

PROJECT/PROGRAMME PROPOSAL TO THE ADAPTATION FUND

PART I: PROJECT/PROGRAMME INFORMATION

Project Category: Country:	Regular Fiji
Title of Project/Programme:	Increasing the resilience of informal urban settlements in Fiji that are highly vulnerable to climate change and disaster risks
Type of Implementing Entity:	Multilateral
Implementing Entity:	United Nations Human Settlements Programme (UN-Habitat)
Executing Entity:	Ministry of Local Government, Housing & Environment
Amount of Financing Requested:	US\$4,2 million

Project background and context

Socio-economic context¹

Fiji is an archipelago of 332 islands (of which approximately 110 are inhabited). The country's population of approximately 865,000 resides primarily on the two largest islands, Viti Levu and Vanua Levu.

Fiji is geographically and culturally the centre of the Pacific, and has historically served as a regional hub for banking services and communications, as well as for flights and shipping to other Pacific islands. Fiji has a gross domestic product (GDP) of US\$4.53 billion and a gross national income of US\$4,870 per capita. The economy is primarily based on agriculture, sugar and tourism, with tourism being the largest foreign exchange earner over the years. Studies estimate that approximately 20 per cent of Fiji's national economy is generated through the informal sector. This sector includes subsistence agriculture, informal manufacturing and services and owner-occupied dwellings. Further, the sector is estimated to employ approximately 40 per cent of the country's work force. This is especially the case in urban areas, where informal settlements have absorbed a large proportion of the population. More women work in

¹ Figures based on Fiji Draft Post-Disaster Needs Assessment. Tropical Cyclone Winston, February 20, 2016. Government of Fiji May 13, 2016

the informal economy than men – though this is also the case in the formal labour market of Fiji. $^{\rm 2}$

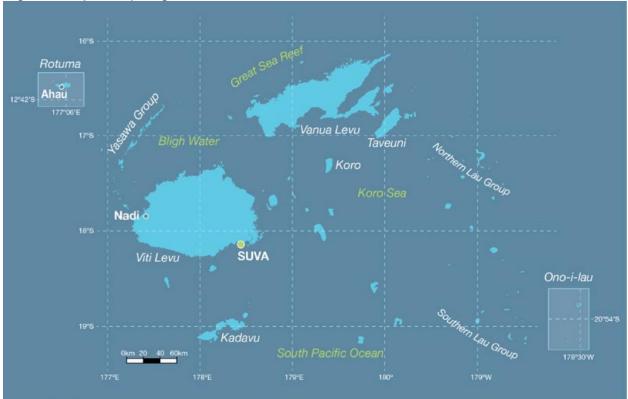


Figure 1: Fiji archipelago

Despite its larger size and position within the Pacific, Fiji faces some of the geographic and structural challenges common to other smaller Pacific island countries, including remaining vulnerability to external shocks and natural disasters.

While the country has achieved broad coverage in the provision of basic social services, 35 percent of Fijians live below the poverty line, unable to meet basic needs. Although poverty has recently declined, 44 percent of the rural population and 26 percent of the urban population still live in poverty.

Since 2007, over half of Fiji's population live in urban areas (2 cities and 10 towns) and the urban population is growing faster than its rural counterpart. Although some municipalities are urbanizing more quickly than others, all are confronting challenges related to growth. These include urban poverty and unemployment, environmental risks, climate change and disaster risks, land administration and infrastructure provision and maintenance.³

² UN-Habitat (2012) Fiji's National Urban profile.

³ UN-Habitat (2012) Fiji's National Urban profile.

There has been an increase in the number and density of informal settlements in many cities. For example, the 2006 Greater Urban Management Plan records 50 informal settlements in the Greater Suva Urban Area. This number had risen to over 100 by 2011. For all of Fiji, UN-Habitat has mapped 171 informal settlements while the government indicates 240 informal settlements. Those informal settlements are home to approximately 20 percent of the total urban population. These settlements are often located in high-risk peri-urban areas, or just beyond the municipal boundary, placing them beyond the jurisdiction of the municipality. Similarly, iTaukei (i.e. indiginous people) villages are except from municipal council regulations as per the Local Government Act. This means that such villages and informal settlements have limted access to urban services.

Climate variability/disaster risks⁴

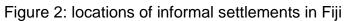
Fiji is located in the Pacific Ocean's tropical cyclone belt. The island nation experiences frequent cyclones (on average, one cyclone per year) and with them damaging winds, rain and storm surges. Besides cyclones, the country suffers from other extreme events associated with climate change such as extreme rainfall, flooding, droughts and temperature extremes as well as sea-level rise.

In the past few decades, Fiji has been affected by multiple devastating cyclones. In 2012 alone, Fiji experienced two major flooding events and one tropical cyclone (Evan). The effects of natural disasters in Fiji are far reaching, negatively impacting on, among other sectors, agriculture, housing, transport infrastructure, basic service provision, tourism and primary industries. Between 1980 and 2015, disaster events in Fiji have resulted in average annual economic damage of around US\$16 million and impacted around 40,000 people each year. In the same period, at least 186 people were killed by flooding and storm events. Climate and Disaster impacts are expected to increase in Fiji, rising to an average of US\$85 million per year in losses due to tropical cyclones and earthquakes.

Being mountainous in its interior, cities and towns are mainly located on the coast and along rivers. The result is that Fiji's towns and cities are particularly exposed to seaborne and riverine natural hazards, cyclones, storm surges, coastal and riverine erosion, landslides, floods and already occurring sea level rise due to climate change. Mangrove deforestation and coral reef extraction in order to accommodate urban development and for reasons of income generation are increasing the vulnerability of urban areas to coastal hazards, as both mangrove forests and coral reefs provide effective barriers against storm surges and cyclones. Of particularly critical concern are the residents of informal settlements in towns and cities as many such settlements are located in highly vulnerable areas, such as riverbanks and pockets of coastal land.⁵

⁴ Figures based on Fiji Draft Post-Disaster Needs Assessment. Tropical Cyclone Winston, February 20, 2016. Government of Fiji May 13, 2016

⁵ UN-Habitat (2012) Fiji's National Urban profile.





General climate change trends, projections and impacts⁶

Table 1	: Climate	change	trends
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Intense	Tropical cyclones are one of the most severe events to Fiji, and the country has
storms/	experienced them on numerous occasions in the past four decades. They usually
Cyclones	affect Fiji from November to April but have occurred in October and May. On
,	average, one cyclone affects some part of Fiji every season, with the greatest
	risk during El Niño periods. There have been seasons when Fiji has had no
	cyclones and seasons with four cyclones (1984/85) and five cyclones (1992/93).
Heat and	Major droughts (meteorological) in Fiji have been associated with El Niño events.
drought	During moderate to strong EI Nino events, the annual rainfall is reduced by as
Ũ	much as 20–50% over most parts of Fiji as experienced during the 1982/83,
	1986/87, 1992/93 and 1997/98 events.
Heavy	Large-scale flooding in Fiji is mostly associated with prolonged heavy rainfall
rain/	during the passage of a tropical cyclone, tropical depression and/or enhanced,
Floods	slow moving convergence zone. Localised flash flooding during the wet season
	(November to April) is quite common.
Sea level	Sea flooding is usually associated with the passage of tropical cyclones close to
rise/	the coast. However, heavy swells, generated by deep depressions and/or
Flooding	intense high pressure systems some distance away from Fiji have also caused
eeag	flooding to low-lying coastal areas. At times, heavy swells coincide with king tides
	and cause flooding and damage to coastal areas.

⁶ Republic of Fiji – National climate change policy (2012, p 4-7) and the Fiji (2011) Climate change adaptation initiative reports

Table 2: Climate change projections over the course of the 21st century

Intense	Stronger tropical cyclones/storms are expected (moderate confidence).
storms/	
Cyclones	
Heat and	Dry season rainfall is projected to decrease (moderate confidence);
drought	Surface mean air temperature and sea surface temperature are projected to continue to increase (very high confidence); the intensity and frequency of extreme hot days are projected to increase (very high confidence);
Heavy rain/	Wet season rainfall is projected to increase (moderate confidence); intensity and frequency of extreme rainfall are projected to increase (high confidence);
Floods	
Sea level	Mean sea level is projected to continue to rise (very high confidence); Ocean
rise/	acidification is projected to continue (very high confidence);
Flooding	

General climate change impacts

- □ A sea level rise of 50cm will have far reaching impacts on coastal ecosystems such as accelerated coastal erosion, salt water intrusion into the fresh water lens and ground aquifers, increased sea flooding, loss of arable land and settlement.
- □ The combination of sea level rise, high intensity rainfall and stronger tropical cyclones would further exacerbate the vulnerability of communities, which are exposed to more frequent coastal flooding, storm surge and strong winds.
- The combination of change in rainfall and increase in surface air temperature will have compounding effects on agricultural production and may become a threat to food security, water resources and human health. For instance, an increase in extreme hot days would have negative effects on health of young children and elderly people.
- □ Coral Bleaching may have impacts on those whose livelihoods depend on fishing and on tourism with a proportion of settlers in the west employed in this industry.

Example of an extreme event: tropical cyclone Winston

On February 20, 2016, Tropical Cyclone Winston, an extremely destructive Category 5 cyclone, struck Fiji. Winston was the first Category 5 cyclone to directly impact Fiji and the most intense cyclone on record to affect the country. The cyclone impacted approximately 540,400 people; equivalent to 62 percent of the country's total population and 44 fatalities were subsequently confirmed. Entire communities were destroyed and approximately 40,000 people required immediate assistance following the cyclone. 31,200 houses, 495 schools and 88 health clinics and medical facilities were damaged or destroyed. In addition, the cyclone destroyed crops on a large scale and

compromised the livelihoods of almost 60 percent of Fiji's population.⁷

Damage and losses have been the largest in the environmental⁸ and urban/housing sector. Winston destroyed 7.5 percent of the total housing stock and caused major damage to a further 6.3 percent of houses. Total damage to houses, 99.9 percent of which are privately owned totalled US\$350 million.

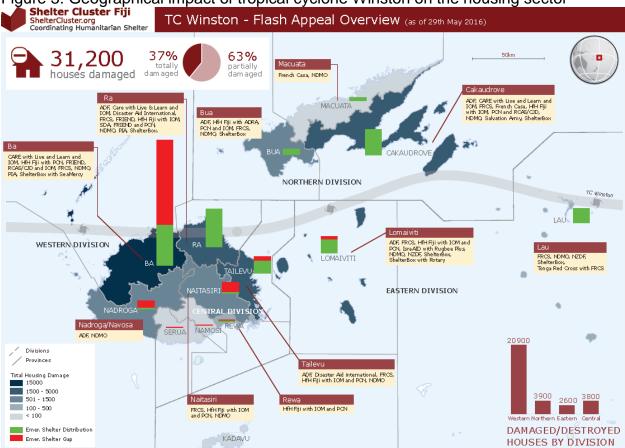


Figure 3: Geographical impact of tropical cyclone Winston on the housing sector

Damages were particularly severe in urban informal settlements, where less permanent structures exist. The settlements are far from homogenous, but based on a 2015 survey of 31 informal settlements,⁹ only 10 percent of houses were concrete and the remaining 90 percent were timber frame and tin, iron of varying construction quality and, in many cases, built using recycled materials. The overall lower quality in comparison to the wider housing stock is likely to reflect a higher incidence of poverty found within many of informal settlements and uncertainty regarding tenure security, in particular in those

⁷ Fiji Draft Post-Disaster Needs Assessment. Tropical Cyclone Winston, February 20, 2016. Government of Fiji May 13, 2016

⁸ Estimation of environmental losses include ecosystem service losses for 2016-18 for native forests, mangroves and coral reefs. Total recovery time may stretch beyond this timeframes

⁹ Informal settlement survey carried out by the People's Community Network, November 2015.

settlements located on privately owned land.¹⁰

Focus of the proposal

The present proposal focuses on increasing resilience to climate change and disasters in informal urban settlements. Fiji is an insignificant contributor to climate change, but the country is very vulnerable to its impacts. Climate change is expected to bring about an increase in the frequency and/or intensity of extreme events such as flooding, droughts and cyclones and long-term impacts such as sea-level rise, higher temperatures and coral bleaching, with particular negative impacts on informal settlements.¹¹

Rapid countrywide profiling of climate vulnerable informal settlements

This project will focus on 14 settlements across three key climate vulnerable Fijian cities & towns, including 6 sites in the Greater Suva Urban Area. These cities and towns, and the selected settlements, are a combination of the most climate vulnerable urban settlements in Fiji and those with contextual factors that make them important sites for proposed strengthening, resilience and adaptive capacity initiatives.

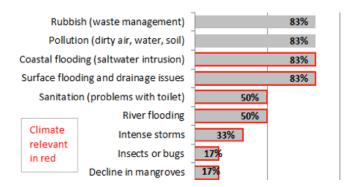
Exposure. The selected cities and towns all include significant coastal and riverine exposed areas. The settlements selected are considered exposure hotspots because they are within 50m of a river, coastline or mangrove area and exposed to all four of Fiji key climate impacts. While all Fijian settlements are exposed to (1) intense storms/cyclones and. (2) heat/drought. the selected settlements are also particularly exposed to (3) heavy rain/river &

Area/town	Settlements within 50m of coastline, rivers or mangroves (% of settlements in area)	Number of settlements in town/city
Lami	23 (82%)	28
Sigatoka	2 (67%)	3
Lautoka	9 (33%)	27
Nasinu	10 (31%)	32
Suva	15 (30%)	50
Nadi	3 (18%)	17
Total	62 (37%)	157

Table: 3: Selected towns and settlements

Figure 4: reported environmental problems **Reported environmental problems**

(% of settlements reporting problem)



¹⁰ Informal settlements have grown on all categories of land in Fiji. The settlements on state land (including settlements established 40 or more years ago) tend to be located within town boundaries; settlements on iTaukei land are found within urban areas and also in less regulated peri-urban areas; and a smaller number of settlements are on freehold land.

¹¹ Republic of Fiji – National climate change policy (2012, p Vii)

surface flooding, and (4) sea level rise/coastal flooding. Table 3 shows that the towns selected for this project have the highest percentage of informal settlements in these exposure areas. Based on scoping research undertaken for this project, all settlements report climate related environmental impacts with an average of 2 or more impacts. Figure 4 shows that coastal and surface flooding are the most common climate issues but a range of other impacts are also reported.

<u>Sensitivity</u>. Recent research on Fijian informal settlements undertaken as part of the UN Habitat Participatory Slum Upgrading Programme¹² found that these communities have multiple sensitivities to climate change impacts. Based on UN Habitat's¹³ framework for socio-economic sensitivity they include the following:

- Demographics. Fijian informal settlements can have dramatically lower levels of employment (employment to population ratio of 15% versus 50% in the general population). Certain settlements households have substantially higher proportions of children.
- ❑ Housing. 36% of dwellings in informal settlements are of poor quality, making them highly vulnerable to storms and high winds. Informal settlements have 2-3 times the rate of tin or iron walled dwellings (also a proxy for dwelling quality) to general urban areas in this study. 18% of informal settlement households experience overcrowding (more than 3 persons per bedroom).
- ❑ Welfare and human development. 18% of Informal settlement households have inadequate sanitation and 11% inadequate access to water. Informal settlement households have dramatically lower incomes relative to the general population (F\$212 per week vs. \$613 for the general population).
- Production and investment. Around 20% of informal settlement households are reliant on farming. All informal settlements are tenure insecure; a legal status which acts as a disincentive to housing investment. Droughts and floods directly impact agricultural livelihoods.

<u>Adaptive capacity</u>. The cities and towns in this study show cross-section of contextual factors that will influence adaptive capacity initiatives. The selected sites thus balance the project's focus between areas where initiatives are most likely to have success, and those where initiatives are most needed:

□ Economic wealth. While all informal settlements are poor, those close to major cities (i.e. Lami, and to a lesser extent Lautoka) have on average higher income levels given their access to a more diversified labour markets. Settlements in regional towns, such as Sigatoka, are likely to have lower incomes.

 ¹² People's Community Network (2016) Settlement Situation Analysis: Greater Suva, Nadi, Lautoka, Ba, Levuka and Labasa – Draft Report, UN Habitat Participatory Slum Upgrading Programme Phase II.
 ¹³ United Nations Habitat (2014) Planning for Climate Change: A strategic, values-based approach for urban planners, United Nations Human Settlements Programme (UN-Habitat), Nairobi.

- □ Information, human resources and capacity. Two major climate related projects¹⁴ and three major citywide projects which have had informal settlements as a key focus¹⁵ have been undertaken in Lami. This will provide a robust information base to inform both institutional and community level planning and resilience strengthening. Lautoka has had a UN Habitat Urban Profile prepared that provides in-depth analysis of environmental, sectoral and institutional features that will particularly inform institutional strengthening activities. Sigatoka will benefit significantly from the enhanced information and data that this project will bring to resilience planning.
- Organisational and social capital. Lami Town Council has had in-depth involvement in a range of multi-stakeholder settlement upgrading and climate resilience programs and projects that have built their networks at a metropolitan, national and international level. However, as a small council with relatively limited technical expertise they will also benefit significantly from support and resources the project will bring. Lautoka has had involvement in a range of major projects (e.g. a port expansion) and NGO-led settlement upgrading programs and will both draw on these resources and build new networks through this project. Again, Sigatoka will particularly benefit from awareness raising and institutional capacity building that inclusion in this project will bring. Selected settlements range from those who have had strong involvement in settlement upgrading and environmental management projects in the past, to those which have historically missed out, thus benefitting particularly from inclusion.

Rapid vulnerability assessment of key settlements in project

Within the selected cities and towns, settlements have varying vulnerabilities that the project aims to respond to. In order to inform settlement selection and program design, a rapid vulnerability assessment has been undertaken based on a survey of 115 households and focus groups in eight (569 households with a population of 3118). Initially 14 settlements had been identified in the three towns (891 households with an approximate population of 4782). The final selection of the target communities will take place in the first months of the project. Table 5 illustrates the key exposures, sensitivities and adaptive capacity of this sub-set of settlements included in this rapid assessment ('the focus settlements'). It is noted that this assessment method is high level and will inform the development of the holistic and comprehensive tool as part of the project itself. This assessment illustrates settlements selected for this project show significant exposure and sensitivity and, with only a few exceptions, relatively low adaptive capacity in their current circumstances.

¹⁴ These projects are: (A) UN Habitat (2012) Cities for Climate Initiative - Lami Town Fiji Climate Change Vulnerability Assessment, United Nations Human Settlements Programme (UN-Habitat), Nairobi, (B) United Nations Environment Program (2013) An economic analysis of ecosystem-based adaptation and engineering options for climate change adaptation in Lami Town, Republic of the Fiji Islands Technical report.

¹⁵ These projects are: (A) UN Habitat PSUP Phase I Greater Suva Urban Profile (2012), (B) UN Habitat PSUP Phase II Settlement Situation Analysis (2016), and (C) Cities Development Institute Asia - Inclusive Urban Development in the Greater Suva Area (2013).

Table 5: key exposures, sensitivities and adaptive capacity of sub-set of settlements

	Lami				Siga- toka	Lautoka		
Climate vulnerability parameters ¹⁶	Wailekutu	Vuniivi	Wainivokai	Qauia	Kulukulu	California	Veidogo	Vunato
Exposure (climate and environmental hazards)	2	4	4	3	4	4	4	5
Sensitivity (vulnerable population groups, housing, welfare and human development, Land production and investment)	10	13	16	6	12	9	11	11
Adaptive capacity (information, human resources and capacity, organisational and social capital)	1	2	2	1	0	1	0	0
Vulnerability = (Exposure + Sensitivity) - Adaptive capacity	11	15	18	8	16	12	15	16

<u>Note:</u> indices are based on a composite of 26 vulnerability indicators (**including consideration of vulnerable groups).** See Annex 1 for full index.

The focus settlements included in this assessment are likely to be strongly indicative of the selected settlements for the project and are thus appropriate sites for the study on several key parameters.

Key impacts. The most serious and the most common climate impact revealed by this rapid assessment is effluent overspill from poor sanitation infrastructure during river and sea flooding events resulting in skin and other sicknesses in children. This occurred in most settlements and is a combination of climate impacts (flooding), land management practices, dwelling and sanitation design and construction, and children's and parents' behaviors and activities. There are several other climate, environment infrastructure/ services livelihood, and human health impact chains reported and observed in these

Figure 5: Standing in front of their house that was destroyed by TC Winston is a household in Vunato. This settlement is exposed to all four key climate hazards as well as additional environmental hazards, making it one of the most climate exposed settlements in Fiji.



¹⁶ United Nations Habitat (2014) Planning for Climate Change: A strategic, values-based approach for urban planners, United Nations Human Settlements Programme (UN-Habitat), Nairobi.

settlements. For example, a lack of solid waste services results in and drainage and flooding issues, and impacts on children's and adults health, water-borne, insect-borne and malnutrition (due to reported impacts on farming lands).

<u>Exposure</u>: As a representative sample, the eight focus settlements illustrate the likely exposures of the 14 selected settlements for the project and likely the 62 settlements Fiji-wide who are in close proximity to waterways and thus exposed in four ways to climate impacts. This rapid vulnerability assessment has confirmed that flooding from rivers and the sea is the most commonly reported climate hazard with wide reaching impacts on health, housing, livelihoods and vulnerable groups.

<u>Sensitivity</u>: This rapid vulnerability assessment shows that there are key existing sensitivities among vulnerable population groups, particularly: children, women, ethnic minority groups¹⁷, and the elderly. There are also key ecosystem change impacts on both livelihoods and housing stock.

- Vulnerable population groups. There are several groups the RVA has shown as particularly sensitive to existing and increased climate impacts. It has found that five of the eight settlements reported specific impacts of existing climate issues on vulnerable groups. These include:
 - Women's inclusion. Three of the eight settlements had a high proportion of female headed households. In two of the focus settlements women were said to have the sole burden of responsibility for managing household affairs and money and caring for children and the elderly. These settlements will have a particular focus on women's participation in the development of resilience plans to enable project resources to support resilience building. Also, as noted above, children have been identified as particularly vulnerable groups to several climate, ecosystem, infrastructure and behavioural dimensions.
 - *Ethnic minorities.* Three of the eight settlements had a higher proportion of ethnic minorities whose particular sensitivities as a result of their membership of these groups, (for example lower levels of bonding and linking social capital), will be incorporated into the development of the assessment tool and inform plans.
 - Older people were also found to be particularly vulnerable to flooding and mobility issues it creates, with associated reduction of independence and social participation and increased support needs. Project resources will prioritise projects which enhance inclusion and participation of the elderly.
- Housing. The RVA has shown particular sensitivities of housing and sanitation infrastructure to climate and ecosystem impacts. Most settlements (five of the eight) had more than 50% of dwellings with poor or average construction quality and six of the eight had greater than 40% of dwellings with sanitation discharging directly (untreated) into the local environment (often the settlements storm water drainage). Half the settlements had inadequate water connections, in many cases these include connections that are prone to contamination from effluent

¹⁷ In Fiji, indigenous people are the majority and Indo-Fijian people and non-Fijian groups (from the Solomon Islands) may experience social exclusion.

overspill in communities. The full project vulnerability assessment will identify those most sensitive and exposed households and key resilience strategies and opportunities for improvements.

- □ Welfare and human development. Five of the eight settlements had an average household income below the Fijian Basic Needs Poverty Line making their adaptive capacity particularly compromised, and their inclusion in the project particularly important. Half of the settlements reported high rates of climate related health issues (water and insect borne disease, diarrhea, dengue fever) which in most cases had a clear relationship to environment conditions.
- Production, investment and land. Most settlements reported ecosystem dependent occupations (commercial fishermen) and livelihoods (subsistence farming/fishing). In half of the settlements, residents involved in fishing reported a reduction in fish stocks in that last 5 years.

<u>Adaptive capacity:</u> While only a few settlements reported significant features contributing to adaptive capacity, all were in Lami and illustrate the lasting impact that resilience and upgrading projects can have. For example, all settlements around Lami Bay were aware of the importance of mangrove conservation and its role in protecting against sea flooding and several had undertaken replanting as an ecosystem adaptation response. One settlement involved in a major settlement upgrading program reported having developed broad organizational and social capital and networks and demonstrated a more sophisticated awareness off and plans for ecosystem, land management and infrastructural adaptation strategies. These illustrate that the government institutional strengthening and capacity building components combined with community level resilience strengthening stand a good chance of success across the project sites based on previous experience.

Settlement Vulnerability Index



Vulnerability = (Exposure + Sensitivity) - Adaptive capacity

Exposure: (key climate hazards)

Sensitivity: (vulnerable demographics, housing, welfare and human development, land production and investment)

Adpative Capacity: (how well people, places, institutions, and sectors can adapt and become more resilient to climate change impacts)



Figure 6: identified exposure, sensitivity and adaptive capacity in assessed focus settlements in target town Lami



Figure 7: identified exposure, sensitivity and adaptive capacity in assessed focus settlement in target town Sigatoka



Figure 8: identified exposure, sensitivity and adaptive capacity in assessed focus settlements in target town Lautoka

Key to Figures - Lami

Fig: 1: Outlet from Wainivokai household toilet piped direct into shoreline in front of dwelling.

Fig: 2: Child from Wainivokai settlement standing in front of raw sewerage running from houses nearby.

Fig: 3: Mother with child in Wainivokai explaining that the sea saturated mud area in front of them used to be dry 10 years prior.

Fig: 4: Household in Vuniivi settlement, located in a mangrove area with a high water table. Sewerage and solid waste polluted water

water level rises above household floor pictured once a month during king tides. Cyclone Winston damage still visible.

Fig: 5: Community leader of Vuniivi settlement pointing towards rust caused from once a month king tide sea floods.

Fig: 6: Community leader in Qauia settlement (sector 14) pointing to the 2015 flood water levels.

Fig: 7: Farmer in Qauia settlement having highlighted settlement plantation areas damaged from recent flooding.

Fig: 8: Lady in Qauia settlement pointing to the flood levels reached in 2015 within her household.

Key to Figures - Sigatoka

Fig. 1: Sigatoka sand dunes highlighted as increasingly shifting towards Kulukulu settlement.

Fig. 2: Kulukulu settlement view from sand dunes, highlighting encroaching sand that covers settlement after storms & cyclones.

Fig. 3: Kulukulu residents, predominantly Indo-fijian as pictured.

Fig. 4: Kulukulu household pictured, highlighting the unsafe practice of storing water for drinking when water connection runs dry. Noting extremely high levels of dengue fever recorded in settlement.

Fig. 5: Burnt household from settlement fire which destroyed half the settlements households in early 2016.

Key to Figures - Lautoka

Fig. 1: Lautoka city sewerage pipe pictured overflows daily between 3-4am directly into river next to Vunato settlement. During times of flood, often thanks to a combination of king tides and rain this affected water then floods settlement.

Fig. 2: Vunato resident highlighting pollution from nearby coconut oil factory also running into river.

Fig. 3: Elderly female resident in Vunato fishing for subsistence in same polluted river.

Fig. 4: Children from both Vunato & Veidogo settlements collecting plastic waste daily, taken to recycling facility set up in Veidogo settlement.

Fig. 5: Vunato family having lost their house following tropical cyclone Winston 2016.

Fig. 6: Veidogo resident drying out household goods including her children's clothes and textbooks following the floods from cyclone Zena 2016.

Whist the project targets the vulnerable settlements as indicated above and as such supports key climate change strategies as well as the government's commitment to informal settlements upgrading (which emphasizes resilience), the Designated Authority and the Executing Agency have requested strong capacity development support for local authorities to ensure the success of the planned interventions and to sustain their impact. Further, whilst the policy framework is seen as conducive for community-level climate resilience building as well as for informal settlements upgrading, the government of Fiji has strongly articulated that some policy support is critical for making this project a success.

Project Objectives

The overall objective of the project is to increase the resilience of informal urban settlements in Fiji that are highly vulnerable to climate change and disaster risks.

This will be achieved by:

- 1. Institutional strengthening for enhanced local climate response:
 - Reduce vulnerability at the city-level to climate-related hazards and threats (AF Outcome 1)
 - Strengthen institutional capacity at the city-level and community level to reduce risks associated with climate-induced socioeconomic and environmental losses (AF Outcome 2)
 - Improve policies and regulations that promote and enforce resilience measures at the city level (AF Outcome 7)
- 2. Local (community) resilience strengthening:
 - Strengthen awareness and ownership of adaptation and climate risk reduction processes and capacity (AF Outcome 3)
 - Diversify and strengthen livelihoods and sources of income for vulnerable people in targeted areas (AF Outcome 6)
- 3. Enhancing resilience of community level physical, natural and socio-economic assets and ecosystems:
 - Increase adaptive capacity with relevant development and natural resource sectors (AF Outcome 4)
 - Increase ecosystem resilience in response to climate change and variability-induced stress (AF Outcome 5)
- 4. Awareness raising, knowledge management and M & E:
 - Project implementation is fully transparent. All stakeholders are informed of products and results and have access to these for replication M & E is in compliance with AF and UN-Habitat standards and procedures

Project Components and Financing

Project Components	Expected Concrete Outputs	Expected Outcomes	Amount (US\$)
1.Institutional strengthening to enhance local climate response actions	 City-wide (updated) risk and vulnerability assessment conducte for Lami, Sigatoka and Lautoka.¹⁸ Hazard maps produced¹⁹ City level early warning system needs assessment.²⁰ City-wide climate change action plans developed for Lami, Sigatok and Lautoka.²¹ 	related hazards and threats (AF Outcome 1)	620,000
	1.2.1. Climate Change mainstreaming support provided for local planning schemes (i.e. the local statutory physical plan).	to reduce risks	
	1.2.2.Local government self-assessment and planning tool for climate change resilience developed.22associated with climate- induced socioeconomic and environmental losses (AF Outcome 2)		
	established. 1.2.4. Training module developed for loc government officials and 1.2.5. Training of local government	al	
	officials in Lami, Sigatoka and Lautoka (including mentoring) conducted on climate change / resilience and physical and development planning, climate change mainstreaming and climate change governance.	9	

Lable 6. Proje	ect components	expected a	outputs and	outcomes and budget
		, 0/10000000	ouplate and	

¹⁸ Consistent with Fiji INDC: Undertake vulnerability assessment for all communities by 2019

¹⁹ Consistent with Fiji INDC: Develop hazard maps and models for all potential hazards (including sea level rise, storm surge, flood and tsunami) by 2020.

 ²⁰ Consistent with 2012 Fiji National climate change policy: Objective 5: adaptation strategy 12: Strengthen early warning systems to ensure effective and timely communication to the public, with particular attention paid to isolated, hazard-prone and disadvantaged areas.
 ²¹ Consistent with Fiji INDC: Develop climate and disaster resilience plans for urban and rural

²¹ Consistent with Fiji INDC: Develop climate and disaster resilience plans for urban and rural communities (prioritising squatter settlements and other vulnerable communities) by 2019.

²² Consistent with Fiji INDC: Development of a Local Government Self-Assessment Tool for Climate Change Resilience by 2016

	1.3.1. 1.3.2. 1.3.3.	Town and country planning act reviewed ²³ National building code reviewed ²⁴ Training of national government officials and country wide local level planners conducted (rolling out the training from 1.2.3 and 1.2.4. above)		Improved policies and regulations that promote and enforce resilience measures at the city level (AF Outcome 7) ²⁵	
2. Local (community) resilience strengthening	2.1.1.	community vulnerability assessment and action planning developed. ²⁶ Community-based climate vulnerability and informal settlements assessments conducted in at least 6 informal	2.1	Strengthened awareness and ownership of adaptation and climate risk reduction processes and capacity (AF Outcome 3)	640,000
	2.1.3. 2.1.4.	settlements in Lami, Sigatoka and Lautoka. ²⁷ Community-level resilience, recovery and upgrading plans developed in identified informal settlements. ²⁸ Targeted population groups participating in adaptation and risk reduction awareness activities focused on (at least):			
		 Early warning systems needs Housing assessments and resilience training Environmental and ecosystem management 			

²³ Consistent with Fiji INDC: Review the town plan regulations to facilitate the enforcement of zoning and buffer zones for coastal areas, rivers banks, high risk areas and mangrove areas. Review to be completed by 2016.

²⁴ Consistent with Fiji INDC: Review the National Building Code by end of 2016.

²⁵ Consistent with Fiji INDC: There is a need to develop an integrated approach and policy and operational level to effectively address climate change.

²⁶ Consistent with Fiji INDC: Development of a Local Government Self-Assessment Tool for Climate Change Resilience by 2016

²⁷ Consistent with Fiji INDC: Undertake vulnerability assessment for all communities by 2019

²⁸ Consistent with Fiji INDC: Develop climate and disaster resilience plans for urban and rural communities (prioritising squatter settlements and other vulnerable communities) by 2019.

	 2.2.1. Targeted household and community livelihood strategies strengthened in relation to climate change impacts, including variability, through: Training for resiliency skills (including for carpenters and other artisans) Training in coastal zone management Strategy development for food security and sustainable agriculture 	2.2 Diversified and strengthened livelihoods and sources of income for vulnerable people in targeted areas (AF Outcome 6)	
3. Enhancing resilience of community level physical, natural and social assets and ecosystems	 3. 1.1. Vulnerable physical, natural, and social assets and ecosystems developed or strengthened in response to climate change impacts, including variability based on identified and prioritized needs as articulated in the community resilience strategy with a consideration of: Urban development and the housing sector And secondary sectors: Communications and DRR Food security and sustainable agriculture sector Human health and welfare Marine and fisheries Waste and waste infrastructure Water resources and infrastructure All adaptation options will seek mitigation co-benefits as well as up and downstream resilience, and generally environmental, social and economic co-benefits 	3.1 Increased adaptive capacity with relevant development and natural resource sectors (AF Outcome 4) and increased ecosystem resilience in response to climate change and variability-induced stress (AF Outcome 5)	2.045.000

4. Awareness raising, knowledge management and M & E		regarding resilient urban community development/ housing are generated, captured and distributed to other communities, civil society, and policy-makers in government appropriate mechanisms. ²⁹ Regional Advocacy and replication Community level monitoring by DNA	 4.1. Project implementation is fully transparent. All stakeholders are informed of products and results and have access to these for replication; M & E is in compliance with AF and UN-Habitat standards and procedures 	230,000
5. Project/Programme Execution cost				
6. Total Project/Programme Cost				3,870,825
7. Project/Programme Cycle Management Fee charged by the Implementing Entity (if applicable)				
Amount of Financ	ing Req	uested		4,200,000

Projected Calendar

Table 7: project calendar

Milestones	Expected Dates
Start of Project/Programme Implementation	03-2017
Mid-term Review (if planned)	03-2019
Project/Programme Closing	03-2022
Terminal Evaluation	09-2021

²⁹ Consistent with 2012 Fiji National climate change policy: Objective 3: awareness raising strategy 2: Use a range of available communication technologies to conduct outreach activities related to climate change adaptation and mitigation.

PART II: PROJECT / PROGRAMME JUSTIFICATION

A. The project components

The target towns and informal urban settlements are characterized by a high exposure to multiple climate hazards but especially cyclones and floods. Climate sensitivity is underpinned by rapid urbanization and population growth, underlying vulnerabilities (poverty, limited access to basic services, gender inequalities, weather dependent livelihoods, environmental and ecosystem degradation) and limited adaptive capacity at household, community and governance level.

In order to achieve the overall project objective, "to increase the resilience of informal urban settlements in Fiji that are highly vulnerable to climate change and disaster risks," the project combines horizontally and vertically interrelated resilience strengthening of institutions, communities and physical, natural and social assets and ecosystems.

By taking a comprehensive approach, which strengthens national and local government capacities, policies and legal frameworks, enhances community capacities and facilitates processes that respond to current and future needs and provides a strong mix of soft and hard interventions, it is anticipated that local resilience at the household, community and human settlements level is sustainably strengthened.

The specific needs of women, indigenous people, people with disabilities and youth will be considered at all stages of the project. This is achieved through engaging representatives of these groups in community and stakeholder consultations with a community-based approach and people's process³⁰ – where community groups are formed and sustained throughout all stages of the project and through which communities participate in project implementation: in planning and executing activities and monitoring.

Component 1: Institutional strengthening to enhance local climate response actions.

In line with AF outcomes 1 and Fiji priorities³¹, this component will focus on reducing vulnerability to climate-related hazards and threats both at the national and local level by:

1.1.1. Conducting city-wide risk and vulnerability assessment

³⁰ Development driven by people/Support Paradigm: when people stays at the center of development planning process, the resource can be optimized with greater utility impacting larger number of people: <u>http://sopheapfocus.com/wp-content/uploads/2010/06/Picture-31.png</u> People's process of development can be witnessed through the evolvement of people's desire to improve their lives. Humans developed their settlement from living in caves, then building shelters, and now home. Along this settlement evolution, they had also established certain norms, standards, and a mutual understanding surrounding their community. That is called the people's process of development.

³¹ Especially FIJI INDC (2015), Fiji National Climate change policy (2012) and National Development strategy (2015).

- 1.1.2. Producing hazard maps
- 1.1.3. Conducting city level early warning system needs assessment.
- 1.1.4. Developing city-wide climate change action plans

The information generated by the vulnerability assessments (see method and expected outcomes in annex 3) and production of hazard maps will allow towns and the national government to plan for resilient development, including identifying low risk areas for development and identifying and prioritizing intervention that are resilient, sustainable and focused on the needs of vulnerable groups. Proposed interventions will be present in the climate change action plans. The early warning assessment will identify early warning system needs and barriers for establish such a system.

In line with AF outcomes 2 and Fiji priorities³², this component will also focus on strengthening institutional capacity to reduce risks associated with climate-induced socio-economic and environmental losses by:

- 1.2.1. Providing climate change mainstreaming support for local planning schemes.
- 1.2.2. Developing a local government self-assessment and planning tool for climate change resilience.
- 1.2.3. Establishing an urban planner / resilience officer.
- 1.2.4. Developing training modules.
- 1.2.5. Training local government officials in Lami, Sigatoka and Lautoka (including mentoring)

The capacity of local governments to deal with climate change and disasters in Fiji is limited. To ensure local planning practices focus on resilience outcomes, climate change mainstreaming support and government trainings are provided. To ensure sustainability of these processes, a local government self-assessment and planning tool for climate change resilience will be developed in combination with the establishment of an urban planner/resilience officer – as currently, no urban planner is working in the target towns.

In line with AF outcomes 7 and Fiji priorities³³, this component will also focus on improving policies and regulations that promote and enforce resilience measures, especially at the local level, by:

- 1.3.1. Reviewing the town and country planning act
- 1.3.2. Reviewing the national building code
- 1.3.3. Training national government officials and country wide local level planners

As described in the background section, cyclones and floods can have large economic, social and environmental impacts, especially on the housing-, infrastructure- and environment sectors (by destroying houses and physical, social and natural assets). By

³² Especially FIJI INDC (2015) and Fiji National Climate change policy (2012).

³³ Especially FIJI INDC (2015) and Fiji National Climate change policy (2012).

integrating climate change vulnerability and disaster risk information in the town and country planning act and national building code, future resilient development will be promoted, including for instance, protection of ecosystems that function as a storm/flood buffers for urban areas and providing livelihood functions. To enhance the capacity of national government officials to plan for resilient development, also in coordination with local governments, trainings will be provided.

Component 2: Local (community) resilience strengthening

In line with AF outcomes 3 and Fiji priorities ³⁴, this component will focus on strengthening awareness and ownership of adaptation and climate risk reduction processes and capacity by:

- 2.1.1. Developing an assessment and planning tool for community vulnerability assessment and action planning.
- 2.1.2. Conducting community-based climate vulnerability and informal settlements assessments in at least 6 informal settlements in Lami, Sigatoka and Lautoka.
- 2.1.3. Developing community-level resilience, recovery and upgrading plans in identified informal settlements.
- 2.1.4. Involving targeted population groups in adaptation and risk reduction awareness activities focused on (at least):
 - Early warning systems
 - Housing assessments and resilience training
 - Environmental and eco-system management

The outputs of component 2 are similar to those under component 1 (1.1.1. - 1.1.4.) but focused on the community level. Although similar, information generated by vulnerability assessments (see method and expected outcomes in annex 3) will allow communities to plan for resilient development, including identifying low risk areas for development and identifying and prioritizing intervention that are resilient, sustainable and focused on community needs (and especially those of vulnerable groups). Proposed interventions will be present in the community-level resilience, recovery and upgrading plans. To ensure awareness and ownership over the project activities, targeted population groups will be involved in all steps (planning, implementation, monitoring, etc.) of project activities, including trainings to assess housing and resilience, managing the environment and eco-systems and setting up early warning systems. An assessment and planning tool for community vulnerability assessment and action planning will be developed to ensure communities can easily participate in conducting the vulnerability assessments and in developing community-level resilience-, recovery- and upgrading plans.

³⁴ Especially FIJI INDC (2015), Fiji National Climate change policy (2012) and National Development strategy (2015).

In line with AF outcomes 6 and Fiji priorities ³⁵, this component will also focus diversifying and strengthened livelihoods and sources of income for vulnerable people in targeted areas by:

- 2.2.1. Strengthening livelihood strategies of targeted households and communities in relation to climate change impacts, including variability, through:
 - □ Training for resiliency skills (including for carpenters and other artisans)
 - □ Training in coastal zone management
 - Strategy development for food security and sustainable agriculture

To minimize reduction or loss of livelihoods due to climate change impacts and variability, communities need to establish resilient livelihood related strategies, including being trained as per above. As for food security and sustainable agriculture strategies, these could include diversification of crop species, switching to more durable crop species (resilient to flood, drought, salt water and diseases) and improved land management practices.³⁶

Component 3: Enhancing resilience of community level physical, natural and social assets and ecosystems

In line with AF outcomes 4 and 5 and Fiji priorities³⁷, this component will focus on increasing the adaptive capacity of relevant development and natural resource sectors and increasing ecosystem resilience in response to climate change and variability-induced stress by:

3.1.1. Developing or strengthening vulnerable physical, natural, and social assets and ecosystems in response to climate change impacts, including variability, based on identified and prioritized needs as articulated in the community resilience strategy, with a consideration of the:

□ Urban development and housing sector:

And secondary sectors:

- □ Communications (and disaster management)
- □ Food security and sustainable agriculture
- □ Human health and welfare
- □ Marine and fisheries
- □ Waste and waste infrastructure
- □ Water resources and infrastructure

³⁵ Especially FIJI INDC (2015), Fiji National Climate change policy (2012) and National Development strategy (2015).

³⁶ Suggested adaptation measures in the agriculture sector in National climate change policy (2012, p 52).

³⁷ Especially FIJI INDC (2015), Fiji National Climate change policy (2012) and National Development strategy (2015).

All adaptation options will seek mitigation co-benefits as well as up and downstream resilience and generally environmental, social and economic co-benefits. This is achieved through the earlier conducted vulnerability assessments and the city-wide climate change plans and resilience-, recovery- and upgrading community plans and community resilience strategies based on the vulnerability assessments. As mentioned in the introduction of this section, representatives of vulnerable groups will be engaged in planning and executing activities and monitoring, thus ensuring specific needs are considered. Dependent on the size, vulnerability and needs of informal settlements, funding will be allocated to prioritized.

Relevant resilience project results may include (as suggested by the National climate change policy³⁸ - which is in line with the Fiji INDC):

The urban development and housing sector:

- Construction of buildings and structures away from foreshore areas, riverbanks and floodplains;
- Utilisation of cyclone and flood resilient construction methods;
- Utilisation of construction materials resilient to strong winds, water damage, high solar radiation and salt spray;
- Flood control through: diversion channels; the building of weirs, cut-off channels, retarding basins and dams; and river-improvement activities such as channel widening, dyke construction and river-bed excavation;
- Catchment management, including reforestation, land-use controls, protection of wetlands and soil conservation.

Secondary sectors:

Communications (and disaster management)

□ Telecommunication for emergency calls and warnings

Food security and sustainable agriculture

- Diversification of crop species
- Switching to more durable crop species (resilient to flood, drought, salt water and diseases)
- □ Improved land management practices.

Human health and welfare:

- Developing or improving disease early warning system.
- □ Identifying and protecting the health of the most vulnerable groups in society
- Climate proof water, health and sanitation infrastructure

³⁸ National climate change policy (2012,) Annex 3: sectoral implications of climate change

Marine and fisheries:

- □ Preservation of mangrove areas, coral reefs and other coastal zones;
- □ Improved watershed management to reduce river bed and bank stability;
- Increased construction standards to minimize soil run-off and erosion during construction activities.

Waste and infrastructure

- □ Reduction of household waste burning;
- □ Promotion of household composting, including use of compost toilets;
- □ Increased recycling facilities and collection.

Water resources and infrastructure:

- Diversification of water supply sources and storage types;
- □ Upgrade and replacement of aged water supply, wastewater and storm-water infrastructure;
- Education and awareness activities at community level to improve awareness of water conservation.

Component 4: Awareness raising, knowledge management and M & E

In line with AF guidelines Fiji priorities³⁹, this component will ensure the project implementation is fully transparent, all stakeholders are informed of products and results and have access to these for replication and M & E is in compliance with AF, UN-Habitat and Fiji government standards and procedures. This is done through:

- 4.1.1. Lessons learned and best practices regarding resilient urban community development/ housing are generated, captured and distributed to other communities, civil society, and policy-makers in government appropriate mechanisms.
- 4.1.2. Regional Advocacy and replication
- 4.1.3. Community level monitoring by DNA
- 4.1.4. Overall project monitoring and evaluation

Lessons regarding resilient urban community development/ housing include community specific resilient housing and other infrastructure construction techniques and planning and development processes (in guidelines) in combination with national policy guidance (i.e. building code and town planning). To maximize community ownership and awareness, communities will be involved in monitoring (besides planning and executing project activities). As other islands in the Pacific experience similar climate change

³⁹ Especially FIJI INDC (2015), Fiji National Climate change policy (2012) and National Development strategy (2015).

issues, lessons will also be shared at the regional level. This will be done through the Pacific Urban Forum, various Regional Meetings, Regional Agencies and regional online media.

B. Economic, social and environmental benefits

The severe climate impacts on Fiji cause loss of lives and damage properties, community assets and the environment, exemplified by Cyclone Winston in 2016. The frequency and severity of these events is projected to increase.

By implementing a combination of institutional, community and assets risk and vulnerability reduction measures, especially in vulnerable/poor urban areas, this project is expected to provide reductions in future climate related economic, household and livelihood losses, reductions in vulnerabilities of women, indigenous people, disabled people and youth and reductions in environmental degradation.

Given that communities, and especially vulnerable groups, will be involved throughout the project, they'll have the opportunity to directly influence project activities and outcomes, thus influencing their direct project benefits.

Type of	Baseline	With/after the project
benefit		
Economic	Regular cyclones and floods increasingly lead to economic and household losses and loss of livelihood options.	Reduction in economic and household losses because institutions, communities and physical and natural assets, ecosystems and livelihoods are more resilient.
	Long-term climate change impacts such as sea level rise, droughts and coral bleaching will lead to increased economic and household costs and loss of livelihood	New climate resilient infrastructure and services contributes to economic benefits.
	options	Reduction in economic and household losses of informal urban settlements because of above and
	Informal urban settlements are dense, lack (resilient) houses/infrastructure and have limited livelihood options.	enhanced livelihood options because of increased ecosystem resilience.
Social	Regular cyclones and floods can increasingly be considered as co-drivers of poverty and lead to fatal accidents and compound social problems such as, disease, sanitation, food security issues, community safety issues etc.	Reduction in climate induced poverty, fatality rates, diseases and food security and safety issues because institutions, communities and physical and natural assets, ecosystems and livelihoods are more resilient.
	Long-term climate change impacts such as sea level rise, droughts and coral bleaching will lead to reduced social well-	Capacity development and direct involvement in adaptation actions increases the resilience of the most disadvantaged in the city.
	being and reduction in communities' adaptive capacity	Reduction of climate induced poverty, fatality rates, diseases and food security and safety issues especially in informal urban settlements
	The lack of (resilient) houses/	because of above. Safe and resilient houses and

Table 8: Overview of economic, social and environmental benefits of AF intervention compared to no intervention (baseline).

	infrastructure, high poverty incidences and density in informal urban settlements lead to relatively high fatality rates, diseases and safety issues, especially for	infrastructure will increase security of women and other vulnerable groups and will reduce health issues.
	women, elderly, disabled people and youth	New climate resilient infrastructure and services contributes to social well-being.
Environ- mental	Urban development increasingly leads to environmental degradation, land losses, increased waste production and energy use. Long-term climate change impacts such as sea level rise, droughts and coral bleaching increasingly leads to environmental degradation. Rapid growth of urban settlements increasingly leads to environmental degradation, land losses, increased flood and heat risks, increased waste production and energy use. Ecosystem degradation and increased waste production lead to reduction of livelihood options and health issues and flood risks because of waste, especially in informal urban settlements	Reduction in climate induced environmental degradation and losses and waste production because of environmental/ecosystem protection, community-based waste reduction and recycling schemes and energy efficient building construction techniques. Reduction of health and waste related issues in informal urban settlements because of above. Reduced human impact though changes to land plans and regulations/zoning, waste e.g. community-based waste reduction and recycling schemes and energy efficient building construction techniques. Promotion of ecosystem-based adaptation in the urban environment, leading to environmental benefits

C. Cost-effectiveness of the project

The project aims to be cost-effective by:

- Avoiding future costs of climate change impacts and ensuring sustainability of interventions
- Efficient project operations
- Community involvement/distributions
- Selecting technical options based on cost-, feasibility and resilience/sustainability criteria

Avoiding future costs of climate change impacts and ensuring sustainability of interventions

Taking no action (business as usual) will lead to incrementally increasing costs in time associated with damage and losses due to cyclones, floods and other disasters (for data see background section), low productivity/limited livelihood options and health related costs, especially in informal urban settlements. Proposed interventions under this project will reduce these future costs. Although sustainability related measures (including e.g. development of government self-assessment and planning tool for climate change resilience, the establishment of a resilience officer, policy and law interventions, trainings and community involvement and resilient planning and design of physical assets can be considered as 'extra' costs, not bearing these costs will

significantly reduce the impact on the long run of this project and the scale beyond the community (i.e. country-wide impact).

Efficient project operations

UN-Habitat traditionally shows high cost-effectiveness in project operations because technical assistance, capacity building and infrastructure designs are done mostly inhouse, because UN-Habitat works directly with local government partners (thereby building their capacity as well as reducing costs) and because of strong community involvement, which helps reducing costs significantly. This is relevant to all components of the project.

Community involvement/distributions

The project will be implemented in close partnership with communities and local government institutions. This model of partnership will allow significant cost reduction as communities and local partners will provide support. For example, communities will provide in-kind contributions by participating in infrastructure development (e.g. house construction).

Selecting technical options based on cost-, feasibility and resilience/sustainability criteria

Although non-resilient technical intervention may initially cost less to construct (between 30-50 per cent), resilient technical options are expected to last much longer, especially with every year recurring cyclones and floods. As for the costs per technical type, this will vary significantly depending on the location of such an intervention (i.e. remoteness, size, terrain, etc.).

Alternative technical adaptation/resilience options to achieve the same intended outcome under component 3 will be assessed during the project. Depending on the climate change vulnerabilities and disaster risks identified per town and informal settlement, appropriate adaptation/resilience measures will be identified, prioritized (in town and community plans) and then implemented/constructed.

D. Project consistency with national or sub-national sustainable development strategies

This project is consistent with national and sub-national development strategies. While the Fiji National Development Plan (2015) serves as the overall implementation framework for this project, The Fiji's Intended National Determined Contributions (INDC) (2015) and the National Climate Change Policy (NCCP) (2012) have served to identify relevant project outputs and activities (see footnotes in the project components and financing matrix and relevant proposed adaptation actions from the INDC and NCCP highlighted in red in annex 2).

The project also aligns with sectoral policies, plans, programmes and strategies as listed below.

Table 9: Policies, plans and programmes for project relevant sectors (sectoral focus of the National Climate Change Policy).

Sector	Policies, plans and programmes
Urban development and	- Informal Settlements Upgrading Strategy, 2016
housing	- The National Housing Policy, 2012
	- Lami-Nausori Land Use TLTB Master Plan (2007)
Communications (and	- Greater Suva Urban Growth Management Plan (2006)
Communications (and disaster management)	 Disaster Risk Reduction and Disaster Management: A Framework for Action 2005-2015
	- National Disaster Management Plan 1995
Food security and	 Fiji 2020 Agriculture Development Agenda, 2014
sustainable agriculture	 Disaster Risk Management Strategy for the Agriculture Sector, 2010
Human health and welfare	 The Ministry of Health is working with the World Health Organization to address climate change impacts on public health.
	 Fiji Food and Nutrition Policy, 2008
Marine and fisheries	 The Integrated coastal management plan (under development) may address the impacts of climate change on water catchments and coastal environments. National Biodiversity Strategy and Action Plan Implementation Framework, 2010–2014. Integrated Coastal Management Framework of the Republic of Fiji, 2011
Waste and waste	 National Solid Waste Management Strategy 2011-2014,
infrastructure	- A Green Growth Framework for Fiji 2014,
	- National Liquid Trade Waste Policy 2013
	- National Liquid Waste Management Strategy 2006,
	- National Air Pollution Control Strategy 2007
Water resources and infrastructure	 National Resources and Sanitation Policy, 2011

E. Compliance with relevant national technical standards

All project activities are in compliance with existing rules, regulations, standards and procedures endorsed by the government, as shown in the table below. In addition, compliance with tools are discussed below.

Table 10: Project compliance with relevant rules, regulation, standards, procedures and tools to project activities

E	spected Concrete Outputs	Relevant rules, regulations, standards and procedures	Compliance & procedure
1.1.1.	City-wide (updated) risk and vulnerability assessment conducted for Lami, Sigatoka and Lautoka	Fiji's Climate Change Division Integrated Vulnerability Assessment Toolkit / Framework and UN- Habitat Planning for climate change toolkit	The project will engage the Fiji's Climate Chnage Division IVA framework to determine the vulnerabilities of the settlements and to identify possible adaptation oprtions to increase their resilience.
1.1.2	Hazard maps produced	Fiji Comprehensive Hazard Assessment and Risk Management (CHARM) tool	The project will produce hazard maps by using the CHARM tool (strategy 5 under the objective of Adaptation of the National Climate Change Policy)
1.1.3	City level early warning system needs assessment.	Early warning systems are vital, gaps exists such as observation & monitoring systems, data processing capabilities to generate early warning information; integration of warning information into decision making for enhanced preparedness & community awareness; and capabilities to understand and respond to early warning information	To strengthen early warning systems to ensure effective and timely communication to the public, with particular attention paid to isolated, hazard-prone and disadvantaged areas
1.1.4	City-wide climate change action plans developed for Lami, Sigatoka and Lautoka	Fiji's National Climate Change Policy and draft National Climate Change Adaptation Strategy	The project will develop action plans in compliance with the policy and draft strategy

1.2.1.	Climate Change mainstreaming support provided for Local planning schemes.	Town and country planning act and building code (as per 1.3.1. and 1.3.2.)	
1.2.2.	Local government self-assessment and planning tool for climate change resilience developed.	Not relevant	
1.2.3.	Urban Planner / Resilience officer established.	Not relevant	
1.2.4.	Training module developed	Not relevant	
1.2.5.	Training of local government officials in Lami, Sigatoka and Lautoka (including mentoring) conducted.	Not relevant	
1.3.1.	Town and country planning act reviewed	Town and country planning act	The project will review the act with Department of Town & Country Planning
1.3.2.	National building code reviewed	National building code	The project will review the act with Ministry of Health
1.3.3.	Training of national government officials and country wide local level planners conducted (rolling out the training from 1.2.3 and 1.2.4. above)	Not relevant	, , , , , , , , , , , , , , , , , , ,

2.1.1.	Assessment and planning tool for community vulnerability assessment and action planning developed.	Not relevant	
2.1.2.	Community-based climate vulnerability and informal settlements assessments conducted in at least 6 informal settlements in Lami, Sigatoka and Lautoka	Fiji's Climate Change Division Integrated Vulnerability Assessment Toolkit / Framework and UN- Habitat Planning for climate change toolkit	The project will conduct vulnerability assessments in compliance with processes and procedures described in the toolkit, but then simplified to be used at community level. The project will also engage the Climate Change Division's IVA Framework to identify the most suitable adaptation options.
2.1.3.	Community-level resilience, recovery and upgrading plans developed in identified informal settlements.	National Disaster Management Act, National Disaster Mnagement Plan Act & National Climate Change Policy	The project will contribute towards the development and strengthening of community disaster management plans and also the incorporation of climate
2.1.4.	Targeted population groups participating in adaptation and risk reduction awareness activities focused on (at least):	Not relevant	change and disaster risk reduction in their 5-years development plans
	 Early warning systems needs Housing assessments and resilience training Environmental and eco- system management 		
2.2.1	 Targeted household and community livelihood strategies strengthened in relation to climate change impacts, including variability, through: Training for resiliency skills (including for carpenters and other artisans) Training in coastal zone management Strategy development for 	National Employment Centre Decree, National Climate Change Policy, Integrated Coastal Management Framework, Fiji 2020 Agriculture Sector Policy Agenda	The activities set to achieve this output is aligned to the achievement of the objectives in the National Employment Centre Decree 2009, National Climate Change Policy, Integrated Coastal Management Framework 2011, Fiji 2020 Agriculture Sector Policy Agenda
	food security and sustainable agriculture		

3.1.1. Vulnerable physical, natural, and social assets and ecosystems developed or strengthened in response to climate change impacts, including variability based on identified and prioritized needs as articulated in the community resilience strategy with a consideration of:	Fiji Environment Impact Assessment (EIA) Regulations; Green Growth Framework for Fiji; National Climate Change Policy; Draft National Climate Change Strategy; National Housing Policy.	The project aligns with the rules, regulations, standards and procedures on the left;
Urban development and the housing sector	Town and country planning act; National building code Building Back Better Strategy for reconstruction of homes Native Lands (Amendment) Act; Native Land Trust (Amendment) Act; Environment Management Act; National Housing Policy	The project will develop assets in compliance with the rules, regulations, standards and procedures on the left
And secondary sectors: Communications	National Disaster Mangement Act, National Climate Change Policy: early warning systems are vital, gaps exists such as observation & monitoring systems, data processing capabilities to generate early warning information; integration of warning information into decision making for enhanced preparedness & community awareness; and capabilities to understand and respond to early warning information	The project will enhance community early warning preparedness systems in compliance with the rules, regulations, standards and procedures on the left
Food security and sustainable agriculture sector	Fiji 2020 Agriculture Sector Policy Agenda	The project will build sustainable communities by ensuring food security
Human health and welfare	Public Health Act	alongside the primary
Marine and fisheries	Fisheries Act (Amendment) Decree, 1991	economic goal of increasing income and employment opportunities
All adaptation options will seek mitigation co-benefits as well as up and downstream resilience, and generally environmental, social and economic co-benefits		

4.1.1.	Lessons learned and best practices regarding resilient urban community development/ housing are generated, captured and distributed to other communities, civil society, and policy-makers in government appropriate mechanisms.	AF, UN-Habitat and Fiji standards for M & E	The project will conduct M & procedures in compliance with AF, UN-Habitat and Fiji standards
4.1.2.	Regional Advocacy and replication		
4.1.3.	Community level monitoring by DNA		
4.1.4.	Overall project monitoring and evaluation		

F. Other funding sources

One of the selection criteria of the target towns and informal settlements is that of avoided overlap with other projects. This information has been retrieved based on indepth consultations with the national government and target towns.

Relevant project have been identified based on the same consultations with the national government and online research. Relevant projects and their complimentary potential (with information retrieved from consultation with UNDP and ADB and online research about GEF projects are listed below.

Relevant projects	Complimentary potential
AF: UNDP (US\$5,7 million grant for Enhancing Resilience of Rural Communities to Flood and Drought- Related Climate Change and disaster Risks in the Ba Catchment Area of Fiji) – yet to commence	This project will use lessons learned regarding early warning systems, community-based adaptation, institutional strengthening and awareness raising.
GCF: ADB (US\$31 million grant for Fiji Urban Water Supply and Wastewater Management Project that will benefit a third of the country's population of 860,000).40	This project will use lessons learned regarding water supply
GEF 13 national projects (biodiversity, renewable energy/climate change)41 and	This project will use lessons learned regarding biodiversity, climate change and

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Table 11: Relevant	projects and the	ir complimentary	/ potential

⁴⁰ <u>http://www.adb.org/news/adb-project-fiji-among-those-first-financed-green-climate-fund</u>

⁴¹https://www.thegef.org/gef/project_list?keyword=&countryCode=FJ&focalAreaCode=all&agencyCode=all&proje ctType=all&fundingSource=all&approvalFYFrom=all&approvalFYTo=all<gt=lt<gtAmt=&op=Search&form_b uild_id=form-wOEwfIapUxAYjocbCsH_tTH5biliREKKPIkrrgnkpRg&form_id=prjsearch_searchfrm

35 regional and global projects: (biodiversity, renewable energy/climate change, human health, international waters).	human health
Urban development and housing:	World Bank: City-wide and town wide upgrading programme (since 2013) subdivision plans and sanitation, electricity and road infrastructure in selected settlements. Limited/no focus on resilience. Limited geographical overlap.
Cyclone Winston	The Post Disaster Needs Assessment was finalized in May 2016. The government has allocated approximately USD 35,000,000 for recovery and the international community is expected to further contribute in line with the identified priorities in the PDNA. Households whose houses were completely destroyed are to receive up to USD 3,500 if formal areas and USD 750 if informal areas for building material.
SPREP PEBACC project (ecosystem services in Fiji, Vanuatu and the Solomon Islands)	Fiji will be one of the case studies for this Pacific project and there are opportunities to complement their activity with a focus on informal settlements.

G. Capturing and disseminating lessons learned

A dedicated component (4) addresses Awareness raising, knowledge management and M & E. Whilst this provides the cornerstone for capturing and disseminating lessons learned, other project components directly contribute to knowledge management mechanisms and dissemination of lessons learned from local to national and to international levels (see table below).

At the local level, a participatory approach (involving communities and local authorities in planning and implementation activities) will lead to increased local knowledge on climate change adaptation. Project demonstration sites will contribute, from the start and in an ongoing way, to sharing lessons and training through local disseminators and tools and guidelines. The project will also use a participatory monitoring process, which will enable the beneficiary communities under component 2 to work directly with the project's M&E officer, to highlight issues in delivery and to strengthen adaptation benefits, including in replication and sustaining the project's gains.

At the national level, other vulnerable cities/towns in Fiji will be able to draw from

lessons learned through this project, including replication and scale-up of good practices. Information will be consolidated in reports and the tools and guidelines will be developed for resilient (and vulnerable groups sensitive) urban community development/upgrading and housing construction. A direct linkage will be established, through the partnering departments of the various line ministries at the city/town level, with the ministries at the national level facilitating countrywide dissemination to other towns, informal settlements, policy-makers and civil society.

At the international level, other climate change related projects, especially related to urban development, informal settlements and resilient housing and community level infrastructure may benefit from this project. The Council of Regional Organizations (CROP) Agencies: the Secretariat of the Pacific Community (SPC), Secretariat of the Pacific Community Applied Geo- science and Technology Division (SOPAC) and the Secretariat of the Pacific Environmental Programme (SPREP) and Academic Institutes: University of the South Pacific, Fiji, provide knowledge management platforms for Climate Change and Human Settlements interventions. It is proposed to use this platform (as well as UN-Habitat websites) to disseminate the lessons learned from this project.

E	xpected Concrete Outputs	Learning objectives (Io) & indicators (i)	Knowledge products
1.1.1.	City-wide (updated) risk and vulnerability assessment conducted for Lami, Sigatoka and Lautoka	(lo): improved understandinglocal vulnerabilities(i) no of participatinggovernment officials	3 city level vulnerability assessment reports
1.1.2.	Hazard maps produced	(lo) improved awareness of georgraphy of hazard risks (i) maps shared and published	3 city level hazard maps
1.1.3.	City level early warning system needs assessment.	(lo): improved understanding EWS needs (i) no of participating government officials	3 EWS needs assessment report
1.1.4.	City-wide climate change action plans developed for Lami, Sigatoka and Lautoka	(lo): improved climate change sensitive planning (i) no of plans	3 climate change action plans

Table 12: Project outputs and related learning objectives & indicators and products

1.2.1.	Climate Change mainstreaming support provided for Local planning schemes.	(lo): improved mainstreaming capacity(i) no of participating government officials	2 Revised Planning Schemes (local statutory plans) for targeted municipalities.
1.2.2.	Local government self-assessment and planning tool for climate change resilience developed.	(lo): autonomous replicationin other towns possible(i) tool shared with other local governments	Local government self- assessment and planning tool
1.2.3.	Urban Planner / Resilience officer established.	govorimento	
1.2.4.	Training module developed	(lo): to execute above (i) no of participating government officials	Training module
1.2.5.	Training of local government officials in Lami, Sigatoka and Lautoka (including mentoring) conducted.		
1.3.1.	Town and country planning act reviewed	(lo): to plan in a resilient way (i) updated town and country act	Updated town and country planning act
1.3.2.	National building code reviewed	(lo): to build in a resilient way (i) updated national building code	Updated National building code
1.3.3.	Training of national government officials and country wide local level planners conducted (rolling out the training from 1.2.3 and 1.2.4. above)		

2.1.1.	Assessment and planning tool for community vulnerability assessment and action planning developed.	 (lo): autonomous replication in other communities possible (i) tool shared with other communities 	Assessment and planning tool for community vulnerability assessment and action planning
2.1.2.	Community-based climate vulnerability and informal settlements assessments conducted in at least 6 informal settlements in Lami, Sigatoka and Lautoka	(lo): improved understanding community vulnerabilities (i) no of participating community members	14 community-based climate vulnerability and informal settlements assessments
2.1.3.	Community-level resilience, recovery and upgrading plans developed in identified informal settlements.	(lo): improved climate change sensitive community planning (i) no of plans	14 community-level resilience, recovery and upgrading plans
2.1.4.	Targeted population groups participating in adaptation and risk reduction awareness activities focused on (at least):	 (lo): improved climate change awareness of communies (i) no of participating community members 	Training reports and training material
	 Early warning systems needs Housing assessments and resilience training Environmental and eco- system management 		
2.2.1.	Targeted household and community livelihood strategies strengthened in relation to climate change impacts, including variability, through:	(lo): improved awareness of community livelihood options(i) no of strategies developed	
	 Training for resiliency skills (including for carpenters and other artisans) Training in coastal zone 		
	 management Strategy development for food security and sustainable agriculture 		14 strategy reports for food security and sustainable agriculture

3.1.1.	Vulnerable physical, natural, and social assets and ecosystems developed or strengthened in response to climate change impacts, including variability based on identified and prioritized needs as articulated in the community resilience strategy with a consideration of:	(lo): improved knowledge of resilient community and	1 Resilient houses development guidelines
	 Urban development and the housing sector And secondary sectors: Communications (and disaster risk reduction) Food security and sustainable agriculture sector Human health and welfare Marine and fisheries Waste and waste infrastructure Water resources and infrastructure 	housing development (i) no of guidelines developed	1 Resilient communities development guidelines, including elements from other sectors if relevant Demonstration sites
co-bene resilien	ptation options will seek mitigation efits as well as up and downstream ce, and generally environmental, and economic co-benefits		
4.1.1.	Lessons learned and best practices regarding resilient urban community development/ housing are generated, captured and distributed to other communities, civil society, and policy-makers in government appropriate mechanisms.	(lo): sharing of lessons learned and best practices (i) no of platforms used for sharing	 Report for general public. Advocacy material Video
4.1.2.	Regional Advocacy and replication		Dissemination through regional organizations and websites
4.1.3.	Community level monitoring by Designated Authority		
4.1.4.	Overall project monitoring and evaluation		Project monitoring report

The integrated knowledge management approach as demonstrated in Table 12 will result in tools, guidelines, trained officials and demonstration sites. In particular, the close collaboration with key stakeholders at national and levels, the updated towns and planning act and building code and the production of guidelines and tools that can be used autonomously by other stakeholders will ensure the sustainability of the approach.

H. The Consultation process

Two consultations undertaken by UN-Habitat's Regional Office took place for the development of this concept proposal in Fiji. The first consultation (from 3 to 7 July) to confirm government priorities (from policies and plans) and agreeing on (and establishing wide support for) what this proposal. Meetings were held with the National Designated Authority, the Climate Change Division of the Ministry of Finance, the Executing Agency, the Ministry of Local Government, Housing and Environment as well as civil society, academia and the leadership of several local governments. The consultations detailed the thematic and geographic focus. Additional consultations were held from 18 to 23 July 2016, focusing on the pre-identified target communities. In community consultations specific interests and concerns relating this project and related safeguard were identified, including those of women, indigenous people, elderly, youth and people with disability. The table below provides an overview of stakeholders consulted, consultation objectives, outcomes and conclusions.

Besides these consultations this project proposal builds on data/information gathered by UN-Habitat in Fiji for:

- 1. Climate Change Vulnerability Assessment and community action planning in Lami (2014)
- 2. Informal Settlements Consultation (broader since 2015 and in depth in 2016) in partnership with PCN and MLGHE
- 3. PDNA consultations (UN-Habitat focusing on informal settlements), which let to this project idea

Stakeholder (incl. role/function)	Consultation objective	Outcome	Conclusion
Climate Change Division (Ministry of Finance - New Adaptation Fund Designated Authority): Ovini S. Ralulu, Director Manasa Katonivualiku Mesake T. Semainaliwa	Select priority locations, align with policy, synergize with other projects and avoid overlaps	Substantive and geographic priorities Project Components and Financing Project	Designated Authority to endorse project and to support project development and implementation
Ministry of Local Government [Permanent Secretary, Joshua Wycliffe, Director for Housing, Kolinio Bola, Shelter Cluster Coordinator, Vula Shaw]	Select priority locations, align with Ministry priorities, ensure synergies with ongoing and planned activities	implementation Plan Project Components and Financing Role of Executing Agency and MIE Implementation Mechanisms	Agreement on main executing agency.
Various Local Government leaders (including CEOs) of Lami, Sigatoka and Lautoka	Identification of local priorities and approach to resilience and informal settlements.	Long-list of local governments and informal settlements.	Selection of three municipalities for project implementation.

Table 13: Stakeholder consulted and outcomes

People's Community	Selection of priority	Brief community	Long-list of target
Network (National	communities.	profiles	communities.
Umbrella NGO for informal	Strategy for community		
settlements organizations)	engagement.	Community priorities	
Semiti Qalowasas, Director	Role of PCN and		
Fr. Kevin Barr	communities in project		
Savu Tawake, Deputy	implementation.		
Director	PCN support for		
	community consultations.		
Communities	Moving from long-list to	8 Communities	Further narrowing down
	short list of target	consulted and	of priority communities.
	communities and	community inputs on	
	understanding local	exposure, sensitivity	Initial identification of
	exposure, sensitivity and	and adaptive	priority actions.
	adaptive capacity	capacity obtained.	
UNDP	Synergize with other	Ensuring synergies	Agreement on frequent
	projects avoid overlaps	between AF projects	communication and
	and identify lessons		close collaboration if
	learned		project eventuates.

I. Justification of funding request

The proposed project components, outcomes and outputs fully align with national and local government/institutional priorities/gaps identified, with identified community and vulnerable groups needs and with all seven Adaptation Fund outcomes as stated in the Adaptation Fund results framework. This alignment has resulted in the design of a comprehensive approach in which the different components strengthen each other and in which outputs and activities are expected to fill identified gaps of Fiji's current climate change response. The project aims to maximizing the funding amount for the concrete adaptation component (component 3); funding allocation to the other (softer) components is required for complementarity/support for component 3 and sustainability and quality assurance of the project. The table below provides a justification for funding requested, focusing on the full cost of adaptation reasoning, by showing the impact of AF funding compared to no funding (baseline) related to expected project outcomes.

Outcomes under components 1-4	Baseline (without AF)	Additional (with AF)	Comment/ Alternative adaptation scenario
1.1. Reduced vulnerability at the city-level to climate-related hazards and threats (AF Outcome 1)	Local authorities have limited understanding of local climate change vulnerabilities and disaster risks and have no plans to address these	Local authorities have used tools to identify climate change vulnerabilities and disaster risks and developed plans to address these	Without data/information on vulnerabilities and disaster risks, adaptation measures can be implemented but won't be effective and or appropriate
1.2. Strengthened institutional capacity at the city-level to reduce risks associated with	Local authorities have limited capacity to execute project activities and sustain and or	Local authorities have the capacity to execute project activities and sustain and or	Replication and scale-up is much more time- consuming and resource intensive because local

Table 14: Overview of impact of AF funding compared to no funding (baseline) related to expected project outcomes

climate-induced socioeconomic and environmental losses (AF Outcome 2)	replicate these	replicate these	capacity has not been generated
1.3. Improved policies and regulations that promote and enforce resilience measures at the city level (AF Outcome 7)	Town development and planning and housing construction regulations don't support the national government and local authorities to plan and develop in a resilient way	National government and local authorities have a supporting regulations for planning and developing urban areas and housing in a resilient way	Resilience measures can be implemented but will not be sustainable because of lacking national support framework
2.1. Strengthened awareness and ownership of adaptation and climate risk reduction processes and capacity (AF Outcome 3)	Communities have limited understanding of local climate change vulnerabilities and disaster risks and have no strategies in place to address these	Communities have been fully involved in identify climate change vulnerabilities and disaster risks and developing strategies to address these	Without data/information on vulnerabilities and disaster risks and without community engagement adaptation measures can be implemented but won't be effective and or appropriate
2.2 Diversified and strengthened livelihoods and sources of income for vulnerable people in targeted areas (AF Outcome 6)	Communities have limited understanding of climate change and disaster resilient livelihood options	Communities have developed strategies to enhance climate change and disaster resilient livelihood options	Communities can only adapt their livelihoods to climate change and disaster in a responsive way (after disaster)
3.1 Increased adaptive capacity with relevant development and natural resource sectors (AF Outcome 4) and increased ecosystem resilience in response to climate change and variability- induced stress (AF Outcome 5)	Target communities have no option to adapt their communities, houses and other basic infrastructure to climate change and disaster, leaving them with future negative impacts (as described in the background section)	Target communities have increased the resilience of their communities, houses and other critical infrastructure, leading to overall reduced community climate change vulnerability and disaster risks.	Not community driven/appropriate, which would lead to adaptation benefits for fewer people with the same project cost; greater chance of negative social and environmental impacts.
4.2. Project implementation is fully transparent. All stakeholders are informed of products and results and have access to these for replication; M & E is in compliance with AF and UN-Habitat standards and procedures	Communities, local authorities, national governments and other Pacific national governments limited knowledge of resilient planning of towns and resilient construction of houses and other infrastructure	Communities, local authorities, national governments and other Pacific national governments have increased knowledge of resilient planning of towns and resilient construction of houses and other infrastructure	Communities, local authorities, national governments and other Pacific national governments need to develop their own knowledge products related to resilient urban development and housing.

J. Sustainability of the project

Institutional sustainability

The project will pave the way for the national government and local authorities to sustain and up-scale the project to other cities and informal settlements by sharing the local government self-assessment and planning tool for climate change resilience and guidelines for resilient city, settlement and housing development. The Ministry of Local Government, Housing and Environment will anchor the tool and integrate it into its training for local government and planning officials. Trained government officials will support this in combination with the technical support of an urban planner/resilience officer and a supporting regulatory framework (i.e. climate and disaster sensitive town and country planning act and building code).

Social sustainability

By fully engaging informal settlement households in project activities, including assessments, the development of plans/ strategies and monitoring, the project aims to achieve long-lasting awareness and capacities of these households. Besides that, the increased resilience of community level houses and infrastructure will reduce community vulnerabilities, also on the long-run. Moreover, community households will be trained to construct and maintain resilient houses (and other infrastructure) and to enhance their livelihood options in a sustainable and resilient way.

Economic sustainability

Investing in increasing the resilience of vulnerable physical, natural, and social assets and ecosystems is a sustainable economic approach. It will not only avoid future costs related to climate change and disaster impacts but it will also enhance livelihood options. The city-level climate change plans and community level resilience, recovery and upgrading plans will include economic opportunities, as well as resilience building opportunities, including economic benefits of resilience, will be integrated in the town and country planning act and building code.

Environmental Sustainability

The city-level climate change plans, the community level resilience, recovery and upgrading plans and the town and country planning act and building code will also be considerate of the environment, including for instance the protection of ecosystems or the reduction of waste production.

Financial sustainability

With the enabling regulatory framework in place (i.e. resilient town and planning and building code), the local government self-assessment and planning tool for climate change resilience and guidelines for resilient city, settlement and housing development, there are no barriers for the government of Fiji to allocate funding to resilient city, informal settlement and housing development. Ensuring land titles, exploring livelihood strategies, the government's generally active support to settlements upgrading and the continued support from PCN will further support the financial sustainability of the

project.

Technical sustainability

Houses and infrastructure will be designed using resilience and building back better principles. This will enhance the durability/sustainability significantly. Besides that, resilient houses and infrastructure will be maintained in partnership with local governments, public utilities and communities/households. This will ensure that after the project, infrastructure systems are maintained.

K. Environmental and social risks and impacts

Table 15: Overview of the environmental and social impacts and risks identified

Checklist of environmental and social principles	No further assessment required for compliance	Potential impacts and risks – further assessment and management required for compliance
Compliance with the Law	Х	
Access and Equity		Х
Marginalized and Vulnerable Groups		Х
Human Rights	Х	
Gender Equity and Women's Empowerment		Х
Core Labour Rights	Х	
Indigenous Peoples		Х
Involuntary Resettlement	Х	
Protection of Natural Habitats		Х
Conservation of Biological Diversity		Х
Climate Change		Х
Pollution Prevention and Resource Efficiency		Х
Public Health		Х
Physical and Cultural Heritage		Х
Lands and Soil Conservation		Х

The proposed project seeks to fully align with the Adaptation Fund's Environmental and Social Policy (ESP). Outlined below is a brief description of the initial analysis that has been carried out to evaluate environmental and social impacts of the project, and areas where further assessment is needed.

Activities under Component 1 (Institutional strengthening to enhance local climate response actions), component 2 (Local (community) resilience strengthening) and component 4 (Enhancing resilience of community level physical, natural and social assets and ecosystems) are all soft activities. According to the Adaptation Fund's

Environmental and Social Policy, "Those projects/programmes with no adverse environmental or social impacts should be categorized as Category C⁴²." No environmental and social impacts, whether direct, indirect, transboundary or cumulative are envisaged to arrive as a result of any of the soft activities under Components 1, 2 and 4. Despite this, however, steps will be taken to ensure that no environmental or social impacts can occur.

The activities under Component 3 are 'hard' activities, and as such some activities have the potential, without and environmental and social safeguarding system, including mitigation measures, create negative environmental and social impacts. However, in our assessment, none of the activities proposed could be considered to be in Category A of the Adaptation Fund's impact classification, and as such, the activities in the Table below are likely to fit into Category B or C. This is because this project proposes hard activities that are numerous, but small scale and very localized, and managed by communities where possible, who have a stake in avoiding environmental and social impacts. This means that the potential for direct impacts is small and localized, that there can be few indirect impacts, and that transboundary impacts are highly unlikely. Given this, cumulative impacts are also unlikely.

The community and vulnerable groups consultation that took place between 18 and 22 July 2016 included question focused on identifying environmental and social risks of the project as per the safeguard areas in the table above. These safeguard areas will be identified and assessed again in detail during the climate change vulnerability and disaster risk assessments. As for component 3, which include sub-project development that potentially fall in category B, an environmental and social management plan has been developed (see annex 4).

⁴² Adaptation Fund Environmental and Social Policy, paragraph 28, Page 8

PART IV: ENDORSEMENT BY GOVERNMENT AND CERTIFICATION BY THE IMPLEMENTING ENTITY

A. Record of endorsement on behalf of the government⁴³ Provide the name and position of the government official and indicate date of endorsement. If this is a regional project/programme, list the endorsing officials all the participating countries. The endorsement letter(s) should be attached as an annex to the project/programme proposal. Please attach the endorsement letter(s) with this template; add as many participating governments if a regional project/programme:

Makereta Alifereti Konrote -	Date: August, 1 2016
Permanent Secretary	
Ministry of Finance	

^{6.} Each Party shall designate and communicate to the secretariat the authority that will endorse on behalf of the national government the projects and programmes proposed by the implementing entities.

B. Implementing Entity certification

I certify that this proposal has been prepared in accordance with guidelines provided by the Adaptation Fund Board, and prevailing National Development and Adaptation Plans (including the Fiji National Development Plan (2015), Fiji's National Determined Contributions (2015), the National Climate Change Policy (2012) and the National Housing Policy (2012) and subject to the approval by the Adaptation Fund Board, commit to implementing the project/programme in compliance with the Environmental and Social Policy of the Adaptation Fund and on the understanding that the Implementing Entity will be fully (legally and financially) responsible for the implementation of this project/programme.

Rafael Tuts, Coordinator, Urban Planning and Design Branch, UN-Habitat

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Tel. And Email: +81 92 724 71	121, Bernhard.Barth@unhabitat.org

	y Indices (Source: PCN rapid vulnerability assessmen	Lam				Sig ato ka		utoka	
Theme: issue Indicator				Wainivokai	Qauia	Kulukulu	California	Veidogo	Vunato
EXPOSURE									
Worsening climate issues	Main Exposure Problem worsening in last two years (settlements in which over 50% of HHs identified the problem as much worse in last 2 years)	0	1	0	1	1	1	0	1
Heavy rain / floods	River or Surface Flood Exposed Settlements (settlemetns whose HHs prioritised surface/river floooding within their top 4 Issues) or reported in focus group	0	1	1	1	1	1	1	1
Sea level rise/ coastal flooding	Coastal Flood Exposed Settlements (settlemeths whose HHs prioritised coastal floooding within their top 4 Issues) or reported in focus group	1	1	1	0	1	1	1	1
Intense storms: cyclones	Tropical Cyclone Winston Affected Settlements (Settlements that faced over 20% damage as a result of TC Winston - PDNA revealed)	0	0	0	0	0	1	1	1
Related environmental hazards	Industrial waste issues reported in focus groups	1	1	1	1	1	0	1	1
EXPOSURE TOTAL		2	4	3	3	4	4	4	5
SENSITIVITY									
Vulnerable population groups: • female household head	Settlements with more than 10% of HHs headed by females	0	1	1	0	1	0	0	0

Annex 1: Climate vulnerability indices (Source: PCN rapid vulnerability assessment settlement survey (2016))

minorities	Settlements with less than 20% of HHs as minority groups	0	0	1	0	1	0	1	0
children	Settlements with more than 50% of HHs having children under 10 years	0	1	1	0	1	1	1	1
elderly	Settlements with more than 10% of HHs having adults over 65 years	1	1	0	1	1	0	0	0
Housing: • overcrowding	Settlements with more than 40% of households with overcrowding	1	1	0	0	0	1	1	1
 poor quality dwelling construction 	Inadequate housing (settlements with more than 50% of housing average or poor quality)	1	1	1	0	1	0	1	0
 inadequate water 	Inadequate water connections (settlements with less than 40% formal water connection)	0	0	1	0	0	1	1	1
 inadequate sanitation 	>40% Toilets discharging directly into local environment (unimproved pit toilet or straight pipe to sea/river/settlement drainage)	1	1	1	0	0	1	1	1
 tenure insecurity 	Settlements lacking secure tenure	1	1	1	0	1	1	1	1
Welfare and human development: • Poverty	Settlements with residents average income levels under the poverty line (Based on the Urban Basic Needs Poverty Line BNPL estimate of \$186 per week)	0	0	1	1	1	0	1	1
Health	Settlements with more than 20% of HHs recording occupants contracting Dengue fever in last year	0	0	1	1	1	0	0	0
 Women main income earners 	women reported to have the sole burden of responsibility for care of children, elderly and household affairs	0	0	0	0	1	0	1	0
 Vulnerable groups 	Vulnerable groups reported as affected by climate issues.	2	1	2	0	0	2	0	1
 Production and investment and land use: climate affected occupations 	Climate affected Occupations (settlements whose HH occupants involved in fishing reported a reduction in fish stock in that last 5 yrs)	1	1	1	1	1	0	0	0
primary production	Reported climate impacts on fishing or farming	0	1	1	0	0	1	0	1

Employment	Climate vulnerable occupations	0	1	1	0	1	0	1	1
 land use and environment 	Poor drainage	1	1	1	1	1	1	1	1
 services: solid waste 	Inadequate solid waste disposal (greater than 20% disposing waste in river, creek or sea)	1	1	1	1	0	0	0	1
SENSITIVITY TOTAL	10	13	16	6	12	9	11	1 1	
ADAPTIVE CACPACITY									
Information	Awareness of/plans for adaptation measures	0	1	1	0	0	1	0	0
Organisational and social capital	History of projects and networks	0	0	0	1	0	0	0	0
Human resources and capacity	Mangrove or riverbank protection/utlisation.	1	1	1	0	0	0	0	0
ADAPTIVE CACPACITY TOTAL				2	1	0	1	0	0
VULNERABILITY TOTAL= (Exposure + Sensitivity) - Adaptive capacity			15	17	8	16	1 2	15	1 6

Annex 2: Relevant project outputs identified in Fiji's INDC (2015) and National climate change policy (2012).

Fiji's INDC (2015)

Key Challenges	Proposed Way Forward, Actions and Time bound Indicators
There is a need to develop an integrated approach and policy and operational level to effectively address climate change.	 Short Term (up to 2 years) Establish a National Platform for Climate Change and Disaster Risk Management by 2015. Develop a National Strategic Plan for Climate Change and Disaster Resilience by 2015. Review the Fiji National Disaster Management Arrangements to include Climate Change by 2016.
There is a need to ensure that buildings constructed in urban and rural areas are cyclone resistant.	 Short Term (up to 2 years) Review the National Building Code by end of 2016. Medium Term (3 to 5 years) Provide incentives to support compliance with new building standards by 2017.
There is a need to strengthen the role of local governments in building resilience.	 Short Term (up to 2 years) Development of a Local Government Self-Assessment Tool for Climate Change Resilience by 2016. Review the town plan regulations to facilitate the enforcement of zoning and buffer zones for coastal areas, rivers banks, high risk areas and mangrove areas. Review to be completed by 2016.
There is a need for greater understanding of the impacts of climate change in order to better plan for long term development.	 Short Term (up to 2 years) Develop a comprehensive assessment framework, including adoption of the damage and loss assessment methodology by 2015. Medium Term (3 to 5 years) Institutionalise a mechanism to collect and analyse hazard, vulnerability and exposure data by 2017. Mainstream cost-benefit analysis into decision-making process in mitigation and preparedness measures by 2017. Encourage collaboration with development partners and tertiary institutions in conducting research on priority areas with climate change and disaster risk reduction by 2017. Develop hazard maps and models for all potential hazards (including sea level rise, storm surge, flood and tsunami) by 2020.
There is a need to ensure climate change mitigation and adaptation become a part of the national and sub national development planning and budgetary process.	 Short Term (up to 2 years) Integrate the climate change and disaster risk reduction into the National Development Plan by 2015. Revise capital budget appraisal guidelines to incorporate comprehensive hazard and risk management (CHARM) and vulnerability and adaptation (VA) assessments by 2015.
There is a need to increase the resourcing of adaptation and mitigation measures	 Short Term (up to 2 years) Explore climate change financing modalities by 2015. Medium Term (3 to 5 years) Improve access to global financing facilities such as the Global Green Fund.

There is a need to strengthen partnerships at all levels for building resilience for climate change.	 Short Term (up to 2 years) Partner with civil society in undertaking capacity building at divisional and community level on building resilience, including through incentivizing performers/performance. Medium Term (3 to 5 years) Undertake vulnerability assessment for all communities by 2019. Develop climate and disaster resilience plans for urban and rural communities (prioritizing squatter settlements and other vulnerable communities) by 2019. Long Term (over 5 years) Capacity building provided to communities for which vulnerability assessments have indicated that relocation is the long-term adaptation strategy to minimize risks due to anticipated impacts of climate change.
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National climate change policy (2012)

Sector specific climate change impacts - urban sector

- Extreme events such flooding and cyclones incur an economic cost to townships;
- Extreme events or natural disasters will affect lives of people in poorly built or poorly located houses marginal communities are likely to be more severely affected;
- Added pressure on services and utilities to cope with demands brought about by extreme events such as heat-waves, water shortages and disease outbreaks;
- Land loss and reduction in arable land could lead to migration in urban centres, resulting in over-crowding:
- Floods, storm surges, cyclones and other extreme weather events can damage houses and residential buildings, and have the potential to put their occupants in danger during or after an extreme weather event.

Key areas for mitigation

- Increased energy efficiency and use of renewable energy in residential, commercial and industrial sectors šš Reduction of household waste burning

Key areas for adaptation

- Some traditional building practices provide resilience to extreme weather events

Objective 5: Adaptation Reduce the vulnerability and enhance the resilience of Fiji's communities to the impacts of climate change and disasters. Strategies:

- 1. Integrate related disaster risk reduction and climate change adaptation strategies and actions into national and sectoral planning to streamline responses.
- 2. Include vulnerability assessments and climate change impact projections into resource management planning, such as integrated coastal and watershed management plans.
- 3. Incorporate climate change impact projections into infrastructure and urban and rural planning.
- 4. Develop sustainable adaptation technologies and systems that take traditional knowledge into account and are culturally acceptable.
- 5. Support the ecosystem-based approach throughout Fiji, recognising that ecosystem services, such as food security, natural hazard mitigation and physical coastal buffer zones, increase resilience.
- 6. Develop and make accessible hazard maps of coastal, riverine, urban and inland areas in Fiji, using the comprehensive hazard assessment and risk management (CHARM) tool to guide all development planning.
- 7. Assess poverty, health and food security issues to determine their vulnerability to climate change, and consider these vulnerabilities in future policies and initiatives.
- 8. Improve disaster response capacity and access to public health facilities, emergency services, communication services and evacuation centres.

- Build the capacity of the health and agriculture sectors to respond effectively to climate sensitive diseases, including the strengthening of disease surveillance and control systems, and early warning mechanisms for climate sensitive human and livestock diseases.
- 10. Use appropriate consultation mechanisms for the participation of all members of the community in the planning, management and implementation of adaptation measures.
- 11. Mobilise resources and all sectors to support the implementation of relevant national adaptation strategies and plans, such as the National Climate Change Adaptation Strategy, the planned joint national action plan for CCA and DRM and the National Disaster Risk Management Plan.
- 12. Strengthen early warning systems to ensure effective and timely communication to the public, with particular attention paid to isolated, hazard-prone and disadvantaged areas.
- 13. Implement best practice adaptation measures, based on sound scientific research, and lessons learnt from local, regional and international experiences.
- 14. Undertake national research to identify effective adaptation measures to support sector-specific adaptation and disaster risk reduction responses.
- 15. Establish a monitoring and evaluation system to determine the success of national, sectoral and local adaptation initiatives.

Annex 3: The Climate change vulnerability and disaster risk assessment:

expected outcomes and methodology

Purpose and expected outcomes

In order to ensure that this project and related activities reduce the climate change vulnerability and disaster risks of communities/ethnic groups, we need to understand exactly what people and what areas are most vulnerable to its impacts and why. This information can be used to:

- 1. Identify low risk areas in which resilient infrastructure could be construction; and
- 2. Select and prioritize adaptation/resilient infrastructure options (in combination with community-based/ethic specific selection criteria for sub-projects.

Safeguards / AF ESP alignment

Conducting these assessments in this project also includes collecting information for (sub-) project compliance with safeguards / AF ESP (e.g. vulnerable people, natural habitats and land) and involving vulnerable and marginalized groups in the process.

The methodology

The climate change vulnerability and disaster risk assessment methodology used for this project provides a framework for UN-Habitat, the national government and local authorities to engage in a dialogue with local communities/ethnic groups. To do so, it provides a set of guiding questions for collecting and analyzing information at the community/ethnic group level.

The method is designed to feed into and strengthen planning processes on the community, settlement, district and provincial level, by providing the most important, context-specific information about the impacts of climate change and local, ethnic specific vulnerability and risks. Specifically, it will feed into local development plans (with a sectoral focus on land use and water use and infrastructure development) at the community, settlement, district, provincial and national level by ensuring that these plans contribute to building the resilience of settlements/ communities/ethnic groups.

The method is participatory/community based (i.e. part of the people's process⁴⁴) in the way that it assists communities/ethnic groups to utilize UN-Habitat and governmental guidance and knowledge in their decision-making, rather than base interventions on it.

⁴⁴ Development driven by people/Support Paradigm: when people stays at the center of development planning process, the resource can be optimized with greater utility impacting larger number of people: <u>http://sopheapfocus.com/wp-content/uploads/2010/06/Picture-31.png</u> People's process of development can be witnessed through the evolvement of people's desire to improve their lives. Humans developed their settlement from living in caves, then building shelters, and now home. Along this settlement evolution, they had also established certain norms, standards, and a mutual understanding surrounding their community. That is called the people's process of development.

Instead, UN-Habitat and the government act as facilitators of group discussions that aim to analyze issues in the community/ethnic group jointly. The result is that communities/ethnic groups understand the nature of the problem and UN-Habitat and the Fiji government understand the level of knowledge in the communities/ethnic groups and how it can be used to achieve project outcomes, including conducting vulnerability and risk assessments at the provincial and district level. Whereas the method at the community level is focused on community processes (the people's process), the method used for conducting assessments at the provincial and district level focuses more on institutional processes.

Understanding vulnerability at a community level requires an approach that looks at both the physical (external hazard/risk) and social dimensions (internal susceptibility/coping of different groups) of vulnerability. Consequently, vulnerability is best understood as an aggregation of three components, exposure; sensitivity; and adaptive capacity (see key concepts below).

The approach for settlements/communities, districts & provincial and national assessments are different as shown in the table below.

Level of	Focus	Method	Output	Expected outcome
assessment				
Community/ settlement	Community processes/ people's process	Community -based; group discussion with questions (see below) ¹	Filled questionnaire; vulnerability and risk map; list of adaptation/ resilient infrastructure options and prioritized options	Understanding of communities'/ethnic groups' perceptions of climate change vulnerability and disaster risks in the present and in the future. Based on this information, activities (including infrastructure projects) to reduce vulnerabilities and risks can be identified and prioritized.
Cities	Institutional: Guiding local level processes and aligning assessment outcomes	UN-Habitat vulnerability assessmen t method ²	City level vulnerability and risk assessment reports, including maps; list of adaptation/ resilient infrastructure options and	Climate change vulnerability and disaster risks in the present and in the future mapped and analyzed, including ways to cope with climate related risks as well as identifying and strengthening the sustainability of resources that local communities continually use in coping and adapting to climate change impacts.
National	Institutional: Guiding local level processes and aligning assessment outcomes		prioritized options	Based on above information, barriers that stand in the way of increasing community level resilience to climate change can be identified and removed from national plans and policies

Table 16: Informal settlements/co			
Table 16. Informal semements/co	mmunities cities ar	na national assessments and	nnach
			nouon.

¹ Based on UNDP (2015) Implementing the vulnerability reduction assessment – practitioner's handbook. ² Based on UN-Habitat (2014) Planning for climate change: strategic values-based approach for urban planners.

Key concepts

- **Exposure** nature and degree to which a system is exposed to significant climatic variations.
- **Sensitivity** responsiveness of a system to climatic influences (shaped by both socio-economic and environmental conditions).
- Adaptive capacity ability of communities to cope, reorganise and minimise loss from climate change impacts at different levels. The key determinant of adaptive capacity is access to resources/capital (natural, financial, social, human and physical).
- **Climate change:** A change of climate that is attributed directly or indirectly to human activity that alters the composition of the global atmosphere and that is in addition to natural climate variability observed over comparable periods.
- **Vulnerability:** Refers to the degree to which people, places, institutions and sectors are susceptible to, and unable to cope with, climate change impacts and hazards.

Sources:

IPCC, 2007. Climate Change 2007: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change, Parry, M.L., Canziani, O.F., Palutikof, J.P., van der Linden, P.J., Hanson, C.E. (Eds.), Cambridge University Press: Cambridge, UK, 976 pp.

UN-Habitat planning for climate change guide, including vulnerability assessment methodology: <u>http://unhabitat.org/books/planning-for-climate-change-a-strategic-values-based-approach-for-urban-planners-cities-and-climate-change-initiative/</u>

Preparing for and planning the vulnerability and disaster risk assessment at the community level

When conducting the assessments, UN-Habitat will ensure that:

- There will be at least two trained facilitators per group (i.e. community/ethic group); one to ask the questions and the other to record the answers;
- Communities/ethic groups will be briefed about climate change at the start of the assessment;
- There will be a divers cross section of participants by considering a 1) divers geographic spread, 2) a good demographic spread (age, sex, status, income) and 3) good representation. Depending on the circumstances. Depending on the circumstances, assessment will be conducted with 'whole' groups, 'focus' groups or individuals.

Conducting the vulnerability and disaster risk assessment at the community level

1. Ethical Briefing

Purpose:

To ensure communities/ethnic groups understand expectations and the process

Expected outcome:

The communities/ethnic groups understand expectations and the process

The process:

The briefing will include at least an explanation of:

- Purpose of the session and what kind of information we are looking for
- What will the data collected be used for and who will see it
- The process: collection, verification and confidence

2. Trend analysis

Purpose:

To understand community/ethnic group perception of climate change in the past and for communities to become aware of changes and how climate change differs from weather change.

Expected outcome:

Community members agreement upon:

- A vulnerability/risk score for each time period:
 - 1. Not at all vulnerable
 - 2. Not very vulnerable
 - 3. Some vulnerability
 - 4. Vulnerable
 - 5. Very vulnerable
- One or two climatic hazards, which have most impacted them
- High vulnerable/risk areas in and around the community (on a map)

Climate Change Risks	Before 1990	1990 1995	1995 2000	2000 2005	2005 2010	2010 2015	Vulnerability/risk score + comments
Droughts frequency/risks							
Drought duration							
Damage cause by drought (crops)							
Flood frequency/risks							

Flood duration				
Damage cause by flood				
Landslide frequency/risks				
Damage cause by landslides				
Diseases frequency/risks				
Impact of diseases				
Rain level				
Rain predictability				

3. Questionnaire (incl. adaptation activities/resilient infrastructure selection)

To analyze current and future climate risks, barriers to adaptation and factors/resources facilitating the coping strategies used by community and way of improving their vulnerability.

- 1. The vulnerability of the community/ethnic group to existing climate change and or climate variability
- What problems do you face because of the one or two most problematic climatic hazards (see result trend analysis) and how do these affect men and women in your community?
 - 2. The vulnerability of the community/ethnic group to developing climate change risks
- If the most problematic climatic hazards (see result trend analysis) would occur twice as often, what would be the effect on men and women in your community/ethnic group?
 - 3. The magnitude of barriers (institutional, policy, technological, financial, etc.) to adaptation
- What stops your community from coping with current impacts of the most problematic climatic hazards (see result trend analysis)? These can be e.g. lack of skills, lack of irrigation, water supply, health, etc. related infrastructure, lack of natural resources like forests, water, etc.).

Climate Change Risks	Factors stopping your community from coping with current impacts	Ranking per climatic hazard
The most problematic climatic hazards (see result trend analysis)		
The most problematic climatic hazards (see result trend analysis)		

- 4. The priorities to be addressed in strengthening the adaptive capacity of the community
- What activities/infrastructure should be prioritized in order to improve your adaptive capacity to droughts, floods, landslides, heat/diseases? What is most important for the community?

Activities	Ranking

4. Community vulnerability and risk map

To understand where the vulnerable/risk areas are and where activities/infrastructure should be implemented/constructed in the community a community map should be developed showing at least:

- o Location of houses and critical infrastructure
- Location of poorest people
- Elevation levels (if possible)
- Flood risk area

o Drought risk area

Community map

- Landslide risk area
- Dengue and malaria risk areas

The map can be drawn by hand.

5. Environmental and social problems and needs

The vulnerability and risk assessment can be used to get a better understanding of the environmental and social problems and needs in communities. This information can feed into the risk assessments of sub-projects. Community relevant Adaptation Fund safeguard areas are discussed below.

Human rights

• Have you ever been mistreated or are you worried you will be mistreated by the UN, the government, other communities, other ethnic groups or anyone else?

Gender Equity and Women's Empowerment

 Have you ever felt discriminated as a woman or are you worried you will be discriminated? Is it difficult as a woman to participate in decision-making processes? If so, why?

Protection for Indigenous people and Marginalized and Vulnerable groups

 Have you ever experienced or seen discrimination against indigenous peoples or elderly, disabled people or youth?

Access and Equity

• Are different groups (ethnic, women, elderly, disabled, youth) in the community treated differently? If so, how? Who is normally responsible for taking care of

elderly, disabled people and children? Who normally takes care of money, water and food in the household?

Promoting better labour and working conditions

• How much do you earn on average during a day? Do children also work/help in the community? If so, what do they do?

Enhancing community health, safety and security

 Have you ever experienced dangerous situations during work or in the community? Have people been injured? If so, what was the cause? What diseases do community members suffer from? Have unexploded ordinances been found? If yes, where? What are the main causes of death in the community? What do you do against malaria, dengue and diarrhea?

Safeguarding land, housing, resettlement and rights

• Have you ever been asked to resettle or sell your land? If so, by whom and why?

Conserving biodiversity, Protection of Natural Habitats and lands and soil conservation

• Are there conserved or protected areas in or around the community? What areas should be protected to secure clean water and food/agriculture/fish/cattle?

Annex 4: Environmental and Social Management Plan (ESMP)

Environmental and social risks management framework: explanation of method and process of dealing with potential environmental and social risks.

The method to identify, assess, manage and mitigate the environmental and social risks of Unidentified Sub Projects (USPs) and related activities is based on a combination of UN-Habitat's Handbook on Environmental and Social Safeguards ⁴⁵ and the AF Environmental and Social Policy.

The method/framework deals with the 15 Adaptation Fund safeguards in combination with 4 cross cutting markers and the 7 safeguard areas of UN-Habitat. The matrix below demonstrates where these safeguards align and where they are considered separately.

UN-Habita	at Safeguard Areas/cross cutting markers	Adaptation Fund Safeguard Areas				
 Youth Human Rights Climate Change and Environment Gender 		 Compliance with the Law Human Rights Climate Change Gender Equity and Women's Empowerment 				
1	Promoting better labour and working	g conditions				
2	Enhancing community health, safety	y and security				
3	Safeguarding land, housing, resettlement and rights	 Access and Equity 				
4	Reducing the climate and environme	ntal footprint				
5	Conserving biodiversity	Protection of Natural HabitatsLands and Soil Conservation				
6	Protection for Indigenous people	 Marginalized and Vulnerable groups 				
7	7 Protecting and promoting cultural heritage					

Table 17: Linking adaptation fund safeguards to UN-Habitat safeguard areas.

During the project proposal phase, these safeguards have been used to screen risks of project activities under components 1, 2 and 4 of the project. During the project, these safeguard areas will be used to identify, assess, manage and mitigate social and environmental risks of USPs (which are site-specific, physical interventions).

Identified risks (if any) will be used as criteria (together with outcomes of climate change vulnerability and disaster risk assessments) to select, with communities, small-scale infrastructure sub-projects for construction. If selected/to be constructed sub-projects have remaining risks, they will be managed and mitigated. The flow chart below displays how to deal with risk on sub-project level. The flowchart below shows how environmental and social risks of USPs can be identified/assessed, managed and mitigated.

⁴⁵ Currently being tested before publication

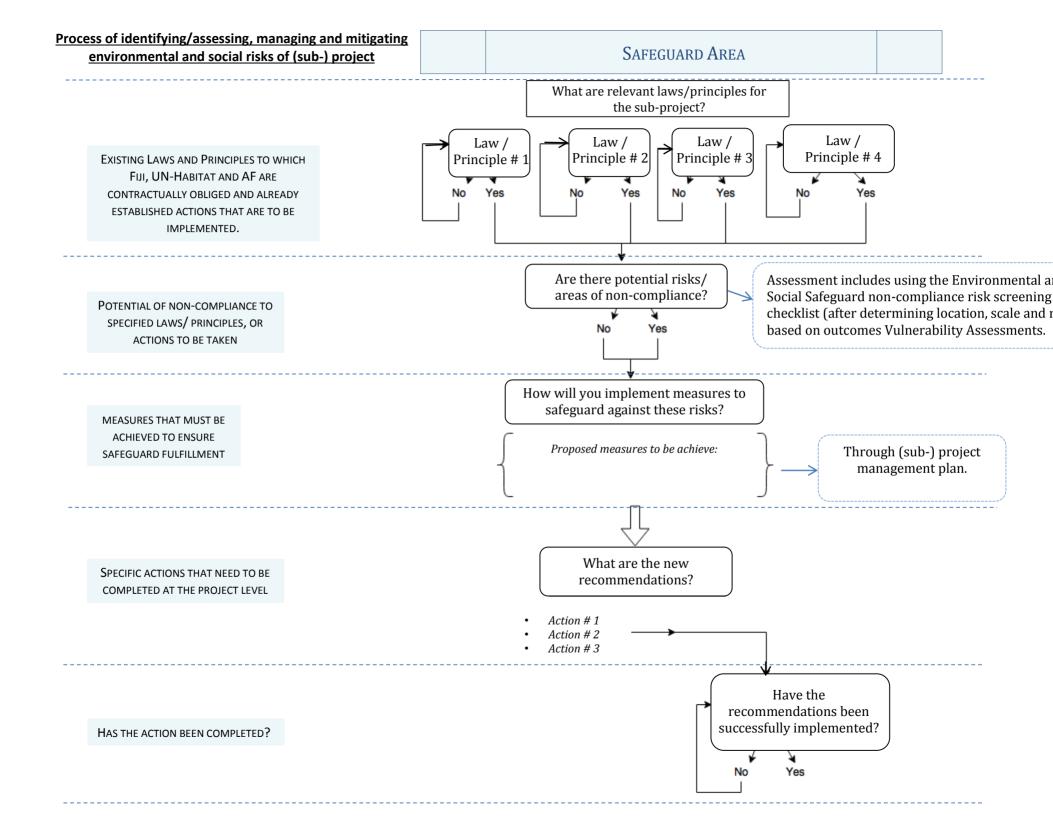


	Table 18: out	come of the initial enviro	onmental and soc			t		
1. Safeguard Area		2. National Laws, UN Rules, principles and procedures to be upheld	pr 3. Potential (1 risks/areas of Sig non-compliance n		act & bility and cance w, um, ye)	5. Measure to ensure safeguard fulfillment	6. Recommended action	Action completed?
	Youth	 UN-Habitat Youth Advisory Board 	Failure to engage youth in decision- making and/ or of	l = 1	Low	Ensure Youth have equal access to the benefits and outcomes of the project.	Involvement of youth within stakeholder participation meetings	
	roun	 National Youth Policy 	a lack of equity to project benefits.	P= 2		Ensure equal participation of youth throughout project design and implementation	Channels to be available to report instances of discrimination in a safe and anonymous manner.	
	Human Rights	 Human Rights Based Approach (HRBA) Rights Human Rights Commission Act 1999 	Failure to understand situation of and lack of proactively addressing the rights of the rights holders and responsibility of the duty bearers.				Details of human rights markers to be included in MoU and AoC with government and contracters	
UN- HABITAT PILLARS				l = 2 P= 2	Low	Ensure HRBA through use of the human rights marker and align with Human Rights Commission Act 1999	MoU and AoC with government and contracters nsure HRBA through se of the human rights marker and align with uman Rights Refresher training to be	
			Rights abuses, including against indigenous people					
	Climate Change	 Fiji Integrated ca Vulnerability ma Assessment Framework eit and UN-Habitat pro Planning for Climate up 	The project causes maladaptation either in the project sites or	l = 3 P= 1	Low	Ensure VA is completed locally accepted/ endorsed and clear linkages to the project plan produced.	VA to be completed in close cooperation with communities prior to project implementation	
			upstream or downstream			Ensure project is conducted in accordance	Climate Change policies and guidelines to be read and	

Table 18: outcome of the initial environmental and social assessment

	 National Climate Change Policy 				with Fiji climate change policies and procedures	understood by Project Manager prior to implementation.	
	 Draft National Climate Change Adaptation Strategy 						
	 UN Women Convention on the Elimination of All 					Quota system for female engagement	
	Forms of Discrimination against Women (CEDAW)	Failure to engage women in			Ensure the continued adherence to the	Equitable benefits of project outcome for men and women	
Gender Equity and Women's	omen's 100, 111, 156 and 183 Women not P_{-1} Low	Low	conventions, plans and policies on the left.				
Empowerment	 Fiji Women's Plan of Action 2010-2019 	enjoying equal access to resulting service	1 – 1		Ensure gender equity throughout project design and implementation.	Channels to be available to report instances of discrimination in a safe and anonymous manner.	
	 Fiji National Gender Policy 						
	 UN Secretariat Administrative Instruction ST/AI/2013/4 			Low	Ensure transparency and accountability throughout project cycle.	All documents & minutes produced during the project cycle to be available online.	
	 ILO Minimum Age Convention 		l = 1 P= 1		Ensure the project is accordance with ILO Conventions and Fiji regulations	Monitoring/safeguards officer to visit the project site and ensure ILO Conventions are being upheld.	
Promoting better labour and working	 ILO Worst forms of Child Labour Convention 						
conditions	 Fiji National Employment Centre Decree 				Ensure that no underage staff or children are employed in the project.	MoUs, AoC and contracts to include standard clauses requiring the compliance with ILO conventions and Fiji regulations	
	 Fiji Employment Relations Regulations 						

	2008						
	 SDG technical standards for water supply and sanitation Town and country 				Ensure clear communication between UN-Habitat project staff and the Fiji government.	Written details of the — proposed project to be shared with the host country.	
Compliance with Domestic	 planning act National building code Native Land Trust (Amendment) Act Environment 	Risk of non- compliance with standards	l = 2 P= 2		Ensure each person associated with the project is aware of domestic and	Details of domestic and international laws to be included in contract for all project staff.	
& International Law	Management Act			Low	international laws	Provide training for all project staff.	
Law	 Public health act Fisheries Act National Housing Policy National Climate Change Policy Fiji 2020 Agriculture Policy Agenda 				Ensure project complies with the SDG and Fiji technical standards	Project Manager will have read and understood SDG and Fiji technical standards prior to project implementation	
	 International Civil Service Commission (ICSC) 	Communities may use some machinery and/or not have protective equipment	l = 3 P= 1	Low	Ensure that ICSC international health and safety standards are clearly accessible and understood.	Clearly visible signs detailing health and safety standards to be located at projects sites.	
Enhancing community health, safety	 International Health and Safety Standards Public Health Act 2002 					Project will provide all necessary safety equipment.	
and security	 Slum & Housing upgrading strategy 				Ensure adherence to relevant UN-Habitat policy and programmes	Follow/align with the informal Settlements Upgrading Strategy (2016)	
	 Building Back Better Principles Guideline for Shelter and Sanitation 	-			Ensure Compliance with the build back better principles	Project to be implemented in accordance with build back better principles.	

							Ducie et Meine en en te la euro	
		 Fiji Building Code 				Ensure adherence to Fiji Building Code	Project Manager to have a clear working knowledge of Fiji Building Code	
		 SDG technical standards for water supply and sanitation 	-			Ensure project complies with the SDG technical standards	Project Manager will have read and understood SDG technical standards prior to project implementation	
		 Right to Adequate Housing 				Ensure all project affected persons have	Accountability in administration with online access to reports.	
		 Free, Prior and Informed Consent (FPIC) 	unintandad	l = 4 P= 1	med	free, prior and informed consent relating to project outcomes.	Principles of FPIC to be adopted throughout project cycle with channels to review project plan.	
	Safeguarding land, housing, resettlement and rights	crosscutting area; le HRBA and Compliance u with the law: Fiji town re				Ensure that no (sub-) projects are undertaken that involve forced eviction.	No (sub-) project will be approved where there is the possibility, however small, of forced eviction.	
}						eviction.forced eviction.Ensure ParticipatoryProject to operate with people's approach		
		 Fiji National Housing Policy Slum & Housing upgrading strategy 				Ensure alignment with National housing policy and slum and housing upgrading strategy	Project Manager will have read and understood National housing policy and slum and housing upgrading strategy	
	Access and Equity	 UN-Habitat Project Template 	Failure to engage vulnerable people in decision- making.	l = 3 P= 2	Low	Ensure continued use of UN-Habitat Project Template and equitable benefits of the project.	Project will be submitted to UN-Habitat's Programme Assurance Group (PAG) for quality assurance and review. PAG will offer guidance on ensuring equitable access.	

						Ensure project does not exacerbate existing inequalities.	Project Proposal will detail how project outcomes will produce equal benefits and Access and equity questions included as part of the VA	
		 Climate Change Marker Project Advisory Group 	Mal-adaptation (as described above)			Include impact monitoring through implementation	Project Manager to have clear understanding of the Climate Change Marker.	
		 (PAG) Fiji Integrated Vulnerability 				of the project	Review and update the VA at the mid-point of the project	
4	Reducing the climate and	Assessment Framework and UN-Habitat Planning for Climate		I = 2 P= 1 Lo			Use UN-Habitat evaluation policy	
	environmental footprint	 Change Guidelines National Climate Change Policy Draft National Climate Change Adaptation Strategy 			Low	Ensure continued support of PAG throughout the project cycle.	Ensure key documents are available online	
		 Fiji Integrated Vulnerability Assessment Framework and UN-Habitat Planning for Climate Change Guidelines 	Negative impacts of local, upstream and downstream biodiversity as a result of project activities	I = 1 Lc P= 1 Lc		Ensure VA is completed to the highest standard.	VA assessment to be completed prior to project implementation.	
5	Conserving biodiversity	 Convention on Biological Diversity 			Low	Ensure adherence to the Convention on Biological Diversity.	Project Managers to have read and understood the Convention prior to project implementation.	
		 TEEB Guidance Manual 				Ensure all project outcomes respect the	Ecosystem services included as part of the VA	
		 Environment 				importance of ecosystems and	Provide information on ecosystem services within	

	Management Act				ecosystem services.	training to project staff ⁴⁶ .	
	 National Biodiversity Strategy and Action Plan 2007 						
	 National Biodiversity Strategy and Action Plan Implementation Framework 2010- 2014 				Ensure alignment with Fiji acts, plans and frameworks	Project Manager will have read and understood Fiji acts, plans and frameworks	
	 Fiji REDD+ Policy 2011 						
	 Fiji Integrated Vulnerability Assessment Framework and UN-Habitat Planning for Climate Change Guidelines 				Ensure VA is completed to the highest standard.	VA assessment to include local/community map of natural habitats.	
Protection of Natural	 Convention Concerning the Protection of World Cultural and Natural Heritage (1972) 	As above	l = 1	Low	Ensure Compliance to Convention.	Provide clear information of Heritage sites to Project Managers.	
Habitats	IUCN Red List Criteria		P= 1		Ensure alignment with Fiji acts, plans and frameworks		
	 Environment Management Act 					, ,	
	 Endangered and Protected Species Act 2002 						_
	Endangered and						

⁴⁶ In accordance with the TEEB Guidance Manual: <u>http://www.teebweb.org/media/2013/10/TEEB_GuidanceManual_2013_1.0.pdf</u>

		Protected Species Regulations 2003						
		 IUCN Environmental Policy and Law Paper 				Ensure conservation of natural habitats and	Provide Project Managers with links to IUCN Red List.	
		No. 81				species included within the IUCN Red List.	Utilize resources produced by IUCN for applying the Red List to project level.	
		Native Lands Act 2002						
	Lands and Soil Conservation	 Land Conservation and Improvement (revised edition 1985) 	As above	l = 1 P= 1	Low	Ensure alignment with Fiji acts, plans and frameworks	Project Manager will have	
		 Land Development Act (revised edition 1985) 					read and understood Fiji acts, plans and frameworks	
		 Rural Land Use Policy (2nd edition) 2006 						
		 Fiji Integrated Vulnerability Assessment Framework and UN-Habitat Planning for Climate 	Failure to engage indigenous			Ensure VA is completed to the highest standard.	VA assessment to be completed prior to project implementation and to include vulnerabilities of indigenous people	
	Protection for	Change Guidelines Article 27 of the 	people in decision-making. Indigenous	l = 3		Ensure that the details of International Covenant on	Include measures to protect indigenous people in project plan.	
6	Indigenous people	International Covenant on Civil and Political Rights (1966)	people not enjoying equal access to	P= 1	Low	Civil and Political Rights (1966) are respected and upheld.	Background research to be completed prior to initial	
		 UNDRIP Declaration on the Rights of Indigenous People ILO Convention 169 	resulting service (see access and equity)			Ensure that the components of the UNDRIP Declaration and ILO Convention 169 on Indigenous tribes and	project design. Project Managers to have read and understood UNDRIP Declaration and ILO Convention prior to project implementation.	
						people, are respected and upheld.	Provide summary of UNDRIP Declaration within	

							ESS Handbook.	
		 Free, Prior and Informed Consent 				Ensure FPIC is granted to indigenous communities	Follow a pre-defined FPIC procedure	
	(FPIC)					affected by project implementation.	Allow 1 month for feedback to be gathered from consent letter.	
		 Fiji Integrated Vulnerability Assessment Framework and UN-Habitat Planning for Climate Change Guidelines 	See access and equity			Ensure VA is completed to the highest standard and clear linkages to the project plan produced.	VA will focus on the particular needs of vulnerable and marginalized groups.	
	Marginalized and Vulnerable	 Free, Prior and Informed Consent 		l = 3 P= 1	Low	Ensure all project	Accountability in administration with online access to reports.	
	groups	 National Climate Change Policy 				affected persons have free, prior and informed consent relating to project outcomes	Principles of FPIC to be upheld throughout project cycle with clear channels to review project plan.	
		 Integrated Vulnerability Assessment Framework 						
	Protecting and promoting cultural heritage	 Fiji Integrated Vulnerability Assessment Framework and UN-Habitat 	No damage to any heritage,			Ensure VA is completed to the highest standard and clear linkages to the project plan produced.	VA to include local/ community map of tangible and intangible heritage areas.	
7		Planning for Climate Change Guidelines	including $I = 1$ 'intangible heritage'	Low	Ensure avoidance of project site location on or near a UNESCO World	Map resources of heritage sites to be included in UN- Habitat ESS Handbook.		
		 UNESCO World Heritage List 	-			Heritage Site or other locally important heritage sites		

Further screening and assessment

A detailed environmental and social assessment will be conducted as part of the comprehensive climate change vulnerability and disaster risk assessments in the target cities and informal settlements. The reasoning for this is that the assessment will be much more comprehensive/detailed, including the involvement of vulnerable groups in all target settlements/communities, as could be done in the proposal development phase. Besides that, a detailed environmental and social assessment is only required for the activities under component 3 as the USPs potentially fall in the risk category B. How the environmental and social risks of these sub-projects will be identified/assessed, managed and mitigated will be discussed in the following section.

This approach is in line with the Adaptation Fund's Environmental and Social Policy: "in some Category B projects where the proposed activities requiring an environmental and social assessment, represent a minor part of the project, and when the assessment and/or management plan cannot be completed in time or where mitigation measures extend into project implementation, the Board can approve the project subject to assurances included in the agreement signed between the Board and the implementing entity that any environmental and social risks will be adequately and timely addressed through a management plan or changes in project design."⁴⁷

The result of this approach (a detailed environmental and social assessment being part of the climate change vulnerability and disaster risk assessments) will be the production of detailed information on community level climate change vulnerabilities and disaster risks (including community maps) in combination with detailed information on:

- Cultural/ethnic, gender, elderly, disabled people, youth specific needs and user practices regarding houses and different infrastructure types/servies (e.g. water supply/collection, irrigation, sanitation)
- Cultural/ethnic, gender, elderly, disabled people, youth specific needs and user practices regarding health and hygiene (e.g. related to dengue, malaria, water and sanitation).
- Other information regarding safeguards at community level (e.g. mapping of biodiversity, natural habitats, Lands and Soil, cultural heritage and human rights situation for certain ethnic groups.

Based on this information (i.e. community and climate change adaptation criteria) and the assessment of environmental and social risks per USP (as discussed in the next section) communities will select the most appropriate sub-projects for construction.

⁴⁷ Adaptation Fund Environmental and Social Policy (March 2016), paragraph 9, Page 3

Risks assessment tool for Unidentified Sub-Projects: To identify, assess, manage and mitigate potential environmental and social risks of small-scale infrastructure investment projects and related activities.

The activities under Component 3 are 'hard' activities, and as such some activities have the potential, without an environmental and social safeguarding system, to create negative environmental and social impacts. At the project proposal phase, environmental and social risks under component 3 cannot be comprehensively identified because the project includes unidentified sub- projects (USPs). As a result, this section explains how to identify/assess, manage and mitigate environmental and social risks when an USP is identified.

Scope of sub-projects

UN-Habitat will ensure that potential social and environmental risks, impacts and opportunities of supported sub-projects are systematically identified and assessed in an integrated manner. The type and scale of assessment and the agreed management and mitigation measures will be proportionate to the level of social and environmental risk.

In order to avoid large environmental and social impacts, sub-projects must fall into the category of medium (B) - or low (C) risk projects.

<u>A1: High risk:</u>	Activities with potential significant adverse environmental and/or
	social risks and/or impacts that are diverse, irreversible, or unprecedented.
B2: Medium risk:	Activities with potential mild adverse environmental and/or social
	risks and/or impacts that are few in number, generally site-specific, largely reversible, and readily addressed through mitigation measures.
C3: Low risk:	Activities with minimal or no adverse environmental and/or social risks and/or impacts.

The sub-projects will fall into the category of medium (B) - or low (C) risk projects because component 3 will include sub-projects that are numerous, but small scale and very localized, and managed by communities where possible, who have a stake in avoiding environmental and social impacts. This means that the potential for direct impacts is small and localized, that there can be few indirect impacts, and that transboundary impacts are highly unlikely.

To ensure sub-projects fall into the category of medium (B) - or low (C) risk projects, the scope of sub-projects has been narrowed by:

- Type of measure/housing/infrastructure
- Location (low risk)
- Scale (square meters and funding ceiling)

The outcomes of climate change vulnerability and disaster risk assessments (conducted before sub-project identification) will provide valuable data regarding risks related to disaster and vulnerabilities and sensitivities of people, natural habitats, lands/locations, etc. The scale of sub-project will be limited so that they will not fall in Fiji defined risk categories for which Environmental and Social Impact Assessment are required according to Fiji standards.

Sub-project assessment and management principles

The UN-Habitat Project Manager will ensure that assessments adequately include and/or reflect the following:

- ✓ Address impacts on physical, biological, socioeconomic, and cultural resources, including direct, indirect, cumulative, and induced impacts in the sub-project's area of influence, including associated facilities. Utilize strategic, sectoral or regional environmental assessment where appropriate.
- ✓ Assess adequacy of the applicable legal and institutional framework, including obligations under Applicable Law and confirm that the sub-project would not be supported if it contravenes (inter) national obligations.
- ✓ Assess feasible investment, technical, and siting alternatives, including the "no action" alternative, as well as potential impacts, feasibility of mitigating these impacts, their capital and recurrent costs, their suitability under local conditions, and the institutional, training and monitoring requirements associated with them.
- Enhance positive impacts and avoid, minimize, and/or mitigate adverse impacts through environmental and social planning and management. Develop a management plan per USP that includes the proposed measures for mitigation, monitoring, institutional capacity development and training (if required), an implementation schedule (including maintenance), and cost estimates.
- ✓ Ensure compliance with international standards and, where appropriate, use independent advisory panels during preparation and implementation of subprojects that contain risks or that involve serious and multi-dimensional social and/or environmental concerns.
- Examine whether particular individuals and groups may be differentially or disproportionately affected by the sub-project potential adverse impacts because of their disadvantaged or marginalized status, due to such factors as race, ethnicity, gender, age, language, disability, sexual orientation, religion, political or other opinion, national or social or geographical origin, property, birth or other status including as an indigenous person or as a member of a minority. Where such individuals or groups are identified (through the vulnerability assessment), recommend targeted and differentiated measures to ensure that the adverse impacts do not fall disproportionately on them.

 All proposed sub-projects with environmental and social risks will be assessed and managed with the purpose to identify potential application of requirements of the Overarching Environmental and Social Policy (ESP) and Principles.
 SUB-PROJECT ASSESSMENT SHEET

Steps:

- 1. Please fill out table 1 and provide the specific details for each sub project.
- 2. Complete the checklist (table 2), to assess the potential risk areas.
- 3. Identify risks mitigation measures by filling table 3
- 4. Classify the risk of the sub-project in table 4
- 5. Determine relevant safeguard areas for the sub-project in table 5
- 6. Sign of the project when above is completed

т.	ABLE 1: SUB-PROJECT INFORMATION
1. Project title	
2. Project number	
3. Project location (village, districts)	

	TABLE 2: CHECKLIST OF POTENTIAL RISK AREAS OF NON-COMPLIANCE WITHIN THE ADAPTATION FUND'S ENVIRONMENTAL AND SOCIAL SAFEGUARDS	Answer (Y/N)
Ad	aptation Fund Safeguard Area 1: Compliance with the Law	
1.	Is there a risk that the project will fail to comply with national laws in Fiji, UN rules, principles and procedures?	Yes
2.	Could the proposed project lead to a failure of trust between UN-Habitat and the Fiji Government?	No
Ad	aptation Fund Safeguard Area 2: Human Rights	
1.	Is there a risk that the proposed project will negatively impact the human rights of the affected population?	No
2.	Could the implementation of the proposed project lead to conflict or violence within the affected community and surrounding regions?	No
3.	Is there a risk that marginalized groups will be ignored and excluded from stakeholder engagement and community participation?	Yes
4.	During initial engagement with the local population, were objections raised objections or concerns relating to human rights issues?	No
5.	Is there a risk that community members and marginalized groups do not have a channel through which to raise an issue of grievance?	No
Ad	aptation Fund Safeguard Area 3: Climate Change	
1.	Is there a risk that the proposed project will lead to increased GHG emissions?	No
2.	upstream or downstream	Yes
3.	Is there a risk that the outcomes of the proposed project will be highly susceptible to impacts of climate change into the future?	No
Ad	aptation Fund Safeguard Area 4: Gender Equity and Women's Empowerment	
1.	Is there a risk that the proposed project will exacerbate any existing gender imbalance?	

- 2. Would the proposed project lead to an increase in discrimination towards women and girls especially during participatory processes of project design and implementation?
- 3. Is there a risk that the proposed project will lead to decreased access to water related infrastructure?
- 4. Is there a risk that the project will fail to engage women in decision making regarding project design?

Adaptation Fund Safeguard Area 5: Promoting better labour and working conditions

- 1. Is there a risk that the project will not be implemented in compliance with national laws, UN rules, principles and procedures?
- 2. Could the project lead to a reduction in the working standards of the local community?
- 3. Is there a risk that the project related staff for the proposed project will be unfairly remuneration for their work and contribution to project implementation?
- 4. Is there a risk that community contracts will not be implemented according to ILO standards?
- 5. Is there a risk that underage persons will be employed during the project cycle?
- 6. Could the proposed project lead to a situation where a project worker is unable to report any instance of grievance?

Adaptation Fund Safeguard Area 6: Enhancing community health, safety and security

- 1. Is there a risk that the project will not be implemented in compliance with national laws, UN rules, principles and procedures?
- 2. Could the local community be exposed to risk from unsafe machinery during the project cycle?
- 3. Is there a risk that community members may use some machinery without sufficient training or knowledge and/or not have protective equipment?
- 4. Would the outcomes of the project be likely to malfunction and cause injury to members of the community?

Adaptation Fund Safeguard Area 7: Safeguarding land, housing, resettlement and rights

- 1. Is there a risk that the project will not be implemented in compliance with national laws, UN rules, principles and procedures?
- 2. Could the proposed project lead to unintended resettlement consequences?
- 3. Is there a risk that during the (unlikely) instance of unintended resettlement that affected populations will not have the chance to raise objections or concern?
- 4. Will communities affected by unintended resettlement be refused their right of free, prior and informed consent?
- 4. Will the proposed project neglect to uphold the components of Participatory Land Use Planning, as detailed by the Adaptation Fund?

Adaptation Fund Safeguard Area 8: Access and Equity

- 1. Could the proposed project result in the unequal distribution of benefits between different groups in the affected community?
- 2. Could the proposed project lead to a situation where there is not a channel available to report instances of grievance or unequal access to benefits?

Adaptation Fund Safeguard Area 9: Reducing the climate and environmental footprint

- 1. Is there a risk that the project will not be implemented in compliance with national laws, UN rules, principles and procedures?
- 2. Could the proposed project lead to mal-adaptation?
- 3. Is there a risk that the project will not adequately monitor its environmental footprint and impact throughout the project cycle?

Adaptation Fund Safeguard Area 10: Conserving biodiversity

2.	Is there a risk that the project will not be implemented in compliance with national laws, UN rules, principles and procedures? Could the proposed project be constructed in a conservation or protected area? Is there a risk that the proposed project will negatively impact upstream or downstream biodiversity?	
Ad	laptation Fund Safeguard Area 11: Protection of Natural Habitats	
1.	Is there a risk that the proposed project will fail to protect natural habitats?	
2.	Could the proposed project lead to a detrimental alteration of surrounding natural habitats?	
Ad	laptation Fund Safeguard Area 12: Lands and Soil Conservation	
1.	Could the proposed project lead to the depletion of soil nutrients in the affected area?	
2.	Is there a risk that the proposed project will adversely impact the surrounding land area?	
Ad	laptation Fund Safeguard Area 13: Protection for Indigenous people	
1.	Is there a risk that the project will not be implemented in compliance with national laws, UN rules, principles and procedures?	
	Is there a risk that the proposed project will lead to increased levels of discrimination against indigenous peoples?	
	Is there a risk that the proposed project will fail to engage indigenous people in decision making.	
4.	Could the proposed project lead to unequal outcomes where Indigenous people are not able to enjoy equal access to the resulting services?	
Ad	laptation Fund Safeguard Area 14: Marginalized and Vulnerable groups	
	Is there a risk that the proposed project will cause detrimental impact to the lives of marginalized or vulnerable groups?	
	Could the proposed project lead to increased discrimination against marginalized or vulnerable people?	
3.	Will the proposed project limit the access to natural resources or project benefits for marginalized and vulnerable groups?	
Ad	laptation Fund Safeguard Area 15: Protecting and promoting cultural heritage	
	Is there a risk that the project will not be implemented in compliance with national laws, UN rules, principles and procedures?	
	Is there a chance that the proposed project will cause damage to a cultural heritage UNESCO site?	
3.	Could the proposed project be implemented without having completed a vulnerability assessment?	

Table 3: Identifying risks mitigation measures

Table partially filled out, to provide examples for project staff to complete the table fully. Please use the checklist (table 2) to identify risks

WHAT ARE THE POTENTIAL ENVIRONMENTAL AND SOCIAL RISKS?								
Description of Risk	Impact (I) and Probability (P). Score 1 - 5	Significance (low or medium)	Comments	Safeguard measures that have been incorporated to address potential risk				
Risk that the project will fail to comply with national laws in Fiji, UN rules, principles and procedures.	l = 1 P= 1	Low	UN-Habitat is a signatory of UN Conventions and the proposed project has been designed to adhere to national Fiji law.	Project Manager to work in cooperation with relevant Departmentand written details of the proposed project will be shared with Fiji government				
Risk that marginalized groups will be ignored and excluded from stakeholder engagement and community participation?	l = 3 P= 1	Low						
Risk that the proposed project will lead to maladaptation either upstream or downstream from the project site	l = 1 P= 1	Medium						

Classification of sub-projects

TABLE 4: PROJECT CATEGORIZATION						
Select risk level:		Comments				
A1: Low Risk						
B2: Medium Risk	\boxtimes	The proposed project has been classified as Medium Risk because				
C3: High Risk						

TABLE 5: RELEVANT SAFEGUARD AREAS FOR PROJECT IMPLEMENTATION					
	Select all that apply		Comments		
1	Compliance with the Law	\boxtimes			
2	Human Rights	\boxtimes			
3	Climate Change	\boxtimes			
4	Gender Equity and Women's Empowerment	\boxtimes			
5	Promoting better labour and working conditions	\boxtimes			
6	Enhancing community health, safety and security	\boxtimes			
7	Safeguarding land, housing, resettlement and rights		The proposed project will not involve resettlement of any kind.		
8	Access and Equity	\boxtimes			
9	Reducing the climate and environmental footprint	\boxtimes			
10	Conserving biodiversity	\boxtimes			
11	Protection of Natural Habitats	\boxtimes			
12	Lands and Soil Conservation	\boxtimes			
13	Protection for Indigenous people	\boxtimes			
14	Marginalized and Vulnerable groups	\boxtimes			
15	Protecting and promoting cultural heritage				

TABLE 6: FINAL SIGN OFF						
Signature	Date	Description				
Assessor of sub-project						
Project manager						
M & E officer						