High-Level Meeting on Deepening Digitalization of International Rail Transport in Asia-Pacific

Experience in Thailand

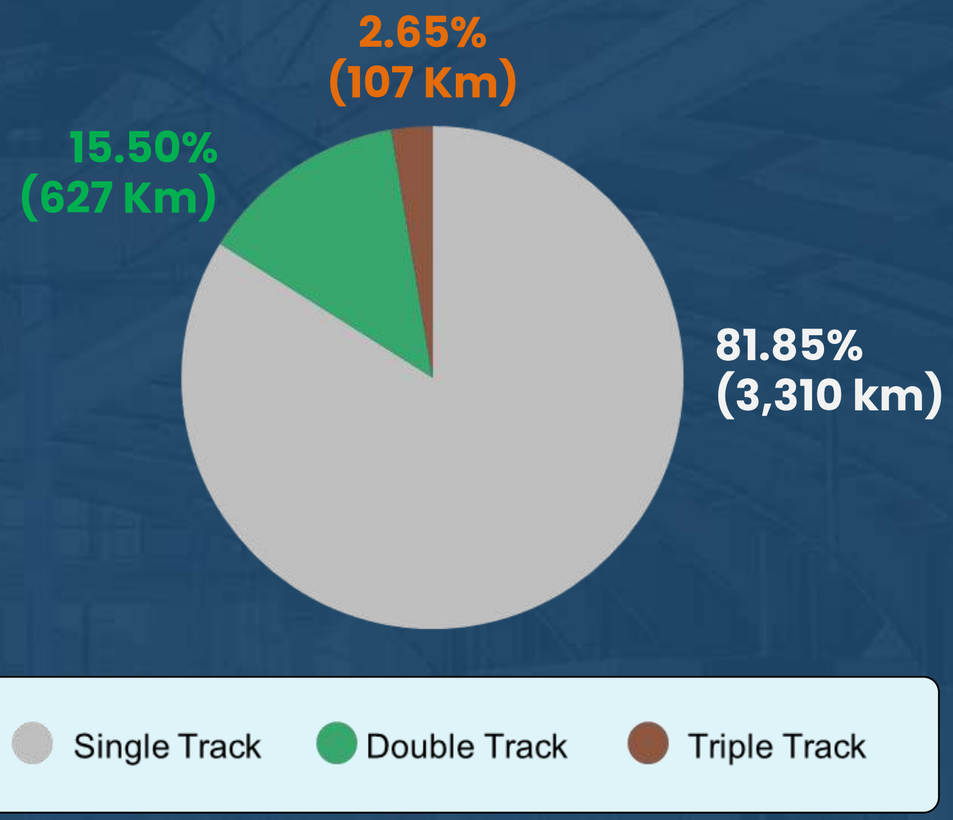
Session 1 : Rail digitalization strategies and policies of the members of Trans-Asian Railway Network

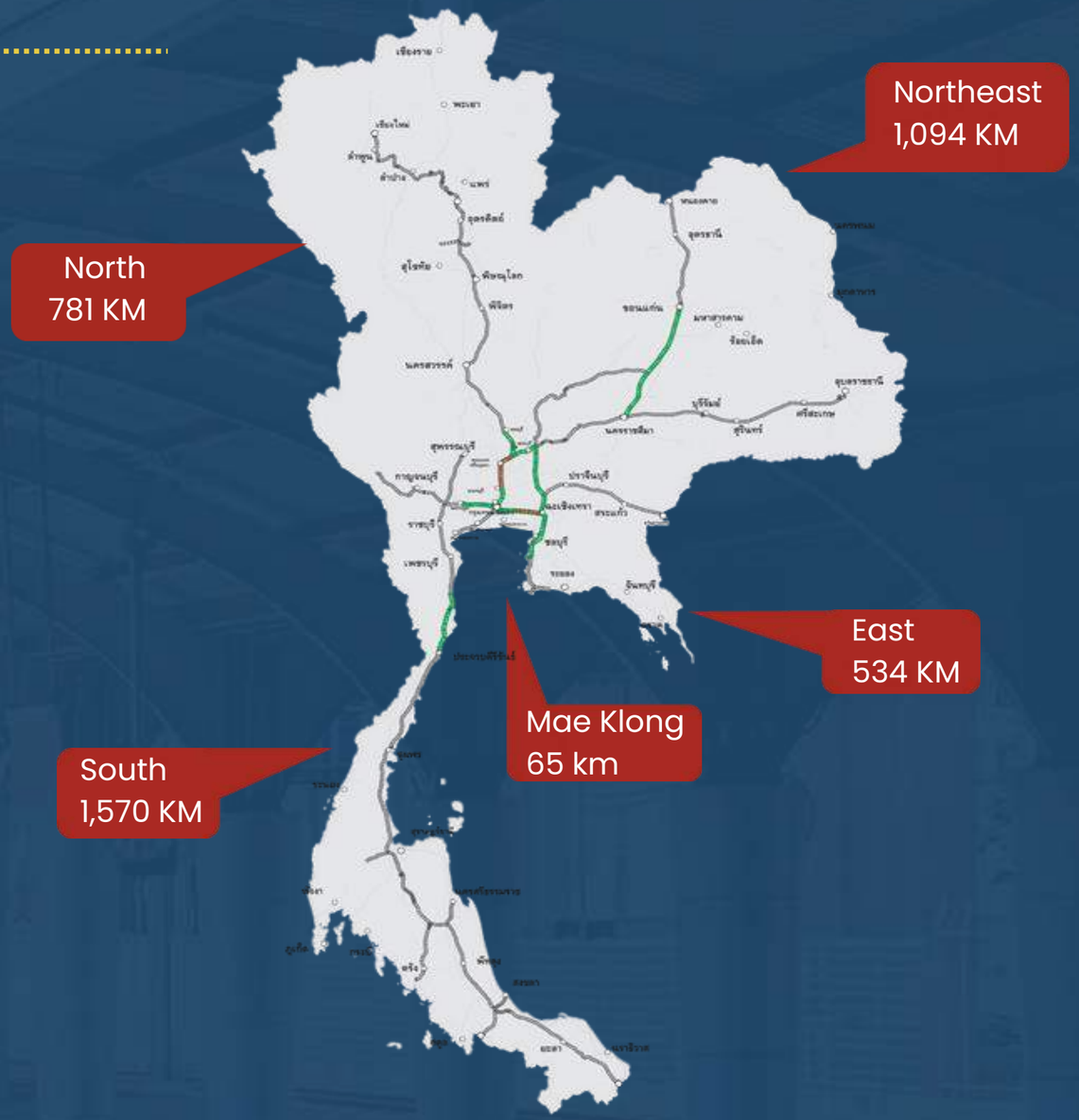
May 13-15, 2025
Xi'an, China

การรถไฟแห่งประเทศไทย

Thailand Railway Network

4,044 km covering 47 provinces





Bangkok MRT in service

13 Routes 276.84 KM

Green (Sukhumvit)

1 Mo Chit - Samut Prakan (37.10 KM)
Mo Chit - On Nut opened on 5 Dec.1999
On nut- Bearing opened on 12 Aug 2011
Bearing - Samut Prakan opened on 6 Dec. 2018

2 Mo Chit - Saphan Mai - Khu Khot (18.70 KM)
Mo Chit - Lat Phrao opened on 9 Aug 2019
Lat Phrao - Kasetsart U opened on 4 Dec. 2019
Kasetsart U - Wat Phra Si Mahathat opened on service 5 June 2020
Wat Phra Si Mahathat - Khu Khot opened on 16 Dec. 2020

Green (Silom)

3 National Stadium - Bang Wa (14 KM)
National Stadium - Taksin Bridge opened on 5 Dec. 1999
Saphan Taksin - Wongwian Yai opened on15 May 2009
Wongwian Yai - Bang Wa Open opened on 5 Dec. 2013

Blue

4 Bang Sue - Hua Lamphong (20 KM)
Opened on 3 Jul. 2004
(Bang Sue - Tao Poon 1.2 KM opened on 11 Aug. 2017)

5 Hua Lamphong - Bang Khae (14 KM)
Opened on 29 Sep 2019

6 Bang Sue - Tha Phra (13 KM)
Opened on 30 Mar. 2020

ARL

7 Phayathai-Suvarnabhumi (28.70 KM)
Opened on 23 Aug. 2010

Purple

8 Bang Yai-Tao Poon (23 KM)
Opened on 6 Aug 2016

Gold

9 Krungthonburi-Khlongsan (1.88 KM)
Opened on 16 Dec. 2020

Red (North)

10 Bang Sue - Rangsit (26.30 KM)
Opened on 29 Nov 2021

Red (West)

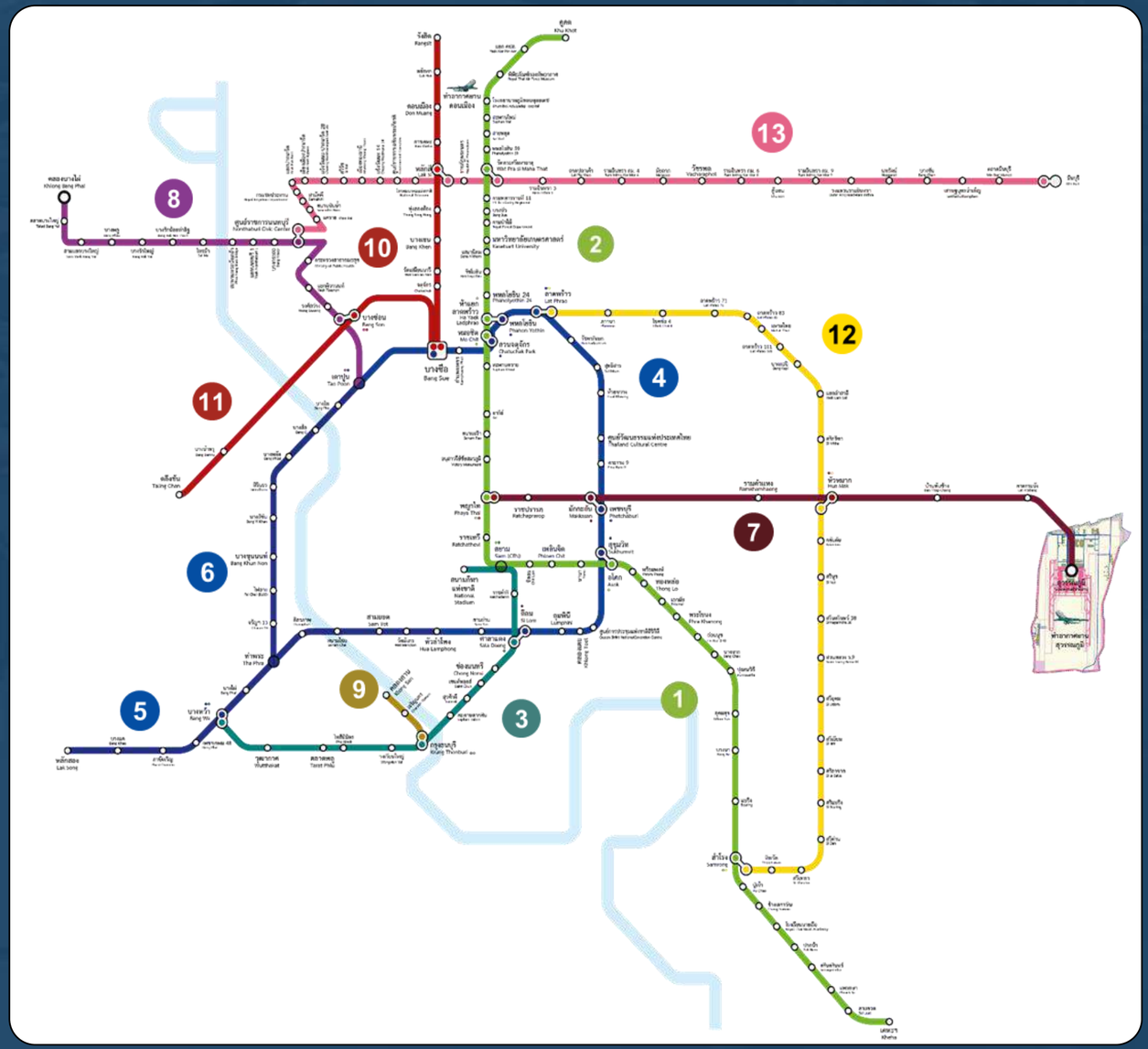
11 Bang Sue - Taling Chan (15.26 KM)
Opened on 29 Nov 2021

Yellow

12 Lat Phrao - Samrong (30.40 KM)
Opened on 19 Jun 2023

Pink

13 Khae Rai-Min Buri (34.50 KM)
Opened on 21 Nov 2023



Rail Transport Players in Thailand

Ministry of Transport

Office of Transport and Traffic Policy and Planning (OTP)
Formulate transportation plans in accordance with government policies

Rail Technology Research and Development Agency (RTRDA)
Develop the national strategy for railway technology, focusing on research and development as well as human resource

Budget allocation and the establishment of regulatory policies.

State Railway of Thailand (SRT)
Construction management, concession contract oversight, and infrastructure ownership
Operation and maintenance (O&M)

Mass Rapid Transit Authority of Thailand (MRTA)
Construction management, concession contract oversight, and infrastructure ownership.

Department of Rail Transport (DRT)

Railway Plan , Regulate Level of Service and Safety Ensure consistent and standardized rail transport nationwide.

OPERATORs Secure government contracts for railway operation and maintenance.

Bangkok holds a majority share of 99.98% and manages facilities and infrastructures within Bangkok.

Bangkok Metropolitan Administration (BMA)
Concession contract oversight, and infrastructure ownership.

Digital Rail Technology in Thailand

Thailand's Digital Government Plan (2023)

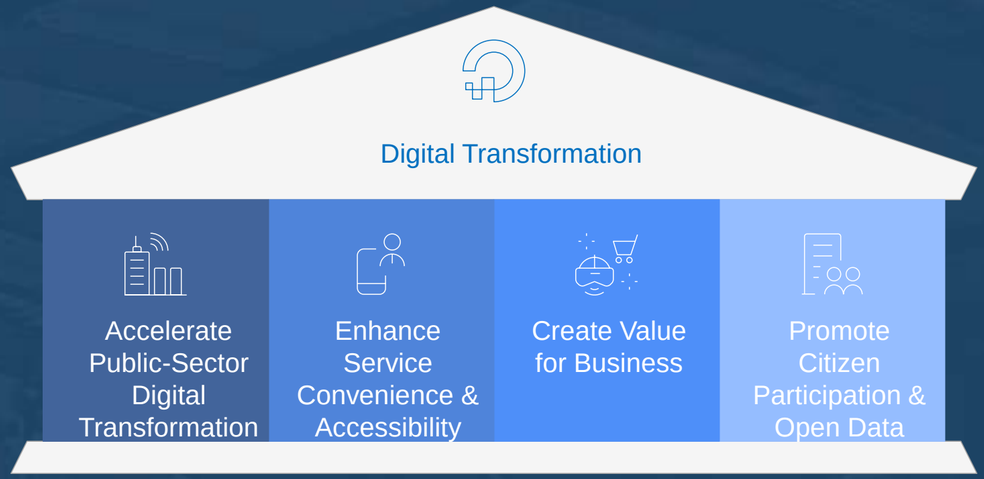
Royal Gazette Publication

Plan officially published in the Royal Gazette

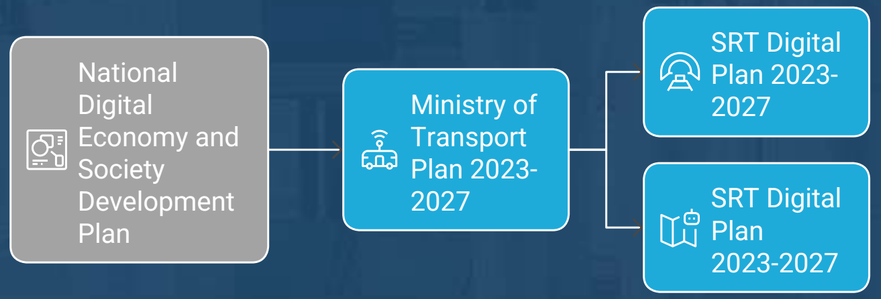
Cabinet Approval

National Digital Government Development Plan approved by Cabinet





Thailand's Rail Digitalization Framework



Digital Rail Technology in Thailand

Train Tracking System

EMV Contactless



Railway application

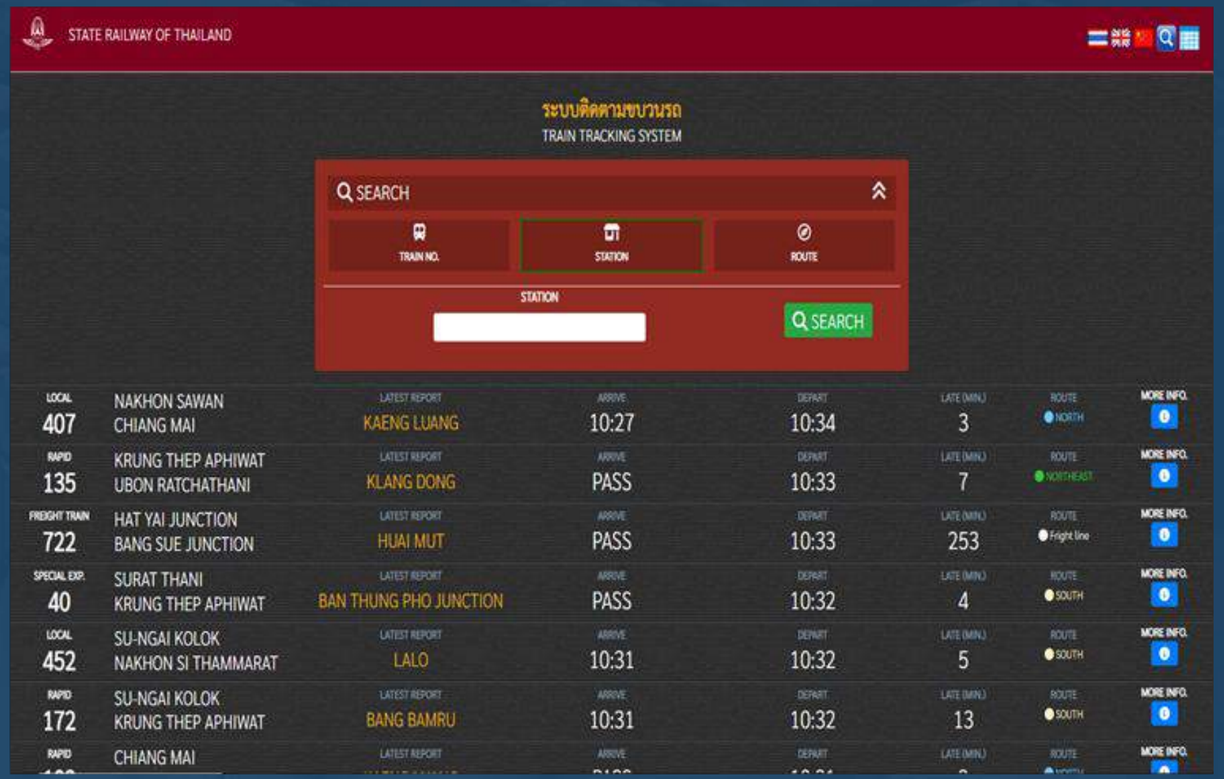
E license R

SRT Train Tracking System

Discover how the Train Tracking System is providing real-time information on intercity train schedules, routes, and station details for a seamless travel experience

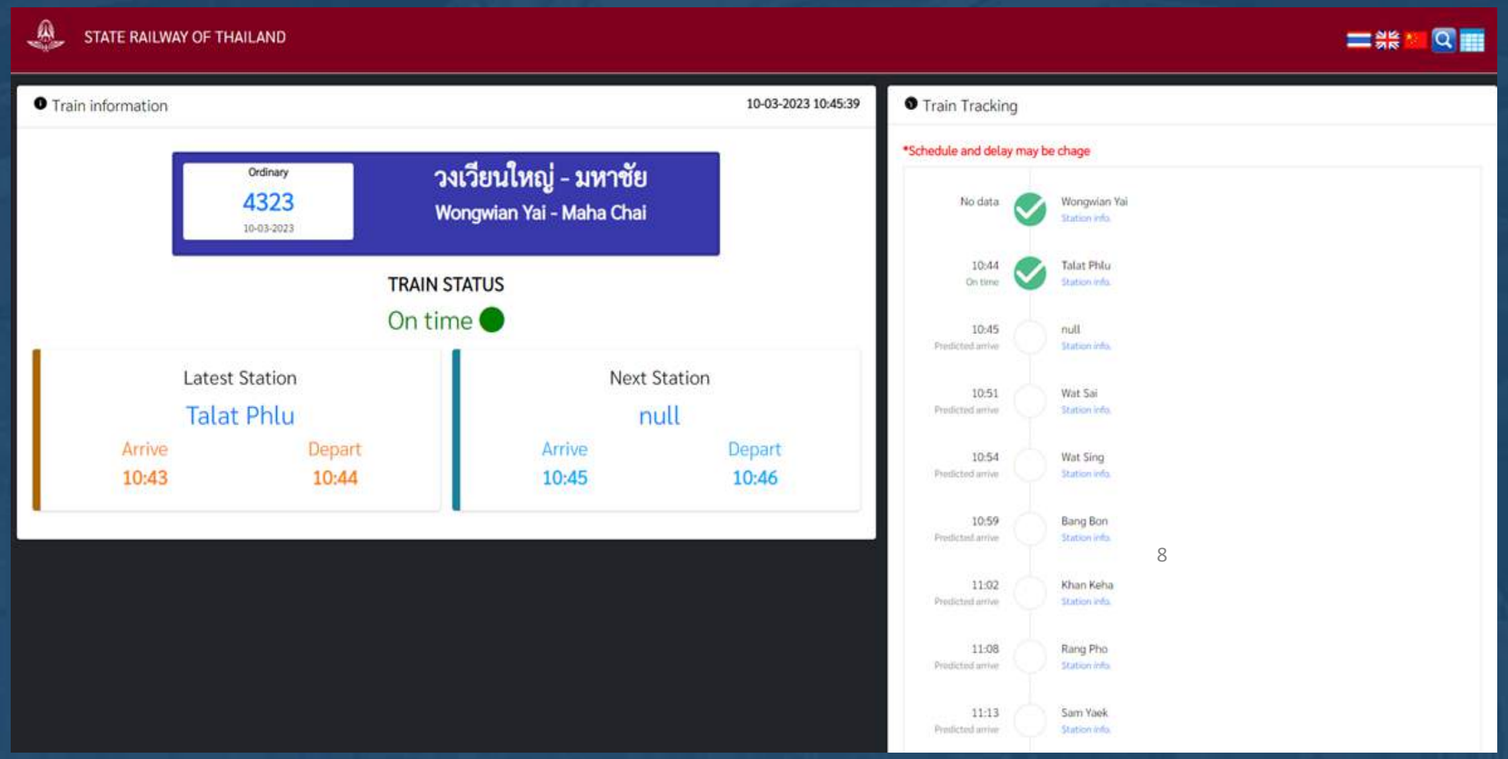


List of trains available on each route



Schedules, station details, and route maps

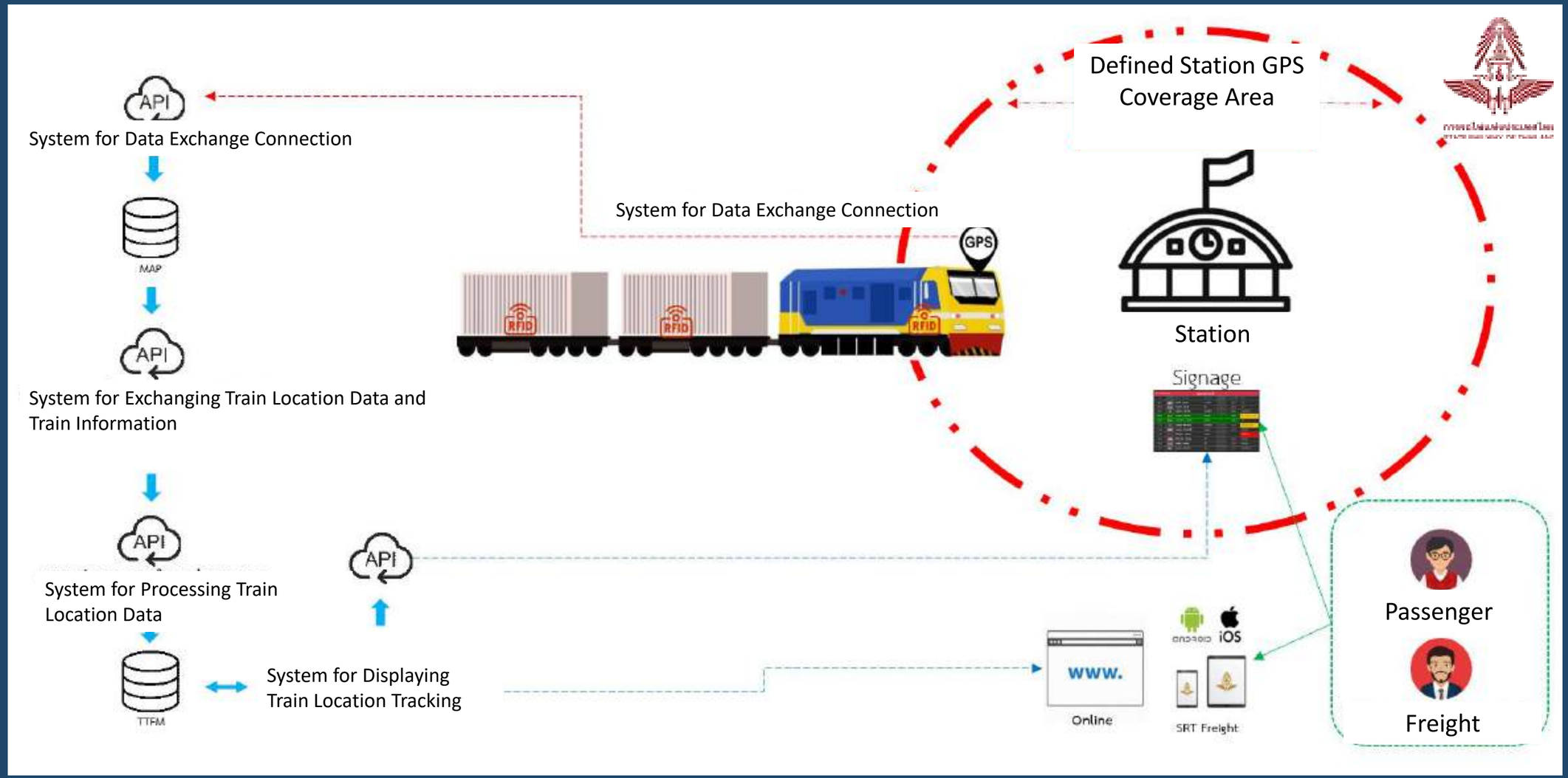
SRT Train Tracking System



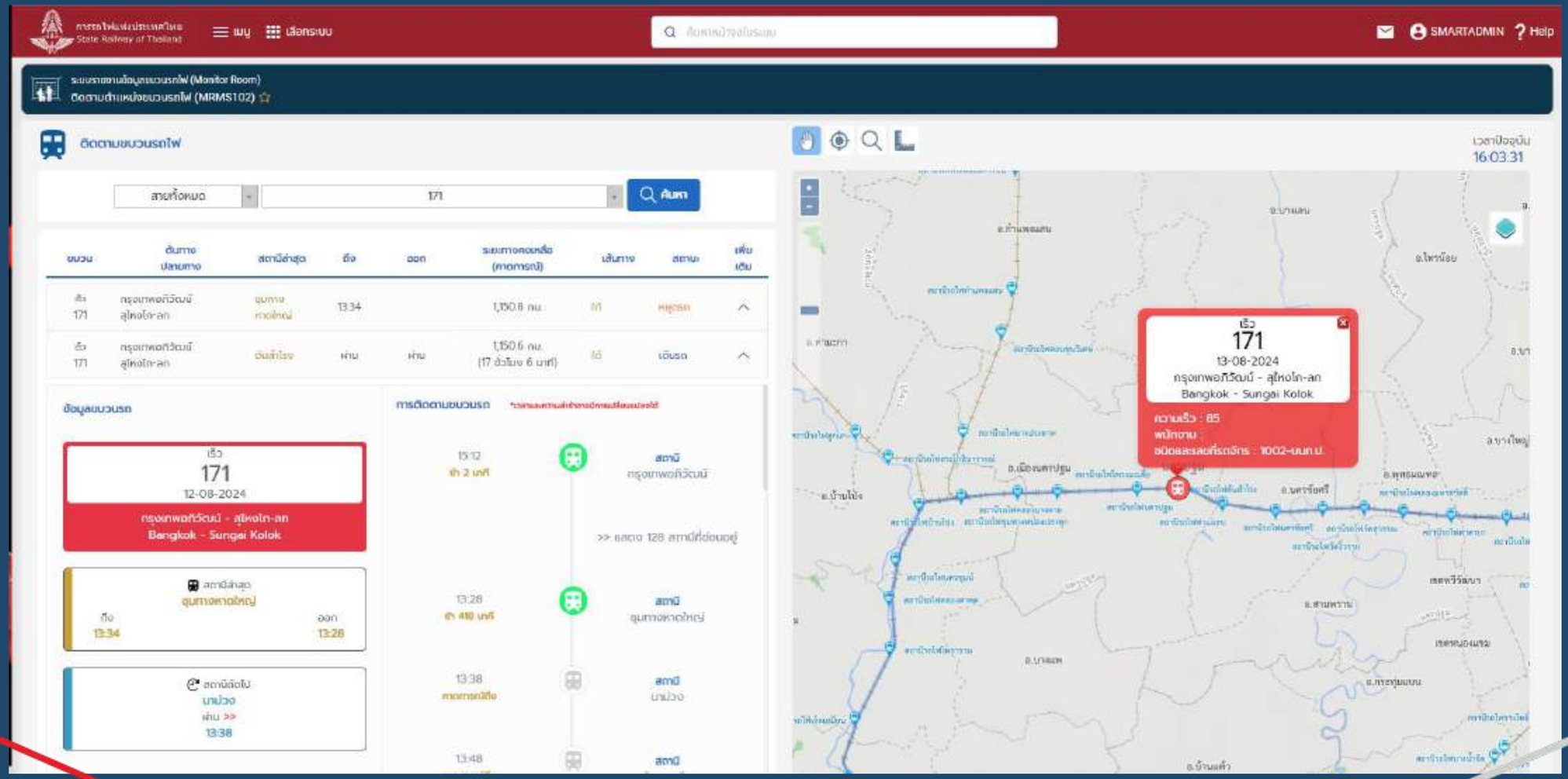
Stay Informed with the Intercity Train Tracking System

The Train Tracking System is revolutionizing rail travel by providing passengers with real-time information on the location of trains and passing stations.

Connecting Data from GPS Devices Installed on Train Locomotives



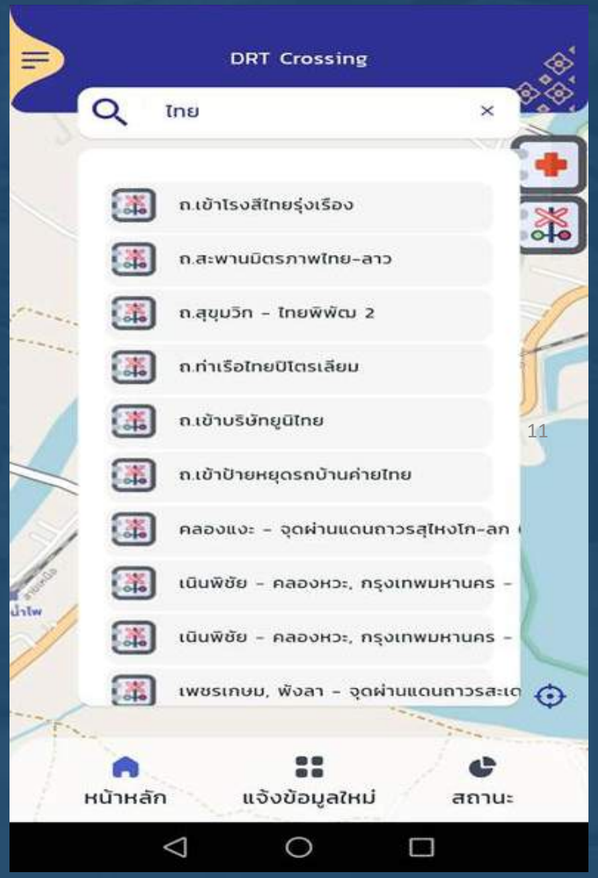
SRT Train Tracking System



Railway Application: DRT Crossing

Stay informed and safe with DRT Crossing, an app that provides critical information on railway intersections and accident reporting
DRT Crossing is an Application for checking railway Intersection and accident information, including notification of new intersections including reporting an accident and a broken device







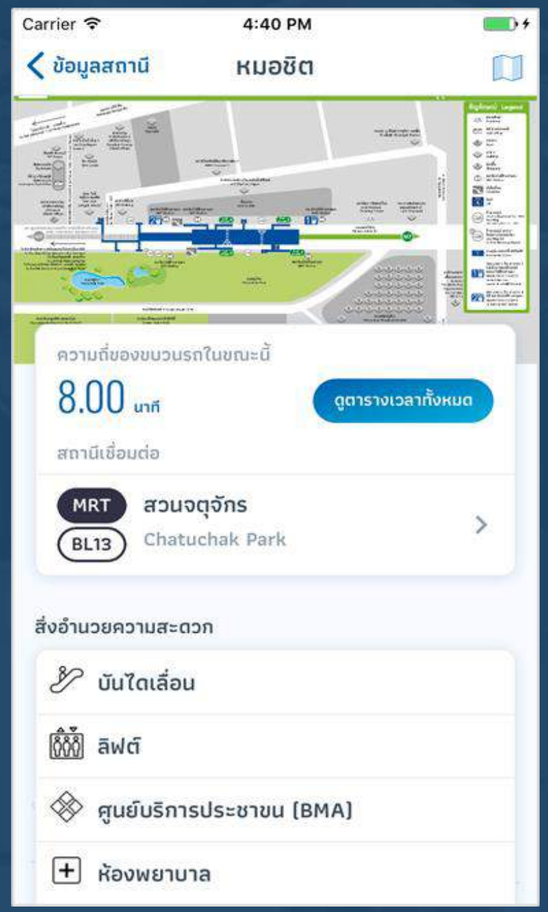


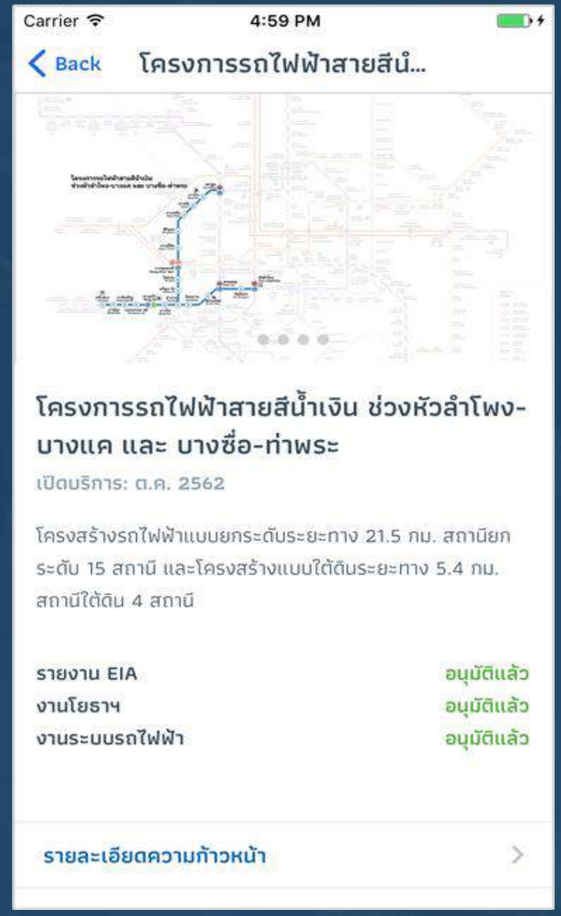
Railway Application: BKK Rail

Experience the ultimate convenience with BKK Rail, a mobile app created by the Ministry of Transport and Mahidol University for seamless rail travel
BKK Rail is an application giving services for people who travel by railway system in Bangkok and suburb.



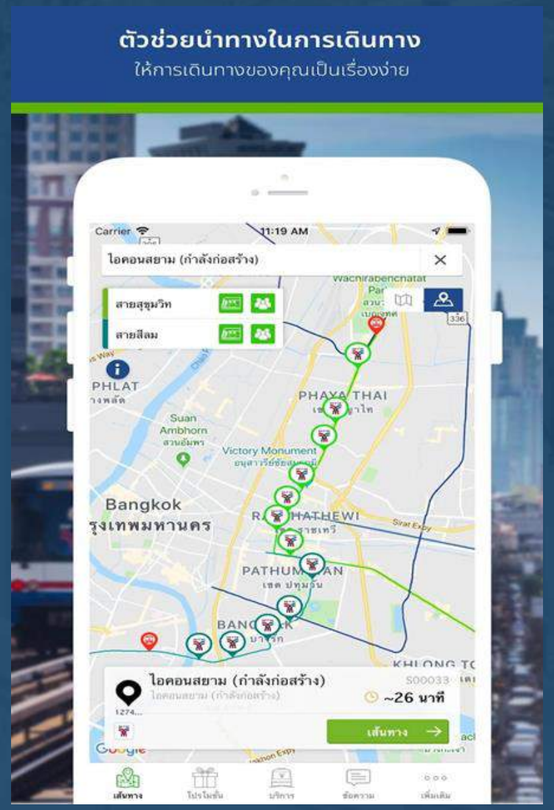


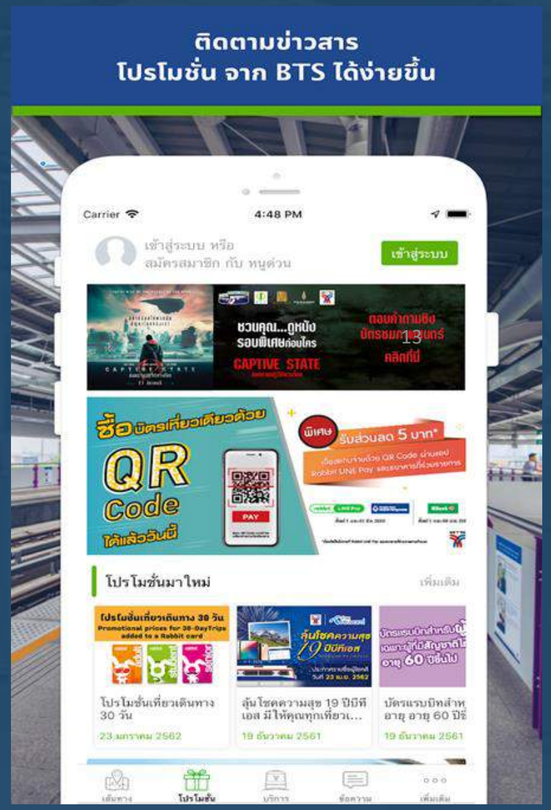


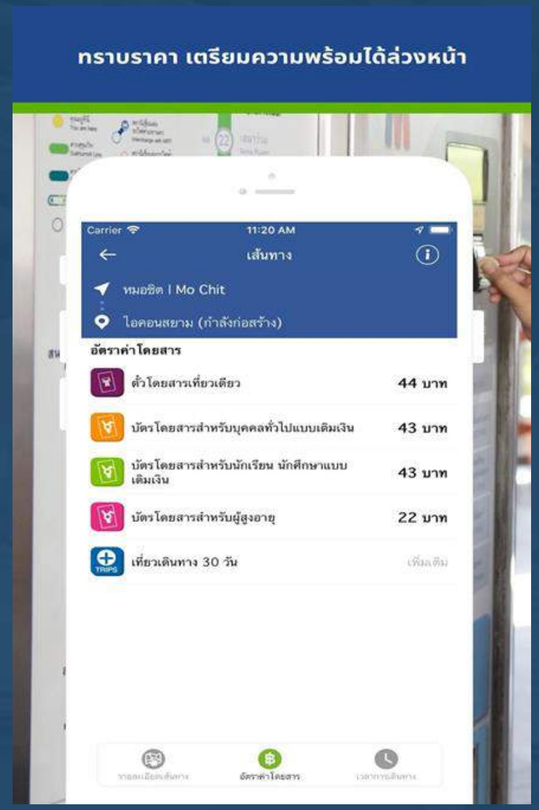


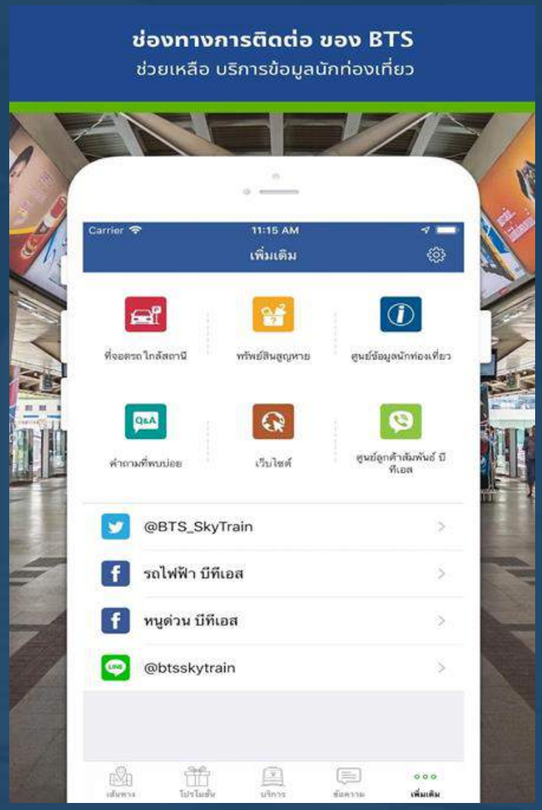
Railway Application: BTS Skytrain

Get the most out of your rail travel with the BTS Skytrain app, which offers cost calculation, travel modes, route planning, and AR technology
BTS Skytrain application is Travel applications that will help you calculate your travel expenses with BTS, including travel modes in various modes, as well as travel tips. In case you need to find a route. It has many functions such as traffic alerts. There is also an AR function for easy and convenient point-to-point access





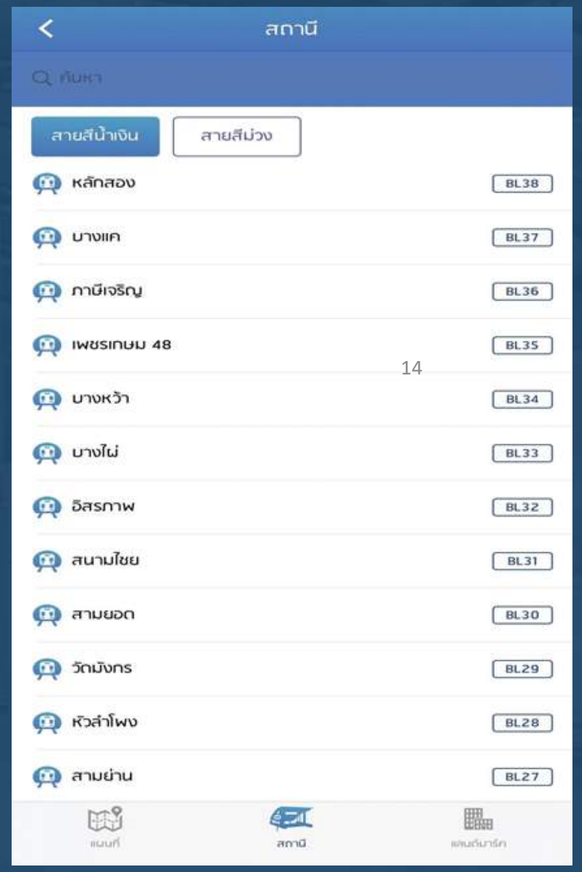


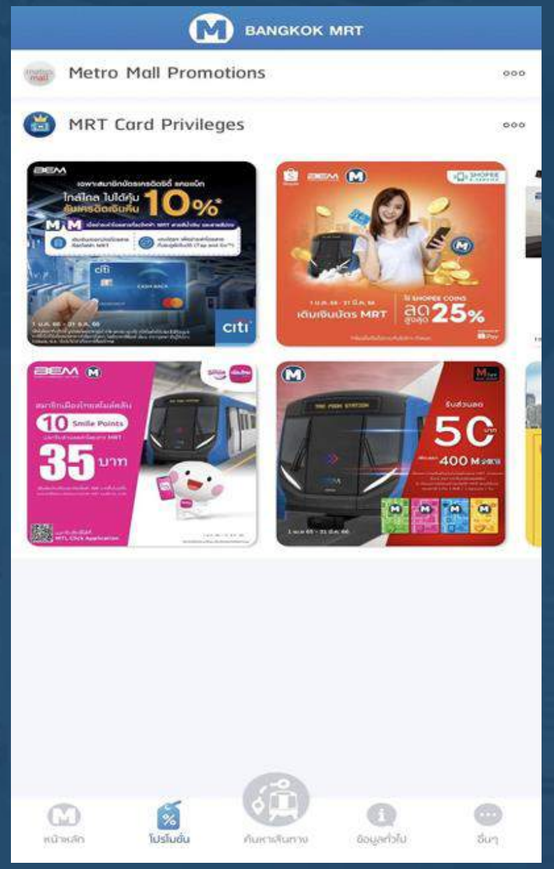


Railway Application: Bangkok MRT

Simplify your MRT travel with the Bangkok MRT app, which offers fare calculation, route details, traveling time, and last train timings
The Bangkok MRT Application is app for traveling on the Blue Line, Purple Line, and more. This app provides fare calculation, route details, traveling time, and last train timing, making your journey more convenient









EMV Contactless Payments

Experience the simplicity of EMV contactless payments, enabling make transactions on various rail lines. Simply spot the contactless symbol on your credit card and you're good to go! With EMV Contactless payment, you can now pay for MRT Blue Line, Purple Line, Red Line, and future Yellow Line and Pink Line rides in Bangkok with just a tap. This quick and easy payment method, making your travel experience more efficient and secure



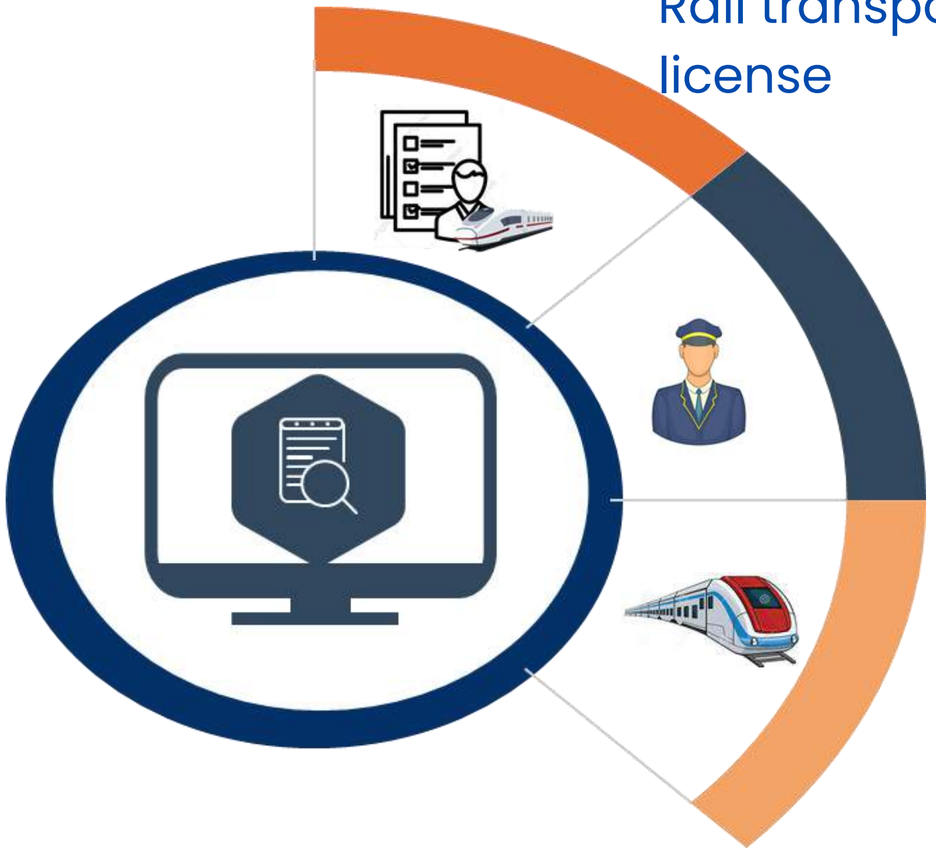






E-license for Railway

Discover how Thailand's government is promoting the use of digital technology for rail transport operators, train drivers, and the rail vehicle registration system



Rail transport operators license

Train Driver license

Rail vehicle registration

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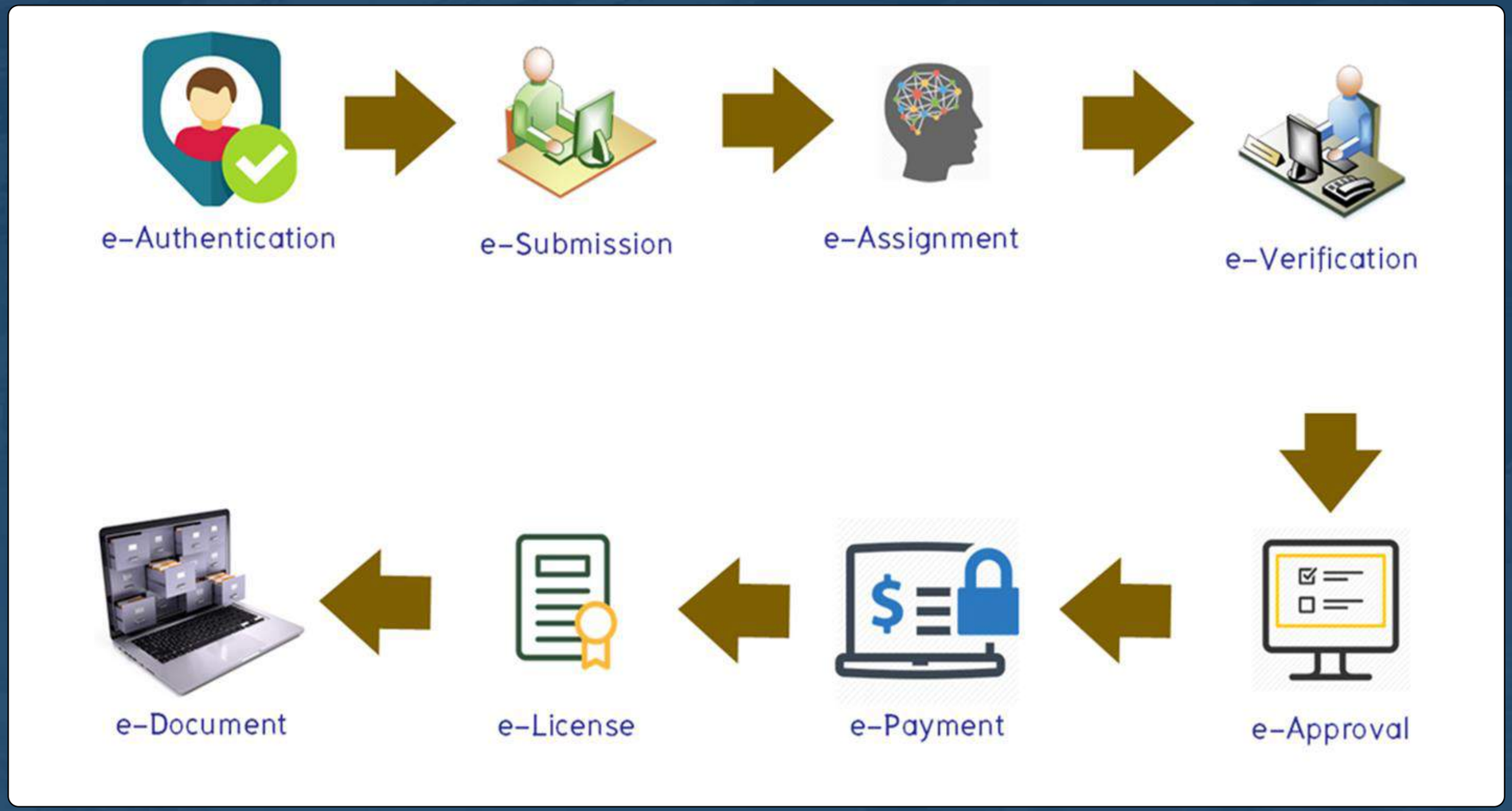
E-license for Railway

The process of obtaining an e-license for rail transport in Thailand



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