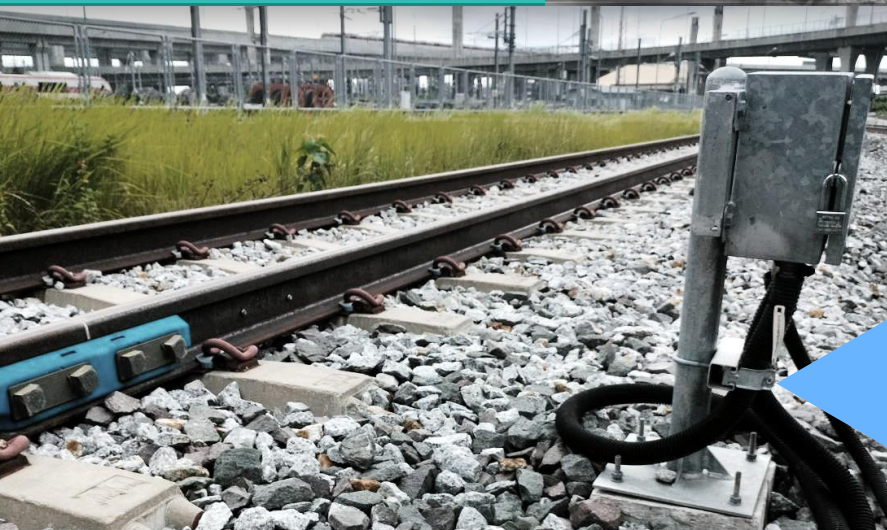
DRT. SC 007 2025

Standard for Electric
Point Machine
on Mainline



DRT. SC 008 2025

Standard for Track Circuit
on Mainline





DRT. C 013 2025

Grade Separated Crossing



DRT. C 014 2025

Standard for Protection of Railway Bridges Against Impacts from Road Vehicles



DRT. C 015 2025

Standards for Construction of Structures in At-Grade Railway Zones and Measures to Mitigate Damage from Train Derailments and Collisions with Structures



DRT. E 005 2025

Railway Electromagnetic Compatibility



Railway station

service quality
assessment



06

Infrastructure

Station Location, Automobile and Motorcycle Parking Facilities, Passenger Drop-Off and Pick-Up Points, Entry and Exit Points, Elevators, and Escalators



Information and Public Relations

Travel Guidance, Train Timetables, Intermodal Connectivity Information, and Train Arrival and Delay Announcements

Connectivity

Connectivity with Private Vehicles, Motorcycle Taxis, Public Bus Services, and Other Modes of Transport



Safety

Fire Escape Routes, Fire Extinguishers, Closed-Circuit Television Systems, Lighting Facilities, Security Personnel, Pedestrian Crossings, and Pedestrian Overpasses



8

Quality Assessment Criteria Railway station

* In accordance with quality assessment criteria under EN13816, CoMET and Nova, IRS, RSI, NRPS and relevant Legislation



Facilities and Amenities

Lavatory, Retail Outlets, Waiting Seat, AED, Mobile Charging, Wi-Fi, Luggage Storage and Goods Delivery Points, and Public Relations and Ticketing Counters



Universal Design (UD)

Disabled Parking Facilities, Ramps, Disabled-Accessible Lavatories, Wheelchairs, Elevators, and Escalators



Staff Service Provision

Service and Assistance Competency Skills, Conduct and Courtesy, and Complaint Handling

Aesthetics

Station Condition, Visual Attractiveness, and Green Areas





10



Inter-city Railway Station

has been quality assessed



Service Readiness

Nong Khai					
Den Chai					
Sila At					
Uttaradit					
Trang					
Kantang					
Huai Yot					
Udon Thani					
Non Sa-at					
Kumphawapi					

 Infrastructure	 Information and Public Relations	 Connectivity	 Safety
 Facilities and Amenities	 Universal Design (UD)	 Staff Service Provision	 Aesthetics

Suggestions for Improvement

- Designate clearly defined passenger drop-off, pick-up, and parking areas.
- Provide facilities that accommodate all users in accordance with Universal Design.
- Install sufficient lighting throughout the station.
- Install comprehensive closed-circuit television coverage.
- Inspect and maintain fire equipment to ensure it is ready for use.



7

Metro Railway Station

has been quality assessed

Infrastructure	Information and Public Relations	Connectivity	Safety
Facilities and Amenities	Universal Design (UD)	Staff Service Provision	Aesthetics



Service Readiness

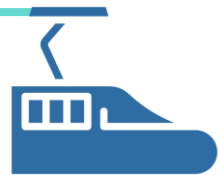
Lat Phrao	
Samrong	
Rangsit	
Taling Chan	
Tha Phra	
National Stadium	
Khlong San	

Suggestions for Improvement

- Improve travel information systems, informative sign, including connectivity information, bicycle parking areas, station area maps, passenger drop-off and pick-up points, and nearby points of interest.
- Provide facilities that accommodate all users in accordance with Universal Design.

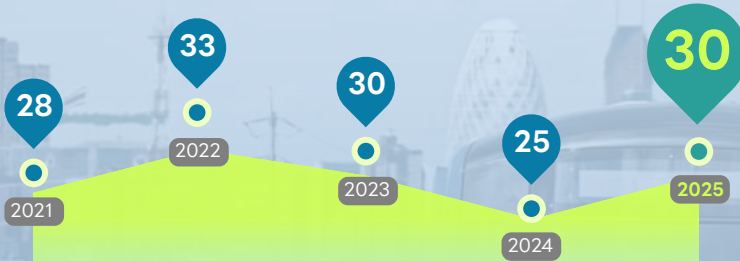


World Competitiveness Ranking (Infrastructure)



07

Thailand's Ranking Past 5 Years



▼ **Decrease** 5 places from 2024
3rd of ASEAN



Economic performance

Rank **8th** ▼ (-3rd)



Government efficiency

Rank **32nd** ▼ (-8th)



Business efficiency

Rank **24th** ▼ (-4th)



Infrastructure

Rank **47th** ▼ (-4th)

Factor 4 : Infrastructure

Rank

◆ Basic Infrastructure	25	↓ -2
◆ Technological Infrastructure	32	↓ -7
◆ Scientific Infrastructure	37	↓ -3
◆ Health & Environment	58	↓ -3
◆ Education	55	↓ -1

Sub-Factor 4.1 : Basic Infrastructure

Rank

◆ Roads	23	↓ -1
◆ Railroads	42	↑ +1
◆ Air Transportation	27	—
◆ Quality of Air Transportation	26	↑ +4



514/1 Na Thalang Building
Lan Luang Road , Si Yaek Maha Nak
Dusit, Bangkok



0 2164 2626



saraban@drt.go.th

Department of Rail Transport

DRT