



Indicative Country Operations Business Plan

September 2020

Papua New Guinea
2021–2023

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Asian Development Bank

CURRENCY EQUIVALENTS

(as of 18 August 2020)

Currency unit	–	kina (K)
K1.00	=	\$0.29
\$1.00	=	K3.47

ABBREVIATIONS

ADB	–	Asian Development Bank
COBP	–	country operations business plan
COL	–	concessional ordinary capital resources lending
CPA	–	country performance assessment
CPIA	–	Country Policy and Institutional Assessment
CPS	–	country partnership strategy
FCAS	–	fragile and conflict-affected situation

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), 2021–2023 of the Asian Development Bank (ADB) for Papua New Guinea (PNG) is consistent with ADB’s country partnership strategy (CPS), 2021–2025 for PNG.¹ The CPS features three strategic pathways. The first pathway serves to enable diversified economic growth through improvements to infrastructure, including in transport and energy, and to bolster the private sector—such as micro, small, and medium-sized enterprises (MSMEs)—through a more competitive yet transparent business environment, and more ADB-supported private sector transactions. The second pathway supports improving governance, financial management and institutional strengthening across all institutions that ADB engages with in PNG, including state-owned enterprises, to improve efficiency and public service delivery. The third pathway seeks to address inclusivity and build resilience, with a focus on improving human development outcomes, and building resilience to climate and disaster risks. The three pathways are both complementary and overlapping. The COBP is also well-aligned with the operational priorities of ADB’s Strategy 2030, particularly poverty reduction and social inclusion, rural development, strengthening of governance and institutional capacity, and acceleration of gender equality.²

2. The CPS is closely aligned with PNG’s national development plans, including the Development Strategic Plan for 2010–2030 and the Medium Term Development Plan III (2018–2022).³ The overall goal of the development plan is inclusive and sustainable development.

3. PNG is on ADB’s list of fragile and conflict-affected situation (FCAS) countries and small island developing states.⁴ To manage fragility, the CPS strongly emphasizes institutional development, governance reforms, capacity development and essential infrastructure.

II. INDICATIVE RESOURCE PARAMETERS

4. PNG, a group B developing member country, is eligible for regular ordinary capital resources (OCR) lending and concessional OCR lending (COL).⁵ The indicative resources available for commitment during 2021–2023 for sovereign operations total \$803.6 million—\$625.9 million for regular OCR lending and \$177.7 million for COL. The final allocation will depend on, among other factors, available resources, project readiness, and the outcome of the country performance assessments. Cofinancing and funding from other sources, including ADF grants from the ADF 13 thematic pool for projects addressing specific challenges, will be explored.⁶

¹ ADB. 2020. *Country Partnership Strategy: Papua New Guinea, 2021–2025—Achieving Diversified Sustained Inclusive Growth*. Manila.

² ADB. 2018. *Strategy 2030: Achieving a Prosperous, Inclusive, Resilient, and Sustainable Asia and the Pacific*. Manila.

³ Government of PNG, Department of National Planning and Monitoring. 2010. *Development Strategic Plan 2010–2030*; Department of National Planning and Monitoring. 2018. *Medium Term Development Plan III (2018–2022)*.

⁴ ADB uses the harmonized multilateral development bank approach for categorizing FCAS. It is based on the average of ADB’s country performance assessment (CPA) and the World Bank’s Country Policy and Institutional Assessment (CPIA). Both the CPA and CPIA are rated on a scale of 0–6. Countries with an average CPA and CPIA rating below 3.2 are classified as FCAS.

⁵ The terminology reflects the combination of Asian Development Fund lending operations with the OCR balance sheet that took effect on 1 January 2017.

⁶ The proposed ADF 13 framework introduces a single thematic pool. Group A countries, including International Development Association gap countries, and, on a very selective basis, group B countries are eligible. The single thematic pool addresses thematic priorities in gender equity; climate change adaptation and disaster risk reduction; and regional cooperation and integration, including regional public goods.

Policy-based lending operations for 2021–2023 will be subject to resource availability and available headroom under ADB’s policy-based lending ceilings.

5. Appendix 3 lists the indicative lending and nonlending program for 2021–2023. The proposed lending program for 2021–2023 totals \$2.93 billion—\$2.68 billion in regular OCR and \$0.25 billion in COL. All projects in excess of resources available will be taken up for ADB financing when additional resources become available. The assistance program for the current year is presented in Appendix 4, and the indicative knowledge products and events are presented in Appendix 5.

COUNTRY ASSISTANCE RESULTS AREAS

Key Country Development Outcomes that ADB Contributes to	ADB		
	Key Areas of Assistance	Indicative Resources Available for Commitment in 2021–2023	Changes from Last COBP
1. Transport (CPS strategic pathway 1: Improving infrastructure and private sector environment for diversified economic growth)			
Integrated national network of roads, marine facilities, and air routes that supports diversified economic growth	Road transport (nonurban) Water transport (nonurban) Air transport	Amount: \$1,849.5 million regular OCR, \$127.5 million COL, \$5 million ADF grant, and \$160 million cofinancing Share of COBP envelope: 67.5%	
2. Energy (CPS strategic pathway 1: Improving infrastructure and private sector environment for diversified economic growth)			
Greater availability, reliability, and affordability of energy supply	Electricity transmission and distribution	Amount: \$200 million regular OCR, \$20 million COL, and \$4 million cofinancing Share of COBP envelope: 7.5%	
3. Public Sector Management (CPS strategic pathway 2: Improving governance, financial management, and public service delivery)			
Improved public financial management and performance of state-owned enterprise for service delivery; fiscal and debt sustainability strengthened	Public expenditure and fiscal management Reforms of state-owned enterprises	Amount: \$580 million regular OCR, \$0 COL, and \$0 cofinancing Share of COBP envelope: 19.8%	
4. Education (CPS strategic pathway 3: Addressing inclusivity and building resilience)			
Increased skills for employment	Technical and vocational education and training	Amount: \$35 million regular OCR, \$15 million COL, cofinancing to be confirmed Share of COBP envelope: 1.7%	
5. Water and Other Urban Infrastructure and Services (CPS strategic pathway 3: Addressing inclusivity and building resilience)			
Healthier population; increased access to clean water and sanitation	Urban water supply Urban sanitation Urban policy, institutional and capacity development	Amount: \$0 million regular OCR, \$72.9 million COL, and \$4.5 cofinancing Share of COBP envelope: 2.5%	

Key Country Development Outcomes that ADB Contributes to	ADB		
	Key Areas of Assistance	Indicative Resources Available for Commitment in 2021–2023	Changes from Last COBP
6. Finance (CPS strategic pathway 1: Improving infrastructure and private sector environment for diversified economic growth)			
Improved enabling environment for business; greater access to finance and financial services, including for women	Inclusive finance Finance and leasing for small and medium-sized enterprises	Amount: \$15 million regular OCR, \$15 million COL Share of COBP envelope: 1.0%	

ADB = Asian Development Bank, ADF = Asian Development Fund, COBP = country operations business plan, COL = concessional ordinary capital resources lending, CPS = country partnership strategy, OCR = ordinary capital resources.
Source: ADB estimates.

LIST OF LINKED DOCUMENTS

<http://www.adb.org/Documents/COBP/?id=PNG-2021>

1. Portfolio at a Glance

INDICATIVE ASSISTANCE PIPELINE

Table A3.1: Lending Products, 2021–2023

Project/Program Name ^a	Sector	Poverty Targeting	Operational Priority	Division	Year of TRTA/ PRF	Cost (\$ million)						
						ADB					Gov't	Co-finance ^c
						Total	Regular OCR	COL	ADF Grant ^b	Total		
2021 Firm												
Sustainable Highlands Highway Investment Program, Tranche 2	TRA	GI	OP1, OP2, OP3, OP5	PNRM	2016	424.0	285.0	40.0	0.0	325.0	49.0	50.0
Improving Financial Access and Entrepreneurship Development Project	FIN	GI	OP1, OP2, OP6	PLCO	2020	30.0	15.0	15.0	0.0	30.0	0.0	0.0
State-Owned Enterprise Reform Program and Subprogram 2 (PBL)	PSM	GI	OP6	PASP	2020	150.0	150.0	0.0	0.0	150.0	0.0	0.0
Fiscal and Debt Sustainability Program (PBL)	PSM	GI	OP6	PASP	N/A	180.0	180.0	0.0	0.0	180.0	0.0	0.0
Second Civil Aviation Sector Development Investment Project	TRA	GI	OP1, OP2, OP5, OP6,	PATC	2018	194.0	155.0	20.0	0.0	175.0	19.0	0.0
Highlands Region Road Improvement Investment Program (Phase 2), Tranche 1	TRA	GI	OP1, OP2, OP3, OP5	PATC	2020	385.0	285.0	15.0	5.0	305.0	30.0	50.0
Northern Region Road Corridor Program (Phase 1A) Project, Wutung to Angoram (Tranche 1)	TRA	GI	OP1, OP2, OP3, OP5, OP7	PATC	2019	210.0	200.0	10.0	0.0	210.0	0.0	0.0
Total						1,573.0	1,270.0	100.0	5.0	1,375.0	98.0	100.0
2021 Standby												
Urban Water Supply and Sanitation Project	WUS	GI	OP2, OP3, OP4	PAUW	2017	37.4	0.0	30.9	0.0	30.9	2.0	4.5
Power Sector Development Project	ENE	GI	OP1, OP2, OP3, OP4, OP5, OP6	PAEN	2018	249.0	200.0	20.0	0.0	220.0	25.0	4.0
Total						286.4	200.0	50.9	0.0	250.9	27.0	8.5

Project/Program Name ^a	Sector	Poverty Targeting	Operational Priority	Division	Year of TRTA/ PRF	Cost (\$ million)						
						Total	ADB			Total	Gov't	Co-finance ^c
							Regular OCR	COL	ADF Grant ^b			
2022 Firm												
Urban Water Supply and Sanitation Project	WUS	GI	OP2, OP3, OP4	PAUW	2017	37.4	0.0	30.9	0.0	30.9	2.0	4.5
Power Sector Development Project	ENE	GI	OP1, OP2, OP3, OP4, OP5, OP6	PAEN	2018	249.0	200.0	20.0	0.0	220.0	25.0	4.0
State-Owned Enterprise Reform Program and Subprogram 3 (PBL)	PSM	GI	OP6	PASP	2020	250.0	250.0	0.0	0.0	250.0	0.0	0.0
Sustainable Highlands Highway Investment Program (Tranche 3)	TRA	GI	OP1, OP2, OP3, OP5	PNRM	2016	227.0	147.0	0.0	0.0	147.0	20.0	60.0
Highlands Region Road Improvement Investment Program (Phase 2) (Tranche 2)	TRA	GI	OP1, OP2, OP3, OP5	PATC	2020	210.0	197.5	12.5	0.0	210.0	0.0	0.0
Northern Region Road Project, Lae to Malalaua	TRA	GI	OP1, OP2, OP3, OP5, OP7	PATC	2019	200.0	190.0	10.0	0.0	200.0	0.0	0.0
Improved Technical and Vocational Education and Training for Employment	EDU	GI	OP1, OP2	PASP	2019	50.0	35.0	15.0	0.0	50.0	0.0	0.0
Total						1,223.4	1,019.5	88.4	0.0	1,107.9	47.0	68.5
2023 Firm												
Northern Region Road Corridor Program, (Phase 1A) Project, Wutung to Angoram (Tranche 2)	TRA	GI	OP1, OP2, OP3, OP5, OP7	PATC	2019	210.0	200.0	10.0	0.0	210.0	0.0	0.0
Northern Region Road Corridor Program, (Phase 1B) Project, Angoram to Madang (Tranche 1)	TRA	GI	OP1, OP2, OP3, OP5, OP7	PATC	2019	200.0	190.0	10.0	0.0	200.0	0.0	0.0
Urban Water Supply and Sanitation Project (Additional Financing)	WUS	GI	OP2, OP3, OP4	PAUW	2017	44.0	0.0	42.0	0.0	42.0	2.0	0.0
Total						454.0	390.0	62.0	0.0	452.0	2.0	0.0

Project/Program Name ^a	Sector	Poverty Targeting	Operational Priority	Division	Year of TRTA/ PRF	Cost (\$ million)						
						Total	ADB			Total	Gov't	Co-finance ^c
							Regular OCR	COL	ADF Grant ^b			
2023 Standby												
Clean Energy Development Project	ENE	GI	OP1, OP2, OP3, OP4, OP5, OP6	PAEN	2023	250.0	230.0	20.0	0.0	250.0	0.0	TBD
Highlands Region Road Investment Program (Phase 2) (Tranche 3)	TRA	GI	OP1, OP2, OP3, OP5	PATC	2020	210.0	197.5	12.5	0.0	210.0	0.0	0.0
Total						460.0	427.5	32.5	0.0	460.0	0.0	0.0

ADB = Asian Development Bank; ADF = Asian Development Fund; COL = concessional ordinary capital resources lending; EDU = education; ENE = energy; FIN = finance; GI = general intervention; Gov't = government; N/A = not applicable; OCR = ordinary capital resources; OP = operational priority; OP1 = addressing remaining poverty and reducing inequalities; OP2 = accelerating progress in gender equality; OP3 = tackling climate change, building climate and disaster resilience, and enhancing environmental sustainability; OP4 = making cities more livable; OP5 = promoting rural development and food security; OP6 = strengthening governance and institutional capacity; OP7 = fostering regional cooperation and integration; PAEN = Energy Division, Pacific Department; PASP = Social Sectors and Public Sector Management Division, Pacific Department; PATC = Transport and Communications Division, Pacific Department; PAUW = Urban Development, Water Supply and Sanitation Division, Pacific Department; PBL = policy-based lending; PLCO = Pacific Liaison and Coordination Office in Sydney, Australia; Pacific Department; PNRM = Papua New Guinea Resident Mission, Pacific Department; PRF = project readiness financing; PSM = public sector management; TBD = to be determined; TRA = transport; TRTA = transaction technical assistance; WUS = water supply and other urban infrastructure and services.

^a Given the provisional nature of the indicative lending program, the composition of lending instruments in the actual loan delivery may change. (The lending program includes ADF grant financing from the ADF 13 thematic pool.)

^b The source of grant funding for the Highlands Region Road Improvement Investment Program (Phase 2) is the ADF 13 thematic pool to support the transformative gender agenda of Sustainable Development Goal 5. The proposal was included in the 10 July 2020 list of selected projects.

^c The OPEC Fund for International Development is the expected cofinancing partner for the Sustainable Highlands Highway Investment Program and the Highlands Region Road Investment Program.

Source: ADB estimates.

Table A3.2: Nonlending Products and Services, 2021–2023

Assistance Name	Sector	Division	Assistance Type	Sources of Funding				Total (\$'000)
				ADB		Others		
				Source	Amount (\$'000)	Source	Amount (\$'000)	
2021								
Preparing the Improving Financial Access and Entrepreneurship Development Project (additional financing)	FIN	PLCO	TRTA	TASF	750.0		0.0	1,250.0
Supporting Public Financial Management (Phase 4)	PSM	PNRM/ PASP	KSTA	TASF	1,500.0		0.0	1,500.0
Enhancing the socioeconomic and poverty benefits of improved transportation		PASP/ PATC	KSTA	TASF	1,500.0		0.0	1,500.0
Support transport sector management	TRA	PATC	KSTA	TASF	1,500.0		0.0	1,500.0
Preparing the Clean Energy Development Project	ENE	PAEN	TRTA	TASF	750.0	CEFPF	500.0	1,250.0
Total					6,000.0		500.0	7,000.0
2022								
Preparing Port Moresby Urban Mobility Plan	TRA	PATC/ PAUW	KSTA	TASF	1,000.0		0.0	1,000.0
Total					1,000.0		0.0	1,000.0
2023								
None					0.0		0.0	0.0
Total					0.0		0.0	0.0

ADB = Asian Development Bank; CEFPF = Clean Energy Financing Partnership Facility; ENE – Energy; FIN = finance; KSTA = knowledge and support technical assistance; PAEN = Energy Division, Pacific Department; PASP = Social Sectors and Public Sector Management Division, Pacific Department; PATC = Transport and Communications Division, Pacific Department; PAUW = Urban Development, Water Supply and Sanitation Division, Pacific Department; PLCO = Pacific Liaison and Coordination Office in Sydney, Australia; Pacific Department; PNRM = Papua New Guinea Resident Mission, Pacific Department; PSM = public sector management; TASF = Technical Assistance Special Fund; TRA = transport; TRTA = transaction technical assistance.

Source: ADB estimates.

ASSISTANCE PROGRAM FOR CURRENT YEAR

Table A4.1: Lending Products, 2020

Project/Program Name ^a	Sector	Poverty Targeting	Priority Area	Division	Year of TRTA/ PRF	Cost (\$ million)						
						ADB		ADF		Gov't	Co-finance ^c	
						Total	Regular OCR	COL ^b	Grants			Total
2020 Firm												
Transport Sector Preparatory Project (PRF)	TRA	GI	OP1, OP2, OP3, OP5, OP7	PATC	2019	34.10	0.0	31.0	0.0	31.0	3.1	0.00
State-Owned Enterprise Reform Program and Subprogram 1 (PBL)	PSM	GI	OP6	PASP	2020	100.00	100.0	0.0	0.0	100.0	0.0	0.00
Health Services Sector Development Program, Subprogram 3	HLT, PSM	GI	OP1, OP2, OP5, OP6	PASP	2017	150.00	100.0	50.0	0.0	150.0	0.0	0.00
COVID-19 Rapid Response Program	PSM	GI	OP1, OP2, OP6	PNRM	2020	250.00	250.0	0.0	0.0	250.0	0.0	0.00
COVID-19 Emergency Response (regional additional financing)	PSM	GI	OP1, OP2, OP6	PNRM		3.00	0.0	0.0	0.0	0.0	0.0	3.00
Highlands Region Road Improvement Investment Program, Tranche 3 (additional cofinancing)	TRA	GI	OP1, OP2, OP3, OP5	PATC		1.11	0.0	0.0	0.0	0.0	0.0	1.11
Total						538.21	450.0	81.0	0.0	531.0	3.1	4.11

ADB = Asian Development Bank; ADF = Asian Development Fund; COL = concessional OCR lending; COVID-19 = coronavirus disease; GI = general intervention; Gov't = government; HLT = health; OCR = ordinary capital resources; OP = operational priority; OP1 = addressing remaining poverty and reducing inequalities; OP2 = accelerating progress in gender equality; OP3 = tackling climate change, building climate and disaster resilience, and enhancing environmental sustainability; OP5 = promoting rural development and food security; OP6 = strengthening governance and institutional capacity; OP7 = fostering regional cooperation and integration; PASP = Social Sectors and Public Sector Management Division, Pacific Department; PATC = Transport and Communications Division, Pacific Department; PBL = policy-based lending; PNRM = Papua New Guinea Resident Mission, Pacific Department; PRF = project readiness financing; PSM = public sector management; TRA = transport; TRTA = transaction technical assistance.

^a Given the provisional nature of the indicative lending program, the composition of lending instruments in the actual loan delivery may change. (The lending program includes ADF grants.)

^b The COL allocation of \$50 million under the Health Services Sector Development Program is allocated to Papua New Guinea as part of ADB's COVID-19 response.

^c The COVID-19 Emergency Response (regional additional financing) of \$3 million is part of a regional special assistance grant supported by the Asia Pacific Disaster Response Fund. The European Union is the cofinancing partner for the Highlands Region Road Improvement Investment Program, Tranche 3 (additional cofinancing).

Source: ADB estimates.

Table A4.2: Nonlending Products and Services, 2020

Assistance Name	Sector	Division	Assistance Type	Sources of Funding				Total (\$'000)
				ADB		Others		
				Source	Amount (\$'000)	Source	Amount (\$'000)	
Supporting Public Financial Management, Phase 3 (additional financing)	PSM	PNRM/PASP	KSTA	TASF	250.0		0.0	250.0
Support for Water and Sanitation Sector Management (additional financing) ^a	WUS	PAUW	KSTA	TASF	500.0		0.0	500.0
Preparing the Improving Financial Access and Entrepreneurship Development Project	FIN	PLCO	TRTA	TASF	750.0		0.0	750.0
Power Sector Development Investment Program (additional financing)	ENE	PAEN	TRTA			AUS	0.2	0.2
Total					1,500.0		0.2	1,500.2

ADB = Asian Development Bank; AUS = Government of Australia; ENE = energy; FIN = finance; KSTA = knowledge and support technical assistance; PAEN = Energy Division, Pacific Department; PASP = Social Sectors and Public Sector Management Division, Pacific Department; PAUW = Urban Development, Water Supply and Sanitation Division, Pacific Department; PLCO = Pacific Liaison and Coordination Office in Sydney, Australia; Pacific Department; PNRM = Papua New Guinea Resident Mission; PSM = public sector management; TASF = Technical Assistance Special Fund; TRTA = transaction technical assistance; WUS = water and other urban infrastructure and services.

^a Support for Water and Sanitation Sector Management additional financing includes the response to the coronavirus disease (COVID-19) outbreak. Source: ADB estimates.

INDICATIVE KNOWLEDGE PRODUCTS AND EVENTS

Table A5.1: Knowledge Products and Events for 2021

Title of Publication or Event	Subject	Type	Department or Sector Group or Thematic Group	Funding Source
Asian Development Bank and Papua New Guinea Fact Sheet 2019	Capacity development	Publication and documentation (awareness-raising brochure or leaflet)	DOC, PARD	Non-RETA
Pacific Energy Update 2021	Energy	Publication and documentation (awareness-raising brochure or leaflet)	PARD	Non-RETA
Handbook on Hydrogen Energy	Energy	Technical study	SDCC	TA
Addressing the Long-Term Impact of COVID-19 on Energy and the Environment	Energy	Working paper	SDCC	Non-TA
ADB Energy Policy Update	Energy	Institutional document	SDCC	Non-TA
Pacific Transport Update 2021	Transport	Publication and documentation (awareness-raising brochure or leaflet)	PARD	Non-RETA
Asian Development Outlook, 2021, Papua New Guinea	Economics	Publication and documentation (technical study)	PARD	Non-RETA
Asian Development Outlook, Update 2021, Papua New Guinea	Economics	Publication and documentation (technical study)	PARD	Non-RETA
Pacific Economic Monitor, July 2021	Economics	Publication and documentation (technical study)	PARD	Non-RETA
Pacific Economic Monitor, December 2021	Economics	Publication and documentation (technical study)	PARD	Non-RETA
Managing and Improving Tax Compliance Workshop	Capacity Development	Training or capacity development (knowledge partnership and network facilitation)	SDTC-GOV	DRMTF
Comparative Analysis of Tax Administration in Asia and the Pacific, 2021 Edition	Domestic Resource Mobilization	Publication and documentation (technical study)	SDTC-GOV	DRMTF
Opportunities for enhanced trade and cooperation between Papua New Guinea and Indonesia	Regional Cooperation and Integration	Publication and Documentation (Technical Study)	SDCC	TA 54023-001
Social Protection Indicator (Country Report)	Social Protection	Publication and documentation (technical study)	SDTC-SOC	TA 9534
Social Protection Indicator (Regional Report)	Social Protection	Signature publication (technical study)	SDTC- SOC	TA 9534
Knowledge Events				

Title of Publication or Event	Subject	Type	Department or Sector Group or Thematic Group	Funding Source
Country Portfolio Review Mission	Capacity development	Training or capacity development (knowledge partnership and network facilitation)	PARD	Non-TA
ADB–Papua New Guinea Year-in-Review	Capacity development	Training or capacity development (knowledge partnership and network facilitation)	PARD	Non-TA
16th Asia Clean Energy Forum	Energy	Flagship event	SDCC	TA 8953
Asia and the Pacific Gender Forum	Gender	Signature event	SDCC/Gender Equity Thematic Group	TA 9660 and non-TA
Asian Signature Dialogue	Water and Sanitation	Conference	SDCC/Water Sector Group	TA 9897
Digital Development Forum	Digital Technology for Development	Conference	SDCC/SDCC-DT	TA9794
4th Asia Finance Forum	Finance	Event organization	SDCC/Finance Sector Group	TA 9364 and non-TA
9th International Skills Forum	Education	Signature event	SDCC/Education Sector Group	TA 9415
Asia-Pacific Social Protection Week	Social Protection	Signature event	SDCC/SDTG	TA 9534
Asia-Pacific Transport Forum 2021	Transport	Flagship event	SDCC Transport Sector Group	TA 9420

Total number of publications = 14

Total number of events = 11

ADB = Asian Development Bank, COVID-19 = coronavirus disease, DOC = Department of Communications, DRMTF = Domestic Resource Mobilization Trust Fund, PARD = Pacific Department, RETA = regional technical assistance, SDCC = Sustainable Development and Climate Change Department, SDCC-DT = SDCC Digital Technology for Development Unit, SDTC-GOV = Governance Thematic Group of SDCC, SDTC-SOC = Social Development Thematic Group of SDCC, SDTG = Social Development Thematic Group, TA = technical assistance.

Source: ADB.

Table A5.2: Additional Knowledge Products and Events Delivered in 2020

Title of Publication or Event	Subject	Type	Department or Sector Group or Thematic Group	Funding Source
Making Urban Sanitation More Inclusive in Papua New Guinea	Water and urban	Publication and documentation (awareness-raising brochure or leaflet)	PARD/SDCC	TA 6498
Pacific Urban Update 2020	Water and urban	Publication and documentation (awareness-raising brochure or leaflet)	PARD	Non-TA
Virtual Asia Clean Energy Forum	Energy	Flagship event	SDCC	TA 8953
Review of the ADB Clean Energy Program	Energy	Technical study	SDCC	TA 8953
Handbook on Microgrid for Power Quality and Connectivity	Energy	Technical study	SDCC	TA 9690
Waste to Energy in the Time of the Circular Economy: Best Practice Handbook	Energy	Technical study	SDCC	TA 9690
Governance Risk Assessment	Governance	Technical study	SDTC-GOV	TA 9061
Climate Risk Country Profile: Papua New Guinea (joint publication with World Bank, for tentative delivery in Q4 2020)	Climate change	Publication and documentation (Technical study)	SDCD/CCDRM Thematic Group	TA 9414
Asian Water Development Outlook 2020	Water	Publication (Flagship)	SDCC/Water Sector Group	TA 6498
Asia-Pacific Transport Forum 2020	Transport	Flagship event	SDCC Transport Sector Group	TA 9420
Total number of publications = 8				
Total number of events = 2				

ADB = Asian Development Bank, CCDRM = Climate Change and Disaster Risk Management, PARD = Pacific Department, Q = quarter, SDCC = Sustainable Development and Climate Change Department, SDCD = Climate Change and Disaster Risk Management Division of SDCC, SDTC-GOV = Governance Thematic Group of SDCC, TA = technical assistance.

Source: ADB.

Table A5.3: Innovation, Advanced Technology, and Pilot Initiatives to be Implemented in 2021

Item	Nature	Project Number	Sector or Theme	Division
Support for the implementation of the National Department of Health Digital Strategy	INO	52037-001	HLT	PASP
Digital Access Tool	INO	9364	FIN	PLCO/SDSC-FIN

Total number of innovation, advanced technology, and pilot initiatives = 2

FIN = finance; HLT = health; INO = innovation; PASP = Social Sectors and Public Sector Management Division, Pacific Department; PLCO = Pacific Liaison and Coordination Office in Sydney, Australia; Pacific Department; SDSC-FIN = Finance Sector Group of the Sustainable Development and Climate Change Department. Source: Asian Development Bank.