



Project Data Sheet

Project 46162-001

Project Name	Strengthening Disaster and Climate Risk Resilience in Urban Development in the Pacific	
Project Number	46162-001	
Country / Economy	Regional Fiji Papua New Guinea Samoa Solomon Islands Tonga Vanuatu	
Project Status	Closed	
Project Type / Modality of Assistance	Technical Assistance	
Source of Funding / Amount	TA 8238-REG: Strengthening Disaster and Climate Risk Resilience in Urban Development in the Pacific <hr/> Japan Fund for Prosperous and Resilient Asia and the PacificUS\$ 650,000.00	
Strategic Agendas	Environmentally sustainable growth Inclusive economic growth Regional integration	
Drivers of Change	Governance and capacity development Partnerships	
Sector / Subsector	Water and other urban infrastructure and services / Urban policy, institutional and capacity development	
Gender		

As small island developing states, Pacific developing member countries (DMCs) are vulnerable to economic shocks, natural hazards and climate change, which pose a significant challenge to sustainable development and progress towards achievement of the Millennium Development Goals. Pacific DMCs are highly exposed to the adverse effects of climate change and natural hazards including floods, droughts, tropical cyclones, earthquakes, and tsunamis, and have a low capacity to manage the resulting risks. Climate change is expected to increase the frequency and intensity of extreme weather events, and introduce new hazards such as sea-level rise and temperature changes. In early 2005, the Cook Islands faced five cyclones within 5 weeks - four of which were Category 5. The 2009 tsunami that hit Samoa caused high human losses and extensive damage to the country's infrastructure. The estimated cost of recovery was estimated at 22% of Samoa's GDP over a 3-4 year period. In April 2012, Fiji was affected by severe flooding, resulting in damages equivalent to around 1.5% of the country's GDP.

At the same time, poorly planned development activities are increasing the exposure of Pacific DMCs to natural hazard and climate change-related events. The large concentration of people, infrastructure, enterprises, and public institutions within cities makes urban areas more vulnerable to natural disasters and climate change compared with rural areas. Urban centers in the region are also predominantly situated in hazard-prone locations such as in low-lying coastal areas that are exposed to flooding, sea-level rise, and storm surge. Pacific DMCs are rapidly urbanizing, and over half the population of Cook Islands, Fiji, the Marshall Islands, Nauru, Palau, and Tuvalu are now concentrated in urban areas. As the region's urban centers expand, there is growing unplanned encroachment into higher risk areas such as exposed shorelines or floodplains.

As part of the Pacific Catastrophic Risk and Financing Initiative (PCRAFI), which was launched in 2007, ADB has been working with the World Bank and the Secretariat of the Pacific Community's Applied Geoscience and Technology Division (SPC/SOPAC). PCRAFI aims to provide Pacific DMCs with disaster risk modeling and assessment tools for enhanced disaster risk management, and financial solutions to increase their financial resilience to natural disasters and climate change.

ADB's contribution to the development of the regional catastrophe insurance scheme included identifying and recording country-specific geographic information system (GIS) datasets of buildings (residential, commercial, and industrial), major infrastructure (such as roads, bridges, airports, and electricity), major crops, and population. About 80,000 buildings and major infrastructure were physically inspected. In addition, about 3 million buildings and other assets, mostly in rural areas, were inferred from satellite imagery. PCRAFI also developed the region's most comprehensive regional historical hazard catalogue (115,000 earthquake and 2,500 tropical cyclone events) and historical loss database for major disasters, as well as country-specific hazard models that simulate earthquakes and tropical cyclones. The partnership's outputs also include risk maps showing the geographic distribution of potential losses for each Pacific DMC as well as other visualization products of the risk assessments. This information is stored in the Pacific Risk Information System (PacRIS) housed at SPC/SOPAC and can be accessed through an open-source web-based platform.

Progress in mainstreaming climate and disaster considerations into urban and sector development planning, which is critical for safeguarding social and economic development gains in the region, has been constrained by a lack of climate and hazard exposure information. As a result, there has been a tendency in Pacific DMCs to respond to the symptoms of natural disaster events through relief and reconstruction efforts, rather than dealing with the root causes, through better development planning. PacRIS contains information on the probability of hazard events occurring in a particular location, the value and ownership of assets threatened by natural disasters and climate change, as well as information about the likely impacts of such events, which is critical for disaster and climate resilient development planning.

Pacific DMC officials also have limited capacity to analyze natural hazard and climate change information and apply it to development planning. Awareness and capacity building activities are therefore needed to enable Pacific DMCs and development partners to use this data to develop climate and disaster resilient policies, plans, programs, and projects.

Description

Project Rationale and Linkage to Country/Regional Strategy	ADB's Approach to Assisting the Pacific (2010-2014) identifies effective disaster management and risk reduction and climate change adaptation as critical to achieving sustainable growth in the region.
Impact	Social and economic development in Pacific developing member countries (DMCs) is resilient to climate change and natural hazard events.

Project Outcome

Description of Outcome	Climate and disaster risk information is integrated into urban development and infrastructure planning in Pacific DMCs.
Progress Toward Outcome	In progress. Case studies for selected Pacific DMCs have been prepared to demonstrate how risk considerations can be assessed, and integrated into urban planning and management strategies. Development of training modules is underway.

Implementation Progress

Description of Project Outputs	Integrated climate and disaster risk screening tools for planning are operational. Integrated tools for mainstreaming disaster and climate risks into urban and sector planning are shared with regional stakeholders. Pacific DMC planners apply newly acquired climate and disaster risk mainstreaming skills.
Status of Implementation Progress (Outputs, Activities, and Issues)	Completed. Climate risk screening tools have been developed. Completed. Participation in targeted regional meetings and conferences to share TA outputs. Completed. During training sessions, Pacific DMC stakeholders applied tools to assess natural hazard risks in their respective countries.
Geographical Location	Regional

Summary of Environmental and Social Aspects

Environmental Aspects
Involuntary Resettlement
Indigenous Peoples

Stakeholder Communication, Participation, and Consultation

During Project Design	A number of stakeholders provided input to inform TA design, these included: (i) regional organizations, (ii) national government agencies, and (iii) local government agencies.
During Project Implementation	A wide range of urban sector stakeholders have been involved in TA implementation activities. These include: (i) national government agencies, (ii) local government agencies, i.e. city councils, (iii) development partners, (iv) NGOs, and (v) the private sector. All of these stakeholders have been involved in the development of case studies to demonstrate the application of risk tools to promote more resilience urban development. The same stakeholders will also be targeted for training and awareness-raising activities during the next phase of TA implementation.

Business Opportunities

The TA will finance 30.5 person-months of international and national consulting services including: (i) team leader/risk specialist (international, 8 person-months, intermittent), (ii) urban planner (international, 3 person-months, intermittent), (iii) civil engineer (international, 1.5 person-months, intermittent), (iv) economist (international, 2 person-months, intermittent), (v) expert peer reviewer (international 2 person-months, intermittent), (vi) disaster risk management training specialist (international, 2 person-months, intermittent), and (vii) risk mapping specialist (international, 4 person-months, intermittent), and (viii) national coordinators (national, 2 x 3 person-months, intermittent).

The team leader/risk specialist, urban planner, civil engineer, and economist will be recruited through a firm using the quality- and cost-based selection method using a 90% technical: 10% financial ratio. SPC/SOPAC will be contracted as a consulting firm on the basis of single-source selection in order to recruit the international disaster risk management training specialist and risk mapping specialist, and national coordinators in case study countries. SPC/SOPAC has the regional mandate for the provision of technical support to Pacific DMCs for disaster risk reduction and disaster management. SPC/SOPAC is also the regional custodian of the PacRIS database. The expert peer reviewer will be selected using individual consultant recruitment.

All consultant recruitment will be carried out in accordance with ADB's Guidelines on the Use of Consultants (2010, as amended from time to time). Disbursements under the TA will be done in accordance with ADB's Technical Assistance Disbursement Handbook (2010, as amended from time to time).

Consulting Services

Responsible ADB Officer Woodruff, Allison

Responsible ADB Department Pacific Department

Responsible ADB Division Urban, Social Development & Public Management Division, PARD

Executing Agencies *Asian Development Bank*
6 ADB Avenue,
Mandaluyong City 1550, Philippines

Timetable

Concept Clearance	30 May 2012
Fact Finding	08 Jun 2012 to 13 Jun 2012
MRM	-
Approval	05 Dec 2012
Last Review Mission	-
Last PDS Update	31 Mar 2016

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Milestones

Approval	Signing Date	Effectivity Date	Closing		
			Original	Revised	Actual
05 Dec 2012	-	05 Dec 2012	02 Jan 2015	31 Mar 2016	14 Jun 2016

Financing Plan/TA Utilization	Cumulative Disbursements
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ADB	Cofinancing	Counterpart		Project Sponsor	Others	Total	Date	Amount
		Gov	Beneficiaries					
0.00	650,000.00	0.00	0.00	0.00	0.00	650,000.00	17 Jun 2022	613,052.97

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