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Analysis of the China-Lao PDR Railway Opportunities and Challenges of Mekong Logistics

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About STC Next



STC International, a member of STC Next, provides and transfers first-class maritime and logistics knowledge to people, institutions, and companies on a worldwide scale, increasing their level of education through courses, training, consultancy, and applied sciences.

- HQ in Rotterdam, with 6 country offices in Colombia, Brazil, Oman, Vietnam, Indonesia, and South Africa
- The latest projects in the region
 - Indonesia's Port SOE Advisor in Reducing Logistics Cost (2021)
 - Supporting Shift in Port Sustainability in Indonesia, Vietnam, Maldives (2022)
 - Training for Bangladesh's Inland and Waterway Department Officials (2021)
 - Indonesia SOE Port Training Center Establishment (2018)

Introduction

Background of China-Lao PDR Railway study

- Mekong Institute assigns STC Next to assist the Government of Yunnan Province:
 - Identify the current state of development, challenges, and opportunities
 - **Develop a country road map** that outlines strategies for developing railway infrastructure development
 - **Design the required training curriculum** for Yunnan government officials

Today's presentation

Identify opportunities and challenges in Mekong Logistics



Figure 1: Proposed China-Lao PDR-Thailand railway. Source: Nikkei, 2022

Review of Past Studies



2007: Greater Mekong Subregion (GMS) Transport Sector Study 2006-2015 2010: Connecting Greater Mekong Subregion Railways



G 2013: Mekong Forum 2013 Proceeding - Toward More Inclusive and Equitable Growth In GMS

2020: From Landlocked to Land-



2011: The Comprehensive Study on Logistics System in Lao PDR



Linked; Unlocking the Potential of Lao - China Rail Connectivity



2011: GMS Railway Strategy Study



Banomyong, et al (2019) The Impacts of Kunming-Bangkok expressway: Logistics Channel Analysis

China-Lao PDR Railway Project

Boten-Vientiane Railway

Connecting with Kunming in China, the Boten-Vientiane railway runs 409 km (254 miles) through landlocked Laos.



Figure 2: Railway maps of China-Lao Source: RFA, 2021



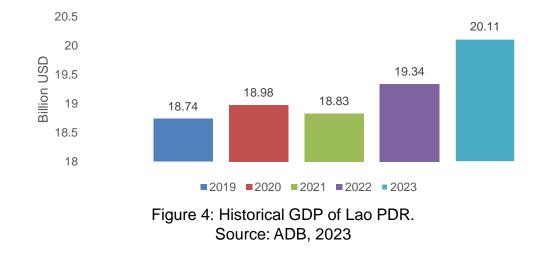
Figure 3: Fast train, freight train, and ordinary train. Source: Hobo Maps, 2022

Parameter	Value
Length	414 km
Station number	32 stations
Rail specification	single 1.435-metre standard- gauge track electrified mixed- traffic line is to be built to China's GB Grade 1 standards
Design speed	160-200 km/h for passenger 120 km/h for freight
Project duration	2016-2021
Cost	\$5.8 B (railway infrastructure) \$3.7 M (IT system and infra)
Financing scheme	BOT: 70% Chinese investment, 30% from Lao PDR

Table 1: Profile of the Project Source: Laotian Times, 2017

Current Economic Impact - Macroeconomics

- Chinese trade with the Mekong countries increased by 5% in 2021-2022 (the total trade value is \$471 B)
- First 5 months of 2023, the trade value between China and ASEAN rose to US\$360 B (an increase of 10% y-o-y, representing 15% of China's total foreign trade)
- **25 provinces** have launched freight services on the China-Lao PDR railway
- The cargo has been expanded to more than 1,200 types, with the main cargoes being electronics, photovoltaic products, and fruits
- The **GDP** of Lao PDR has increased by 2.7% in 2022 y-o-y. An increase of 4% is projected in 2023



 The increase in GDP is due to the rising trend of tourism. The railway operation will be the enabler. The tourism industry in Lao PDR accounted for a 10% share.

Current Economic Impact – Passenger and Cargo Transit

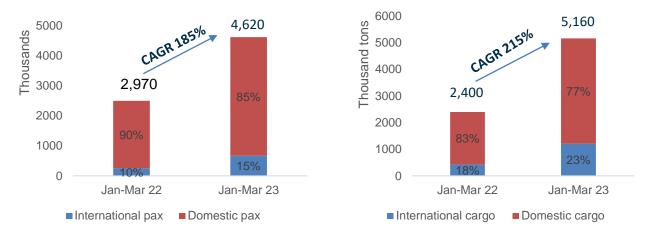


Figure 5: Increase in passenger and cargo traffic Consultant analysis based on data from CRI Online (2023)

Freight train trade flow	Cargo amount (tons)	Cargo type
China-Lao PDR	263,400	Daily life commodities, fertilizers, photovoltaic items, electronics, textiles, and vegetables
Lao PDR- China	813,100	Coix seeds, barley, rice, cassava flour, tapioca, as well as rubbers, metal ores such as iron ores, and zinc concentrates

Table 2: Trade profile of freight trains in 2022. Source: Kunming Customs (2023)

- The cross-border freight cargo has topped 4 million tons until April 2023, valued at US\$ 2.54 B
- Between Q1 2022 and 2023
 - the passenger increased 185% from 2.97 million to 4.62 million
 - The **freight** increased **215%**, from 2.4 million tons to 5.15 million tons
- In 2022, 200 freight trains passed the border bringing more than 1 million tons between China and Lao PDR
- China sent processed goods mostly. At the same time, Lao PDR shipped agriculture products and construction materials

Current Economic Impact – Agricultural sector



Figure 6: Imported fruits in Mohan railway station Source: In Kunming (2023)

- Freight trains reduced shipping costs by 30-40% compared to shipping the goods via road
- 23,000 tons of fruit were imported to China in early June 2023
- "Fruit train" has one daily trip from Lao PDR to Kunming, Chengdu, and Guangzhou
- An undergoing project of the **cold-chain warehouse** at Gallops
 International Land Port in Jinning, Kunming
- China accounted for 96% of durian export in Thailand (totaling US\$ 3 B trade value)
- Reduced logistics costs happened and lower the price of durian. It was reduced by 20% (40 yuan/kg) compared to the regular price, 50 yuan/kg (US\$ 8)
- The travel time has been reduced from 8-9 days to 4 days

Source: General Administration of Customs of China (2023); ADB (2023); China Daily (2023); Thai Ministry of Commerce (2022)

Opportunities

- Human resource development
 - A knowledge transfer platform from China to Lao PDR
 - Currently, Chinese investors have already trained more than 1,300 farmers in countries along the Mekong River to produce by the wishes and needs of Chinese consumers
- SEZ development in Lao PDR
 - Currently, Lao PDR has planned different SEZs in their regional
 - It attracted investments of more than 1000 companies with total investment expected to be US\$23 B
- Linking to Thailand railway
 - The first phase of the planned railway between Lao and Thailand is connecting Nong Khai to Bangkok. This is planned to be operated in 2028



Figure 8: Plan of SEZs in Lao PDR

Opportunities - Investment

Developer	Yunnan Haicheng Industrial Group Company Limited	
Main Contractors	Power Construction Corporation of China (PowerChina);	
	Sinohydro Corporation (Bureau 14, and possibly others), a	
	subsidiary of PowerChina.	
Area	1,640 hectares	
Status	Under construction	
Financier	Capital from Haicheng, loans via China Construction Bank and	
	Lao China Bank	
Cost	US\$ 10 B	
Concession length	90 years	
Registered	By 2022, there are 266 companies to invest with registered	
investors and	capital of US\$ 35	
tenants		



Table 2: Data of Boten SEZ

Figure 9: Boten SEZ

Opportunities - Investment

Developer	Amata Corporation Public Company Limited
Location	Luang Namtha Province
Groundbreaking Ceremony	January 2022
Area	Current: 410 Ha. Possibly to be expanded into 20,000 Ha
Potential tenants	Companies of China, Japan, Singapore and Thailand, such as Yokohama Industrial City or Japan External Trade Organization (JETRO)
Cost	US\$ 1 B
Prospective Tenants	logistics and warehousing, machinery, rubber and plastic products, food and beverage processing, chemicals and pharmaceutical



Figure 10: Groundbreaking ceremony of Natuey Smart Eco City and Industry

Table 3: Data of Natuey

Opportunities - Investment

Developer	Vientiane Logistics Park Co Ltd
Location	Ban Dongphosy
Opening	December 2021
Area	327 Ha
Allocation of business	Tank farm, commercial free zone development,
Cost	US\$ 727 M
Concession length	50 years
Traffic in 2022	11,000 containers. 80% comes from China to Lao PDR



Figure 11: Thanaleng Dry Port

Table 4: Data of Thanaleng Dry Port



- Unclear railway development plans on the Thailand side
 Different priority from central and regional governments (double track, meter gauge, narrow gauge priority)
- High financial dependency of Lao PDR to China, and potentially Thailand will, too 70% of the Lao PDR-China railway is a loan taken by the Lao PDR government to China The project costs 40% of Lao PDR GDP



















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