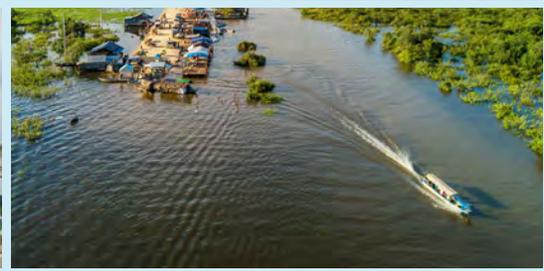




Greater Mekong Subregion
Economic Cooperation Program

Regional Investment Framework 2022: Fourth Progress Report and Update

November 2021





Greater Mekong Subregion
Economic Cooperation Program

Regional Investment Framework 2022:

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GMS SECRETARIAT

Southeast Asia Department
Asian Development Bank
6 ADB Avenue, Mandaluyong City
1550 Metro Manila, Philippines
Fax: +63 2 636 2226
E-mail: gms@adb.org

Web addresses:

<https://www.adb.org/countries/gms/main>
<https://www.greatermekong.org/>

To download report:

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Introduction and Overview of the Regional Investment Framework 2022

The Regional Investment Framework 2022 (RIF 2022) is a medium-term pipeline of priority projects in the Greater Mekong Subregion (GMS). It aims to operationalize the strategic thrusts and priorities of the GMS Program under the GMS Strategic Framework 2012–2022 and the Ha Noi Action Plan 2018–2022. The RIF 2022 was endorsed at the 22nd Ministerial Conference in Ha Noi, Viet Nam on 20 September 2017 and adopted during the 6th GMS Summit of Leaders on 31 March 2018 in Ha Noi. The RIF 2022 will be used to help align the regional and national planning and programming for GMS projects, and as a marketing tool to galvanize new financing for projects.

The RIF 2022 includes projects in the various sectors of GMS cooperation—transport, energy, agriculture, environment, health and other human resource development, urban development, tourism, transport and trade facilitation, information and communication technology (ICT), and other multisector or border economic zones. The pipeline includes projects funded by the Asian Development Bank (ADB) in the GMS, but also represents projects being funded by national governments, other multilateral and bilateral development partners, and those being developed by the private sector.

The GMS leaders directed officials of the GMS Program to ensure that the RIF is monitored and updated regularly. Following this directive, the RIF 2022 has been updated annually starting in 2018, with these progress reports endorsed by the GMS ministers. This *RIF 2022: Fourth Progress Report and Update* reflects updates and changes from November 2020 to October 2021.

Projects in the RIF 2022 have been generated through extensive consultations with GMS sector working groups, forums, as well as with the GMS national coordinators and secretariats in each of the GMS countries.



Thus, the RIF 2022 pipeline is presented by sector, noting the country coverage and estimated cost of financing for the whole project. Some projects have multiple country coverage, while some have other sector linkages. The complete RIF business process includes the following: (i) the GMS Secretariat (in ADB) coordinates the development of the annual RIF progress report, (ii) GMS national coordinators gather project updates from the line ministries and validate the proposed investment pipelines, (iii) ADB sector focal persons facilitate the discussions for the generation of new project proposals and project updates at the GMS annual or semiannual sector working group meetings, (iv) GMS national coordinators oversee projects in sectors without a designated working group, (v) GMS ministers endorse the annual updates to the RIF 2022, (vi) the GMS Secretariat disseminates the RIF 2022 updates and progress reports as reference for development and budget planning and for identifying financing with development partners.

In 2021, due to the continued travel restrictions arising from the coronavirus disease (COVID-19) pandemic, sector working group meetings and forums were convened as virtual events. Consultations were conducted as stand-alone virtual meetings and through additional bilateral communications between sector working groups, sector focals, and GMS national coordinators and secretariats. The virtual RIF consultations allowed direct dialogue on the projects between ADB sector focal persons, the GMS sector officials, and the GMS Secretariat. As a result of these discussions, several projects were recommended for dropping from the RIF pipeline, as these projects had not shown any indication of progress or likelihood of implementation in 2022, this being the last update of RIF 2022. A summary table of the retained RIF projects is included as Appendix 1. Full project details are published separately in the Annex to the Regional Investment Framework 2022: Fourth Progress Report and Update.



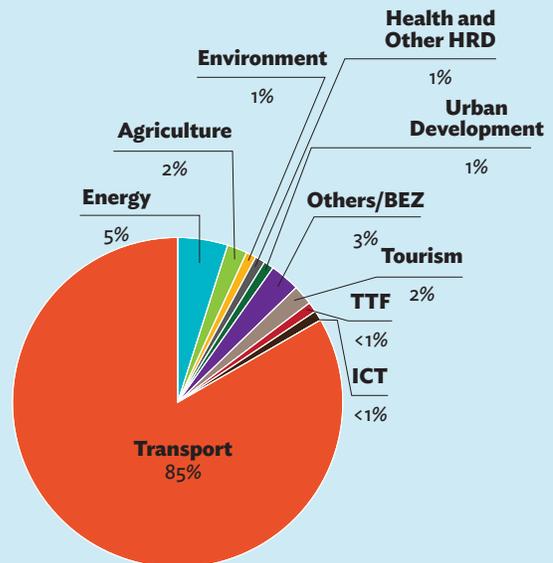
Regional Investment Framework 2022 Update 2021 (Fourth and Last)

After the revisions, the RIF 2022 Fourth Progress Report and Update now includes a total of 120 investment and 85 technical assistance projects requiring financing of \$77.6 billion. Of the required financing, \$59 billion has been identified as well as available and 130 of the projects are either completed or ongoing. Five projects were dropped as their implementation was unlikely to commence in the near-medium term of RIF 2022 (see Appendix 2). This reflects the project updates as of November 2021.

The transport sector projects traditionally comprise the largest sector by both the number of projects and their expected investment volume. Other sectors with significant investments are energy, agriculture, other multisector or border economic zones (BEZs), and tourism. The updated RIF 2022 composition and the relative share of each sector are shown in Figure 1 and Table on page 4.

The COVID-19 pandemic continued to cause delays in project implementation in some areas mainly due

Figure 1. Regional Investment Framework 2022 Fourth Update (2021), Percentage Share by Sector



BEZ = border economic zone, HRD = human resource development, ICT = information and communication technology, Lao PDR = Lao People's Democratic Republic, PRC = People's Republic of China, TTF = transport and trade facilitation. Source: GMS Secretariat.



Summary of Regional Investment Framework 2022 Fourth Update (2021), Breakdown by Sector

Sector	Investment		Technical Assistance		Total	
	Number of Project	Cost Estimate (\$ Million)	Number of Project	Cost Estimate (\$ Million)	Number of Project	Cost Estimate (\$ Million)
1 Transport	68	65,838.5	10	8.8	78	65,847.3
Cambodia	5	2,098.4				
PRC	4	15,166.0				
Lao PDR	21	16,042.4				
Myanmar	12	4,691.3				
Thailand	15	21,970.1				
Viet Nam	11	5,870.3				
2 Energy	8	3,841.6	4	10.4	15	3,852.0
3 Agriculture	11	1,843.8	9	60.8	22	1,904.6
4 Environment	5	653.2	4	38.3	9	691.5
5 Health & HRD	4	704.8	12	105.2	15	810.0
6 Urban Development	5	698.2	7	5.2	12	703.4
7 Other Multisector/BEZs	5	2,004.9	5	10.9	10	2,015.8
8 Tourism	12	1,581.6	20	80.1	32	1,661.7
9 TTF	2	75.3	6	17.7	8	93.0
10 ICT	0	0.0	8	4.3	8	4.3
Grand Total	120	77,241.9	85	341.7	205	77,583.6

BEZ = border economic zone, HRD = human resource development, ICT = information and communication technology, Lao PDR = Lao People's Democratic Republic, PRC = People's Republic of China, TTF = transport and trade facilitation.

Source: GMS Secretariat.

to enforcement of various health protocols and travel restrictions. However, overall project implementation moved ahead, with 42 projects with financing of \$3.3 billion reaching completion in the 2020–2021 reporting period. Some ongoing projects, such as the GMS Regional Health Security Project in Cambodia, Lao People's Democratic Republic (Lao PDR), Myanmar, and Viet Nam, and the Strengthening Regional Health Cooperation in the Greater Mekong Subregion technical assistance both provided ready platforms to quickly mobilize ongoing project funds to support the COVID-19 pandemic response.

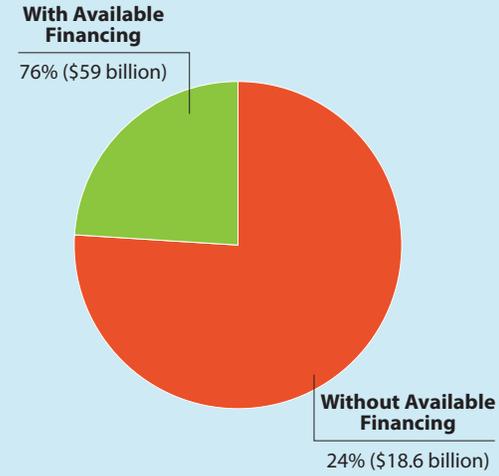


Funding the Regional Investment Framework 2022 and Assessment of Overall Progress

From the original RIF 2022 in 2017 and through its four progress reports up until 2021, the pipeline has shown gradual progress in projects with identified funding, project implementation, and project completion.

In 2017, project financing amounting to \$39 billion had been identified for RIF projects. By 2021, financing available for projects has increased to \$59 billion (Figure 2). This represents approximately 76% of the RIF financing needs by 2021 compared to 59% of project financing identified in 2017. Although several sectors have been successful at mobilizing financing for RIF projects, some sectors have large remaining funding gaps, namely: transport and trade facilitation (70% funding gap), tourism (74% funding gap), environment (79% funding gap), and ICT (no projects funded).

Figure 2. Regional Investment Framework 2022 Fourth Update (2021), Percentage of Total Project Cost Estimates by Financing Status

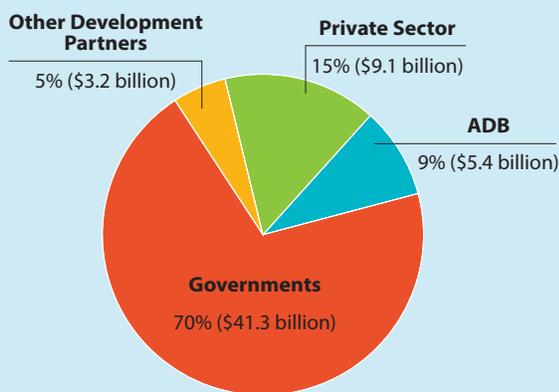


Source: GMS Secretariat.

The largest proportion of available financing (Figure 3) is still from the GMS government funding, which is 70%. Private sector financing has also grown from 8% of total financing in 2017 to 15% in 2021 (Figure 4). For example, financing from ADB’s private sector operations and the Japan Bank for International Cooperation



Figure 3. Regional Investment Framework 2022 Fourth Update (2021), Breakdown of Funding Sources for Projects with Available Financing

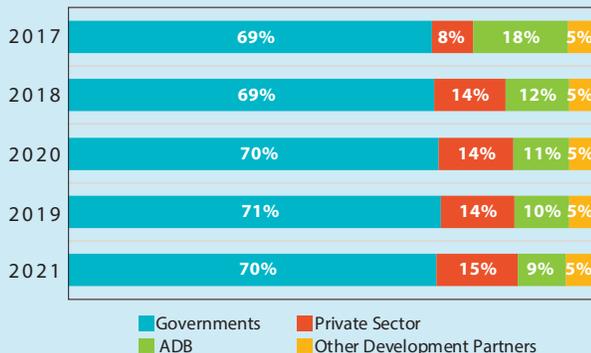


ADB = Asian Development Bank.
Source: GMS Secretariat.

catalyzed greater amounts of private sector funding for the Nam Ngiep 1 Hydropower Project, with \$564 million of the \$977 million total project cost mobilized from private sector investors. The transport sector has also seen an uptick in public-private partnership projects with several build-operate-transfer projects. However, private sector financing appears to be limited to transport and energy sector investments. There may be further opportunities for private sector financing in agriculture, tourism, and other multisector projects. Furthermore, there continue to be a growing number of multilateral, bilateral, and private sector partners supporting project finance in the RIF 2022 (Appendix 3).

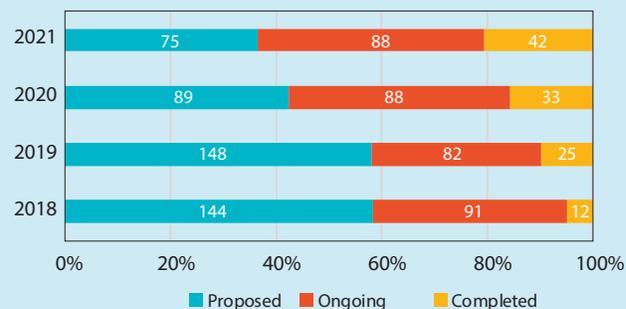
From 2017 to 2021, there has also been gradual progress in the overall number of completed or ongoing projects (Figure 5). At the time of the *First Progress Report and Update* in December 2018, 42% of projects were reported completed or ongoing, and 58% of projects were still proposed and had not commenced implementation. By 2021, the balance

Figure 4. Historical Value of Available Financing, Breakdown by Source, 2017-2021



ADB = Asian Development Bank.
Source: GMS Secretariat.

Figure 5. Regional Investment Framework 2022 Status of Implementation of Projects, 2018-2021



ADB = Asian Development Bank.
Source: GMS Secretariat.



had shifted to about 63% of projects completed or ongoing, with 37% of projects still proposed. Notably, 42 projects, or 20% of the projects, were completed by 2021 (Appendix 4). By funding volume, \$59 billion of funding, or 76% of the total cost estimate has been secured for projects that are completed or ongoing.

By the *Fourth Progress Report and Update*, the sectors that have progressed well (with the more than 50% of projects reported as completed or ongoing) are transport, energy, health and other human resource development, urban development, other multisector and BEZs, and

transport and trade facilitation. The tourism sector, with 16 out of 32 projects completed or ongoing, and the environment sector, with 4 out of 9 projects completed or ongoing, are also progressing well. However, there are opportunities to put further focus and accelerate funding and implementation for the agriculture and ICT sectors, which are lagging with still a high proportion of projects proposed but not yet implemented. Of the 22 outstanding projects in the transport sector that have not commenced or completed implementation 12 are proposed in Lao PDR, indicating that further focus is also needed in the transport sector in Lao PDR.





Way Forward

The RIF 2022 *Fourth Progress Report and Update* will be the last update of the RIF 2022 under the current GMS Strategic Framework 2012–2022 and the Ha Noi Action Plan 2018–2022. In September 2021, the GMS leaders adopted the new GMS Economic Cooperation Program Strategic Framework 2030 (GMS 2030). A new pipeline of projects will be developed in line with the principles of GMS 2030.

While projects from RIF 2022 may be carried over, the new pipeline will use new criteria for quality infrastructure to raise the standards, viability, and sustainability of GMS projects.

The new pipeline will emphasize project quality, sustainability, and advancing gender equality and social inclusion. The program will be revised and strengthened to raise the standards for project inclusion to increase its attractiveness to development partners and the private sector with respect to project readiness, economic and social returns, and adherence to good environmental and social practices and project management standards.





Appendices

Appendix 1. Summary of Projects in Greater Mekong Subregion Regional Investment Framework 2022 Fourth Update

Transport CAMBODIA

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
INVESTMENT PROJECTS						
1.	Sihanoukville Port Access Road Improvements	Cambodia	2017	5.0	Government of Cambodia (National Budget)	Completed
2.	Establishment of Bus/Truck Driving Test Center	Cambodia	2017	10.0	Private Sector	Completed
3.	Cambodia: Poipet–Border Bridge/ Aranyprathet (6.5 km)	Cambodia	2016	6.5	Government of Cambodia	Completed
4.	Phnom Penh–Sihanoukville Expressway Project (formerly Phnom Penh–Sihanoukville Highway Corridor Improvements)	Cambodia	2016	2,000.0	PRC Private sector	Ongoing
5.	Road Network Improvement Project (formerly GMS: Deepening Connectivity of Southern Economic Corridor Project)	Cambodia	2017	76.9	ADB—70.0 Government of Cambodia—6.94	Ongoing
Subtotal (Transport Investment Projects: Cambodia)				2,098.4		

ADB = Asian Development Bank, GMS = Greater Mekong Subregion, PRC = People's Republic of China.
Source: GMS Secretariat.

Appendix 1 continued

PEOPLE'S REPUBLIC OF CHINA

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
INVESTMENT PROJECTS						
6.	Dali–Ruili Railway	PRC	2006	4,008.0	Government of PRC	Ongoing
7.	Rehabilitation of the Ning'er–Jiangcheng–Longfu Road (part of Yunnan Pu'er Regional Integrated Road Network Development Project)	PRC	2014	589.5	ADB—200.0 Government of the PRC—389.5	Ongoing
8.	Yuxi–Mohan Railway	PRC	2014	7,912.5	Government of the PRC	Ongoing
9.	Jinghong–Daluo Expressway	PRC	2016	2,656.0	Government of the PRC	Proposed
	VIE: Lao Cai–Hekou 154 km PRC: Hekou–Lao Cai 249 km	PRC	TBD	*Cost Estimate and count of project is under Viet Nam to avoid double counting.	ADB	
Subtotal (Transport Investment Projects: PRC)				15,166.0		

ADB = Asian Development Bank, km = kilometer, PRC = People's Republic of China.
Source: GMS Secretariat.

LAO PEOPLE'S DEMOCRATIC REPUBLIC

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
INVESTMENT PROJECTS						
10.	Hongsa (Xayaboury)– Chomphet (Luang Prabang) Construction (114 km)	Lao PDR	2015	56.0	NEDA Thailand	Completed
11.	The Capital City Vientiane to Vang Vieng Section of Lao PDR Capital City Vientiane to PRC Mohan Port Highway Project	Lao PDR	2017	1,300.8	Government of the PRC	Completed
12.	Vang Tao Border–Crossing Point	Lao PDR	2013	15.0	Government of the Lao PDR	Ongoing

Continued on next page

Appendix 1 continued

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
13.	Vientiane–Boten Railway Project (426 km)	Lao PDR	2016	5,800.0	Government of the PRC— 4,060.0 Government of the Lao PDR —1,740.0	Ongoing
14.	Thanalaeng–Nong Khai Railway Extension Project (7.5 km)	Lao PDR Thailand	2016	31.6	Government of the Lao PDR and NEDA Thailand—31.6	Ongoing
15.	NR13 Improvement and Maintenance Project (Vientiane to Phon Hong)	Lao PDR	2017	128.0	World Bank (International Development Association credit)—40.0 NDF—9.5 AIIB— 40.0 Government of the Lao PDR—38.5	Ongoing
	Mekong Bridge at Bungkan–Paksan (with Thailand)	Lao PDR Thailand	2018	Cost estimate is under Thailand to avoid double counting.	NEDA Thailand	
16.	Luang Namtha– Xiengkok–Lao PDR–Myanmar Friendship Bridge (NR17)	Lao PDR	TBD	167.0	Government of India—167.0	Ongoing
17.	Mekong Bridge at Luang Prabang	Lao PDR	2020	Not available	NEDA Thailand	Ongoing
18.	Upgrading 13S (portion Savannakhet Province to Bolikhamxay) (253 km)	Lao PDR	2020	200.0	World Bank—25.0 AIIB—114.0 EIB—35.0 NDF—5.0 Government of Lao PDR—15.0 TBD—6.0	Ongoing
	Houei Sai River Port (a component of Second GMS Corridor Towns Project in urban development sector)	Lao PDR	2020	Count and Cost estimate listed under the Second GMS Corridor Towns Project in Urban Development Chapter to avoid double counting	ADB	

Continued on next page

Appendix 1 continued

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
19.	Xiengkok River Port	Lao PDR	TBD	15.0	Government of the PRC	Proposed
20.	Thanaleng Border-Crossing Infrastructure Improvement Project	Lao PDR	TBD	25.0	TBD	Proposed
21	Upgrading of NR8 East-West Transport Route; ASEAN Highway AH15 (Ban Lao-Nam Phao)	Lao PDR	TBD	196.0	KOICA supported the feasibility study and the World Bank is developing a prefeasibility study.	Proposed
22.	Luang Prabang-Dien Bien Phu (107 km section Phu Thi; Pheung-Na Sone/Lao PDR-Viet Nam Border)	Lao PDR	TBD	90.0	Government of Viet Nam	Proposed
23.	Phiafay-Attapeu: NR18A (106 km parts of ASEAN Highway: AH132) East-West Transport Route	Lao PDR	TBD	130.0	The Netherlands Government (RVO & FMO) funded technical and project costing	Proposed
24.	Vientiane-Thakhek-Mu Gia Railway Project (452 km) Mu Gia-Vung Ang (103 km)	Lao PDR Viet Nam	TBD	TBD	Seeking financing For Possible PPP	Proposed
25.	Savannakhet-Lao Bao Railway Project (220 km)	Lao PDR Viet Nam	TBD	TBD	Seeking financing for feasibility study	Proposed
26.	Dak Chung Border-Crossing Point (NR16)	Lao PDR	TBD	10.0	Seeking Financing	Proposed
27.	Pakbeng River Port (Oudomxay Province)	Lao PDR	TBD	13.0	Government of the PRC	Proposed
28.	Khokchong River Port (same as Luang Prabang River Port)	Lao PDR	TBD	15.0	Government of the PRC	Proposed
29.	Vientiane-Ha Noi Expressway Project (Portion from Vientiane to Nam On-335 km)	Lao PDR Viet Nam	TBD	4,250.0	JICA	Proposed
30.	New Highway Construction Project (Boten, Luang Namtha Province, Lao PDR to Houay Xai, Bokeo Province, Lao PDR)	Lao PDR	TBD	3,600.0	Private Sector (BOT scheme)	Proposed
Subtotal (Transport Investment Projects: Lao PDR)				16,042.4		

ADB = Asian Development Bank, AIIB = Asian Infrastructure Investment Bank, ASEAN = Association of Southeast Asian Nations, EIB = European Investment Bank, FMO = Nederlandse Financierings-Maatschappij voor Ontwikkelingslanden N.V. or Entrepreneurial Development Bank, JICA = Japan International Cooperation Agency, KOICA = Korea International Cooperation Agency, Lao PDR = Lao People's Democratic Republic, NEDA Thailand = Neighbouring Countries Economic Development Cooperation Agency; PPP = public-private partnership, PRC = People's Republic of China, RVO = Rijksdienst voor Ondernemend Nederland or Netherlands Enterprise Agency, TBD = to be determined.

Continued on next page

Appendix 1 continued

MYANMAR

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
INVESTMENT PROJECTS						
	Mae Sot–Myawaddy Border Crossing Project and Infrastructure Improvements (with Thailand)	Myanmar Thailand	2015	Cost estimate listed under Thailand to avoid double counting	Government of Thailand	
31.	East–West Economic Corridor Eindu–Kawkareik Road Improvement Project	Myanmar	2016	121.8	ADB—100.0 ASEAN Infrastructure Fund—20.0 Government of Myanmar—1.8	Ongoing
32.	GMS EWEC Corridor Improvement I and II	Myanmar	2017	550.2	JICA—550.2	Ongoing
33.	Thaton–Payagyi Road Improvement Project	Myanmar	2018	128.0	Private Sector (BOT System)	Ongoing
34.	Dalu (PRC)–Tachilek (Myanmar) Highway	Myanmar	2018	93.0	Public Private Partnership (BOT System) (156.8 km) Government of Myanmar (Department of Highways) (87.5 km)	Ongoing
35.	Bridge on the Kyaington–Lyainglin–Taunggyi Road (AH2)	Myanmar	2018	15.8	Government of Myanmar	Ongoing
36.	GMS Highway Modernization Project	Myanmar	2018	202.1	ADB—194.7 Government of Myanmar—7.4	Ongoing
37.	Improvement of Six Inland Ports	Myanmar	2018	236.5	JICA—53.6 TBD—182.9	Ongoing
38.	Second GMS Highway Modernization Project (formerly Bago–Kyaikto Road)	Myanmar	2020	483.8	ADB—483.8 JICA—254.8 Government of Myanmar—42.5	Ongoing
39.	Upgrading of Mawlamyine–Dawei–Hteekhee Rail Link (452.58 km)	Myanmar	TBD	TBD	ADB NEDA Thailand	Proposed
40.	Loilem–Kyaington Road Section (356 km) (GMS Road Section of R7 and Secondary Road of Corridor)	Myanmar	TBD	359.0	TBD	Proposed

Continued on next page

Appendix 1 continued

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
41.	Ruili (PRC)– Kyaukpyu (Myanmar) Highway	Myanmar	TBD	2,153.8	Private Sector CHEC	Proposed
42.	Upgrading of Wan Pong Port with 500-ton container handling facilities	Myanmar	TBD	50.0	Joint Committee on Coordination of Commercial Navigation Lancang-Mekong Cooperation Special Fund	Proposed
Subtotal (Transport Investment Projects: Myanmar)				4,691.3		

ADB = Asian Development Bank, AH = Asian Highway, ASEAN = Association of Southeast Asian Nations, BOT = build-operate-transfer, CHEC = China Harbour Engineering Co. Ltd, EWEC = East-West Economic Corridor, GMS = Greater Mekong Subregion, JICA = Japan International Cooperation Agency, NEDA Thailand = Neighbouring Countries Economic Development Cooperation Agency, PRC = People's Republic of China, TBD = to be determined.

Source: GMS Secretariat.

THAILAND

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
INVESTMENT PROJECTS						
43.	Mae Sot–Myawaddy Border Crossing Project and Infrastructure Improvements	Thailand Myanmar	2015	130.0	Government of Thailand	Completed
44.	Single Rail Transfer Operator Development Project of Laem Chabang Port	Thailand	2018	90.0	Government of Thailand (PAT)	Completed
45.	Coastal Terminal Development Project of Laem Chabang Port	Thailand	2018	58.5	Government of Thailand (PAT)	Completed
46.	Tak–Mae Sot Highway Improvement Project	Thailand	2008	100.0	Government of Thailand	Completed
47.	Bang Yai–Kanchanaburi Intercity Motorway Project (part of Laem Chabang–Bangkok–Dawei [Myanmar] Corridor)	Thailand	2015	1,600.0	Government of Thailand	Ongoing
48.	Chiang Rai–Chiang Khong Highway Improvement Project	Thailand	2015	90.0	Government of Thailand	Ongoing
49.	Aranyaprathet–Poipet New Road with Border-Crossing Facilities (Thailand part)	Thailand Cambodia	2015	30.0	Government of Thailand	Ongoing

Continued on next page

Appendix 1 continued

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
50.	Lomsak–Phetchabun Highway Improvement Project	Thailand	2016	220.0	Government of Thailand	Ongoing
51.	Kalasin–Nakrai–Kamcha I Highway Improvement Project	Thailand	2016	170.0	Government of Thailand	Ongoing
52.	GMS Highway Expansion Phase 2 Project	Thailand	2017	213.6	ADB–99.4 Government of Thailand—114.2	Ongoing
53.	National Railway Improvement	Thailand	2018	12,192.3	Government of Thailand	Ongoing
54.	Laem Chabang Port Development Project, Phase 3	Thailand	2018	3,000.0	PPP Private Sector	Ongoing
55.	Mekong Bridge at Bungkan–Paksan (Thailand part)	Thailand Lao PDR	2019	88.0	Government of Thailand	Ongoing
56.	The Construction of a New Railway Line from Den Chai to Chiang Rai and Chiang Khong	Thailand	2018	2,278.8	Government of Thailand	Ongoing
57.	The Construction of a New Railway Line from Baan Pai (Khon Kaen) to Mahasarakham, Roi Et, Mukdahan, and Nakhon Phanom	Thailand	TBD	1,708.9	Government of Thailand	Ongoing
Subtotal (Transport Investment Projects: Thailand)				21,970.1		

PAT = Port Authority of Thailand, PPP = public–private partnership, TBD = to be determined.
Source: GMS Secretariat.

VIET NAM

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
INVESTMENT PROJECTS						
58.	GMS Kunming–Haiphong Transport Corridor—Noi Bai–Lao Cai Highway (additional financing)	Viet Nam	2014	182.0	ADB—147.0 Government of Viet Nam—35.0	Completed
59.	Second Northern GMS Transport Network Improvement (Luang Prabang–Thanh Hoa)	Viet Nam	2015	77.8	ADB—71.13 Government of Viet Nam—6.7	Ongoing
60.	Central Mekong Delta Connectivity	Viet Nam	2013	860.0	ADB—410.0 Government of Australia—134.0 Korea Export–Import Bank—260.0 Government of Viet Nam—56.0	Ongoing

Continued on next page

Appendix 1 continued

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
61.	GMS Ben Luc–LongThanh Expressway (Stage 2)	Viet Nam	2014	1,607.4	ADB—635.7 JICA—634.8 Government of Viet Nam—336.9	Ongoing
62.	GMS Ha Noi–Lang Son Expressway Project (Huu Nghi-Chi Lang Section)	Viet Nam	2016	1,400.0	Private Investors	Ongoing
63.	Northern Mountain Provinces Transport Connectivity Project (formerly GMS Corridor Connectivity Enhancement Project)	Viet Nam	2018	245.1	ADB—188.4 Government of Viet Nam—52.2 Australia—4.5	Ongoing
64.	Central Region Connectivity Enhancement Project (NR 14D Improvement Project)	Viet Nam	2019	137.0	TBD—116.3 Government of Viet Nam—20.7	Proposed
65.	Ho Chi Minh City Third Ring Road (BenLuc–NH22)	Viet Nam	2019	309.0	TBD	Proposed
66.	Ho Chi Minh City–Loc Ninh (Cambodia Border) Railway	Viet Nam	2020	900.0	TBD	Proposed
67.	Viet Nam: Lao Cai–Hekou (4.7 km) PRC: Hekou–Lao Cai (03 km)	Viet Nam PRC	TBD	33.6	ADB	Proposed
68.	Construction Project of National Highway 15D, Quang Tri Province	Viet Nam	2021	118.4	Government of Viet Nam	Proposed
	Vientiane–Thakhek–Mu Gia Railway Project (450 km) Mu Gia–Vung Ang (F/S completion expected in 2017) 119 km	Viet Nam Lao PDR	2020	Cost estimate is listed under the Lao PDR to avoid double counting.	TBD	
Subtotal (Transport Investment Projects: Viet Nam)				5,870.3		
Subtotal (Transport Investment Projects)				65,838.5		

ADB = Asian Development Bank, GMS = Greater Mekong Subregion, JICA = Japan International Cooperation Agency, km = kilometer, Lao PDR = Lao People's Democratic Republic, PRC = People's Republic of China, TBD = to be determined.
Source: GMS Secretariat.

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Appendix 1 continued

ALL COUNTRIES

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
TECHNICAL ASSISTANCE PROJECTS						
1.	GMS Corridor Enhancement Project (formerly Project Preparatory Technical Assistance for National Highway 14D Improvement)	Viet Nam	2016	1.8	ADB	Completed
2.	Proposed Hoa Lac–Hoa Binh City Expressway Public–Private Partnership Feasibility Study	Viet Nam	2018	1.0	Private Sector	Completed
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	2018	0.5	Government of Thailand	Completed
4.	Memorandum of understanding between the Ministry of Public works and transport of Lao People’s Democratic Republic and the ministry of Oceans and fisheries of the Republic of Korea on the Establishment of a river transport connecting multi-modal transportation and logistics system	Lao PDR	2019	Not available	Government of Republic of Korea	Ongoing
5.	Transport Sector Reform and Modernization (additional financing)	Myanmar	2017	2.0	ADB	Ongoing
6.	Greater Mekong Subregion East-West Economic Corridor Highway Development Project (formerly GMS EWEC Road Corridor Improvement II)	Myanmar	2017	2.0	ADB	Ongoing
7.	Connecting the Railways of the Greater Mekong Subregion (Phase 2)	All GMS Countries	2019	0.5	PRC Poverty Reduction and Regional Cooperation Fund	Ongoing
8.	Road Safety for Highway Development in the Greater Mekong Subregion East-West Economic Corridor	Myanmar	2019	1.0	ADB (Japan Fund for Poverty Reduction)0	Ongoing
9.	Feasibility Study on Upgrading of Mawlamyine–Dawei–Htiikee Rail Link (452.58 km)	Myanmar	TBD	TBD	TBD	Proposed

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Appendix 1 continued

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
10.	Feasibility Study for Mae Sot-Myawaddy-Hpa-An-Thaton Rail Line	Myanmar Thailand	TBD	TBD	TBD	Proposed
Subtotal (Transport TA Projects)				8.8		
Total (Transport Investment and TA Projects)				65,847.3		

ADB = Asian Development Bank, EWEC = East–West Economic Corridor, GMS = Greater Mekong Subregion, PRC = People’s Republic of China, TBD = to be determined.
Source: GMS Secretariat.

Energy

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
INVESTMENT PROJECTS						
1.	Nam Ngiep 1 (NN1) Hydropower Project	Lao PDR	2014	976.7	ADB—215.7, JBIC—197.0, Private Sector — 564.0 [NNP1 shareholders: KPIC Netherlands B.V., EGAT International, Lao Holding State Enterprise—226; Thai banks — 228]	Completed
2.	Lao PDR–Thailand Nabong 500 kV Substation Transmission Facility	Lao PDR Thailand	2014	106.0	Nam Ngum 2 Power Company	Completed
3.	Transmission Interconnection Project from Lao PDR (Na Bong) to Thailand (Udon Thani 3)	Lao PDR Thailand	2014	60.0	Nam Ngum 2 Power Company	Completed
4.	230 kV Mawlamyine–Ye–Dawei Transmission Line	Myanmar	2020	TBD	Not available	Completed
5.	500 kV Line from Mawlamyine to the Main Grid	Myanmar	2020	640.0	Not available	Ongoing
6.	230k V Lao PDR–Myanmar Power Interconnection	Lao PDR Myanmar	2020	180.9	IPP (private sector)	Ongoing
7.	500kV Muse–Mineyal–Hopone–Phayargyi Transmisson Line (616) miles and related substations	Myanmar	2020	1,788.0	Not available	Ongoing

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Appendix 1 continued

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
8.	Transmission Interconnection Project from Lao PDR (Ban Lak25) to Thailand (Ubon Ratchathani 3)	Lao PDR Thailand	2019	90.0	TBD	Proposed
Subtotal (Energy Investment Projects)				3,841.6		

ADB = Asian Development Bank, EGAT = Electricity Generating Authority of Thailand, IPP = independent power producer, JBIC = Japan Bank for International Cooperation, kV = kilovolt, Lao PDR = Lao People's Democratic Republic, TBD = to be determined.
Source: GMS Secretariat.

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
TECHNICAL ASSISTANCE PROJECTS						
1.	GMS Northern Cross-Border Power Trade and Distribution	Lao PDR	2017	0.8	ADB	Completed
2.	Harmonizing GMS Power Systems to Facilitate Regional Power Trade (formerly Support to RPTCC in the Completion of Performance Standards, Grid Codes, Market Rules, and Subregional Transmission Expansion Plan)	All GMS Countries	2014	3.0	ADB—2.5 PRC Trust Fund—0.5	Ongoing
3.	Integrated Resource Planning with Strategic Environmental Assessment for Sustainable Power Sector Development in the Greater Mekong Subregion	All GMS countries	2015	2.5	AFD—1.15 ADB—1.35 (Regional Cooperation and Integration Fund—0.5 Cooperation Fund for Project Preparation in the Greater Mekong Subregion and in Other Specific Asian—0.5 TASF-VI—0.35)	Ongoing
4.	Accelerating the Clean Energy Transition in Southeast Asia (formerly Supporting GMS Regional Sustainable Power Sector Development and the Development of GMS Coordination Center for Regional Power Trade)	Cambodia, Indonesia, Lao PDR, Philippines, Thailand, Viet Nam, Timor-Leste	2021	4.1	ADB—2.25 CEFPF—1.0 Strategic Climate Fund—0.5 Spanish Cooperation Fund—0.3	Ongoing
Subtotal (Energy TA Projects)				10.4		
Total (Energy Investment and TA Projects)				3,852.0		

ADB = Asian Development Bank, AFD = Agence Française de Développement, GMS = Greater Mekong Subregion, JBIC = Japan Bank for International Cooperation, kV = kilovolt, Lao PDR = Lao People's Democratic Republic, PRC = People's Republic of China, RPTCC = Regional Power Trade Coordination Committee, TASF = Technical Assistance Special Fund, TBD = to be determined.
Source: GMS Secretariat

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Appendix 1 continued

Agriculture

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
INVESTMENT PROJECTS						
1.	GMS Flood and Drought Risk Management and Mitigation Project	Cambodia Lao PDR Viet Nam	2013	101.5	ADB—81.5 Governments of the Lao PDR and Viet Nam—14.1 Cofinancing (Government of Australia)—5.9	Completed
2.	Basic Infrastructure for Inclusive Growth in the Northeastern Provinces Sector Project (1)	Viet Nam	2017	190.3	ADB—150.0 Government of Viet Nam—40.3	Ongoing
3.	Basic Infrastructure for Inclusive Growth in the North Central Provinces Sector Project (2)	Viet Nam	2017	203.5	ADB—149.0 Government of Viet Nam—54.5	Ongoing
4.	Climate Friendly Agri-Business Value Chains Sector Project	Cambodia Lao PDR Myanmar	2018	252.4	ADB—171.0 Cofinancing (Green Climate Fund or Global Agriculture Food Security Program)—62.0 Governments of Cambodia, Lao PDR, and Myanmar—9.6 Beneficiaries—9.8	Ongoing
5.	Agricultural Value Chain Competitive-ness and Safety Enhancement Project (formerly Agricultural Value Chain Infrastructure Improvement Project)	Cambodia	2020	110.1	ADB—70.0 ASEAN Infrastructure Fund—5.0 Agence Française de	Ongoing
6.	Flood and Drought Mitigation and Management Project	Lao PDR	2020	33.5	ADB—31.5 Government of the Lao PDR—2.0	Proposed
7.	GMS Cross-border Livestock Health and Value Chains Improvement Project (formerly Animal Disease Control Zone)	Cambodia PRC Lao PDR Myanmar	2021	221.5	ADB—211.5, Private sector, Governments of Cambodia, the Lao PDR, and Myanmar—10.0 Banks in PRC CAM—62, LAO—49.5 MYA—90 (Standby)	Proposed

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Appendix 1 continued

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
8.	Agro-Industrial Aones to Support Promotion of Safe and Environment-Friendly Agro-Based Value Chains	Cambodia PRC Lao PDR Myanmar Viet Nam	2022	286.0	ADB, Private sector, Governments of the PRC, Lao PDR, Myanmar, and Viet Nam via PPPs	Proposed
9.	Cluster and Value Chain Development for Geographic indications related to SEAP	Cambodia PRC Lao PDR	2023	345.0	AFD, ADB, FAO, Private sector, Ministries of agriculture and commerce of Cambodia, the PRC, Lao PDR, and Myanmar	Proposed
10.	Climate Smart Horticulture Value Chain Infrastructure Project	Viet Nam	2021	TBD	ADB, Other development partners (TBD)	Proposed
11.	GMS Economic Corridor Agribusiness Development	Myanmar	2023	100.0	ADB	Proposed
Subtotal (Agriculture Investment Projects)				1,843.8		

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
TECHNICAL ASSISTANCE PROJECTS						
1.	Climate Friendly Agri-Business Value Chains in the GMS	Cambodia Lao PDR Myanmar	2015	2.5	Canadian Climate Fund for the Private Sector—1.0 Asia Clean Energy Facility—1.5	Completed
2.	Agriculture Value Chain Infrastructure Investment Project	Cambodia	2018	4.0	Japan Fund for Poverty Reduction—3.0 Project Readiness Improvement Trust Fund—1.0	Ongoing

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Appendix 1 continued

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
3.	GMS Sustainable Agriculture and Food Security Program (formerly called “Implementing the Strategy on Agro-based Value Chain Investments in the GMS”)	All GMS Countries	2019	4.5	ADB—3.75 (TASF—3.0; Climate Change Fund—0.75) PRC Poverty Reduction and Regional Cooperation Fund—0.75	Ongoing
4.	Climate Change Adaptation in Highland Agriculture (formerly Enhancing Productivity and Competitiveness of Safe and Environment Friendly Agriculture)	Thailand	2020	2.0	Japan Fund for Poverty Reduction	Ongoing
5.	Economic Corridor Agribusiness Development	Myanmar	2022 or 2023	TBD	TBD	Proposed/ On hold
6.	Supporting Infrastructure Development of Agro-industrial Zones for SEAP	Cambodia PRC Myanmar	TBD	5.0	ADB, Other donors, Private sector	Proposed
7.	Geographic Indications Value Chain Development and Brand Building	Cambodia PRC Myanmar Viet Nam	TBD	18.0	AFD, ADB, FAO, Private sector, Governments of Cambodia, PRC, and Viet Nam	Proposed
8.	Agribusiness Incubator Development	Cambodia, Lao PDR, Myanmar	TBD	19.0	ADB, International Finance Corporation, Other donors, Private sector	Proposed
9.	GMS Cross-Border Livestock Health and Value Chains Improvement (formerly called Animal Disease Control Zone)	Cambodia, PRC, Lao PDR, Myanmar	2021	5.0	TBD	Proposed
10.	GMS East-West Economic Corridor Agriculture Infrastructure Sector Project (additional financing)	Lao PDR	TBD	1.0	ADB (Part of TA Facility)	Proposed
Subtotal (Agriculture TA Projects)				60.8		
Total (Agriculture Investment and TA Projects)				1,904.6		

ADB = Asian Development Bank, CAM = Cambodia, FAO = Food and Agriculture Organization of the United Nations, Lao PDR = Lao People’s Democratic Republic, MYA = Myanmar, PPP = public-private partnership, SEAP = Safe and Environmentally-Friendly Agriculture Products, TA = technical assistance, TASF = Technical Assistance Special Fund.

Source: GMS Secretariat

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Appendix 1 continued

Environment

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
INVESTMENT PROJECTS						
1.	Greater Mekong Subregion Biodiversity Conservation Corridors Project	Cambodia Lao PDR Viet Nam	2010	93.0	ADB—69.0 Strategic Climate Fund—20.2 GEF—3.8	Ongoing
2.	GMS Biodiversity Conservation Corridors Project – Additional Financing	Cambodia	2015	7.4	Strategic Climate Fund	Ongoing
	GMS Biodiversity Conservation Corridors Project – Additional Financing	Lao PDR	2016	12.8	FIP	Ongoing
3.	Land-Based Pollution Management for Healthy Rivers and Oceans (formerly, Rural Environmental Management, Pollution Control, and Waste Management)	Cambodia Lao PDR Viet Nam	TBD	300.0	Green Financing Facility Ocean Financing Initiative	Proposed
4.	Climate Smart Landscapes (formerly called Integrated Land Use Management for Sustainable Development)	Cambodia Lao PDR Viet Nam Four Transboundary Landscapes	TBD	240.0	TBD	Proposed
5.	Climate Proofing of Rural Infrastructure and Risk Financing	Lao PDR	TBD	TBD	TBD	Proposed
Subtotal (Environment Investment Projects)				653.2		

ADB = Asian Development Bank, CEP = Core Environment Program, FIP = Foreign Investment Program, GEF = Global Environment Facility, GMS = Greater Mekong Subregion, Lao PDR = Lao People's Democratic Republic, TBD = to be determined.
Source: GMS Secretariat.

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Appendix 1 continued

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
TECHNICAL ASSISTANCE PROJECTS						
1.	Core Environment Program and Biodiversity Conservation Corridors Initiative in the GMS, Phase 2	All GMS Countries	2011	30.3	ADB—1.8 Cofinancing—28.5 (Finnida grant—14.0, Swedish TA grant—8.3; Nordic—5.3; GEF—0.46; GEF Special Climate Change Fund—0.46)	Completed
2.	GMS Climate Change and Environmentally Sustainable Program (formerly GMS Environment Service Facility (also known as GMS CEP Phase 3))	All GMS Countries	2019	5.0	ADB (TASF)—2.0 Climate Change Fund—3.0	Ongoing
3.	Rural Environmental Management, Pollution Control, and Waste Management (GMS CEP Strategic Framework and Action Plan)	All GMS Countries	2022	1.5	Part of ADB TRTA Facility	Proposed
4.	Integrated Land Use Management for Sustainable Development (GMS CEP Strategic Framework and Action Plan)	All GMS Countries	2022	1.5	Part of ADB TRTA Facility	Proposed
Subtotal (Environment TA Projects)				38.3		
Total (Environment Investment and TA Projects)				691.5		

ADB = Asian Development Bank, CEP = Core Environment Program, GEF = Global Environment Facility, GMS = Greater Mekong Subregion, Lao PDR = Lao People's Democratic Republic, TBD = to be determined, TRTA = transaction technical assistance.
Source: GMS Secretariat.

Health and Other Human Resource Development

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
INVESTMENT PROJECTS						
1.	GMS Health Security Project (formerly GMS Communicable Disease Control Project Phase III)	Cambodia Lao People's Democratic Republic (Lao PDR) Myanmar Viet Nam	2016	132.2	ADB—125.0 Government counterpart—7.2	Ongoing

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Appendix 1 continued

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
2.	Guangxi Modern Technical and Vocational Education and Training Development Program (RBL)	PRC	2017	450.6	ADB loan—250.0 ADB TA—0.6 KfW—200.0	Ongoing
3.	GMS Health Security - Additional Financing	Lao PDR Myanmar	2020	50.0	ADB	Ongoing
4.	GMS Universal Health Care: GMS Healthy Border Special Economic Zone	Cambodia Lao PDR Myanmar Thailand	2021	72.0	ADB—72.0 Mix of TA, grant, and loans	Proposed
Subtotal (Health and Other HRD Investment Projects)				704.8		

ADB = Asian Development Bank, GMS = Greater Mekong Subregion, KfW = Kreditanstalt für Wiederaufbau, Lao PDR = Lao People's Democratic Republic, RBL = results-based loan, TA = technical assistance.

Source: GMS Secretariat.

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
TECHNICAL ASSISTANCE PROJECTS						
1.	GMS HRD Strategic Framework and Action Plan 2013–2017, Phase 2	All GMS Countries	2013	2.1	ADB—1.3 PRC Fund—0.5 Governments of the GMS countries—0.3	Completed
2.	Malaria and Communicable Diseases Control in the GMS	Cambodia Lao PDR Myanmar	2015	4.5	Trust Fund under the Health Financing Partnership Facility	Completed
3.	Strengthening Resilience to Climate Change in the Health Sector in the Greater Mekong Subregion	Cambodia Lao PDR Viet Nam	2015	4.4	Nordic Development Fund—4.36 Governments of Cambodia, Lao PDR, and Viet Nam—0.05	Completed
4.	Poverty Reduction through Safe Migration, Skills Development and Enhanced Job Placement in Cambodia, Lao PDR, and Thailand (PROMISE)	Cambodia Lao PDR Myanmar Thailand	2017	8.3	Swiss Agency for Development and Cooperation, International Organization for Migration	Completed
5.	High Level Technology Solutions for Communicable Disease Control in the Greater Mekong Subregion	Cambodia	2018	0.1	High Level Technology Fund/ ADB	Completed

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Appendix 1 continued

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
6.	Strengthening Resilience to Climate Change in the Health Sector in the Greater Mekong Subregion	Cambodia Lao PDR Viet Nam	2015	4.4	Nordic Development Fund—4.36 Governments of Cambodia, Lao PDR, and Viet Nam—0.05	Ongoing
6.	Strengthening Regional Health Cooperation in the Greater Mekong Subregion	All GMS Countries	2018	3.0	ADB	Ongoing
7.	TA Facility: Support for Human and Social Development in Southeast Asia. Improving UHC Coverage in Border Areas for MMPs Project	Cambodia Lao PDR Myanmar Thailand Viet Nam Indonesia Philippines	2018	3.0	ADB	Ongoing
8.	Tuberculosis Regional Grant	Cambodia Lao PDR Myanmar Thailand Viet Nam	2018	10.0	The Global Fund	Ongoing
9.	Regional Artemisinin-Resistance Initiative 2 Elimination (RAI2-E)	Cambodia Lao PDR Myanmar Thailand Viet Nam	2018	32.0	The Global Fund	Ongoing
10.	Poverty Reduction through Safe Migration, Skills Development and Enhanced Job Placement in Cambodia, Lao People's Democratic Republic, Myanmar and Thailand (PROMISE II)	Cambodia, Lao PDR, Myanmar, Thailand	2021	7.5	SDC IOM	Ongoing
11.	Prevention and Control of Neglected Tropical Diseases	Lao PDR Myanmar	TBD	30.0	Government of the PRC, WHO, Korea International Cooperation Agency, World Organization for Animal Health	Proposed
12.	Capacity Building in Labor Migration Management	Cambodia Lao PDR Myanmar Viet Nam	TBD	0.3	TBD	Proposed
Subtotal (Health and Other HRD TA Projects)				105.2		
Total (Health and Other HRD Investment and TA Projects)				810.0		

ADB = Asian Development Bank, HRD = human resource development, Lao PDR = Lao People's Democratic Republic, PRC = People's Republic of China, RBL = results-based loan, TA = technical assistance, TASF = Technical Assistance Special Fund, TBD = to be determined, UHC = universal health coverage, WHO = World Health Organization.

Source: GMS Secretariat

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Appendix 1 continued

Urban Development

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
INVESTMENT PROJECTS						
1.	Second Greater Mekong Subregion Corridor Towns Development Project	Cambodia Lao PDR Viet Nam	2015	211.8	ADB—170.0 Governments of Cambodia, the Lao PDR, and Viet Nam—31.8 ASEAN Infrastructure Fund—10.0	Ongoing
2.	Third Greater Mekong Subregion Corridor Towns Development Project	Myanmar	2018	111.3	ADB—80.0 NEDA—24.3 GCF, TICA Grant—0.5 Government of Myanmar—6.5	Ongoing
3.	Fourth Greater Mekong Subregion Corridor Towns Development Project	Cambodia Lao PDR	2018	142.6	ADB—128.0 Government of Cambodia—8.0 Government of Lao PDR—6.06 Cofinancing—0.5	Ongoing
4.	Livable Cities Investment Project (formerly Fifth Greater Mekong Subregion Corridor Towns Development Project)	Cambodia	2021	193.5	ADB—180.0 Government of Cambodia—13.5	Proposed
5.	Urban Environmental Improvement Program (formerly Livable Cities Investment Program -MFF)	Lao PDR	2021	39.0	ADB—36.0 Cofinancing (TBD) Government of Lao PDR—3.0	Proposed
Subtotal (Urban Development Investment Projects)				698.2		

ADB = Asian Development Bank, ASEAN = Association of Southeast Asian Nations, GCF = Global Climate Fund, Lao PDR = Lao People's Democratic Republic, MFF = multitranchise financing facility, NEDA (Thailand) = Neighbouring Countries Economic Development Cooperation Agency, TICA = Thailand International Cooperation Agency.
Source: GMS Secretariat.

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Appendix 1 continued

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
TECHNICAL ASSISTANCE PROJECTS						
1.	Project Preparatory TA for Third Greater Mekong Subregion Corridor Towns Development Project	Myanmar	2014	1.5	ADB—1.0 Cofinancing—0.5	Completed
2.	Greater Mekong Subregion: Capacity Development for Economic Zones in Border Areas	All GMS Countries	2015	0.9	ADB—0.5 Cofinancing—0.4	Completed
3.	Fourth Greater Mekong Subregion Corridor Towns Development Project	Cambodia Lao PDR	2016	1.8	ADB	Completed
4.	Project Preparatory TA for Second Mandalay Urban Services Improvement Project	Myanmar	2017	1.0	ADB—0.75 Cofinancing (Urban Climate Change Resilience Trust Fund under the Urban Financing Partnership Facility)—0.225	Completed
5.	Urban Infrastructure improvement project	Myanmar	TBD	TBD	TBD	Proposed
6.	Regional Development Project	Myanmar	TBD	TBD	TBD	Proposed
7.	Urban Infrastructure improvement project	Myanmar	TBD	TBD	TBD	Proposed
Subtotal (Urban Development TA Projects)				5.2		
Total (Urban Development and TA Projects)				703.4		

ADB = Asian Development Bank, Lao PDR = Lao People's Democratic Republic, MFF = multi-tranche financing facility, TA = technical assistance, TBD = to be determined.

Source: GMS Secretariat.

Other Multisector/Border Economic Zones

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
INVESTMENT PROJECTS						
1.	Guangxi Regional Cooperation and Integration Promotion Investment Program, MFF Tranches 1–3 (formerly Joint PRC–Viet Nam Cross-Border Economic Zones)	PRC	2016	1,180.0	ADB—450.0 Government of the PRC—730.0	Ongoing

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Appendix 1 continued

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
2.	Support to Border Areas Development Project	Viet Nam	2016	122.1	ADB—106.5 Government of Viet Nam—15.6	Ongoing
3.	Yunnan–Lincang Border Economic Cooperation Zone Development Project	PRC	2018	402.8	ADB—250.0 Government of the PRC—152.8	Ongoing
4.	Vientiane Saysettha Development Zone Project (Phase II Infrastructure and Supporting Construction Project)	Lao PDR	2019	300.0	PRC	Ongoing
5.	Border Trade Zone in Muse, Kampitee, Shinshwehaw	Myanmar PRC	TBD	TBD	TBD	Proposed
Subtotal (Other Multisector/Border Economic Zones Investment Projects)				2,004.9		

ADB = Asian Development Bank, Lao PDR = Lao People's Democratic Republic, PRC = People's Republic of China, TBD = to be determined.
Source: Greater Mekong Subregion Secretariat.

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
TECHNICAL ASSISTANCE PROJECTS						
1.	Strengthening the Coordination of the GMS Program	All GMS Countries	2010	6.0	ADB—5.95	Completed
2.	Preparatory TA for Guangxi Regional Cooperation and Integration Promotion Investment Program	PRC	2016	1.2	ADB—1.0 Government of the PRC—0.2	Completed
3.	Policy Coordination and Planning of Border Economic Zones of the People's Republic of China and Viet Nam (formerly Joint Feasibility Study on Cross-Border Economic Zones in the PRC and Viet Nam)	PRC Viet Nam	2017	0.4	PRC Regional Cooperation and Poverty Reduction Fund	Completed
4.	Project Preparatory TA for Yunnan–Lincang Cross-Border Economic Cooperation and Integration Promotion Investment Program	PRC	2018	0.5	ADB	Completed

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Appendix 1 continued

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
5.	Sustaining the Gains of Regional Cooperation in the Greater Mekong Subregion	All GMS Countries	2017	2.8	ADB	Ongoing
Subtotal (Other Multisector/Border Economic Zones TA Projects)				10.9		
Total (Other Multisector/Border Economic Zones Investment and TA Projects)				2,015.8		

ADB = Asian Development Bank, GMS = Greater Mekong Subregion, Lao PDR = Lao People's Democratic Republic, TA = technical assistance. Source: GMS Secretariat.

Tourism

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
INVESTMENT PROJECTS						
1.	GMS Tourism Infrastructure for Inclusive Growth	Cambodia Lao PDR Viet Nam	2014	114.6	ADB—99.4 Governments of Cambodia, the Lao PDR, and Viet Nam—15.2	Ongoing
2.	Construction of the Sino-Vietnamese Detian-Ban Gioc Waterfalls International Tourism Cooperation Zone * Chongzuo Sino-Viet Nam Cross-border Tourism Subproject	PRC Viet Nam	2016	200.0	Governments of the PRC, Viet Nam, and ADB ADB—26.8 Government of PRC—31.28	Ongoing
3.	Strengthening Tourism Vocational Training Institutions (*Skills Development in the Tourism and Hospitality Sector in Lao PDR-Skills for Tourism)	Cambodia PRC Lao PDR Thailand Viet Nam Lao PDR	2016	70.0	 Luxembourg—8.6 (€7.5 million) Switzerland—8.6 (€7.5 million) In-kind contribution from Lao PDR	Ongoing
4.	Improve Tourism Infrastructure and Facilities in the Konglor Cave-Phong Nha Khe Bang-Nakorn Phanom Corridor	Lao PDR Thailand Viet Nam	2017	1.6	Governments of the Lao PDR, Thailand, and Viet Nam, ODA (New Zealand)	Ongoing

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Appendix 1 continued

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
5.	Tourism Information Center and Roadside Rest Area Development	All GMS Countries	2017	30.0	Governments of the GMS countries	Ongoing
6.	Second GMS Tourism Infrastructure for Inclusive Growth	Cambodia Lao PDR Viet Nam	2018	136.4	ADB—122.0 Governments of the Lao PDR, and Viet Nam—14.4	Ongoing
7.	Tourism Infrastructure Development in the Green Triangle Development Area	Cambodia Lao PDR Thailand	2022	75.0	TBD—50.0 Government of Thailand—25.0	Ongoing
	*Cambodia Sustainable Landscape and Ecotourism Project	Cambodia	2019		World Bank, IDA—50.66 GEF grant—4.42	
8.	Community-Based Tourism Enterprise Support Program	All GMS Countries	2021	30.0	Governments of the GMS countries, ODA	Proposed
	*Community-Based Tourism COVID-19 Recovery Project				ADB Trust Funds	
9.	Tourism Infrastructure Development in the Emerald Triangle Development Area	Cambodia Lao PDR Thailand	2022	75.0	TBD	Proposed
10.	River and Coastal Port Improvements	All GMS Countries	2022	250.0	Governments of the GMS countries, ADB, ODA	Proposed
11.	Guangxi Li River Comprehensive Ecological Management and Demonstration Project (formerly Improve Environmental Services in World Heritage Sites)	All GMS Countries	2021	399.0	ADB—140.0 Government of the PRC—133.0 KfW—126.0	Proposed
12.	Border Facilities Improvement Program	All GMS Countries	2022	200.0	Governments of the GMS countries, ODA	Proposed
Subtotal (Tourism Investment Projects)				1,581.6		

ADB = Asian Development Bank, GEF = Global Environment Facility, GMS = Greater Mekong Subregion, IDA = International Development Association, KfW = Kreditanstalt für Wiederaufbau, Lao PDR = Lao People's Democratic Republic, ODA = official development assistance, PRC = People's Republic of China.

Source: GMS Secretariat

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Appendix 1 continued

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
TECHNICAL ASSISTANCE PROJECTS						
1.	Preparing Second GMS Tourism Infrastructure for Inclusive Growth Project	Cambodia Lao PDR Myanmar Viet Nam	2016	2.2	ADB—1.5 NDF—0.7	Completed
2.	Small-Scale Knowledge and Support Technical Assistance for 2018 Mekong Innovative Startup Tourism (MIST) Accelerator Program (a.k.a. Mekong Tourism Innovation) *2019 MIST Program Organized in Bangkok (October 2019)	Cambodia Lao PDR Myanmar Viet Nam	2018	0.2	DFAT Australia—0.225	Completed
3.	Mekong Business Initiative	All GMS Countries	2015	12.5 estimated funding of about 0.2 for CRC and TMT)	ADB—1.0 DFAT (Australia)—11.5	Completed
4.	Mekong Inclusive Growth and Innovation Program	Cambodia Lao PDR	2017	3.0	ODA—Swiss contact	Completed
5.	Experience Mekong Digital Marketing Initiative	All GMS Countries	2015	3.0	Governments of the GMS countries, ODA	Ongoing
6.	Strengthening Coordination of GMS Tourism Product Development and Promotion	All GMS Countries	2017	0.5	Governments of the GMS countries, ODA	Ongoing
7.	Improve Subregional Tourism Data Collection and Analysis	All GMS Countries	2017	6.0	Governments of the GMS countries, ODA	Ongoing
8.	ADB Ventures Facility will support: (i) the 2020 MIST Accelerator Program (also known as the Mekong Tourism Innovations in Sustainable Tourism), and (ii) 2020 Travel Lab Asia	DMCs in Southeast Asia including all GMS countries	2018	0.5 estimated funding of about 0.3 for MIST and TLA)	ADB—3.9 NDF—0.5 CTF—0.4 DFAT—0.2	Ongoing
9.	Tourism Product Development for Lao-Thai Heritage Quadrangle	Lao PDR Thailand	2018	0.5	Governments of the Lao PDR and Thailand, ODA—TBD	Ongoing
10.	Third GMS Tourism Infrastructure for Inclusive Growth Project	Select GMS countries	2020	1.0	ADB	Proposed
11.	Preparing the Tourism Infrastructure Development in the Green Triangle Development Area	Cambodia Lao PDR Viet Nam	TBD	1.0	Governments of Cambodia, Lao PDR, and Viet Nam, ODA	Proposed

Continued on next page

Appendix 1 continued

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
12.	Preparing the Tourism Infrastructure Development in the Emerald Triangle Development Area	Cambodia Lao PDR Thailand	TBD	1.0	Governments of Cambodia, Lao PDR, and Viet Nam, ODA	Proposed
13.	Capacity Building for Sustainable Destination Management	All GMS Countries	TBD	12.0	Governments of the GMS countries, ODA	Proposed
14.	Development Triangle Tourism Development Plan	Cambodia Lao PDR Viet Nam	TBD	1.0	Governments of Cambodia, Lao PDR, and Viet Nam, ODA—TBD	Proposed
15.	Integrated Destination Planning and Management Support Program	All GMS Countries	TBD	20.0	Governments of the GMS countries, ODA	Proposed
16.	Formulation of Travel Guidelines along the Main GMS Corridors	All GMS Countries	TBD	0.2	Governments of the GMS countries, ODA	Proposed
17.	Common Tourism Standards Implementation Program	All GMS Countries	TBD	12.0	Governments of the GMS countries, ODA—TBD	Proposed
18.	Child-Safe Tourism Program and GMS Conference on Preventing Child Sex Tourism	All GMS Countries	TBD	3.0	Governments of the GMS countries, ODA	Proposed
19.	Climate Resilience and Green Growth Planning Program	All GMS Countries	TBD	12.0	Governments of Cambodia, Lao PDR, and Viet Nam, ODA	Proposed
20.	Monitoring GMS Visitor Satisfaction	All GMS Countries	TBD	1.0	Governments of the GMS countries, ODA	Proposed
Subtotal (Tourism TA Projects)				80.1		
Total (Tourism Investment and TA Projects)				1,661.7		

ADB = Asian Development Bank, CRC = COVID-19 Crisis Resource Center, CTF = Clean Technology Fund, DFAT = Department of Foreign Affairs and Trade (Australia), GMS = Greater Mekong Subregion, Lao PDR = Lao People's Democratic Republic, NDF = Nordic Development Fund, ODA = official development assistance, PRC = People's Republic of China, TMT = TakeMeTour.

Source: GMS Secretariat.

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Appendix 1 continued

Transport and Trade Facilitation

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
INVESTMENT PROJECTS						
1.	Improved SPS Handling in GMS Trade Project- Additional financing	Lao PDR	2017	10.3	ADB—10.0 Government—0.3	Ongoing
2.	Innovative Trade Promotion Myanmar (formerly Enhancing Capacity of SPS Arrangement to Facilitate Trade in Myanmar)	Myanmar	2021	65.0	ADB—65.0 Government of Myanmar—1.0 (in kind, TBD) Cofinancing—TBD	Proposed
Subtotal (Transport and Trade Facilitation Investment Projects)				75.3		

ADB = Asian Development Bank, SPS = sanitary and phytosanitary, TBD = to be determined.
Source: GMS Secretariat.

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
TECHNICAL ASSISTANCE PROJECTS						
1.	Trade Facilitation through Partnership with the Private Sector	Cambodia Lao PDR Myanmar Thailand Viet Nam	2014	1.5	ADB (JFPR)	Completed
2.	Support for Implementing the Action Plan on Transport and Trade Facilitation in the GMS (Subproject 2)	All GMS Countries	2014	3.7	DFAT (Australia)	Completed
3.	Advancing Time Release Study in Southeast Asia	Cambodia Myanmar BIMP-EAGA	2017	1.0	ADB	Completed
4.	Commodity Fairs in GMS Countries	Selected GMS Countries	2014	5.0	PRC–Yunnan and JICA	Ongoing
5.	ASEAN Economic Community Support Program, Technical Assistance	Cambodia Lao PDR Indonesia Malaysia Myanmar Philippines Thailand Viet Nam	2016	5.0	ADB	Ongoing

Continued on next page

Appendix 1 continued

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
6.	“Early Harvest” Implementation of the Cross-border Transport and Trade Facilitation in the Greater Mekong Subregion	All GMS Countries	2020	1.5	Asia Regional Trade and Connectivity Trust Fund–(UK Government/DFID)	Ongoing
*	Promote Lao PDR Products with Digital Technology System (for agriculture production)	Lao PDR	2020	*Count and Cost estimate listed under ICT to avoid double counting	ADB IFAD FAO	Proposed
Subtotal (Transport and Trade Facilitation TA Projects)				17.7		
Total (Transport and Trade Facilitation Investment and TA Projects)				93.0		

ADB = Asian Development Bank, ASEAN = Association of Southeast Asian Nations, DFID = Department for International Development, FAO = Food and Agriculture Organization, ICT – information and communication technology, IFAD = International Fund For Agricultural Development, JFPR = Japan Fund for Poverty Reduction, JICA = Japan International Cooperation Agency, Lao PDR = Lao People’s Democratic Republic, TA = technical assistance, TBD = to be determined, UK = United Kingdom.

Source: GMS Secretariat.

Information and Communication Technology

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
TECHNICAL ASSISTANCE PROJECTS						
1.	Broadband Development Strategies and Implementation Programs of the GMS	All GMS Countries	TBD	0.1	TBD	Proposed
2.	Workshops on E-Commerce Cooperation and Exchanges in GMS	All GMS Countries	TBD	0.1	TBD	Proposed
3.	Cross-Border International Interconnected Bandwidth Expansion Project	PRC Lao PDR Viet Nam	TBD	2.1	State-owned telecom operators (China Unicom, Viettel, and LTC)	Proposed
4.	Workshop on international Roaming for All Operator/ Regulator in GMS countries	Lao PDR Myanmar Cambodia Thailand Viet Nam	TBD	0.1	ODA	Proposed

Continued on next page

Appendix 1 continued

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
5.	Training in Quality of Experience in Voice/Data Service over Communication Network Monitoring in the View of Government and Consumer Perspective	Lao PDR Myanmar Cambodia Thailand Viet Nam	TBD	0.1	ODA	Proposed
6.	Promote Lao PDR Products with Digital Technology System (for agriculture production)	Lao PDR	2020	1.0	ADB, IFAD, FAO	Proposed
7.	Science and Technology Strategy for Enhancing Organic Food Industry	Lao PDR	2020	0.4	ADB	Proposed
8.	Feasibility Study on Science and Technology Park	Lao PDR	2020	0.4	ADB	Proposed
Total (Information and Communication Technology TA Projects)				4.3		

ADB = Asian Development Bank, FAO = Food and Agriculture Organization of the United Nations, IFAD = International Fund for Agriculture Development, TBD = to be determined.
Source: GMS Secretariat.

Appendix 2. Summary of Dropped Projects in Greater Mekong Subregion Regional Investment Framework 2022 Fourth Update

No.	Project Title	Country Coverage	Sector/Type	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)
INVESTMENT PROJECTS						
1.	Transmission Interconnection Project from Lao PDR (Pak Beng or Pak Nguyen) to Thailand (Tha Wang Pha)	Lao PDR Thailand	Energy	TBD	TBD	TBD
2.	Rural Power Distribution and Efficiency Improvement Project (formerly Northern Cross-Border Power Trade and Distribution)	Lao PDR	Energy	2020	TBD	TBD
3.	Lao PDR–Viet Nam Power Transmission Interconnection II	Lao PDR Viet Nam	Energy	TBD	TBD	TBD
4.	GMS East–West Economic Corridor Agriculture Infrastructure Sector Project (Additional financing)	Lao PDR	Agriculture	2022	TBD	TBD
TECHNICAL ASSISTANCE PROJECT						
5	GMS East–West Economic Corridor Agriculture Infrastructure Sector Project (Additional financing)	Lao PDR	Agriculture	TBD	TBD	TBD

GMS = Greater Mekong Subregion, Lao PDR = Lao People's Democratic Republic, RIF = Regional Investment Framework, TBD = to be determined.
Source: GMS Secretariat.

Appendix 3. Funding Sources Supporting the Regional Investment Framework 2022

Multilateral	Bilateral	Private Sector
<ul style="list-style-type: none"> • ASEAN Infrastructure Fund • Asia Clean Energy Facility • Asian Development Bank • Clean Energy Fund Under the Clean Energy Financing Partnership Facility • Clean Technology Fund • European Investment Bank • Food and Agriculture Organization of the United Nations (FAO) • Forest Investment Program • GEF Special Climate Change Fund • Global Environment Facility • Global Climate Fund • Green Financing Facility • International Finance Corporation • International Fund for Agricultural Development • International Organization for Migration • Joint Committee on Coordination of Commercial Navigation Lancang– Mekong Cooperation Special Fund • Nordic Development Fund (NDF) • Ocean Financing Initiative • Oficina Internacional de Epizootias, World Organization for Animal Health (OIE) • Organization of Petroleum Exporting Countries (OPEC) Fund for International Development • Project Readiness Improvement Trust Fund • Spanish Cooperation Fund • Strategic Climate Fund • The Global Fund • World Bank (International Development Association) • World Health Organization 	<ul style="list-style-type: none"> • Department of Foreign Affairs and Trade (Australia) • Belgium • Canadian Climate Fund for the Private Sector • PRC • Finnish Ministry of Foreign Affairs, Department for International Development Cooperation/FINNIDA (Finland) • Agence Française de Développement • (French Development Agency, AFD) • Government of India • Kreditanstalt für Wiederaufbau (Credit Institute for Reconstruction, KfW Germany) • Japan International Cooperation Agency (JICA) • Japan Bank for International Cooperation (JBIC) • Korea International Cooperation Agency (KOICA, Republic of Korea) • Export–Import Bank of Korea (KEXIM, Republic of Korea) • Government of South Korea • Luxembourg • Netherlands • New Zealand • Swedish International Development Cooperation Agency • Swiss Agency for Development and Cooperation SDC, (Switzerland) • Neighbouring Countries Economic Development Cooperation Agency (NEDA, Thailand) • Thailand International Cooperation Agency (TICA) 	<ul style="list-style-type: none"> • China Harbour Engineering Co. Ltd (PRC) • China United Network • Giant Group (Malaysia) • Lao Telecom (Lao PDR) • Nam Ngiep 1 Power Company (Kansai Electric Power, EGAT International Lao State Holding Enterprise) • Nam Ngum Power Company (Lao PDR) • National Power Transmission Corporation (Viet Nam) • Song Da Group • Swisscontact • Viettel Group (Viet Nam)
GMS Countries: National and Local Government and/or Provincial Budgets		

ADB = Asian Development Fund, ASEAN = Association of Southeast Asian Nations, BOT = build-operation-transfer, EGAT = Electricity Generating Authority of Thailand, GMS = Greater Mekong Subregion, Lao PDR = Lao People's Democratic Republic, PRC = People's Republic of China.

Source: GMS Secretariat.

Appendix 4. Summary of Completed Projects in Greater Mekong Subregion Regional Investment Framework 2022 Fourth Update (2021)

Transport

CAMBODIA

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
INVESTMENT PROJECT						
1	Sihanoukville Port Access Road Improvements	Cambodia	2017	5.0	Government of Cambodia (National Budget)	Completed
2	Establishment of Bus/Truck Driving Test Center	Cambodia	2017	10.0	Private Sector	Completed
3	Cambodia: Poipet–Border Bridge/ Aranyaprathet (6.5 km)	Cambodia	2016	6.5	Government of Cambodia	Completed
Transport Investment Projects: Cambodia				21.5		

LAO PEOPLE'S DEMOCRATIC REPUBLIC

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
INVESTMENT PROJECT						
1	Hongsa (Xayaboury)– Chomphet (Luang Prabang) Construction (114 km)	Lao PDR	2015	56.0	NEDA Thailand	Completed
2	The Capital City Vientiane to Vang Vieng Section of Lao PDR Capital City Vientiane to PRC Mohan Port Highway Project	Lao PDR	2017	1,300.8	Government of the PRC	Completed
Transport Investment Projects: Lao PDR				1,356.8		

THAILAND

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
1	Mae Sot–Myawaddy Border Crossing Project and Infrastructure Improvements	Thailand Myanmar	2015	130.0	Government of Thailand	Completed
2	Single Rail Transfer Operator Development Project of Laem Chabang Port	Thailand	2018	90.0	Government of Thailand (PAT)	Completed

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Appendix 4 continued

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
3	Coastal Terminal Development Project of Laem Chabang Port	Thailand	2018	58.5	Government of Thailand (PAT)	Completed
4	Tak-Mae Sot Highway Improvement Project	Thailand	2008	100.0	Government of Thailand	Completed
Transport Investment Projects: Thailand				378.5		

VIET NAM

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
1	GMS Kunming-Haiphong Transport Corridor—Noi Bai-Lao Cai Highway (additional financing)	Viet Nam	2014	182.0	ADB-147.0 Government of Viet Nam-35.0	Completed
2	Second Northern GMS Transport Network Improvement (Luang Prabang- Thanh Hoa)	Viet Nam	2015	77.8		
Transport Investment Projects: Viet Nam				259.8		
Transport Investment Projects				2,016.6		

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
TECHNICAL ASSISTANCE PROJECT						
1	GMS Corridor Enhancement Project (formerly Project Preparatory Technical Assistance for National Highway 14D Improvement)	Viet Nam	2016	1.8	ADB	Completed
2	Proposed Hoa Lac-Hoa Binh City Expressway Public-Private Partnership Feasibility Study	Viet Nam	2018	1.0	Private Sector	Completed
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	2018	0.5	Government of Thailand	Completed
Transport TA Projects				3.3		
Total Transport Investment and TA Projects				2,019.90		

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Energy

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
INVESTMENT PROJECT						
1	Nam Ngiep 1 (NN1) Hydropower Project	Lao PDR	2014	976.7	ADB—215.7, JBIC—197.0, Private Sector —564.0 [NNP1 shareholders: KPIC Netherlands B.V., EGAT International, Lao Holding State Enterprise—226; Thai banks — 228]	Completed
2	Lao PDR–Thailand Nabong 500 kV Substation Transmission Facility	Lao PDR Thailand	2014	106.0	Nam Ngum 2 Power Company	Completed
3	Transmission Interconnection Project from Lao PDR (Na Bong) to Thailand (Udon Thani 3)	Lao PDR Thailand	2014	60.0	Nam Ngum 2 Power Company	Completed
4	230 kV Mawlamyine–Ye–Dawei Transmission Line	Myanmar	2020	TBD	Not available	Completed
Energy Investment Projects				1,142.7		
TECHNICAL ASSISTANCE PROJECT						
1	GMS Northern Cross-Border Power Trade and Distribution	Lao PDR	2017	0.8	ADB	Completed
1	Energy TA Projects			0.8		
Energy Investment and TA Projects				1,143.5		

Continued on next page

Agriculture

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
INVESTMENT PROJECT						
1	GMS Flood and Drought Risk Management and Mitigation Project	Cambodia Lao PDR Viet Nam	2013	101.5	ADB—81.5 Governments of the Lao PDR and Viet Nam—14.1 Cofinancing (Government of Australia)—5.9	Completed
Agriculture Investment Projects				101.5		
TECHNICAL ASSISTANCE PROJECT						
1	Climate Friendly Agri-Business Value Chains in the GMS	Cambodia Lao PDR Myanmar	2015	2.5	Canadian Climate Fund for the Private Sector—1.0 Asia Clean Energy Facility—1.5	Completed
Agriculture TA Projects				2.5		
Agriculture Investment and TA Projects				104.0		

Environment

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
TECHNICAL ASSISTANCE PROJECT						
1	Core Environment Program and Biodiversity Conservation Corridors Initiative in the GMS, Phase 2	All GMS Countries	2011	30.3	ADB—1.8 Cofinancing—28.5 (Finnida grant—14.0, Swedish TA grant—8.3; Nordic—5.3; GEF—0.46; GEF Special Climate Change Fund—0.46)	Completed
Environment TA Projects				30.3		

Continued on next page

Health and Other Human Resource Development

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
TECHNICAL ASSISTANCE PROJECT						
1	GMS HRD Strategic Framework and Action Plan 2013–2017, Phase 2	All GMS Countries	2013	2.1	ADB—1.3 PRC Fund—0.5 Governments of the GMS countries—0.3	Completed
2	Malaria and Communicable Diseases Control in the GMS	Cambodia Lao PDR Myanmar	2015	4.5	Trust Fund under the Health Financing Partnership Facility	Completed
3	Strengthening Resilience to Climate Change in the Health Sector in the Greater Mekong Subregion	Cambodia, Lao PDR, Viet Nam	2015	4.4	Nordic Development Fund —4.36 Governments of Cambodia, the Lao PDR, and Viet Nam —0.05	Completed
4	Poverty Reduction through Safe Migration, Skills Development and Enhanced Job Placement in Cambodia, Lao People’s Democratic Republic, Myanmar and Thailand (PROMISE)	Cambodia, Lao PDR, Myanmar, Thailand	2017	8.3	SDC IOM	Completed
5	High Level Technology Solutions for Communicable Disease Control in the Greater Mekong Subregion	Cambodia	2018	0.1	High Level Technology Fund/ ADB	Completed
Health and Other HRD TA Projects				19.4		

Continued on next page

Urban Development

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
TECHNICAL ASSISTANCE PROJECT						
1	Project Preparatory TA for Third Greater Mekong Subregion Corridor Towns Development Project	Myanmar	2014	1.5	ADB—1.0 Cofinancing—0.5	Completed
2	Greater Mekong Subregion: Capacity Development for Economic Zones in Border Areas	All GMS Countries	2015	0.9	ADB—0.5 Cofinancing—0.4	Completed
3	Fourth Greater Mekong Subregion Corridor Towns Development Project	Cambodia Lao PDR	2016	1.8	ADB	Completed
4	Project Preparatory TA for Second Mandalay Urban Services Improvement Project	Myanmar	2017	1.0	ADB—0.75 Cofinancing (Urban Climate Change Resilience Trust Fund under the Urban Financing Partnership Facility)—0.225	Completed
Urban Development TA Projects				5.2		

Other Multisector/Border Economic Zones

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
TECHNICAL ASSISTANCE PROJECT						
1	Strengthening the Coordination of the GMS Program	All GMS Countries	2010	6.0	ADB—5.95	Completed
2	Preparatory TA for Guangxi Regional Cooperation and Integration Promotion Investment Program	PRC	2016	1.2	ADB—1.0 Government of the PRC—0.2	Completed
3	Policy Coordination and Planning of Border Economic Zones of the People's Republic of China and Viet Nam (formerly Joint Feasibility Study on Cross-Border Economic Zones in the PRC and Viet Nam)	PRC Viet Nam	2017	0.4	PRC Regional Cooperation and Poverty Reduction Fund	Completed

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Appendix 4 continued

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
4	Project Preparatory TA for Yunnan-Lincang Cross-Border Economic Cooperation and Integration Promotion Investment Program	PRC	2018	0.5	ADB	Completed
Other Multisector/Border Economic Zones TA Projects				8.1		

Tourism

TECHNICAL ASSISTANCE PROJECT						
1	Preparing Second GMS Tourism Infrastructure for Inclusive Growth Project	Cambodia Lao PDR Myanmar Viet Nam	2016	2.2	ADB—1.5 NDF—0.7	Completed
2	Small-Scale Knowledge and Support Technical Assistance for 2018 Mekong Innovative Startup Tourism (MIST) Accelerator Program (aka Mekong Tourism Innovation) *2019 MIST Program Organized in Bangkok (October 2019)	Cambodia Lao PDR Myanmar Viet Nam	2018	0.2	DFAT Australia—0.225	Completed
3	Mekong Business Initiative	All GMS Countries	2015	0.2 estimated funding of about 0.2 for CRC and TMT)	ADB—1.0 DFAT Australia—11.5	Completed
4	Mekong Inclusive Growth and Innovation Program	Cambodia Lao PDR	2017	3.0	ODA-Swiss contact	Completed
Tourism TA Projects				5.6		

Transport and Trade Facilitation

No.	Project Title	Country Coverage	Year of Approval	Cost Estimate (\$ million)	Potential Funding Source and Amount (\$ million)	Status
TECHNICAL ASSISTANCE PROJECT						
1	Trade Facilitation through Partnership with the Private Sector	Cambodia Lao PDR Myanmar Thailand Viet Nam	2014	1.5	ADB (JFPR)	Completed
2	Support for Implementing the Action Plan on Transport and Trade Facilitation in the GMS (Subproject 2)	All GMS Countries	2014	3.7	DFAT (Australia)	Completed
3	Advancing Time Release Study in Southeast Asia	Cambodia Myanmar BIMP-EAGA	2017	1.0	ADB	Completed
Transport and Trade Facilitation TA Projects				6.2		
Total Investment Projects				3,260.8		
Total TA Projects				81.4		
Total Investment and TA Projects				3,342.2		

ADB = Asian Development Bank; BIMP-EAGA = B Brunei Darussalam–Indonesia–Malaysia–Philippines East ASEAN Growth Area; CRC = Crisis Resource Center; DFAT = Department of Foreign Affairs and Trade, Australia; EGAT = Electricity Generating Authority of Thailand; GEF = Global Environment Fund; GMS = Greater Mekong Subregion; HRD = Human Resource Development; ICT = information and communication technology; IOM = International Organization for Migration; JBIC = Japan Bank for International Cooperation; JFPR = Japan Fund for Poverty Reduction; kV = kilovolt; Lao PDR = Lao People's Democratic Republic; NDF = Nordic Development Fund, NEDA Thailand = Neighbouring Countries Economic Development Cooperation Agency; NNP₁ = Nam Ngiep Project 1; ODA = official development assistance; PAT (Thailand) = Port Authority of Thailand; PRC = People's Republic of China; SDC = Swiss Agency for Development and Cooperation; TA = technical assistance; TMT = TakemeTour.

Source: GMS Secretariat.

Regional Investment Framework 2022: Fourth Progress Report and Update

The Regional Investment Framework 2022 (RIF 2022) is the medium-term pipeline of priority investment and technical assistance projects in the Greater Mekong Subregion (GMS) and operationalizes the strategic thrusts and priorities of the GMS Program under the GMS Strategic Framework (2012–2022) and the Ha Noi Action Plan 2018–2022. The RIF 2022 was endorsed at the 22nd GMS Ministerial Conference in Ha Noi, Viet Nam on 20 September 2017 and then adopted by the GMS Leaders during the 6th GMS Summit of Leaders on 31 March 2018 in Ha Noi including the direction to ensure that the RIF is reviewed and updated regularly to adapt to changing conditions and priorities. This RIF 2022 Fourth Progress Report and Update represents updates to the RIF 2022 during the 2021 cycle (November 2020 to October 2021). It includes a revision to the RIF 2022 to a new total of 205 investment and technical assistance projects requiring a total of \$77.6 billion in financing.

About the Greater Mekong Subregion Economic Cooperation Program

The Greater Mekong Subregion (GMS) is made up of Cambodia, the Lao People’s Democratic Republic, Myanmar, the People’s Republic of China (specifically Yunnan Province and Guangxi Zhuang Autonomous Region), Thailand, and Viet Nam. In 1992, with assistance from the Asian Development Bank and building on their shared histories and cultures, the six countries of the GMS launched a program of subregional economic cooperation—the GMS Program—to enhance their economic relations. The GMS Program covers the following sectors: agriculture; energy; environment; health and other human resource development; information and communication technology; tourism; transport; transport and trade facilitation; urban development; and border economic zones.

About the Asian Development Bank

ADB is committed to achieving a prosperous, inclusive, resilient, and sustainable Asia and the Pacific, while sustaining its efforts to eradicate extreme poverty. Established in 1966, it is owned by 68 member countries—49 from Asia and the Pacific. Its main instruments for helping its developing member countries are policy dialogue, loans, equity investments, guarantees, grants, and technical assistance.

GMS Secretariat

Southeast Asia Department
Asian Development Bank
6 ADB Avenue, Mandaluyong City
1550 Metro Manila, Philippines
Fax: +63 2 636 2226
E-mail: gms@adb.org
Web addresses:
<https://www.adb.org/countries/gms/main>
<https://www.greatermekong.org/>