



Country Operations Business Plan

November 2017

Viet Nam
2018–2020

This document is being disclosed to the public in accordance with ADB's Public Communications Policy 2011.

Asian Development Bank

CURRENCY EQUIVALENTS

(as of 20 October 2017)

Currency unit	–	dong (D)
D1.00	=	\$0.0000440083
\$1.00	=	D22,723

ABBREVIATIONS

ADB	–	Asian Development Bank
COBP	–	country operations business plan
COL	–	concessional ordinary capital resources lending
OCR	–	ordinary capital resources
TA	–	technical assistance

NOTE

In this report, “\$” refers to United States dollars.

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I. CONSISTENCY OF BUSINESS PLAN WITH COUNTRY PARTNERSHIP STRATEGY

1. The country operations business plan (COBP), 2018–2020 is consistent with the country partnership strategy of the Asian Development Bank (ADB) for Viet Nam, 2016–2020 and its three outcome-based pillars: (i) promoting job creation and competitiveness, (ii) increasing the inclusiveness of infrastructure and service delivery, and (iii) improving environmental sustainability and climate change response. It is in line with the strategic directions of the Government of Viet Nam’s socioeconomic development plan 2016–2020, and reflects a sharpened operational focus, as identified in ADB’s Strategy 2020 midterm review.¹

2. As of 31 December 2016, ADB’s active Viet Nam lending portfolio comprised 80 loans totaling \$9.4 billion, with a net effective amount of \$8.0 billion. Cumulative contract awards amounted to \$5.3 billion, and cumulative disbursements \$4.3 billion. The country portfolio consisted of active loans in transport (44.1%), energy (18.0%), water and other municipal infrastructure and services (13.2%), agriculture and natural resources (8.2%), public sector management (6.3%), education (5.7%), health and social protection (2.8%), multisector (1.1%), and industry and trade (0.7%).

II. INDICATIVE RESOURCE PARAMETERS

3. Viet Nam, a group B developing member country, is eligible for regular ordinary capital resources (OCR) lending and concessional OCR lending (COL). The indicative resources available for commitment during 2018–2020 for sovereign operations amount to \$2,965.6 million, comprising \$475.3 million from COL and \$2,490.3 million from regular OCR lending.² Additional COL resources of \$30.0 million from the regional cooperation and integration set-aside, \$12.0 million in Asian Development Fund grants from the Regional Health Security Pool, and \$108.3 million in unutilized COL allocated for 2017 are also available for 2018.

4. ADB’s firm lending pipeline (including regional projects) for Viet Nam during 2018–2020 amounts to \$2,444.6 million, comprising \$653.9 million to be funded from COL, \$1,778.7 million from regular OCR, and \$12.0 million in Asian Development Fund grants.³ Areas of assistance and the resource allocation for each sector are in Appendix 1. The COBP includes six policy-based lending operations totaling \$586.0 million. These operations will comprise 24% of ADB’s total lending operations. The lending and nonlending programs for 2018–2020 are in Appendix 2. In addition to the COBP pipeline, ADB and the government have agreed on a list of six large projects; however, the timing of the financing needs of these projects is uncertain.⁴ ADB and the government will continue to undertake necessary preparatory actions and include the projects in the COBP when they are well designed and a timeline for ADB financing is agreed upon.

5. Firm lending cofinancing of \$609.8 million will be sought from other development partners during 2018–2020, and \$13.8 million in cofinancing will be sought for TA projects. Additional cofinancing opportunities will also be pursued during COBP implementation.

¹ ADB. 2014. *Midterm Review of Strategy 2020, Meeting the Challenges of a Transforming Asia and Pacific*. Manila.

² Viet Nam will be reclassified as group C effective 1 January 2019, after which the COL allocation for Viet Nam under the indicative resources available in 2018–2020 as of 10 March 2017 will be converted into OCR.

³ COL is overprogrammed by \$40.3 million. Cofinancing and funding from other sources, including regional cooperation and integration COL set-aside and COL savings, will be explored to meet this gap.

⁴ The large projects list includes (i) the Distribution Grid Development Project for Viet Nam Electricity Corporation; (ii) Ho Chi Minh City (HCMC) Waste Water and Drainage System Improvement; (iii) the Second Greater Mekong Subregion Southern Coastal Corridor; (iv) HCMC Metro Line 5; (v) Rural Electrification; and (vi) the Ha Noi Metro Rail Extension (Line No. 3: Ha Noi Railway Station to Hoang Mai Section).

6. High project readiness is key for timely project implementation. ADB and the government have prepared project readiness filters to improve project implementation and reduce implementation delays. In addition to ADB technical assistance, line ministries and executing agencies are encouraged to consider using their own resources to support project preparatory requirements. The 2017 lending and nonlending programs are in Appendix 3.

7. ADB's private sector operations will consider projects in the transport, energy, telecommunications, water and sanitation, industrial zones, financial, healthcare, agriculture, and education sectors. ADB's Office of Public–Private Partnerships will continue to seek out new transaction advisory mandates, in addition to providing technical support for high-priority infrastructure projects, and building in-country public–private partnership capacity. ADB will provide continued support for trade finance through the ADB Trade Finance Program; consider equity investments focused on infrastructure development and operation; provide long-term credit facilities to banks and nonbank financial institutions to support micro-entrepreneurs, small and medium-sized enterprises, and the deployment of affordable and green housing; and explore investment opportunities in digital financing and agri-business.

8. ADB's Viet Nam Country Knowledge Plan, 2016–2020 identifies three main operationally relevant priorities as the focus of ADB knowledge production and dissemination.⁵ These include (i) structural reform and economic competitiveness; (ii) integrated urban development; and (iii) private sector development. ADB will also foster knowledge partnerships in social service delivery, gender, environmental sustainability, natural resource management, and public financial management. Knowledge products and events and innovation, advanced technology, and pilot initiatives to be implemented in 2018 are in Appendix 4.

III. SUMMARY OF CHANGES TO LENDING AND NONLENDING PROGRAMS

9. Adjustments to the 2018–2020 lending program include the following:

(i) **Changes in 2018.** Dropped Support to Private Sector Investment; moved the Ha Noi–Lang Son Expressway from 2017; and advanced the Second Health Human Resources Sector Development Program, and GMS Corridor Connectivity Enhancement from 2019.

(ii) **Changes in 2019.** Dropped the HCMC Integrated Public Transport Investment Program; moved Strengthening Private Enterprise for Innovation-Led Growth from 2018; and added Central Region Connectivity Enhancement and Central Power Solar Plant.

(iii) **Changes in 2020.** Moved the Financial Sector Development and Inclusion Program—Subprogram 2 from 2019; the Ho Chi Minh City Metro Line 2 to 2020 standby; and the Second Greater Mekong Subregion Southern Coastal Corridor, Distribution Grid Development for Viet Nam Electricity Corporation, and Rural Electrification to the large projects list; added the HCMC Third Ring Road, and Improved Living Standards for Ethnic Minorities.

10. The 2018–2020 nonlending program has also been adjusted.

⁵ ADB. 2016. *Viet Nam: Country Knowledge Plan, 2016–2020*. Ha Noi.

COUNTRY ASSISTANCE RESULTS AREAS

Key Country Development Outcomes that ADB Contributes to	ADB		
	Key Areas of Assistance	Indicative Resource Allocation in 2018–2020	Changes from Last COBP
1. Energy			
Efficiency and sustainability of the power supply increased	Power sector reform and market development Transmission and distribution enhancement Energy efficiency and renewable energy promotion	Amount: \$305.0 million and \$247.0 million (cofinancing) Share of COBP envelope: 12.5%	Two projects have been moved to the large projects list
2. Transport			
Connectivity between domestic and international markets enhanced	Roads Border services improvement Urban transport	Amount: \$970.1 million and \$362.0 million (cofinancing) Share of COBP envelope: 39.7%	One project has been moved from 2017 to 2018; one has been advanced to 2018; one has been dropped from 2019; one has been added to 2019; one has been moved to 2020 standby; one has been added to 2020; and one has been moved to the large project list.
3. Water and Other Urban Infrastructure and Services			
Urban resilience promoted, and urban infrastructure and urban services improved	Urban planning, policies, and reforms Water and sanitation infrastructure Wastewater management	Amount: \$222.5 million Share of COBP envelope: 9.1%	None
4. Education			
Education system needs of a middle-income country met, and the development of a productive, competitive, and innovative economy supported Job creation and employment conditions improved	Secondary education Technical and vocational education and training	Amount: \$200 million Share of COBP envelope: 8.2%	None
5. Health			
Health system needs of a middle-income country met, and the development of a	Health system development to improve primary healthcare	Amount: \$192.0 million Share of COBP envelope: 7.8%	One project has been advanced to 2018.

Key Country Development Outcomes that ADB Contributes to	ADB		
	Key Areas of Assistance	Indicative Resource Allocation in 2018–2020	Changes from Last COBP
productive, competitive, and innovative economy supported	Health human resource development		
6. Public Sector Management			
Efficiency and effectiveness of Viet Nam's public expenditure improved	Reform of public financial management systems	Amount: \$380.0 million	One project has been moved to 2019.
	Enabling support for public–private partnerships	Share of COBP envelope: 11.4%	
7. Finance			
Development and inclusiveness of the financial sector increased	Finance sector development	Amount: \$200.0 million Share of COBP envelope: 4.1%	One project has been dropped from 2018. One project has been moved from 2019 to 2020.
	Inclusive finance		
	Insurance and contractual savings		
	Money and capital markets		
8. Agriculture, Natural Resources, and Rural Development			
Irrigation command areas served by water-efficient irrigation infrastructure increased	Rural infrastructure development	Amount: \$325.0 million and \$1.0 million (cofinancing)	One project has been added to 2020.
	Water efficiency		
Income earning opportunities for rural workers improved	Rural business commercialization	Share of COBP envelope: 7.2%	

ADB = Asian Development Bank, COBP = country operations business plan.

Source: ADB estimates.

INDICATIVE ASSISTANCE PIPELINE

Table A2.1: Lending Products, 2018–2020

Project/Program Name	Sector	Poverty Targeting	Strategic Agendas and Drivers of Change	Division	Year of TRTA /PDA	Cost (\$ million)						Co-finance
						ADB				Total	Gov't	
						Total	Regular OCR	COL	ADF Grants			
2018 Firm												
GMS Ha Noi–Lang Son Expressway	TRA	GI	IEG, RCI	SETC	...	386.1	356.7	28.9	0.0	385.6	0.5	0.0
Water Efficiency Improvement for Drought Affected Provinces	ANR	TI	ESG, GEM, GCD, KNS	SEER	2016	124.3	0.0	100.0	0.0	100.0	23.2	1.1 ^a
Market-Oriented Power Sector Reform Program—Subprogram 1 (PBL)	ENE	GI	IEG, ESG, PSD, GCD, PAR	SEEN	2015	417.0	170.0	0.0	0.0	170.0	0.0	247.0 ^b
Third Secondary Education Development Program (PBL)	EDU	GI	IEG, GEM, GCD	SEHS	2014	100.0	0.0	100.0	0.0	100.0	0.0	0.0
Second GMS Tourism Infrastructure for Inclusive Growth	TRA, WUS	GI	ESG, RCI, GEM, GCD, PAR	LRM	2016	49.0	0.0	45.0	0.0	45.0	4.0	0.0
Local Health Care Sector Development Program (including Health Security Grant) (SDP)	HLT	TI-M	IEG, GEM, PAR	SEHS	...	102.0	0.0	80.0	12.0	92.0	10.0	0.0
Second Health Human Resources Development	HLT	TI-M	IEG, GEM, GCD, PAR	SEHS	2015	110.0	20.0	80.0	0.0	100.0	10.0	0.0
GMS Corridor Connectivity Enhancement	TRA	GI	IEG, RCI	SETC	2016	180.0	0.0	120.0	0.0	120.0	60.0	0.0
Skills and Knowledge for Inclusive Economic Growth Sector Development Program—Subprogram 1 (SDP)	EDU	GI	IEG, GEM, GCD	SEHS	2015	120.0	0.0	100.0	0.0	100.0	20.0	0.0
Total						1,588.4	546.7	653.9	12.0	1,212.6	127.7	248.1
2018 Standby												
Strengthening Private Sector for Innovation-Led Growth	PSM	GI	IEG, GCD, KNS, RCI	VRM	...	200.0	180.0	0.0	0.0	180.0	20.0	0.0
Central Power Solar Plant	ENE	TI	IEG, ESG, GEM, PAR	SEEN	...	80.0	60.0	0.0	0.0	60.0	20.0	0.0

Project/Program Name	Sector	Poverty Targeting	Strategic Agendas and Drivers of Change	Division	Year of TRTA /PDA	Cost (\$ million)						
						ADB					Gov't	Co-finance
						Total	Regular OCR	COL	ADF Grants	Total		
Total						280.0	240.0	0.0	0.0	240.0	40.0	0.0
2019 Firm												
Strengthening Private Sector for Innovation-Led Growth	PSM	GI	IEG, GCD, KNS, RCI	VRM	...	200.0	180.0	0.0	0.0	180.0	20.0	0.0
Central Power Solar Plant	ENE	TI	IEG, ESG, GEM, PAR	SEEN	...	80.0	60.0	0.0	0.0	60.0	20.0	0.0
Urban Climate Change Resilience	WUS	GI	IEG, GEM	SEUW	2017	214.0	200.0	0.0	0.0	200.0	14.0	0.0
Improving Public Expenditure Quality Program— Subprogram 2 (PBL)	PSM	GI	IEG	SEPF, VRM	2015	100.0	100.0	0.0	0.0	100.0	0.0	0.0
Central Region Connectivity Enhancement	TRA	GI	IEG, RCI	SETC	2016	110.0	100.0	0.0	0.0	100.0	10.0	0.0
Total						704.0	640.0	0.0	0.0	640.0	64.0	0.0
2019 Standby												
Ho Chi Minh City Third Ring Road (Ben Luc–NH22)	TRA	GI	IEG	SETC	2010	733.7	342.0	0.0	0.0	342.0	30.0	361.7 ^c
Total						733.7	342.0	0.0	0.0	342.0	30.0	361.7
2020 Firm												
Ho Chi Minh City Third Ring Road (Ben Luc–NH22)	TRA	GI	IEG	SETC	2010	733.7	342.0	0.0	0.0	342.0	30.0	361.7 ^c
Improved Living Standards of Ethnic Minorities	ENE, ANR	TI-G	IEG, ESG, GEM	VRM	2018	170.0	150.0	0.0	0.0	150.0	20.0	0.0
Financial Sector Development and Inclusion Program— Subprogram 2 (PBL)	FIN	GI	IEG, GCD, KNS	SEPF	2016	100.0	100.0	0.0	0.0	100.0	0.0	0.0
Total						1,003.7	592.0	0.0	0.0	592.0	50.0	361.7
2020 Standby												
Basic Infrastructure for Inclusive Growth 3	ANR	TI	IEG, ESG, GEM, GCD	SEER	2018	210.0	200.0	0.0	0.0	200.0	10.0	0.0
Rural Water Supply	WUS	TI	ESG, GEM	SEUW	2018	90.0	80.0	0.0	0.0	80.0	10.0	0.0
Ho Chi Minh Metro Line 2 (additional financing)	TRA	GI	IEG, GEM, PAR	SETC	2014	758.0	500.0	0.0	0.0	500.0	30.0	228.0 ^d

Project/Program Name	Sector	Poverty Targeting	Strategic Agendas and Drivers of Change	Division	Year of TRTA /PDA	Cost (\$ million)						
						ADB					Gov't	Co-finance
						Total	Regular OCR	COL	ADF Grants	Total		
Rural Business Commercialization and Competitiveness Enhancement	ANR	TI-G	IEG, ESG, PSD, KNS	SEER	2017	160.0	150.0	0.0	0.0	150.0	10.0	0.0
Total						1,218.0	930.0	0.0	0.0	930.0	60.0	228.0

ADB = Asian Development Bank; ADF = Asian Development Fund; ANR = agriculture, natural resources, and rural development; COL = concessional ordinary capital resources lending; EDU = education; ENE = energy; ESG = environmentally sustainable growth; FIN = finance; GCD = governance and capacity development; GEM = gender equity and mainstreaming; GI = general intervention; GMS = Greater Mekong Subregion; Gov't = government; HLT = health; IEG = inclusive economic growth; KNS = knowledge solutions; LRM = Lao Resident Mission; NH = National Highway; OCR = ordinary capital resources; PAR = partnerships; PBL = policy-based lending; PDA = project design advance; PSD = private sector development; PSM = public sector management; RCI = regional cooperation and integration; SDP = sector development program; SEEN = Southeast Asia Energy Division; SEER = Southeast Asia Environment, Natural Resources, and Agriculture Division; SEHS = Southeast Asia Human and Social Development Division; SEPF = Southeast Asia Public Management, Financial Sector, and Trade Division; SETC = Southeast Asia Transport and Communications Division; SEUW = Southeast Asia Urban Development and Water Division; TI = targeted intervention; TI-G = targeted intervention—geographic dimensions of inclusive growth; TI-M = targeted intervention—Millennium Development Goals; TRA = transport; TRTA = transaction technical assistance; VRM = Viet Nam Resident Mission; WUS = water supply and other urban infrastructure and services.

^a The Water Financing Partnership Facility.

^b \$170 million from the World Bank, and \$77 million from KfW.

^c To be determined.

^d \$172 million from KfW, and \$56 million from the European Investment Bank.

Source: ADB.

Table A2.2: Nonlending Products and Services, 2018–2020

Assistance Name	Sector	Division	Assistance Type	Sources of Funding				Total (\$'000)
				ADB		Others		
				Source	Amount (\$'000)	Source	Amount (\$'000)	
2018								
Water Sector Corporate Reform Program Management	WUS	SEUW	KSTA			TF	1,500	1,500
Piloting Fecal Sludge Management in Viet Nam	WUS	SEUW	KSTA			BAMGF	2,000	2,000
Third Secondary Education Development Program (attached TA)	EDU	SEHS	TRTA			TF	2,000	2,000
Second Health Human Resources Development Project (attached TA)	HLT	SEHS	TRTA			TF, e-Asia Knowledge Fund, UCCRTF	3,500 ^a	3,500
Skills and Knowledge for Inclusive Economic Growth (attached TA)	EDU	SEHS	TRTA			TF	2,000	2,000
Rural Business Commercialization and Competitiveness Enhancement	ANR	SEER	TRTA	TASF	800			800
HCMC MRT Line 5 Integration	TRA	SETC	TRTA			TBD	1,000	1,000
Accelerating Renewable Energy Expansion	ENE	SEEN	KSTA			TF	1,000	1,000
Urban Climate Change and Resilience Facility TA	WUS	SEUW	TRTA	TASF	2,000			2,000
North–South Expressway	TRA	SETC	TRTA	TASF	1,000			1,000
Improved Living Standards of Ethnic Minorities	ENE, ANR	VRM	TRTA	TASF	800			800
Supporting Technology for Easier Financial Access	FIN	SEPF	KSTA			TF	750	750
Power Sector Development Cluster—Subproject 1	ENE	SEEN	TRTA	TASF	1,000			1,000
Total					5,600		13,750	19,350
2019								
Second Skills and Knowledge for Inclusive Economic Growth	EDU	SEHS	TRTA	TASF	600			600
Health System Improvement Program	HLT	SEHS	TRTA	TASF	600			600
Rural Environmental Management	ANR	SEER	TRTA	TASF	1,000			1,000
Total					2,200			2,200
2020								
Climate Adaptation through Irrigation Modernization Sector Program	ANR	SEER	TRTA	TASF	1,000			1,000
Total					1,000			1,000

ADB = Asian Development Bank; ANR = agriculture, natural resources, and rural development; BAMGF = Bill and Melinda Gates Foundation; EDU = education; ENE = energy; HCMC = Ho Chi Minh City; HLT = health; KSTA = knowledge and support technical assistance; MRT = mass rapid transit; SEEN = Southeast Asia Energy Division; SEER = Southeast Asia Environment, Natural Resources, and Agriculture Division; SEHS = Southeast Asia Human and Social Development Division; SETC = Southeast Asia Transport and Communications Division; SEUW = Southeast Asia Urban Development and Water Division; TA = technical assistance; TASF = Technical

Assistance Special Fund; TBD = to be determined; TF = trust fund; TRA = transport; TRTA = transaction technical assistance; UCCRTF= Urban Climate Change Resilience Trust Fund; WUS = water and other urban infrastructure and services.

^a \$2 million from a TF, \$1 million from the UCCRTF, and \$0.5 million from the e-Asia Knowledge Fund

Source: ADB.

ASSISTANCE PROGRAM FOR THE CURRENT YEAR
Table A3.1: Lending Products, 2017

Project/Program Name ^a	Sector	Poverty Targeting	Strategic Agendas and Drivers of Change	Division	Year of TRTA/PDA	Cost (\$ million)						
						ADB				Gov't	Co-finance	
						Total	Regular OCR	COL	ADF Grants			Total
Firm												
GMS Health Security ^b	HLT	TI-M	ESG, RCI, GEM, GCD, PAR	SEHS	2014	84.0	0.0	80.0	0.0	80.0	4.0	0.0
GMS Ben Luc–Long Thanh Expressway (Tranche 2) ^b	TRA	GI	IEG, RCI, PAR	SETC	2008	862.9	286.0	0.0	0.0	286.0	59.3	517.6 ^c
Urban Environment and Climate Change Adaptation ^b	WUS	GI	IEG, GEM	SEUW	2012	134.8	100.0	0.0	0.0	100.0	30.8	4.0 ^d
Second Secondary Education Sector Development (SDP) ^b	EDU	GI	IEG, GEM, GCD	SEHS	2014	107.0	0.0	100.0	0.0	100.0	7.0	0.0
Support to Border Areas Development ^b	TRA, PSM	TI-G	IEG, ESG, RCI, GEM, PSD, GCD	VRM	2014	122.1	0.0	106.5	0.0	106.5	15.6	0.0
Improving Public Expenditure Quality Program—Subprogram 1 (PBL) ^b	PSM	GI	IEG	VRM, SEPF	2015	200.0	82.7	117.3	0.0	200.0	0.0	0.0
Power Transmission Investment Program (Tranche 4)	ENE	GI	IEG, PSD, PAR	SEEN	2010	384.1	144.1	0.0	0.0	144.1	240.0	0.0
Financial Sector Development and Inclusion Program—Subprogram 1 (PBL)	FIN	GI	IEG, GCD, KNS, PSD	SEPF	2016	200.0	200.0	0.0	0.0	200.0	0.0	0.0
Basic Infrastructure for Inclusive Growth in Northeast Provinces (BIIG 1)	ANR, TRA	TI	IEG, ESG, RCI	SEER, VRM	2015	197.2	0.0	150.0	0.0	150.0	37.2	10.0 ^e
Secondary Cities Development (Green Cities)	WUS	GI	IEG, GEM, PAR	SEUW	2014	223.9	50.0	120.0	0.0	170.0	47.9	6.0 ^f
Basic Infrastructure for Inclusive Growth Project in North Central Provinces (BIIG 2)	ANR, TRA	TI	IEG, ESG, RCI	SEER, VRM	2015	203.5	52.0	97.0	0.0	149.0	54.5	0.0
Total						2,719.5	914.8	770.8	0.0	1,685.6	496.3	537.6

ADB = Asian Development Bank; ADF = Asian Development Fund; ANR = agriculture, natural resources, and rural development; COL = concessional ordinary capital resources lending; EDU = education; ENE = energy; ESG = environmentally sustainable growth; FIN = finance; GCD = governance and capacity development; GEM = gender equity and mainstreaming; GI = general intervention; GMS = Greater Mekong Subregion; Gov't = government; HLT = health; IEG = inclusive economic growth; KNS = knowledge solutions; OCR = ordinary capital resources; PAR = partnerships; PBL = policy-based lending; PDA = project design advance; PSD = private sector development; PSM = public sector management; RCI = regional cooperation and integration; SDP = sector development project; SEEN = Southeast Asia Energy Division; SEER = Southeast Asia Environment, Natural Resources, and Agriculture Division; SEHS = Southeast Asia Human and Social Development Division; SEPF = Southeast Asia Public Management, Financial Sector and Trade Division; SETC = Southeast Asia Transport and Communications Division; SEUW = Southeast Asia Urban Development and Water Division; TI = targeted intervention; TI-

G = targeted intervention—geographic dimensions of inclusive growth; TI-M = targeted intervention—Millennium Development Goals; TRTA = transaction technical assistance; TRA = transport; VRM = Viet Nam Resident Mission; WUS = water supply and other urban infrastructure and services.

^a Given the provisional nature of the indicative lending program, the composition of the lending instruments delivered may change. Investment lending accounted for 79.7% of sovereign lending commitments in the 3-year period 2014–2016, while conventional PBL was 20.3%.

^b Project approved prior to 2017.

^c The Japan International Cooperation Agency.

^d The Urban Climate Change Resilience Trust Fund.

^e The International Fund for Agriculture Development.

^f \$4 million from the Urban Climate Change Resilience Trust Fund, and \$2 million from the Global Environment Facility.

Source: ADB.

Table A3.2: Nonlending Products and Services, 2017

Assistance Name	Sector	Division	Assistance Type	Sources of Funding				Total (\$'000)
				ADB		Others		
				Source	Amount (\$'000)	Source	Amount (\$'000)	
Firm								
Enhancing Readiness for Solar Power Deployment in Viet Nam	ENE	SEEN	SS-KSTA	TASF	225			225
Financial Sector Development and Inclusion Program—Subprogram 2	FIN	SEPF	TRTA	TASF	900			900
Improving Portfolio Performance and Aid Management Phase 2	PSM	VRM	KSTA	TASF	600			600
Support Public Finance Management and Decentralization	PSM	VRM	KSTA	TASF	1,000			1,000
Northern to Central 500kV Transmission Grid Reinforcement Project	ENE	SEEN	TRTA	TASF	1,000			1,000
Enhancing Agricultural Competitiveness in Viet Nam	ANR	SEER	KSTA			JFPR	1,800	1,800
Support to Viet Nam Academy of Social Sciences	EDU	SEHS	KSTA	TASF	100	JFPR	1,200	1,300
Secondary Cities Development (attached TA)	WUS	SEUW	TRTA			UCCRTF, GEF	12,300 ^a	12,300 ^a
Improving Operational Performance of Water Supply Sector Project (Supplementary)	WUS	SEUW	TRTA			WFPF	120	120
Urban Climate Change Resilience Program	WUS	SEUW	TRTA			UCCRTF	1,000	1,000
Total					3,825		16,420	20,245
Standby								
Water Sector Corporate Reform Program Management	WUS	SEUW	TRTA			TF	1,500	1,500
Total							1,500	1,500

ADB = Asian Development Bank; ANR = agriculture, natural resources, and rural development; EDU = education; ENE = energy; FIN = finance; GEF = Global Environment Facility; JFPR = Japan Fund for Poverty Reduction; KSTA = knowledge and support technical assistance; kV = kilovolt; PSM = public sector management; SEEN = Southeast Asia Energy Division; SEER = Southeast Asia Environment, Natural Resources, and Agriculture Division; SEHS = Southeast Asia Human and Social Development Division; SEPF = Southeast Asia Public Management, Financial Sector, and Trade Division; SEUW = Southeast Asia Urban Development and Water Division; SS-KSTA = small-scale knowledge and support technical assistance; TA = technical assistance; TASF = Technical Assistance Special Fund; TF = trust fund; TRTA = transaction technical assistance; UCCRTF = Urban Climate Change Resilience Trust Fund; VRM = Viet Nam Resident Mission; WFPF = Water Financing Partnership Facility; WUS = water and other urban infrastructure and services.

^a \$1.5 million from the UCCRTF, \$4.6 million from the GEF Special Climate Change Fund, and \$6.2 million from the GEF Trust Fund.

Source: ADB.

INDICATIVE KNOWLEDGE PUBLICATIONS AND EVENTS

Table A4.1: Knowledge Publications and Events for 2018

Title of Publication or Event	Subject	Type	Department or Sector Group or Thematic Group	Technical Assistance
Asian Development Outlook	Economics	Publication	SERD	None
Asian Development Outlook Update	Economics	Publication	SERD	None
Study on Renewable Energy in Viet Nam	Energy	Publication	SERD	None
Study on Sustainable Human Resource Development	Education	Publication	SERD	None
Improving Risk Management of Sub-National Borrowing	Public financial management	Publication	SERD	8980
Reducing Fiscal Risks from Government Guarantees	Public financial management	Publication	SERD	8980
Climate Change and Health	Climate change	Publication	SERD	8898
Climate Resilient Urban Planning in Viet Nam	Urban, climate change	Publication	SERD	9002
Viet Nam National Urban Development Strategy 2030	Urban, climate change	Publication	SERD	9002
Midterm Review of the GMS Strategic Framework and Ha Noi Plan of Action	Regional cooperation initiative	Publication	SERD	7561
Third GMS Handbook of Statistics on Growth, Connectivity and Sustainable Development	Regional cooperation initiative	Publication	SERD	7561/8977
GMS Economic Corridor Assessment Study	Regional cooperation initiative	Publication	SERD	7561
GMS Multimodal Transport Sector Study/Strategy	Regional cooperation initiative	Publication	SERD	7561
GMS Sixth Leaders Summit in Ha Noi	Regional cooperation initiative	Event	SERD	7561
Asian Development Outlook	Economics	Event	SERD	None
Asian Development Outlook Update	Economics	Event	SERD	None
Climate Change and Health Training Workshop	Climate change	Event	SERD	8898
Total number of publications = 13 Total number of events = 4				

ADB = Asian Development Bank, SERD = Southeast Asia Department.

Note: "Publications" may include databases, multimedia, and other forms of documentation. "Events" may include event organization and training or capacity development.

Source: ADB.

Table A4.2: Additional Knowledge Publications and Events Delivered in 2017

Title of Publication or Event	Subject	Type	Department or Sector Group or Thematic Group	Technical Assistance
Asian Development Outlook	Economics	Publication	SERD	None
Asian Development Outlook Update	Economics	Publication	SERD	None
Private Sector Assessment (Viet Nam)	Private sector development	Publication	SERD	None
Viet Nam Government Project Processing Guidelines and Handbook	Governance and public sector management	Publication	SERD	8806
Guidance Note on Management Construction of Works in Viet Nam	Governance and public sector management	Publication	SERD	8806
Frequently Asked Questions Booklet for Project Implementation Issues in Viet Nam	Governance and public sector management	Publication	SERD	8806
GMS Tourism Strategy 2016–2025	Industry and trade	Publication	SERD	9090
Risk Assessment of Provincial Government Borrowing from Commercial Banks	Governance and public sector management	Publication	SERD	8990
Debt and Equity Financing—The Roles of Banks, Angels and Venture Capital Funds	Private sector development	Publication	SERD	None
Business and Innovation Support Services	Private sector development	Publication	SERD	None
Assessment of GMS Human Resource Development Strategic Framework and Action Plan (2012–2017)	Regional cooperation initiative	Publication	SERD	7561
RIF IP Fourth Progress Report	Regional cooperation initiative	Publication	SERD	7561
Towards Market-Based Regulation of Metro and Rail Infrastructure	Public financial management	Publication	SERD	8980
The Evolution of Vietnam’s Competitive Power Market: Lessons and Challenges	Energy	Publication	SERD	7262-VIE
Lessons Learned from Problem Solving in Viet Nam (Central Mekong Delta Region Connectivity Project)	Transport	Publication	OSPF	None
GMS Ninth Economic Corridors Forum and Ministerial Conference, Ha Noi	Regional cooperation initiative	Event	SERD	7561
Asian Development Outlook Dissemination	Economics	Event	SERD	None
Asian Development Outlook Update Dissemination	Economics	Event	SERD	None

Title of Publication or Event	Subject	Type	Department or Sector Group or Thematic Group	Technical Assistance
Total number of publications = 15 Total number of events = 3				

ADB = Asian Development Bank, ASEAN = Association of South East Asian Nations, GMS = Greater Mekong Subregion, OSPF = Office of the Special Project Facilitator, SERD = Southeast Asia Department, RIF IP = regional investment framework implementation plan.

Note: "Publications" may include databases, multimedia, and other forms of documentation. "Events" may include event organization and training or capacity development.
Source: ADB.

Table A4.3: Innovation, Advanced Technology, and Pilot Initiatives to be Implemented in 2018

Item	Nature	Project Number	Sector or Theme	Division
Curriculum, textbooks, teaching methods, and learning assessment improvement based on the PISA 2015 results	INO	39538-035	EDU	SEHS
Piloting and supporting business incubators and SME accelerator programs with a focus on tourism, financial services, and agribusiness (supported by the Mekong Business Initiative)	INO, PLT	48270-001	PSM	VRM
Improved public accessibility and low-carbon transport options in urban metro design (supported by the Clean Technology Fund)	TCH	45200-002	TRA	SETC
Utilization of a PPSSF to strengthen the project readiness of the Ho Chi Minh metro	INO	45098-001	PSM	VRM
Piloting alternative funding mechanisms that incentivize private enterprises to invest in advanced technologies that solve urbanization problems in Ho Chi Minh City and Da Nang	INO, TCH, PLT	48270-001	TRA, WUS, EDU, FIN, PSM	VRM
Supporting the development and implementation of a financial stability framework and crisis response mechanisms, including (i) operationalizing the State Bank of Viet Nam's interdepartmental taskforce and working group on financial stability, (ii) developing and piloting systemic risk surveillance, and (iii) and pilot developing financial stability reports	PLT	49331-001	FIN	SEPF, VRM
Supporting the formation of an institutional coordination framework and related capacity building for the development of financial technology in Viet Nam	INO, TCH	49331-001	FIN	SEPF, VRM
Supporting the development of the money market in Viet Nam through the introduction of a localized repurchase agreement, and completing a comprehensive diagnostic to facilitate the establishment of a short-term benchmark interest rate, among others	PTL, INO	49331-001	FIN	SEPF, VRM
Utilization of the project readiness improvement trust fund to strengthen project design and accelerate project startup	INO	490260-002	ANR	SEER, VRM
A Bridge Health Monitoring System developed for the 2,400-meter long Cao Lanh cable stay bridge	TCH	Loan 3013/Grant 0353 and TA 7822-VIE: Central Mekong Delta Connectivity Project	TRA	VRM
Modernized (piped) irrigation systems with satellite-based technology for water productivity assessment and supervisory control and data acquisition to support the piloting of water charges	INO, TCH, PLT	49404-001	ANR	SEER
Total number of innovation, advanced technology, and pilot initiatives = 11				

ANR = agriculture, natural resources, and rural development; BHMS = Bridge Health Monitoring System; EDU = education; FIN = finance; INO = innovation; PISA = program for international student assessment; PLT = pilot initiative; PPSSF = project preparation and start-up support facility; PSM = public sector management; SEER = Southeast Asia Environment, Natural Resources, and Agriculture Division; SEHS = Southeast Asia Human and Social Development Division; SEPF = Southeast Asia Public Management, Financial Sector, and Trade Division; SETC = Southeast Asia Transport and Communications Division; SME = small and medium-sized enterprises; TA = technical assistance; TCH = advanced technology; TRA = transportation; VRM = Viet Nam Resident Mission; WUS = water and other urban infrastructure and services.

Source: Asian Development Bank.