

# **GMS Regional Investment Framework (RIF) 2022 Third Progress Report and Update**

## **Transport Sector THAILAND**

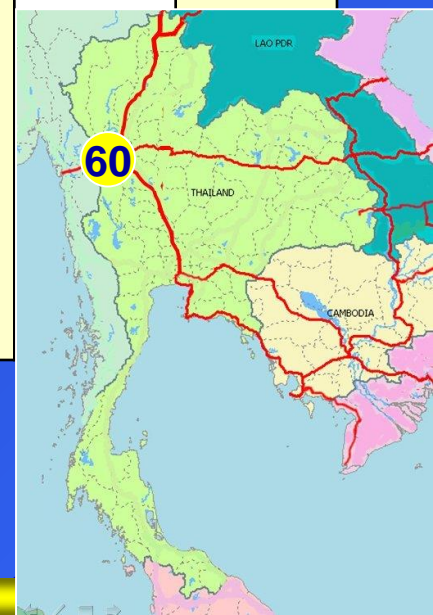
Reported at the 24<sup>th</sup> Meeting of the  
GMS Subregional Transport Forum (STF-24)  
21 January 2020



# TABLE A- I. INVESTMENT PROJECTS

## PROJECTS LISTED IN RIF 2022 THIRD PROGRESS REPORT AND UPDATE (continued)

No.	Project Title	Description	Year of Approval	Latest Cost Estimate (\$ million)	Latest Potential Funding Source and Amount (\$ million)	Status Updates	Key locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs
60	Mae Sot–Myawaddy Border Crossing Project and Infrastructure Improvements  (Border-crossing facilities)	This new crossing will be dedicated to cross-border freight traffic and will avoid the congested urban areas. The bypass will link with a newly envisioned special trade zone on the Myanmar side. The overall project will consist of about 21.4 km of new four-lane divided highway (16.745 km in Thailand, 3.895 km in Myanmar), a 760-meter-long bridge across the Moei River at the border, and associated border-crossing facilities (BCF).	2015	130.0	Government of Thailand—130.0	<ul style="list-style-type: none"> <li>- <b>Completed.</b></li> <li>- The construction project of the second Thailand-Myanmar Friendship Bridge crossing Moei/Thaungyin River between Thailand and Myanmar, including the border control facilities (BCF) and approaching roads in both sides have been completed.</li> <li>- <b>The official opening was on 30 October 2019.</b></li> </ul>	<ul style="list-style-type: none"> <li>• EWEC</li> </ul>	Cross border bridge with border-crossing facilities and 21.4 km. of 4-lane highway.



# The Official Inauguration of the Second Thailand - Myanmar Friendship Bridge Crossing the Moei/Thaungyin River

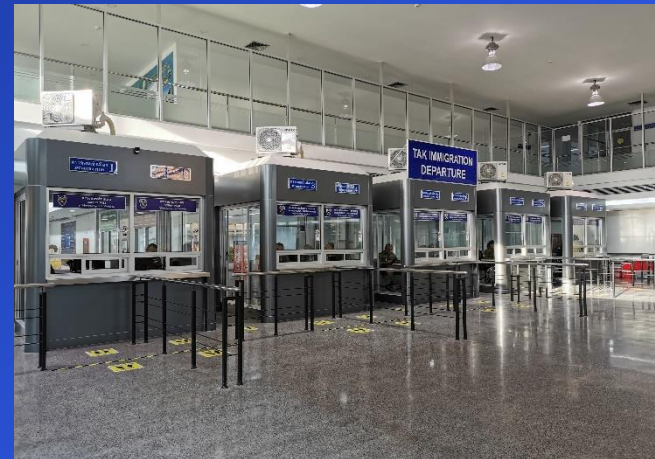
30 October 2019



Photos: Ministry of Transport



# The 2<sup>nd</sup> Thailand - Myanmar Friendship Bridge Across Moei/Thaungyin River



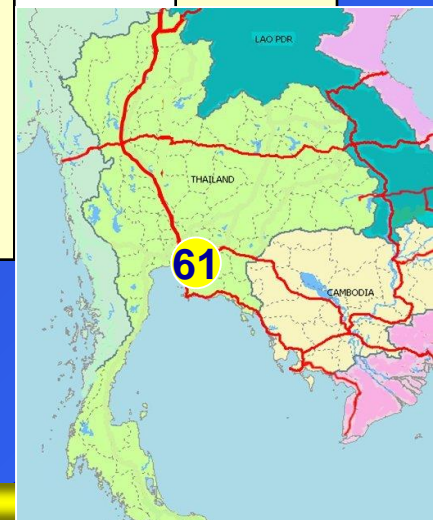
Photos: Department of Highways/MOT



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61	Single Rail Transfer Operator Development Project of Laem Chabang Port (Rail)	The proposed project will develop infrastructure and necessary facilities for serving the discharging and loading containers transported by rail to the port area. The project will facilitate rail transfer in response to the completion of the State Railway of Thailand's double-track construction project. It will increase the handling capacity of rail transport at the port from the current 500,000 TEUs/year to 1–2 million TEUs/year.	2018	90.0	Government of Thailand (PAT)— 90.0	<ul style="list-style-type: none"> <li>- <b>Completed.</b></li> <li>- The construction was already completed and the project is now being in the operation since 26 October 2018.</li> <li>- Currently, the project is under the process of e-bidding for selecting the private company to handle the operating activities and the PAT plans to install Rail Mounted Gantry Cranes (RMGs), and Rubber Tyred Gantry Cranes (RTGs) in 2022.</li> </ul>	Chonburi Province  SEC	The handling capacity of rail transport at the port from the current 500,000 TEUs/year to 1–2 million TEUs/year



# Single Rail Transfer Operator Development Project of Laem Chabang Port



Photo: Laem Chabang Port/PAT

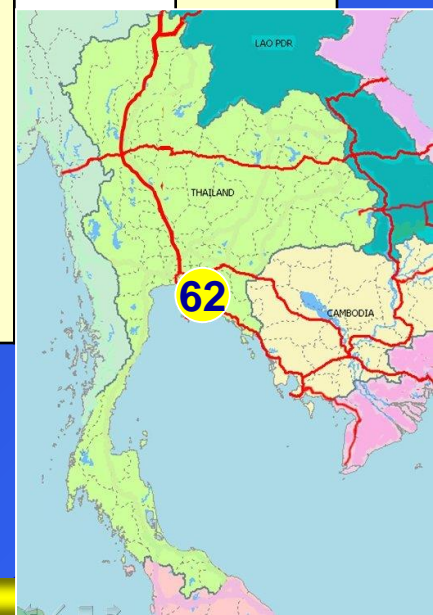


ADB

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62	Coastal Terminal Development Project of Laem Chabang Port  (Ports and waterways)	This project will reduce the logistics costs for exporters, importers, and logistics providers. The coastal terminal will serve domestic waterway transport through Laem Chabang Port.	2018	58.5	Government of Thailand (PAT)—58.5	<ul style="list-style-type: none"> <li>- <b>Completed.</b></li> <li>- The construction was completed.</li> <li>- The Terminal started operation in March 2020.</li> </ul>	Chonburi Province  SEC	The capacity of coastal terminal is 300,000 TEUs/year.



# Coastal Terminal Development Project of Laem Chabang Port



Photo: Laem Chabang Port

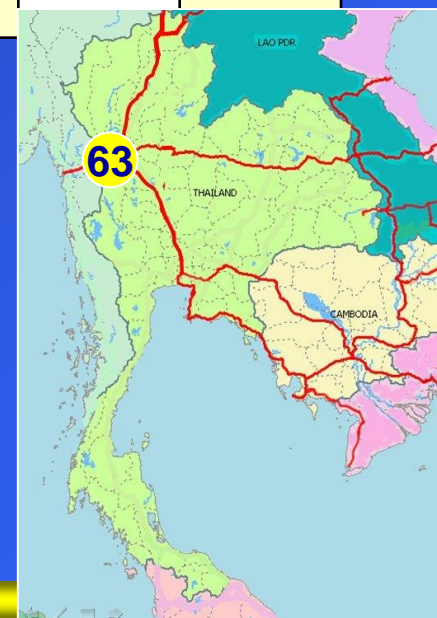




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63	Tak-Mae Sot Highway Improvement Project  (Roads and bridges)	The project will improve highway capacity on the EWEC in Thailand, specifically, the stretch of the corridor that connects with the Myanmar section at Myawaddy. It will upgrade the existing 86 km road from two to four lanes. Plan.	2008	100.0	Government of Thailand— 100.0	- <b>Completed</b>  - The project was completed in February 2020.	<ul style="list-style-type: none"> <li>EWEC</li> </ul>	86 km. of road to be upgraded from two to four lanes.



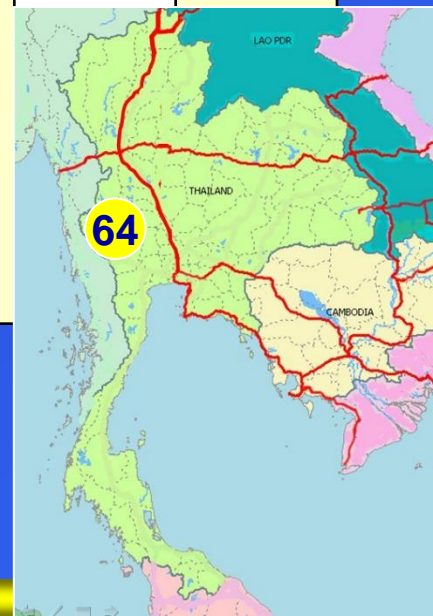
# Tak-Mae Sot Highway Improvement Project



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64	Bang Yai–Kanchanaburi Intercity Motorway Project (part of LaemChabang – Bangkok–Dawei [Myanmar] Corridor)  (Roads and bridges)	In addition to playing a strong national role, this expressway will be part of the LaemChabang–Bangkok–Dawei (Myanmar) highway corridor, linking the port at Laem Chabang with the proposed deepwater port at Dawei, and with Myanmar’s highway network, connecting with Mawlamyine and Yangon. The proposed expressway is an important component of Thailand’s National Highway Development Plan.	2015	1,600.0	Government of Thailand—1,600.0	<ul style="list-style-type: none"> <li>- <b>Ongoing.</b></li> <li>- As of Dec 2020, this project is under construction with estimated 45.94% progress.</li> <li>- Expected to be completed in 2021.</li> </ul>	<ul style="list-style-type: none"> <li>• SEC</li> </ul>	96 km. of intercity motorway to be constructed.

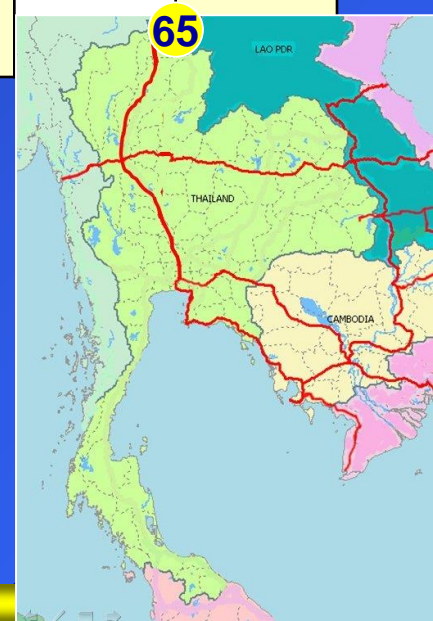




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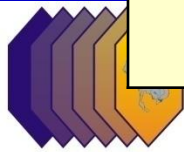
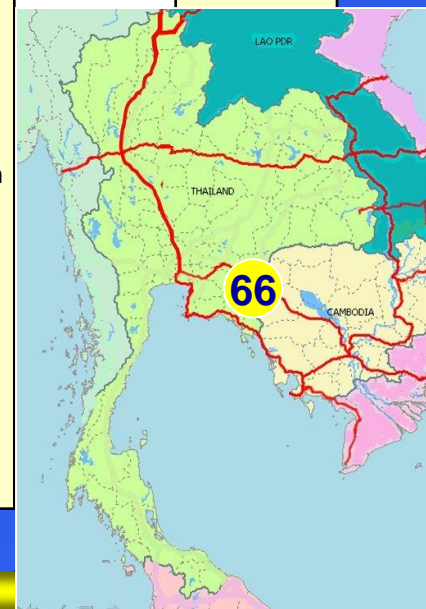
No.	Project Title	Description	Year of Approval	Latest Cost Estimate (\$ million)	Latest Potential Funding Source and Amount (\$ million)	Status Updates	Key locations and GMS Economic Corridor Alignment	Expected/Planned Measurable Outputs
65	Chiang Rai–Chiang Khong Highway Improvement Project  (Roads and bridges)	The project will improve highway capacity of the NSEC in Thailand. It will upgrade the existing 109 km road from two to four lanes.	2015	90.0	Government of Thailand—90.0	<ul style="list-style-type: none"> <li>- <b>Ongoing.</b></li> <li>- The first 61 km. construction has been completed.</li> <li>- As of Dec 2020, the new alignment road project of 48 km. length is under construction with 65.51% progress.</li> </ul>	<ul style="list-style-type: none"> <li>• EWEC</li> </ul>	61 km. of road to be upgraded from two to four lanes and 48 km. will be constructed in the new alignment.



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66	Aranyaprathet –Poipet New Road with Border-Crossing Facilities (Thailand part)  (Roads and bridges)	Recent discussions at the Prime Minister's office between representatives of Thailand and Cambodia have resulted in a general agreement regarding the location for a new Poipet–Aranyaprathet border crossing, this one specifically for freight traffic. Passenger traffic will continue to use the existing border crossing. The construction of Thailand's part of this new facility will consist of a 4.7km bypass road and a bridge over the Prom Hrod Canal	2015	30.0	Government of Thailand— 30	<p>- <b>Ongoing.</b></p> <ul style="list-style-type: none"> <li>- The bridge construction and 4.7 km. bypass road was completed. The Ceremony Marking the Completion of the Thailand - Cambodia Friendship Bridge (Ban Nong Ian-Stung Bot) was on 24 April 2019.</li> <li>- The border control facilities in both sides are under preparation process.</li> <li>- Phase 2 of the bypass road (25 km.) in Thailand part is under construction with 48.29% progress.</li> <li>- Overall project is expected to be completed in 2022.</li> </ul>	SEC	4.7 km. bypass road and bridge.



# The Ceremony Marking the Completion of the Thailand - Cambodia Friendship Bridge (Ban Nong Ian-Stung Bot)

24 April 2019



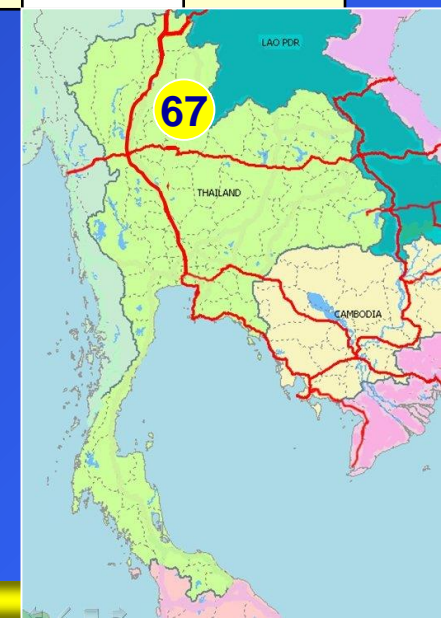
Photos: Ministry of Transport



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67	Lomsak–Phetchabun Highway Improvement Project  (Roads and bridges)	The project will upgrade the existing 92 km road from two to four lanes. The government budgeted for 11 km in the fiscal year (FY) 2016. The upgrading of the remainder is envisaged in the next five-year plan.	2016	220.0	Government of Thailand—220.0	<ul style="list-style-type: none"> <li>- <b>Ongoing.</b></li> <li>- The first 11 km. was completed</li> <li>- The remaining 81 km is awaiting approval.</li> </ul>	<ul style="list-style-type: none"> <li>• EWEC</li> </ul>	92 km. of road to be upgraded from two to four lanes.

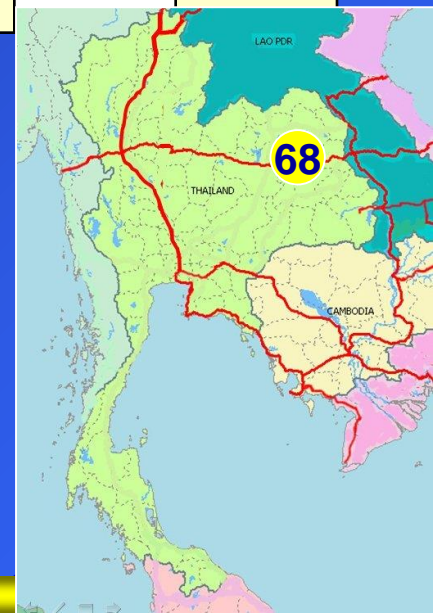




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68	Kalasin–Nakrai–Kamcha I Highway Improvement Project  (Roads and bridges)	The project will improve highway capacity of the EWEC in Thailand between Kalasin and Kamcha I. It will upgrade the existing 107.7 km road from two to four lanes.	2016	170.0	Government of Thailand—170.0	<ul style="list-style-type: none"> <li>- <b>Ongoing.</b></li> <li>- The Kalasin–Nakrai (71.4 km.) was completed in July 2019.</li> <li>- The Nakrai–Kamcha I (36.3 km.) is under construction with estimated 98.37% progress.</li> </ul>	<ul style="list-style-type: none"> <li>• EWEC</li> </ul>	107.7 km. of road to be upgraded from two to four lanes.



# Kalasin–Nakrai–Kamcha I Highway Improvement Project

The Kalasin–Nakrai (71.4 km.)  
completed in July 2019.



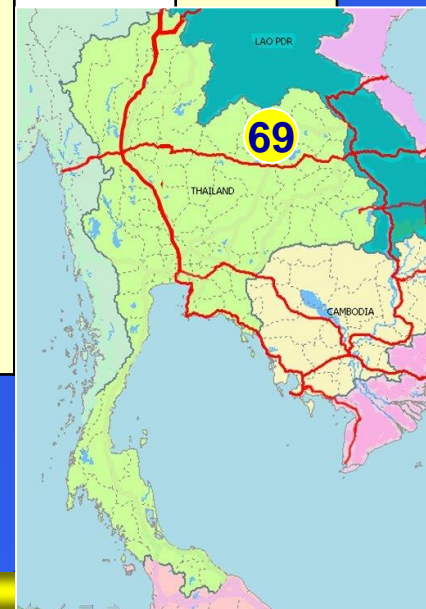
Photos: Department of Highways

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69	GMS Highway Expansion Phase 2 Project  (Roads and bridges)	The proposed project will (i) upgrade about 125 km. of a national highway in northeastern Thailand from a two-lane to a four-lane carriageway, and (ii) strengthen capacity in road safety management by introducing road safety audits and awareness training for the executing agency during project implementation.  The project consists of (i) A. Nong Han-A. Pang Khon (ii) Sakon Nakhon-Nakhon Phanom (iii) Roi Et – Yasothon	2017	213.6	ADB—99.4  Government of Thailand—114.2	- <b>Ongoing.</b>  - As of Dec 2020, overall progress is 93.43%	National Highway (NH) 22 and NH 23 Northeast Thailand  EWEC	125 km. of road Sections of NH 22 and NH 23 upgraded from two to four lanes; and Capacity in road safety management strengthened.



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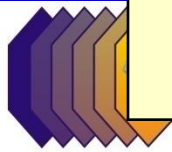
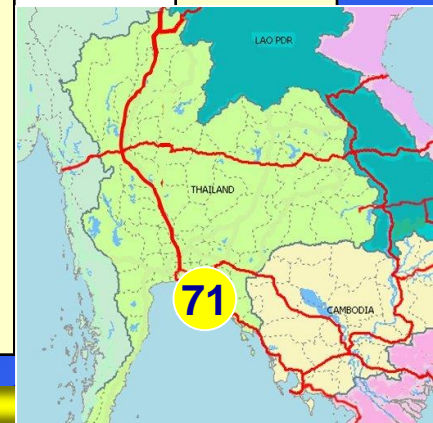
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70	National Railway Improvement  (Rail)	The proposed project will upgrade 2,476 km of a railway in Thailand from a single track to double track and eliminate all at-grade level crossing.	2018	12,192.3	Government of Thailand— 12,192.3	<ul style="list-style-type: none"> <li>- <b>Ongoing.</b></li> <li>- The first phase (993 km.) is divided into 7 sections. Two sections were completed.</li> <li>- The remaining 5 sections are under construction and are expected to be completed in 2023.</li> </ul>	NSEC EWEC	2,476 km. of double track railways



# TABLE A- I. INVESTMENT PROJECTS

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71	Laem Chabang Port Development Project, Phase 3  (Ports and waterways)	Projections of demand indicate that the total containers accommodated in Basin I and Basin II will exceed 10 million 20-foot equivalent units (TEUs) per year by 2018, while the maximum capacity of Basin I and Basin II together is approximately 11 million TEUs per year. Given these projections, the development of Basin III will be necessary to accommodate the increasing throughput and to strengthen the port's role as a gateway to the GMS. The proposed study will present technical and other options regarding the expansion of the port.	2018	3,000.0	PPP (Public Private Partnerships) Private Sector— 3,000.0	<ul style="list-style-type: none"> <li>- <b>Ongoing.</b></li> <li>- The Laem Chabang Port Phase 3 Development Project (Terminal F) is expected to start operating in fiscal year 2023.</li> <li>- Currently, the project is under the process of international bidding for selecting potential private terminal operators to participate in superstructures investment and operating terminal. The dredging of Terminal Basin is expected to start in 2021.</li> </ul>	Chonburi Province  SEC	The development of Basin III. We forecast the container will exceed 9.1 million TEUs within 2050, and LCP Phase III can accommodate to 10.2 million TEUs.



# Laem Chabang Port Development Project, Phase 3



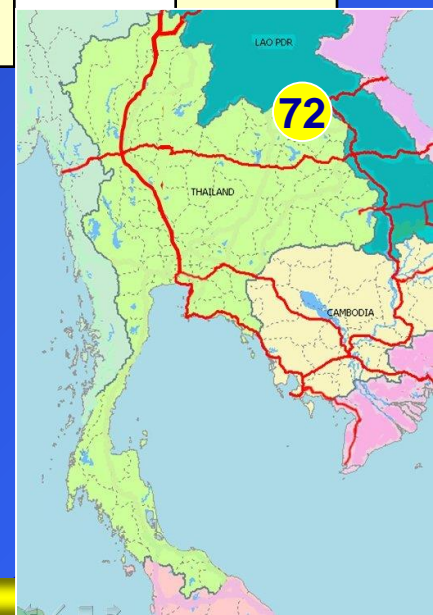
Photo: Laem Chabang Port



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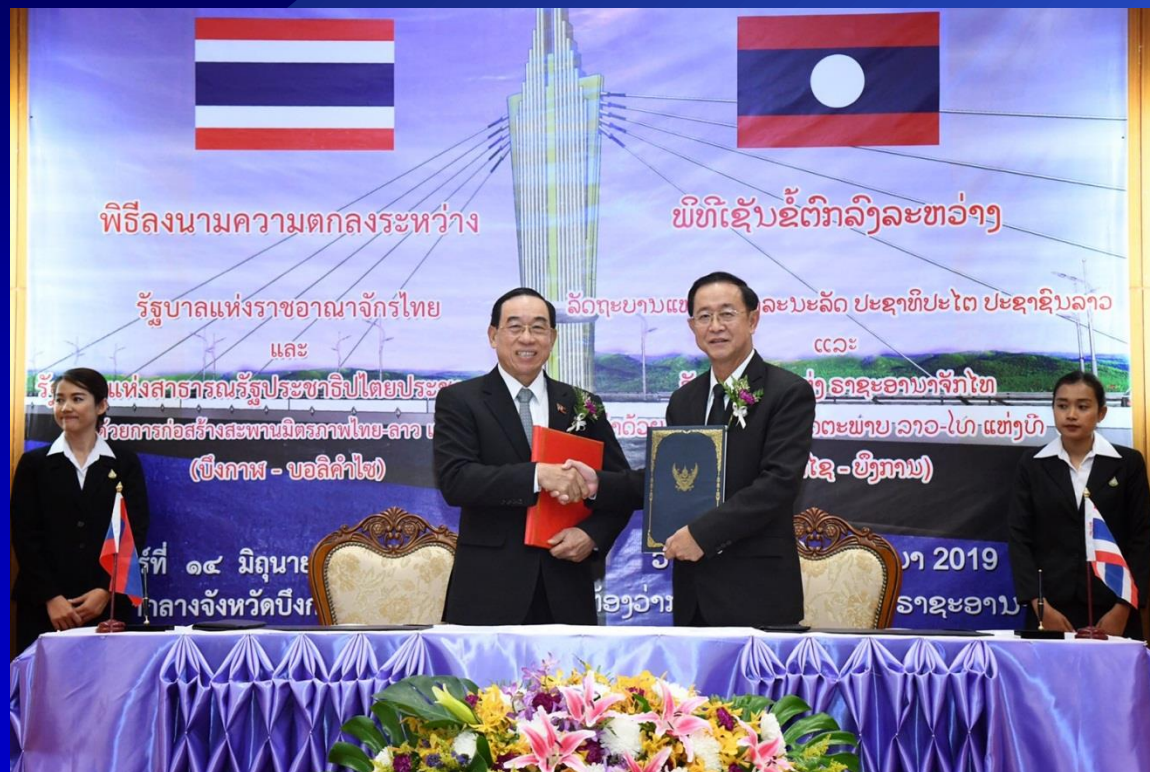
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72	Mekong Bridge at Bungkan—Paksan (Thailand Part)  (Roads and bridges)	This bridge will connect Amphoe Muang, Bungkan Province (Thailand) and Muong Paksan, Bolikhamxay Province (Lao PDR). It will facilitate the transport of goods and passengers from northeastern Thailand to central Lao PDR and central Viet Nam via NR8.	2019	88.0	Government of Thailand—88	<ul style="list-style-type: none"> <li>- <b>Ongoing.</b></li> <li>- The Construction Agreement signed on 14 June 2019.</li> <li>- The construction has begun in June 2020.</li> <li>- As of Dec 2020, overall progress is 1.456%</li> </ul>	<ul style="list-style-type: none"> <li>• Bungkan Province, Thailand and Bolikhamxay Province Lao PDR</li> <li>• NSEC</li> </ul>	16.18 km construction includes road and bridge.



# Signing Ceremony of the Agreement on the Construction of the 5<sup>th</sup> Thai – Lao Friendship Bridge (Bungkan – Bolikhamxai)

14 June 2019



Photos: Ministry of Transport



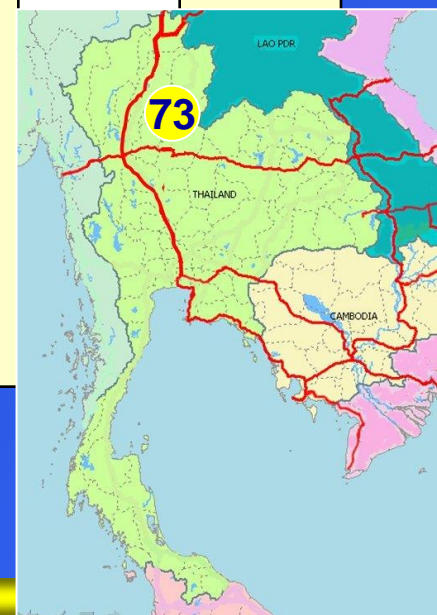
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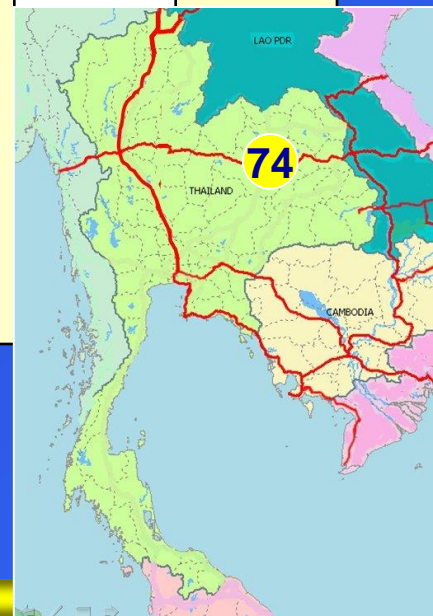
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73	The Construction of a New Railway Line from Den Chai to Chiang Rai and Chiang Khong  (Rail)	The construction of this new doubling track from Den Chai to Chiang Rai will diminish the country's logistics costs and fuel imports; enhance speed, convenience, and safety; and support integration with neighboring transport systems, such as those in the Lao PDR and southern PRC. It will also benefit development, especially in the northern provinces, such as Phayao, Phare, and Chiang Rai, which will lead to the country's overall economic growth.	2018	2,278.8	Government of Thailand — 2,278.8	<ul style="list-style-type: none"> <li>- <b>Proposed.</b></li> <li>- The F/S and detailed design are already completed and the cabinet approved the project on 31 July 2018.</li> <li>- The project is awaiting the announcement of the Royal Decree on Land Expropriation and is now under the bidding process.</li> </ul>	NSEC	326 km railway



# TABLE A- I. INVESTMENT PROJECTS

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74	The Construction of a New Railway Line from Baan Pai (KhonKaen) to Mahasarakham, Roi Et, Mukdahan, and Nakhon Phanom  (Rail)	The study showed that this proposed route should be built as a doubling track on the new alignment for the Baan Pai (Khon Kaen)–Mahasarakham–Roi Et–Mukdahan–Nakhon Phanom line. For the time being, the State Railway of Thailand is carrying out a detailed design study on the new route alignment, which will be able to link with the Thai–Lao Friendship Bridge No. 2, in Mukdahan, and the Thai–Lao Friendship Bridge No.3, in Nakhon Phanom.	2018	1,708.9	Government of Thailand — 1,708.9	<p>- <b>Proposed.</b></p> <p>- The F/S and detailed design are already completed and the cabinet approved the project on 28 May 2019.</p> <p>- The project is awaiting the announcement of the Royal Decree on Land Expropriation and is now under the bidding process.</p>	EWEC	355 km railway



# TECHNICAL ASSISTANCE PROJECTS



# TABLE A- II. TECHNICAL ASSISTANCE PROJECTS

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3	Study on Dry Port Development Plan along International Railway Lines Connecting Thailand with Cambodia, the Lao PDR, and Myanmar  (Cambodia, Lao PDR, Myanmar, Thailand)	<ul style="list-style-type: none"> <li>•Thailand aims to develop Laem Chabang Port as a gateway to neighboring countries in the GMS, and to promote a modal shift from road to rail transport.</li> <li>•Among the cross-border railway projects that are being emphasized by the GMS countries governments are: the Nong Khai–Thanaleng–Vientiane line, to connect with the Lao PDR; the Aranyaprathet–Klong Luk–Poipet line, to connect with Cambodia; and the Kanchanaburi–Dawei line, to connect with Myanmar.</li> </ul>	2018	0.5	Government of Thailand—0.5	<b>Completed.</b>  The study is completed in December 2018.	NSEC EWEC SEC	A completed study to help the countries in developing dry ports along railway lines

# Thank You

