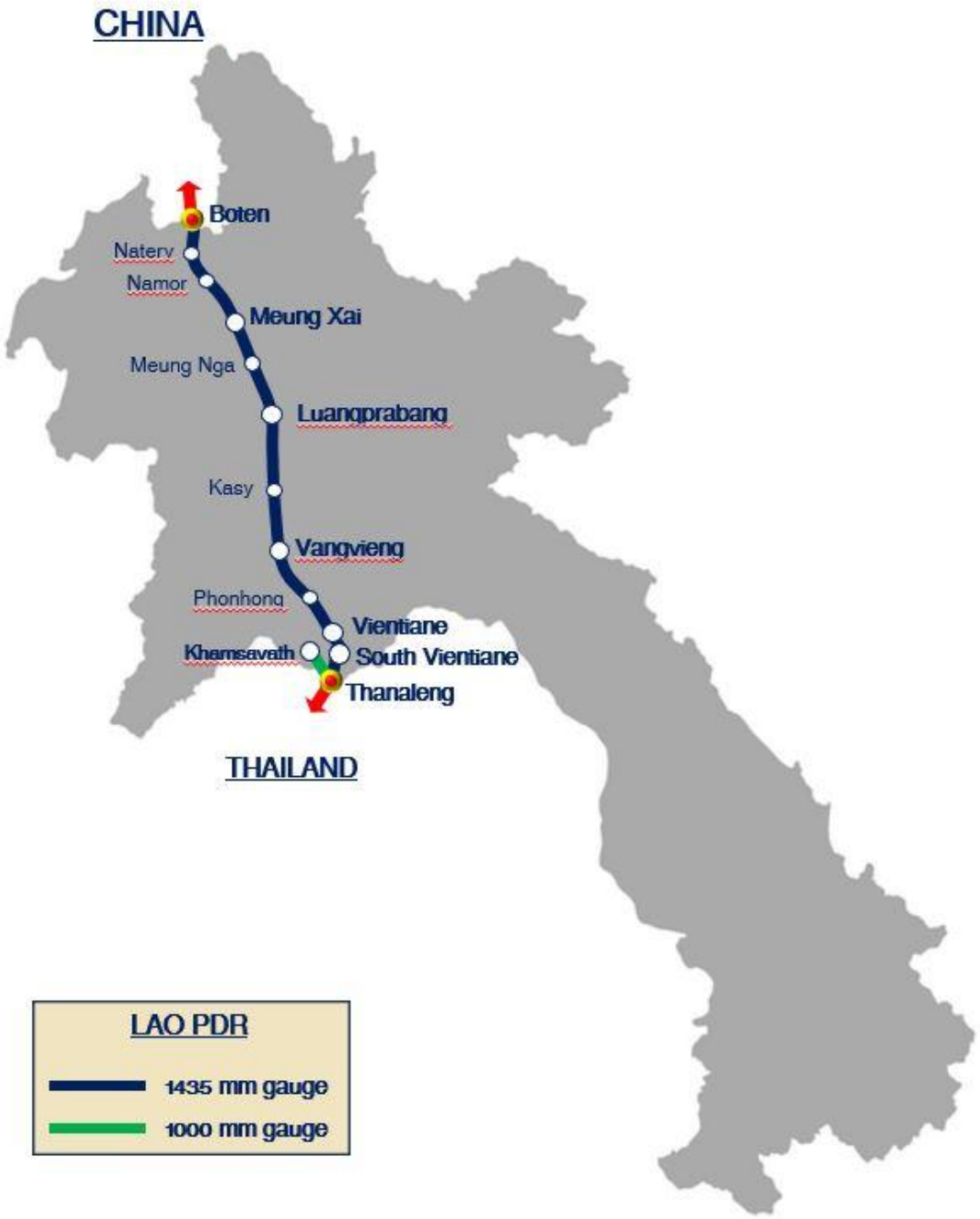


High-Level Meeting on Deepening Digitalization of International Rail Transport in Asia-Pacific

SESSION 1: RAIL DIGITALIZATION STRATEGIES AND POLICIES OF THE MEMBERS OF TRANS-ASIAN RAILWAY NETWORK

13–15 May 2025
Xi'an, China

Overview of Lao's Railway Operation



- **Lao-China railway line:** from Vientiane to Boten (Laos-China border), with a length of 422.44 km, using a standard gauge rail system and opened for service in December 2021.
  - For the transport passenger cross-border service was opened in April 2023

- **Lao-Thai railway line:** from Vientiane– Lao-Thai Friendship Bridge 1 (Lao-Thai border), length 11 Km, using a meter gauge rail system.

  - Pheas 1: from the Lao-Thai Friendship Bridge 1 (Lao-Thai border) connects to Thanaleng station (3.5 km), opened for passenger transport services since 2009 and rail freight transportation since 2019.
  - Phase 2: extended from Thanaleng to Vientiane Khamsavath station (7.5 km), As for the rail international passenger transportation service between Vientiane Khamsavath Station to Bangkok (Krung Thep Aphiwat Station, opened in July 2024.

Rail Transport Management in Lao PDR

Ministry of Public Works and Transport

Department of Railways

Lao national Railway Enterprise

Lao-China Railway Company

Current Status of Digital Services for Rail Transportation

Signal system between the station	Using the automatic block system that is employed in the mid-way between the stations
Stopping System	Using the automatic system
CCTV	Important places of the rail stations and railway line
Rail traffic control	Centralized controlling system

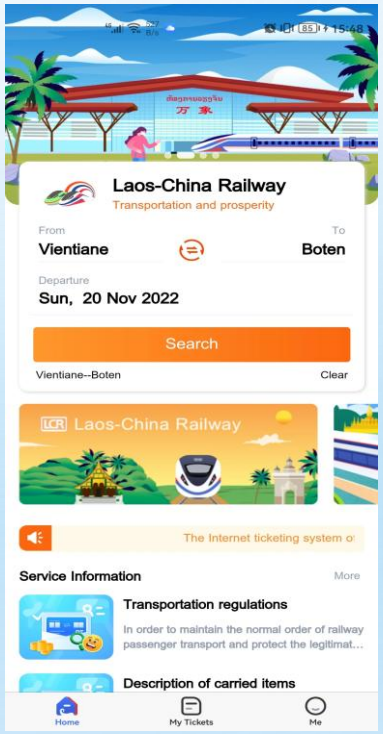
Current Status of Digital Services for Rail Transportation

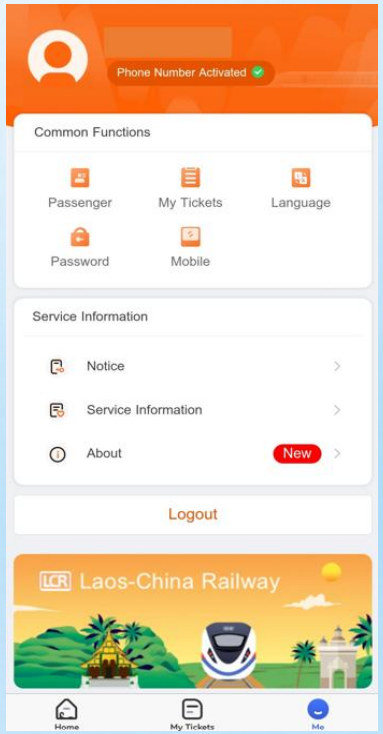
Railway Application

- Simplify your rail travel with the LCR Ticket APP, which offers fare calculation, route details, traveling time and route planning.
- There is also a function for easy and convenient point-to-point access

LCR Ticket APP









Development Plan for Rail Digital Transformation



❑ Lao's Digital Government Plan

National Digital Economy Development Strategy

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Ministry of Public Works and Transport, Development Plan to 2030

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Department of Railways, Development Plan to 2030

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Lao national Railway Enterprise Plan to 2030

Lao-China Railway Company Plan to 2030

Development Plan for Rail Digital Transformation



❑ Key Directions for Rail Digitalization

- Develop the operation center control for railway transportation and management.
- Develop and Upgrade platform application for management of railway operation.
- Increasing the level of digital technologies' implementation rail infrastructure, vehicles and in rail transport management systems.
- Collaboration with international organizations has also facilitated workshops and discussion best practices in rail digitalization.

Lao’s rail digital Challenges



1. Lack of information digital services for passengers.
2. there is the challenge of enhancing the digital skills of railway personnel.
3. Lack of funds for the development digital communication technologies, traffic management and signalling for rail.

THANK YOU
FOR YOUR KIND ATTENTION