



Country Operations Business Plan

September 2018

Papua New Guinea
2019–2021

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Asian Development Bank

CURRENCY EQUIVALENTS

(as of 07 September 2018)

Currency unit	–	kina (K)
K1.00	=	\$0.30
\$1.00	=	K3.32

ABBREVIATIONS

ADB	–	Asian Development Bank
COBP	–	country operations business plan
COL	–	concessional OCR lending
CPS	–	country partnership strategy
OCR	–	ordinary capital resources

NOTE

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

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CONTENTS

	Page
I. CONSISTENCY OF BUSINESS PLAN WITH COUNTRY PARTNERSHIP STRATEGY	1
II. INDICATIVE RESOURCE PARAMETERS	1
III. SUMMARY OF CHANGES TO LENDING AND NONLENDING PROGRAMS	2
APPENDIXES	
1. Country Assistance Results Areas	3
2. List of Linked Documents	5
3. Indicative Assistance Pipeline	6
4. Assistance Program for Current Year	9
5. Indicative Knowledge Publications and Events	11

I. CONSISTENCY OF BUSINESS PLAN WITH COUNTRY PARTNERSHIP STRATEGY

1. **Country partnership strategy.** The country operations and business plan (COBP), 2019–2021 of the Asian Development Bank (ADB) for Papua New Guinea is consistent with ADB's country partnership strategy, (CPS) 2016–2020 and the Government of Papua New Guinea's national development plans.¹ The COBP is also consistent with the priorities set out in ADB's Strategy 2030.² This COBP focuses on the five priority areas of the CPS: (i) transport, (ii) energy, (iii) health, (iv) water and other urban infrastructure and services, and (v) public sector management. The country assistance results areas is in Appendix 1 and the list of linked documents is in Appendix 2.

2. **Economic, social, and political developments.** Peter O'Neil, leader of the People's National Congress (a political party), assumed a second five-year term in office from August 2017, bringing continuity to the political environment, including to policies of sustained investment in infrastructure and to public sector reforms. Government of Papua New Guinea sources estimate a 3% growth rate for 2017 largely due to expanded output in the mining sector. Growth in the non-mining sector, however, remains challenged by on-going fiscal restraint and foreign currency shortages. Growth is expected to remain modest in 2019, although a return to higher growth rates may occur thereafter with the planned commencement of some new large resource extraction projects. However, the historic and current challenge for Papua New Guinea is to find a potential future growth path that is more inclusive, diversified, and less dependent on global commodity prices.

3. **Portfolio performance.** Project implementation performance remains satisfactory. In 2017, ADB disbursed \$119.7 million and awarded \$199.2 million in contracts. All ADB-financed projects in 2017 were audit-compliant. Ongoing capacity-building support of counterpart agencies is required to maintain implementation momentum and to address issues identified in ADB's Papua New Guinea country portfolio review missions, including delays in procurement and safeguards compliance. ADB continues to provide technical support and resources to the government's national procurement reform initiative and in financial management.

II. INDICATIVE RESOURCE PARAMETERS

4. Papua New Guinea, a group B developing member country, is eligible for concessional ordinary capital resource (OCR) lending (COL) and regular OCR lending.³ The indicative resources available during 2019–2021 for sovereign operations amount to \$1,148.2 million, comprising \$128.2 million for COL and \$1,020.0 million for regular OCR lending. The final allocation will depend on available resources and the outcome of the country performance assessments. ADB will explore cofinancing and funding from other sources, including the regional pool under concessional resources and regular OCR regional cooperation and integration set-aside.

5. Appendix 3 lists the indicative lending and nonlending program for 2019–2021. The proposed lending program for 2019–2021 amounts to \$1,513 million, comprising \$1,395 million in regular OCR and \$118 million in COL.⁴ All projects in excess of resources available will be taken up for ADB financing when additional lending resources become available. The assistance

¹ ADB. 2015. *Country Partnership Strategy: Papua New Guinea, 2016–2020*. Manila.

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

³ Terminology reflects the combination of Asian Development Fund lending operations with the OCR balance sheet that took effect on 1 January 2017.

⁴ The amount stated for the lending program of \$1,513 million includes standby projects for \$110 million.

program for the current year is in Appendix 4 and the indicative knowledge publications and events is in Appendix 5.

6. The country cost-sharing ceiling ratio for the loan portfolio as defined in the CPS, 2016–2018, was 85%. However, in 2016, ADB revised the ceiling to 90% to support the Government of Papua New Guinea’s fiscal consolidation strategy. Project-specific considerations and available financing, including cofinancing, will determine actual shares for specific ADB projects.

III. SUMMARY OF CHANGES TO LENDING AND NONLENDING PROGRAMS

7. **Health Services Sector Development Program.** The Health Services Sector Development Program includes a new Australian-cofinanced investment grant of \$38 million. This will be used to upgrade selected district hospitals and health centers and to support capacity building. This is in addition to the two existing policy-based loans under subprogram 2 (\$100 million) and subprogram 3 (\$100 million), which support fiscal and health sector reforms.

8. **Civil Aviation Sector Development Program.** ADB renamed the Civil Aviation Development Investment Program (Phase 2) to Civil Aviation Sector Development Program, scheduled for 2019. The program will focus on building infrastructure for national airports and airstrips, as well as policy interventions to bring about aviation sector efficiency, cost recovery, and equitable service delivery. The program now includes an additional cofinancing component of about \$230 million, bringing the total project loan to nearly \$513 million.

9. **Sustainable Highlands Highway Investment Program.** This program is a multitranche financing facility aimed at improving the sustainability of the Highlands Highway, the nation’s most strategic national road. ADB pushed back tranche 2 (\$346 million) to 2020 and tranche 3 (\$207 million) to 2021 due to tranche 1 implementation delays.

10. **Land and Maritime Transport and Trade Corridor Program.** This new multitranche financing facility is for the rehabilitation and extension of one of the country’s priority highways and may include a ports component. A feasibility study will determine these intermodal details. ADB moved tranche 1 of the facility (for \$171 million) from 2020 to 2021 standby.

11. **Urban Water Supply and Sanitation Project (formerly District Towns Water and Sanitation Project).** ADB moved this project from the 2018 lending pipeline to the 2019 pipeline and adjusted the cofinancing amount to \$6 million. The project will increase access to improved water and sanitation services in provincial towns.

12. **Power Sector Development Investment Program.** This program is a multitranche financing facility and supports renewable energy generation, improving transmission and distribution efficiencies and expanding electrification to peri-urban areas. ADB moved tranche 1 (\$221 million) from 2018 to the 2019 standby pipeline.

13. **Microfinance Expansion Project (Phase 2).** A new \$30 million loan to the finance sector is expected to support the government’s financial inclusion program and develop the capacity of financial institutions. ADB will explore the project design through technical assistance.

14. **Education and Skills Project.** A new education and skills project, estimated at \$50 million, is included in the 2021 pipeline. The project may focus on developing industry-based cluster approaches, linking secondary technical education to post-secondary technical education. A technical assistance package will help in defining the project scope.

COUNTRY ASSISTANCE RESULTS AREAS

Key Country Development Outcomes that ADB Contributes to	ADB		
	Key Areas of Assistance	Indicative Resources Available for Commitment in 2019–2021	Changes from Last COBP
1. Transport			
More efficient, safer movement of people and goods.	<p>Transport sector policy, including organizational capacity, budgeting, and maintenance</p> <p>Road rehabilitation and maintenance</p> <p>Bridge rehabilitation</p> <p>Civil aviation safety and security</p>	<p>Amount: \$688 million regular OCR, \$58 million COL, and \$455 million cofinancing</p> <p>Share of COBP envelope: 49.3%</p>	<p>ADB's resource allocation unchanged</p> <p>Cofinancing increased from \$225 million to \$455 million</p>
2. Public Sector Management			
More effective and efficient use of public finances for service delivery and infrastructure provision	<p>More effective and efficient use of public finances for service delivery and infrastructure provision</p> <p>Prioritized spending within a sustainable fiscal envelope supported</p> <p>More effective, transparent, and timely budget execution and control supported</p>	<p>Amount: \$200 million regular OCR, \$0 COL, and \$0 cofinancing</p> <p>Share of COBP envelope: 12.2%</p>	<p>ADB's resource allocation unchanged</p>
3. Health			
A more sustainable and efficient health care system achieved	<p>Subnational health system management strengthened</p> <p>Health service delivery components strengthened</p> <p>National frameworks and PFM enhanced</p>	<p>Amount: \$0 regular OCR, \$0 COL, and \$38 million cofinancing</p> <p>Share of COBP envelope: 0%</p>	<p>Cofinancing increased from \$0 to \$38 million</p>
4. Education			
Access to education and skills improved	<p>Secondary and post-secondary TVET strengthened</p>	<p>Amount: \$35 million regular OCR, \$15 million COL, cofinancing to be confirmed</p> <p>Share of COBP envelope: 3.3%</p>	<p>ADB's resource allocation increased from \$0 to \$50 million</p>

Key Country Development Outcomes that ADB Contributes to	ADB		
	Key Areas of Assistance	Indicative Resources Available for Commitment in 2019–2021	Changes from Last COBP
5. Energy			
Sustainable and more affordable power supply in urban areas Improved access and use of power supplies for households in rural areas	Construction of power generation infrastructure to supply demand in provincial towns and main grids Trial of innovative rural electrification delivery models Support for increased private sector investment in the energy sector	Amount: \$427 million regular OCR, \$20 million COL, and \$4 million cofinancing Share of COBP envelope: 29.6%	ADB's resource allocation increased from \$60 million to \$447 million
6. Water and Other Urban Infrastructure and Services			
Improved water supply and sanitation services	Urban water supply and sanitation infrastructure Water, Sanitation and Hygiene services, policies, and reforms Capacity development of service providers and other key water sector agencies	Amount: \$30 million regular OCR, \$10 million COL, and \$6 million cofinancing Share of COBP envelope: 2.6%	ADB's resource allocation unchanged Cofinancing reduced from \$10 million to \$6 million
7. Finance			
Increased access to financial services	Expansion of financial services to support financial inclusion, capacity in financial institutions, and expanded lending to SMEs	Amount: \$15 million regular OCR, \$15 million COL Share of COBP envelope: 2.0%	New ADB resource allocation of \$30 million

ADB = Asian Development Bank, COBP = country operations business plan, COL = concessional OCR lending, CPS = country partnership strategy, OCR = ordinary capital resources, PFM = Public Finance Management, SMEs = small and medium-sized enterprises, TVET = technical and vocational education and Training.

Note: Share of COBP envelope includes firm and standby projects.

Source: ADB estimates.

LIST OF LINKED DOCUMENTS

<http://www.adb.org/Documents/COBP/?id=PNG-2019>

1. Country Partnership Strategy: Papua New Guinea, 2016–2020

INDICATIVE ASSISTANCE PIPELINE

Table A3.1: Lending Products, 2019–2021

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	
							Regular OCR	COL	ADF Grants			Total
2019 Firm												
Health Services Sector Development Program (subprogram 2) (SDP)	PSM, HLT	GI	IEG, ESG, GCD, GEM, PAR	PAUS	2017	100.0	100.0	0.0	0.0	100.0	0.0	0.0
Health Services Sector Development Program (additional financing) (SDP)	PSM, HLT	GI	IEG, ESG, GCD, GEM, PAR	PAUS	2017	38.0	0.0	0.0	0.0	0.0	0.0	38.0
Urban Water Supply and Sanitation Project	WUS	GI	IEG, GEM, GCD, PAR	PAUS	2017	50.0	30.0	10.0	0.0	40.0	4.0	6.0
Total						188.0	130.0	10.0	0.0	140.0	4.0	44.0
2019 Standby / 2020 Firm												
Power Sector Development Investment Program (tranche 1)	ENE	GI	IEG, ESG, GEM, PSD, PAR	PATE	2018	245.0	197.0	20.0	0.0	217.0	24.0	4.0
Microfinance Expansion Project (Phase 2)	FIN	GI	IEG, PSD, GEM, PAR	PLCO	2019	30.0	15.0	15.0	0.0	30.0	0.0	0.0
Civil Aviation Sector Development Program (SDP)	TRA	GI	IEG, GEM, GCD, PAR, PSD	PATE	2018	513.0	250.0	8.0	0.0	258.0	25.0	230.0
Total						788.0	462.0	43.0	0.0	505.0	49.0	234.0
2020 Firm												
Sustainable Highlands Highway Investment Program (MFF, tranche 2)	TRA	GI	IEG, GEM, GCD, PAR, PSD	PATE	2016	395.0	191.0	40.0	0.0	231.0	49.0	115.0
Health Services Sector Development Program (subprogram 3) (SDP)	PSM, HLT	GI	IEG, ESG, GCD, GEM, PAR	PAUS	2017	100.0	100.0	0.0	0.0	100.0	0.0	0.0
Total						495.0	291.0	40.0	0.0	331.0	49.0	115.0

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	
							Regular OCR	COL	ADF Grants			Total
2021 Firm												
Sustainable Highlands Highway Investment Program (MFF, tranche 3)	TRA	GI	IEG, GEM, GCD, PAR, PSD	PATE	2016	262.5	147.0	0.0	0.0	147.0	55.5	60.0
Power Sector Development Investment Program (MFF, tranche 2)	ENE	GI	IEG, ESG, GEM, PSD	PATE	2020	275.0	230.0	0.0	0.0	230.0	45.0	0.0
Education and Skills Project	EDU	GI	IEG, GEM	PAUS	2019	50.0	35.0	15.0	0.0	50.0	0.0	0.0
Total						587.5	412.0	15.0	0.0	427.0	100.5	60.0
2021 Standby												
Land and Maritime Transport and Trade Corridor Program (MFF, tranche 1)	TRA	GI	IEG, ESG, RCI, PSD, PAR	PATE	2019	171.0	100.0	10.0	0.0	110.0	11.0	50.0
Total						171.0	100.0	10.0	0.0	110.0	11.0	50.0

ADB = Asian Development Bank; ADF = Asian Development Fund; COL = concessional OCR lending; EDU = education; ENE = energy; ESG = environmentally sustainable growth; GCD = governance and capacity development; FIN = finance; GEM = gender equity and mainstreaming; GI = general intervention; Gov't = government; HLT = health; IEG = inclusive economic growth; MFF = multitranches financing facility; OCR = ordinary capital resources; PAR = partnerships; PATE = Pacific Department Transport, Energy, and Natural Resources Division; PAUS = Pacific Department Urban, Social Development, and Public Management Division; PBL = policy-based lending; PDA = project design advance; PLCO = Pacific Liaison and Coordination Office of the Pacific Department in Sydney, Australia; PSD = private sector development; PSM = public sector management; RBL = results-based lending; RCI = regional cooperation and integration; SDP = sector development program; TRA = transport; TRTA = transaction technical assistance; WUS = water and other urban infrastructure and services.

^a Given the provisional nature of the indicative lending program, composition of lending instruments in the actual loan delivery may change. Source: Asian Development Bank estimates.

Table A3.2: Nonlending Products and Services, 2019–2021

Assistance Name	Sector ^a	Division	Assistance Type	Sources of Funding				
				ADB		Others		Total (\$'000)
				Source	Amount (\$'000)	Source	Amount (\$'000)	
2019								
Microfinance Expansion Project (Phase 2)	FIN	PLCO	TRTA	TASF	500.0		0	500.0
Preparing the Land and Maritime Transport and Trade Corridor Program	TRA	PATE	TRTA	TASF	800.0		0	800.0
Supporting Financial Management (Phase 4)	PSM	PNRM/ PAUS	KSTA	TASF	1,000.0		0	1,000.0
Education and Skills Project	EDU	PAUS	TRTA	TASF	800.0			800.0
Total					3,100.0		0	3,100.0
2020								
Preparing the Power Sector Development Investment Program (tranche 2)	TRA	PATE	TRTA	TASF	800.0		0	800.0
Total					800.0		0	800.0
2021								
None								

ADB = Asian Development Bank; EDU = education; FIN = finance; KSTA = knowledge and support technical assistance; PATE = Pacific Department Transport, Energy, and Natural Resources Division; PAUS = Pacific Department Urban, Social Development, and Public Management Division; PLCO = Pacific Liaison and Coordination Office of the Pacific Department in Sydney, Australia; PNRM = Papua New Guinea Resident Mission; PSM = public sector management; TASF = Technical Assistance Special Fund; TRA = transport; TRTA = transaction technical assistance.

Source: Asian Development Bank estimates.

ASSISTANCE PROGRAM FOR CURRENT YEAR

Table A4.1: Lending Products, 2018

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
Firm												
Emergency Earthquake Response Project ^a	PSM	GI	GEM, PAR	PNRM		1.0	0.0	0.0	0.0	1.0	0.0	0.0
Health Services Sector Development Program (subprogram 1) (SDP)	PSM, HLT	GI	IEG, ESG, GCD, GEM, PAR	PAUS, PNRM	2017	205.0	145.1	49.9	0.0	195.0	10.0	0.0
Alotau Port Climate Proofing Project (additional financing to the Building Resilience to Climate Change)	TRA	GI	ESG, RCI, GEM, PAR	PATE	2013	8.0	0.0	0.0	0.0	0.0	0.0	8.0
Water Supply Scheme for Tete Settlement Project	WUS	GI	IEG, GEM, GCD, PAR	PAUS		0.8	0.0	0.0	0.0	0.0	0.0	0.8
Total						214.8	145.1	49.9	0.0	196.0	10.0	8.8

ADB = Asian Development Bank; ADF = Asian Development Fund; COL = concessional OCR lending; ESG = environmentally sustainable growth; GCD = governance and capacity development; GEM = gender equity and mainstreaming; GI = general intervention; Gov't = government; HLT = health; IEG = inclusive economic growth; OCR = ordinary capital resources, PAR = partnerships; PATE = Pacific Department Transport, Energy, and Natural Resources Division; PAUS = Pacific Department Urban, Social Development, and Public Management Division; PDA = project design advance; PNRM = Papua New Guinea Resident Mission; PSD = private sector development; PSM = public sector management; RCI = regional cooperation and integration; SDP = sector development program; TRA = transport; WUS = water and other urban infrastructure and services.

^a Funded by The Asia Pacific Disaster Response Fund. ADB approved the emergency assistance grant on 20 March 2018 and committed it on 4 April 2018.

Source: Asian Development Bank estimates.

Table A4.2: Nonlending Products and Services, 2018

Assistance Name	Sector	Division	Assistance Type	Sources of Funding				
				ADB		Others		Total (\$'000)
				Source	Amount (\$'000)	Source	Amount (\$'000)	
2018								
Power Sector Development Program (Provincial Energy Access Project) ^a	ENE	PATE	TRTA	TASF	1,200.0	Government of Australia	2,000.0	3,200.0
Preparing the Civil Aviation Development Investment Program (Phase 2)	TRA	PATE	TRTA	TASF	1,500.0		0.0	1,500.0
Support for Water and Sanitation Sector Management (additional financing)	WUS	PAUS	KSTA		0.0	Government of Australia	738.0	738.0
Total					2,700.0		2,738.0	5,438.0
2018 Standby								
Microfinance Expansion Project (Phase 2)	FIN	PLCO	TRTA	TASF	500.0		0.0	500.0
Total					500.0		0.0	500.0

ADB = Asian Development Bank; ENE = energy; FIN = finance; PATE = Pacific Department Transport, Energy, and Natural Resources Division; PAUS = Pacific Department Urban, Social Development, and Public Management Division; PLCO = Pacific Liaison and Coordination Office of the Pacific Department in Sydney, Australia; TASF = Technical Assistance Special Fund; TRA = transport; TRTA = transaction technical assistance; WUS = water and other urban infrastructure and services.

^a The TA was approved on 24 November 2017 and it was committed on 5 January 2018.

Source: Asian Development Bank estimates.

INDICATIVE KNOWLEDGE PUBLICATIONS AND EVENTS

Table A5.1: Knowledge Publications and Events for 2019

Title of Publication or Event	Subject	Type	Department or Sector Group or Thematic Group	Technical Assistance
Knowledge Publications				
Asian Development Bank and Papua New Guinea: Fact Sheet 2018	Capacity development	Publication and documentation (awareness-raising brochure or leaflet)	DOC, PARD	Non-RETA
Pacific Energy Update 2019	Energy	Publication and documentation (awareness-raising brochure or leaflet)	PARD	Non-RETA
Pacific Transport Update 2019	Transport	Publication and documentation (awareness-raising brochure or leaflet)	PARD	Non-RETA
Asian Development Outlook, 2019, Papua New Guinea	Economics	Publication and documentation (technical study)	PARD	Non-RETA
Asian Development Outlook, Update 2019, Papua New Guinea	Economics	Publication and documentation (technical study)	PARD	Non-RETA
Pacific Economic Monitor July 2019	Economics	Publication and documentation (technical study)	PARD	RETA 8565
Pacific Economic Monitor December 2019	Economics	Publication and documentation (technical study)	PARD	RETA 8565
Knowledge Events				
Country Portfolio Review Mission	Capacity development	Training or capacity development (knowledge partnership and network facilitation)	PARD	
ADB–Papua New Guinea Year-in-Review	Capacity development	Training or capacity development (knowledge partnership and network facilitation)	PARD	
Total number of publications = 7				
Total number of events = 2				

ADB = Asian Development Bank; DOC = Department of Communications; PARD = Pacific Department; RETA = regional 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 estimates.

Table A5.2: Additional Knowledge Publications and Events Delivered in 2018

Title of Publication or Event	Subject	Type	Department or Sector Group or Thematic Group	Technical Assistance
Knowledge Publications				
Asian Development Bank and Papua New Guinea: Fact Sheet 2017	Capacity development	Publication and documentation (awareness-raising brochure or leaflet)	DOC, PARD	Non-RETA
Pacific Energy Update 2018	Energy	Publication and documentation (awareness-raising brochure or leaflet)	PARD	Non-RETA
Pacific Transport Update 2018	Transport	Publication and documentation (awareness-raising brochure or leaflet)	PARD	Non-RETA
Pacific Urban Update 2018	Urban development	Publication and documentation (awareness-raising brochure or leaflet)	PARD	Non-RETA
Asian Development Outlook, 2018, Papua New Guinea	Economics	Publication and documentation (technical study)	PARD	Non-RETA
Asian Development Outlook, Update 2018, Papua New Guinea	Economics	Publication and documentation (technical study)	PARD	Non-RETA
Pacific Economic Monitor July 2018	Economics	Publication and documentation (technical study)	PARD	RETA 8565
Pacific Economic Monitor December 2018	Economics	Publication and documentation (technical study)	PARD	RETA 8565
Papua New Guinea: Community Guide to Mangrove Planting	Climate change	Publication and documentation (training or capacity development material)	PARD	RETA 7753
Papua New Guinea Micro Expansion Project: Case Studies	Private sector	Publication and documentation (case study)	PARD	Non-RETA
Capturing Sustainable Growth in Papua New Guinea (for APEC)	Energy, health, private sector, transport	Publication and documentation (awareness-raising brochure or leaflet)	PARD	Non-RETA
Finance Sector Briefs: Papua New Guinea	Finance	Publication and documentation (awareness-raising brochure or leaflet)	PARD	RETA 8378
A Household Survey of Water, Sanitation, and Hygiene in a Port Moresby Settlement	Urban development, water	Publication and documentation (awareness-raising brochure or leaflet)	PARD	RETA 8821
Knowledge Events				
Country Portfolio Review Mission	Capacity development	Training or capacity development (knowledge partnership and network facilitation)	PARD	

Title of Publication or Event	Subject	Type	Department or Sector Group or Thematic Group	Technical Assistance
ADB–Papua New Guinea Year-in-Review	Capacity development, economics	Training or capacity development (knowledge partnership and network facilitation)	PARD	
Total number of publications = 13				
Total number of events = 2				

ADB = Asian Development Bank, APEC = Asia-Pacific Economic Cooperation, DOC = Department of Communications, PARD = Pacific Department, RETA = regional 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 estimates.

Table A5.3: Innovation, Advanced Technology, and Pilot Initiatives to be Implemented in 2019

Item	Nature	Project Number	Sector or Theme	Division
Communication Navigational System/Air Traffic Management	TCH	Loan 3069 and Loan 3070 (Project 2)	TRA	PNRM
Precision Approach Path Indicator	TCH	Loan 3069 and Loan 3070 (Project 2)	TRA	PNRM
Navigational Aid	TCH	Loan 2978	TRA	PNRM
Archipelagic Hydrodynamic Study	TCH	Loan 2978	TRA	PNRM
Automatic Identification System: Tracking Device	TCH	Loan 2978	TRA	PNRM
Total number of innovation, advanced technology, and pilot initiatives = 5				

PNRM = Papua New Guinea Resident Mission, TCH = advanced technology, TRA = transport.

Source: Asian Development Bank estimates.