



Country Operations Business Plan

September 2018

Afghanistan
2019–2021

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

Asian Development Bank

CURRENCY EQUIVALENTS

(as of 31 August 2018)

Currency unit	–	afghani (AF)
AF1.00	=	\$0.0136
\$1.00	=	AF73.4320

ABBREVIATIONS

ADB	–	Asian Development Bank
ADF	–	Asian Development Fund
AITF	–	Afghanistan Infrastructure Trust Fund
COBP	–	country operations business plan
DRR	–	disaster risk reduction
MFF	–	multitranches financing facility
NIP	–	National Infrastructure Plan

NOTES

- (i) The fiscal year (FY) of the Government of Afghanistan and its agencies ends on 21 December. “FY” before a calendar year denotes the year in which the fiscal year ends, e.g., FY2017 ends on 21 December 2017.
- (ii) In this report, "\$" refers to United States dollars.

Vice-President	Wencai Zhang, Operations 1
Director General	Werner Liepach, Director General, Central and West Asia Department (CWRD)
Team leader	Samuel Tumiwa, Country Director, Afghanistan Resident Mission (AFRM), CWRD
Team members	Asad Aleem, Principal Energy Specialist, CWRD Mohammad Hanif Ayubi, Senior Project Officer, AFRM, CWRD Areg Barseghyan, Energy Specialist, AFRM, CWRD Renadi Budiman, Senior Country Specialist, AFRM, CWRD Shanny Campbell, Deputy Country Director, AFRM, CWRD Hamidullah Durrani, Senior Project Officer, AFRM, CWRD Abdul Hares Halimi, Associate Programs Officer, AFRM, CWRD Fayyaz Faiz Mohammad, Operations Assistant, AFRM, CWRD Nana Soetantri, Transport Specialist, CWRD

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I. CONSISTENCY OF BUSINESS PLAN WITH COUNTRY PARTNERSHIP STRATEGY

1. The Asian Development Bank (ADB) prepared the country operations business plan (COBP), 2019–2021 for Afghanistan in line with the strategic focus under the country partnership strategy, 2017–2021. The projects in the COBP correspond to the strategic pillars under the country partnership strategy: (i) expanded access to women and men to economic opportunities, markets and services; (ii) stronger institutions and human capacities; and (iii) increased environmental sustainability, climate change resilience and disaster resilience. ADB's key strategic focus remains on infrastructure development, and its operations will continue to concentrate on three priority sectors: transport, energy, and agriculture and natural resources. These are among the priority sectors according to the Afghanistan National Peace and Development Framework.¹ Under the framework, the government seeks to create sustainable employment for men and women through the priority sectors. Overall, infrastructure is expected to lead to job creation and private sector development in the short to medium term and create economic growth and opportunities in the medium to long term. In line with ADB's Strategy 2030, ADB will also explore activities to support private sector investment and public private partnerships. The government has also articulated an ambition to grow the domestic private sector, in anticipation of reducing development assistance in the medium term.

2. Another key document with which the COBP is aligned is the National Infrastructure Plan (NIP)². The NIP intends to deliver enhanced infrastructure project implementation and improved portfolio monitoring. Key infrastructure development under the NIP concerns energy, transport, regional connectivity, information and communication technology, water resources and irrigation, and the urban sector.

II. INDICATIVE RESOURCE PARAMETERS

3. Afghanistan, a group A developing member country, is eligible for the Asian Development Fund (ADF) grants only. The indicative ADF grant allocation for 2019–2021 is \$708.27 million, including \$15.00 million from the disaster risk reduction (DRR) resources.³ Other resources such as ADF savings and cancellations will be sought to help finance the total ADF programming of \$1,130.27 million. According to the 2017 debt distress classification of Afghanistan, the country is at high risk of debt distress.⁴ In line with the Concessional Assistance Policy, the country is to receive 100% of its country allocation in grants in 2018. Also, in accordance with the Concessional Assistance Policy: (i) the ADF grant financing for Afghanistan is determined by the sum of the performance-based allocation and a portion of the post-conflict premium, and (ii) the proportion of grants for the resource allocations in 2019–2021 will be determined by future annual debt distress classifications.

4. The Afghanistan Infrastructure Trust Fund (AITF) is the primary cofinancing vehicle for the country's infrastructure development. AITF partners provide funding to Afghanistan on a 100% grant

¹ Government of Afghanistan. 2016. *Afghanistan National Peace and Development Framework 2017 to 2021*.

² Government of Afghanistan. 2016. *National Infrastructure Plan (NIP) 2017–2021*.

³ The DRR strengthens disaster resilience and helps spur investment. This additional financing will support (i) stand-alone DRR projects, (ii) discrete DRR components of other grant and loan projects, and (iii) the incremental cost of strengthening the disaster resilience of infrastructure investments.

⁴ International Monetary Fund (IMF). 2017. Article IV Consultation and Second Review Under the ECF Arrangement, and Statement by the Executive Director for the Islamic Republic of Afghanistan. *IMF Country Report*. No. 17/377. Washington DC.

basis. ADB and the government continue to seek support from various cofinancing partners. Nine firm projects (2019–2021) will need cofinancing totaling \$821.73 million.

5. Seven firm ADF-financed projects are programmed for the 2019–2021 ADF allocation: three agriculture and natural resources projects (\$337.18 million, or 48% of ADF) and four transport projects (\$371.09 million,⁵ or 52% of ADF). The country results areas and the indicative resource allocation for each sector are in Appendix 1. The projects in the pipeline are detailed in Appendix 2. The lending and nonlending programs for 2018 are listed in Appendix 3, and the list of indicative knowledge publications and events for 2018–2019 is in Appendix 4. The final lending program is subject to resource availability and project readiness.

III. SUMMARY OF CHANGES TO LENDING AND NONLENDING PROGRAMS

6. **2018 pipeline.** The Turkmenistan–Afghanistan–Pakistan Transmission Line Project (Phase 1), which was listed as firm in the Afghanistan COBP 2018–2020, was replaced with the Power Transmission Enhancement Project (Multitranche Financing Facility [MFF]: Energy Supply Improvement Investment Program - Tranche 5) for ADF funding of \$143.42 million.⁶ There are two standby energy projects. Financing for Tranche 6 of the Energy Supply Improvement Investment Program will be sought from the tranches under the MFF. The Second Solar Project is being discussed with the German Development Cooperation through KfW.

7. KfW will cofinance the Second Solar Project via AITF, estimated to be by the end of the year. This project, for board approval in 2019, is conditional upon \$30 million of KfW AITF funding, and \$10 million from ADF savings. Financing for the Road Network Connectivity Project will come from the reprogramming of ADF and AITF cancellations and DRR allocation (\$51 million in ADF, including \$5 million of DRR allocation; and \$41 million from the AITF).⁷

8. **Energy.** Surpluses from the two current MFFs totaling an estimated \$255 million gave rise to various changes in the energy sector. Tranches 6 and 7 of the MFF: Energy Supply Improvement Investment Program are firm for 2019. They will be funded from surpluses, savings and cancellations, subject to ADB Management's approval, of the current tranches under the ongoing MFFs for the Energy Sector Investment Program. Tranche 8 under the MFF is standby for 2019 (firm for 2020), while a new Energy Sector Development Project of \$50 million is firm for 2020. The Turkmenistan–Afghanistan–Pakistan–India Gas Pipeline Project is standby for 2019 and firm for 2020. The project may be funded through the ADF concessional resources under the ADF Regional Pool and ADF savings and cancellations. Cofinancing may be sought if there is a need.

9. **Transport.** The Road Network Maintenance Rehabilitation Project has been added as standby for 2019 and firm for 2020.

10. **Nonlending products.** Four technical assistance (TA) projects will need to be funded from the Technical Assistance Special Fund and other potential resources, compared with only one TA project for 2019 in the COBP 2018–2020. The four TA projects consist of two Transaction Support TA totaling \$2.0 million and two Knowledge and Support TA totaling \$3.0 million. ADB will continue to provide strategic infrastructure policy support, project implementation support, and public-private partnership support.

⁵ Including \$15 million in DRR allocation in three projects. See Appendix 2, footnotes g, m and n.

⁶ ADB. 2017. *Country Operations Business Plan: Afghanistan, 2018–2020*. Manila.

⁷ ADB. 2011. *Grant Assistance Report: Proposed Multitranche Financing Facility to the Islamic Republic of Afghanistan for the Transport Network Development Investment Program*. Manila.

COUNTRY ASSISTANCE RESULTS AREAS

Key Country Development Outcomes that ADB Contributes to	ADB		
	Key Areas of Assistance	Indicative Resource Allocation in 2019–2021	Changes from Last COBP
1. Transport			
Transport network scope and efficiency improved	<ul style="list-style-type: none"> Construction or rehabilitation of national roads and CAREC corridors Road operation and maintenance Expansion of railway infrastructure Transport policies and institutional capacity building 	<p>Amount: \$371.09 million (ADF)</p> <p>Share of COBP envelope: 52%</p> <p>Reprogramming, which is subject to ADB Management's approval, of existing projects funded by ADF and AITF under the Transport Network Development Investment Program, about \$87 million^b</p>	An increase over 85% compared to the previous COBP, which allocated \$200 million from ADF. The Road Network Maintenance Rehabilitation was added.
2. Energy			
Power supply and electrification rate increased	<ul style="list-style-type: none"> Construction of regional and domestic electricity transmission lines Construction of electricity distribution lines Generation of renewable energy Increased usage of renewable energy Rehabilitation of gas wells Development of energy sector capacity and institutional reform 	<p>Amount: \$10 million (Reprogramming, which is subject to ADB Management's approval, of the second MFF: Energy Supply Improvement Investment (ADF savings) and \$30 million (cofinancing by the German Development Cooperation (KfW), as a contribution through AITF)^a</p> <p>Share of COBP envelope: 0%</p>	Added "increased usage of renewable energy" as a key area. Three additional tranches (6, 7, and 8) under the MFF: Energy Supply Improvement Investment Program from surpluses, savings, and cancellations of the current MFFs - subject to approval of ADB's Management.
3. Agriculture, Natural Resources, and Rural Development			
Agriculture productivity increased	<ul style="list-style-type: none"> Construction or rehabilitation of irrigation and water resources infrastructure Provision of agriculture market infrastructure Development of agriculture value chain Management of integrated water resources Agricultural and natural resource-based institutional strengthening and reforms Increased participation of women in agriculture 	<p>Amount: \$337.18 million (ADF)</p> <p>Share of COBP envelope: 48%</p>	No changes

ADB = Asian Development Bank, ADF = Asian Development Fund, AITF = Afghanistan Infrastructure Trust Fund, CAREC = Central Asia Regional Economic Cooperation, COBP = country operations business plan, KfW = Kreditanstalt für Wiederaufbau, MFF = multitranchise financing facility.

^a Since the source of cofinancing is not firm, only \$30 million of cofinancing from German development cooperation through KfW is included above.

^b ADB. 2011. *Grant Assistance Report: Proposed Multitranchise Financing Facility to the Islamic Republic of Afghanistan for the Transport Network Development Investment Program*. Manila. [https://lnadbg1.adb.org/sec0062p.nsf/docbyno/046285f5fa17247f4825792f003a3d28/\\$file/r140-11.pdf](https://lnadbg1.adb.org/sec0062p.nsf/docbyno/046285f5fa17247f4825792f003a3d28/$file/r140-11.pdf)

Source: Asian Development Bank estimates.

Project/Program Name ^a	Sector	Poverty Targeting	Strategic Agendas and Drivers of Change	Division	Year of TRTA / PDA	Cost (\$ million)						Co-finance ^b
						ADB				Gov't		
						Total	Regular OCR	COL	ADF Grants			
MFF: Energy Supply Improvement Investment Program-Tranche 8 ^f	ENE	GI	IEG, GEM, PAR, RCI	CWEN		120.0	0.0	0.0	120.0 ^f	120.0 ^f	0.0	0.0
Energy Sector Development Program ^k	ENE	GI	IEG, GEM, PAR	CWEN		50.0	0.0	0.0	0.0	0.0	0.0	50.0
Turkmenistan–Afghanistan–Pakistan–India Gas Pipeline Project ^h	ENE	GI	IEG, ESG, RCI	CWEN		100.0	0.0	0.0	70.0 ^h	70.0 ^h	0.0	30.0
Road Network Maintenance Rehabilitation Project ⁱ	TRA	GI	IEG, GEM, PAR	CWTC		160.0	0.0	0.0	0.0	0.0	0.0	160.0
Railway Connectivity Project ^l	TRA	GI	IEG, RCI, PAR	CWTC	2018	200.0	0.0	0.0	200.0	200.0	0.0	0.0
Total						908.91	0.0	0.0	421.09	421.09	0.0	487.82
2020 Standby												
CAREC Corridors 5 and 6 (Salang Corridor) ^m	TRA	GI	IEG, PAR, RCI	CWTC	2016	200.0	0.0	0.0	0.0	0.0	0.0	200.0
Network Connectivity Project: North–South Corridor ⁿ	TRA	GI	IEG, RCI, PAR	CWTC		200.0	0.0	0.0	5.0 ⁿ	5.0 ⁿ	0.0	195.0
Total						400.0	0.0	0.0	5.0	5.0	0.0	395.0
2021 Firm												
Horticulture Value Chain Development Sector Project (Additional Financing) ^o	ANR	GI	IEG, ESG, PAR	CWER	2017	75.0	0.0	0.0	75.0	75.0	0.0	0.0
Renewable Energy Development (Solar and Wind) Project	ENE	GI	IEG, GEM, PAR, RCI	CWEN		70.0	0.0	0.0	0.0	0.0	0.0	70.0
Network Connectivity Project: North–South Corridor ⁿ	TRA	GI	IEG, RCI, PAR	CWTC	2018	200.0	0.0	0.0	5.0 ⁿ	5.0 ⁿ	0.0	195.0
CAREC Corridors 5 and 6 (Salang Corridor) ^m	TRA	GI	IEG, PAR, RCI	CWTC	2016	200.0	0.0	0.0	161.0 ^m	161.0 ^m	0.0	38.91
Total						545.0	0.0	0.0	241.09	241.09	0.0	303.91

Project/Program Name ^a	Sector	Poverty Targeting	Strategic Agendas and Drivers of Change	Division	Year of TRTA / PDA	Cost (\$ million)						
						Total	ADB			Gov't	Co-finance ^b	
							Regular OCR	COL	ADF Grants			Total
2021 Standby												
Road Network Connectivity Project: East–West Corridor	TRA	GI	IEG, RCI, PAR	CWTC		200.0	0.0	0.0	0.0	0.0	0.0	200.0
Trade Corridor Connectivity Project ^p	TRA	GI	IEG, RCI, PAR	CWTC		150.0	0.0	0.0	0.0	0.0	0.0	150.0
Total						350.0	0.0	0.0	0.0	0.0	0.0	350.0

ADB = Asian Development Bank; ADF = Asian Development Fund; ANR = agriculture, natural resources, and rural development; CAREC = Central Asia Regional Economic Cooperation; COL = concessional OCR lending; CWEN = Energy Division; CWER = Environment, Natural Resources, and Agriculture Division; CWTC = Transport and Communications Division; ENE = energy; ESG = environmentally sustainable growth; GEM = gender equity and mainstreaming; GI = general intervention; Gov't = government; IEG = inclusive economic growth; MFF = multitranches financing facility; OCR = ordinary capital resources; PAR = partnerships; PDA = project design advance; RCI = regional cooperation and integration; TRA = transport, TRTA = transaction technical assistance.

Note: The sum may not match the indicative resources available for commitments because of rounding.

^a Given the provisional nature of the indicative lending program, the composition of lending instruments in the actual loan delivery may change.

^b The source of cofinancing is subject to availability. To the date of this country operations business plan, no firm commitment has been received.

^c The total Arghandab project costs \$460 million. Phase 1 will cost \$231.09 million—to raise the dam wall. Indicative cofinanciers may include India, Germany, and North Atlantic Treaty Organization – Afghanistan National Army Trust Fund (NATO – ANA TF).

^d German development cooperation through KfW—via the Afghanistan Infrastructure Trust Fund (AITF)—in the process of finalizing the agreement by Q4 2018 (\$30 million), and \$10 million from ADF savings. Board approval is expected by Q2 2019.

^e Reprogrammed from ADF savings and cancellations – subject to approval of ADB's Management.

^f Reprogrammed from ADF savings and cancellations – subject to approval of ADB's Management. This may include the 500-kilovolt Surkhan–Dashte Alwan transmission line, Ghazni–Sharana transmission line, and expansion of Linebays and Mazzar Independent Power Producer connection. In addition, the project includes building of substations in Chimtala, Jabel Saraj, Tape Ahmad Beg, Naghlu, Arghandy, Dahste, and Alwan.

^g Reprogrammed from ADF and AITF savings and cancellations – subject to approval of ADB's Management. Including \$5 million under the ADF Disaster Risk Reduction (DRR) allocation.

^h This is the \$22.5 billion Gas Pipeline Project connecting Turkmenistan, Afghanistan, Pakistan, and India (TAPI). The government has requested \$100 million (5% equity share) to be invested in the TAPI Pipeline Company Limited. The project may be funded mainly through the ADF concessional resources for regional pool (\$70 million). Other resources, under cofinancing, would be ADF savings and cancellations from the annual country performance-based allocation. Cofinancing may be sought, if there is a need.

ⁱ The project will help rehabilitate and maintain strategic roads and bridges (85% are in poor condition). Specific roads will be determined when funding is confirmed, and during the appraisal mission.

^j The project will provide a low-cost solution to improve urban, rural, and agricultural water supplies by increasing the annual recharge to ground water storage in Kabul, where the underground water is depleting quickly.

^k The project will improve the overall energy sector, including minimizing power loss and increasing the efficiency of DABS (Afghanistan Power Company).

^l The government's priority project, which will be determined during the appraisal mission.

^m Feasibility study (\$31.4 million: ADF and AITF-Japan contribution) is being undertaken. Including \$5 million allocation from ADF DRR allocation.

ⁿ Connecting Yakawlang–Kandahar. The \$5 million ADF grant is allocation from ADF DRR allocation.

^o For upscaling the 2018 project activities in the same provinces and (or) expanding to new provinces, subject to further due diligence.

^p The project will connect the ring road with the border at Herat, Nimroz, Helmand, and Kandahar. It will provide the missing trade connectivity with the neighboring countries.

Source: Asian Development Bank.

Table A2.2: Nonlending Products and Services, 2019–2021

Assistance Name	Sector	Division	Assistance Type	Sources of Funding				Total (\$'000)
				ADB		Others		
				Source	Amount (\$'000)	Source	Amount (\$'000)	
2019								
Water Resources Sector Development Project	ANR	CWER	TRTA	TASF	1,500		0	1,500
Infrastructure Implementation Project Support	ENE/ TRA/ ANR	AFRM	KSTA	TASF	1,500		0	1,500
Second Public Management Support Project	FIN	CWPF	KSTA	TASF	1,500		0	1,500
Total					4,500			4,500
2020								
Preparation for the Horticulture Sector Value Chain Sector Development Project (Additional Financing)	ANR	CWER	TRTA	TASF	500		0	500
Total					500			500
2021								
None								
Total					0			0

ADB = Asian Development Bank; ANR = agriculture, natural resources, and rural development; AFRM = Afghanistan Resident Mission; CWEN = Energy Division; CWER = Environment, Natural Resources, and Agriculture Division; CWPF = Public Management, Financial Sector and Trade Division; ENE= energy; FIN = finance; KSTA = knowledge and support technical assistance; REG = regional; TASF = Technical Assistance Special Fund; TRA = transport, TRTA = transaction technical assistance.

Source: Asian Development Bank.

ASSISTANCE PROGRAM FOR CURRENT YEAR

Table A3.1: Lending Products, 2018

Project/Program Name ^a	Sector	Poverty Targeting	Strategic Agendas and Drivers of Change	Division	Year of TRTA / PDA	Cost (\$ million)						
						Total	ADB			Total	Gov't	Co-finance ^b
							Regular OCR	COL	ADF Grants			
Firm												
Horticulture Value Chain Development Sector Project ^c	ANR	GI	IEG, ESG, PAR	CWER	2017	75.0	0.0	0.0	75.0	75.0	0.0	0.0
Power Transmission Enhancement Project ^d	ENE	GI	IEG, RCI, PAR	CWEN		143.4	0.0	0.0	143.4	143.4	0.0	0.0
Total						218.4	0.0	0.0	218.4	218.4	0.0	0.0
Standby												
MFF: Energy Supply Improvement Investment Program—Tranche 6 ^e	ENE	GI	IEG, GEM, PAR	CWEN		55.0	0.0	0.0	55.0 ^e	55.0	0.0	0.0
Second Solar Energy Development Project ^f	ENE	GI	IEG, GEM, PAR	CWEN		40.0	0.0	0.0	10.0 ^d	10.0	0.0	30.0
Road Network Connectivity Project ^g	TRA	GI	IEG, RCI, PAR	CWTC		92.0	0.0	0.0	92.0	92.0	0.0	0.0
Total						187.0	0.0	0.0	157.0	157.0	0.0	30.0

ADB = Asian Development Bank; ADF = Asian Development Fund; ANR = agriculture, natural resources, and rural development; COL = concessional OCR lending; CWEN = Energy Division; CWER = Environment, Natural Resources, and Agriculture Division; CWTC = Transport and Communications Division; ENE = energy; GEM = gender equity and mainstreaming; GI = general intervention; Gov't = government; IEG = inclusive economic growth; OCR = ordinary capital resources; MFF = multitranches financing facility; PAR = partnerships; PDA = project design advance; RCI = regional cooperation and integration; TRA = transport; TRTA = transaction technical assistance.

^a Given the provisional nature of the indicative lending program, the composition of the lending instruments actually delivered may change. Lending modality share for 2015–2017 has been 100% ADF grant.

^b The source of cofinancing is subject to availability. To the date of this country operations business plan, no firm commitment has been received.

^c Board approval is expected in Q4 2018.

^d The project is the MFF: Energy Supply Improvement Investment Program – Tranche 5. The specific transmission line and substations will be determined during the fact-finding mission but construction may include (i) 220-kilovolt (kV) line from Herat–Shendand and 220 kV substation in Shendand, (ii) 20 kV line from Shendand–Farah and 220 kV substation in Farah, and (iii) 220 kV line from Turkmenistan–Herat. Board approval is in Q4 2018. The amount includes \$5 million DRR allocations.

^e Reprogrammed from ADF savings and cancellations – subject to approval of ADB's Management

^f German Development Cooperation through KfW—via the Afghanistan Infrastructure Trust Fund (AITF) is contributing \$30 million and is expected to finalize the agreement by Q4 2018, and ADF savings of \$10 million. Board approval is expected by Q2 2019.

^g Reprogrammed (subject to approval of ADB's Management) from ADF and AITF savings and cancellations plus \$5 million DRR allocation. Board approval is scheduled for Q1 2019.

Source: Asian Development Bank

Table A3.2: Nonlending Products and Services, 2018

Assistance Name	Sector	Division	Assistance Type	Sources of Funding				Total (\$'000)
				ADB		Others		
				Source	Amount (\$'000)	Source	Amount (\$'000)	
Preparation for the Railway Connectivity Project	TRA	CWTC	TRTA	TASF	1,500		0	1,500
Total					1,500		0	1,500

ADB = Asian Development Bank, CWTC = Transport and Communications Division, TASF = Technical Assistance Special Fund, TRA = transport, TRTA = transaction technical assistance.

Source: Asian Development Bank.

INDICATIVE KNOWLEDGE PUBLICATIONS AND EVENTS

Table A4.1: Knowledge Publications and Events for 2019

Title of Publication or Event	Subject	Type	Department or Sector Group or Thematic Group	Fund Sources
Infrastructure Project Evaluation Criteria	Governance and public sector management	Publication and documentation	CWRD	TA 9396
Infrastructure Investment Plan	Governance and public sector management	Publication and documentation	CWRD	TA 9396
PPP Implementation Guidelines	Governance and public sector management	Publication and documentation	CWRD	TA 9396
National Infrastructure Plan (Update)	Governance and public sector management	Publication and documentation	CWRD	TA 9396
Asian Development Outlook (chapter on Afghanistan) and Asian Development Outlook Update (Afghanistan country highlights)	Research and economic analysis	Publication and documentation	ERCD	non-TA
Key Economic Indicators	Research and economic analysis	Publication and documentation	ERCD	NA
ADB Annual Report	Research and economic analysis	Publication and documentation	DOC	NA
Afghanistan's Pathways Towards Resilience and Stability: New Deal Fragility Assessment	Governance and public sector management	Publication and documentation	CWRD: government-owned document	TA 8955
AFRM FCAS Conflict Sensitivity Handbook	Multisector	Publication and documentation	CWRD	TA 8955
FCAS Assessment Guidelines	Multisector	Publication and documentation	CWRD	TA 8955
FCAS Action Plan Guidelines	Multisector	Publication and documentation	CWRD	TA 8955
FCAS Monitoring and Evaluation Guidelines	Multisector	Publication and documentation	CWRD	TA 8955
FCAS Capacity Tracking Tool	Multisector	Publication and documentation	CWRD	TA 8955
FCAS Conflict-Sensitive Procurement Tool	Multisector	Publication and documentation	CWRD	TA 8955
FCAS Community Engagement Guidelines	Multisector	Publication and documentation	CWRD	TA 8955

Title of Publication or Event	Subject	Type	Department or Sector Group or Thematic Group	Fund Sources
FCAS Project Social Contract Guidelines	Multisector	Publication and documentation	CWRD	TA 8955
FCAS Community-Driven Development Component Guideline	Multisector	Publication and documentation	CWRD	TA 8955
FCAS Guideline Trainings (multiple)	Multisector	Training and capacity development	CWRD	TA 8955
Knowledge publications and events to be delivered in 2019 under CAREC	Multisector	Publication and documentation and event organization	CWRD, EARD	Various TA projects

ADB = Asian Development Bank, AFRM = Afghanistan Resident Mission, CAREC = Central Asia Regional Economic Cooperation, CWRD = Central and West Asia Department, DOC = Department of Communications, EARD = East Asia Department, ERCD = Economic Research and Regional Cooperation Department; FCAS = fragile and conflict-affected situation, PPP = public-private partnership, TA = technical assistance.

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

Source: Asian Development Bank.

Table A4.2: Additional Knowledge Publications and Events Delivered in 2018

Title of Publication or Event	Subject	Type	Department or Sector Group or Thematic Group	Fund Source
Asia Water Forum 2018: Information, Innovation, and Technology 2–4 October 2018	ANR sector	Training and capacity development	SDCC	TA
17th CAREC Ministerial Conference	Regional cooperation and integration	Event organization	CWRD	TA

ANR = agriculture, natural resources, and rural development; CAREC = Central Asia Regional Economic Cooperation; CWRD = Central and West Asia Department; SDCC = Sustainable Development and Climate Change Department, TA = technical assistance.

Source: Asian Development Bank

Table A4.3: Innovation, Advanced Technology, and Pilot Initiatives to be Implemented in 2019

Item	Nature	Project Number	Sector or Theme	Division
Use of Web-Based Geographic Information System (GIS) and Information Technology on Geospatial Data for Better Planning and Decision Making Processes	TCH	48258	TRA/ANR/ENE	AFRM

Total number of innovation, advanced technology, and pilot initiatives = 1

AFRM = Afghanistan Resident Mission; ANR = agriculture, natural resources, and rural development; ENE = energy; TCH = advance technology; TRA = transport.
Source: Asian Development Bank.