The combination of intensifying cyclone events and the ongoing acceleration of sea-level rise is expected to have direct impacts on Tuvalu.

To address the challenges, the Government of Tuvalu and the Green Climate Fund have jointly committed US$38 million for the Tuvalu Coastal Adaptation Project (TCAP). While new measures will buffer coastal infrastructure during storms, the project also strives to build the capacity of national and island governments and local communities in adapting to climate change in the longer term.

Implemented by the United Nations Development Programme, the 7-year project (2017-2024) is in line with key government strategies and policies and works together with the relevant ministries.

This newsletter provides key updates on the project on a quarterly basis. Please also follow us on Twitter and Facebook!

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TCAP Coastal Adaptation - Funafuti Detail Design

TCAP has finalized the detail design for Funafuti Coastal Adaptation – Reclamation land approximately 250,000 cubic meters of sand from the lagoon to create a 780m long, 100m wide elevated area of land along the Vaiaku waterfront to the north of Queen Elisabeth Park. The Government of Tuvalu has approved the design with the maximum elevation of +5.75m above chart datum which is equivalent to 2.4m above contemporary HAT (Highest Astronomical Tide) and maximum elevation of 0.25m above Chart Datum.

The Government is pleased that UNDP Pacific Office in Fiji through the TCAP has used the best available science, projections and modelling to inform the design of the TCAP reclamation and that even under the most extreme conditions modeled out of 2100, over 85-90 percent of the area will remain flood free. The UNDP - TCAP reclamation should remain flood free and safe for at least the next 80yrs.
The reclamation will be filled to a height of 2m above the highest measured sea level at Funauti (highest astronomical tide (HAT)). The surface will be slopped to ensure good drainage and will have a natural berm and buffer at the seaward edges to help minimum 20m constructions set back area from the landward edge of the reclamation bund.

TCAP Coastal Shoreline Analysis - SPC

The Pacific Community (SPC) Geoscience, Energy and Maritime (GEM) Division has been engaged by UNDP to support the delivery of the TCAP project. SPC is progressing towards the development of coastal
hazard knowledge products for Tuvalu based on the analysis of various scientific datasets including the information collected by the joint Tuvalu Government (from the Land’s Dept) & SPC team which visited Nanumea and Nanumaga in 2019. The high resolution bathymetry and topography data (i.e. LiDAR data from the Fugro company in Australia) procured through the TCAP project are providing state of the art baseline data to the scientific team at SPC to support the assessment of coastal hazards for Tuvalu communities such as the analysis of the shoreline change in Nanumea and Nanumaga.

An SPC report on Nanumea and Nanumaga analyzes the movement of the shoreline over the last decades highlighting erosion and accretion patterns around the islands. The team is capitalizing on the advancement of satellite technology to precisely derive the changes in the position of Nanumea and Nanumaga shorelines since the year 2003. Such data combined with the very valuable but sporadic shoreline information from the 20th century makes up the baseline for this analysis. The shoreline change analysis is based on an open-source software named the Ambur “R”: Shoreline Change Analysis. The findings will aim to support government and communities’ risk-informed decision-making.

Results: Nanumea

![Diagram showing shoreline changes in Nanumea](image_url)
UNDP Pacific Office through the TCAP has engaged Peter Ollivier, a civil engineer and Head of Advisory for Calibre Consulting Ltd in New Zealand, to assist the TCAP team with procurement, technical and contract advice. Peter was a logical choice to provide this advice because of his experience in delivering similar development projects in atoll countries through the Pacific like:

- The Funafuti borrow pit remediation to restore the island land area - widely acclaimed as a success and exceeding expectations.
- The upgrade of the wharves and reef channels on each of the atolls in Tokelau to improve transport safety for the island communities.
- Assessing the feasibility of increasing island resilience by reclaiming 340 hectares of low-lying land at Temaiku, South Tarawa in Kiribati to provide land for development.
- Reporting on potential airfield options on Nukunonu atoll, Tokelau including potential reclamation possibilities for the runway.

Peter is excited to have been invited to help the TCAP project which he believes is the only example in the Pacific of a true long-term adaptation response in an atoll to sea level rise. He notes that the current state of the project is a credit to everyone who has been involved and he is proud to be able to add his experience to help deliver a resilient and successful outcome for the Tuvalu communities on Funafuti, Nanumea and Nanumaga.
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Training of Trainers on mainstreaming of Climate Change & Disaster Risk

Feue Tipu has been engaged by the UNDP Pacific Office through TCAP to mainstream climate change adaptation (CCA) and Disaster Risk Reduction (DRR) into the Island Strategic Plan (ISP) of the Falekaupules and Kaupules since
Despite the COVID-19 pandemic, tackling climate change remains the greatest environmental challenge Tuvalu faces today. The upcoming training on mainstreaming climate change adaptation is an activity component of the TCAP Output 3 “A sustainable financing mechanism established for long term adaptative efforts”.

The national Training of Trainers workshop on the mainstreaming of CCA is an initiative to support the effort to stop, stall, or even reverse climate change variability. It has been asserted that the effectiveness of climate change adaptation measures could be improved if greater attention were paid to mainstreaming climate change into sector policies and strategies, and these prioritized programs were implemented at the community and project level (Wickham, Kinch et al., 2009).

The Training of Trainers workshop is essentially to present two different models of mainstreaming climate change in order to build capacities of Kaupule staff so that they acquire the requisite knowledge and skills in mainstreaming climate change and disaster risk concerns into their ISP and policies and programmes.

The training is scheduled in June and is expected to be attended by Kaupule staff from the eight islands of Tuvalu - and will be facilitated by Mr. Tipu.

HACT Training - Enhanced Integrated Framework

Project - UNDP Support

The Enhanced Integrated Framework (EIF) Project under the GoT Department of Trade in close collaboration with UNDP conducted a training on the UNDP financial process for the Harmonized Approach to Cash Transfer (HACT) on 6 May. The purpose of the training was to build capacity of implementing partners to better understand the HACT processes, accountabilities, and compliance.

Facilitated by the UNDP Pacific Office team in Suva, the virtual training was conducted via zoom to 29 participants in Tuvalu. Participants included staff from various Departments from the Ministry of Finance, NGO’s, CSO’s and UNDP Project staff in Tuvalu including TCAP.
The Training was officially opened by Kevin Petrini the Deputy Resident Representative a.i. (DRR) a.i for the UNDP Pacific Office who remarked that there are seven ongoing projects in Tuvalu, approximately 22 percent of UNDP’s Pacific Office total delivery.

The Tuvalu Department of Trade EIF Project together with the UNDP Pacific Office in Fiji recognized that HACT as a UN common operational framework for transferring cash to partners which came into effect in 2010 with an aim to:

- Reduce transitioned costs to partners cooperation through the simplification & harmonization of rules and producers among UN agencies,
- Improve implementing partners’ capacity to effectively manage resources, and
- Help manage risks related to management of funds & increase overall effectiveness.

TCAP Project Manager involved in the Nukufetau Island Strategic Plan

The last Island Strategic Plan review for Tuvalu took place on April 2021. The ISP review team included TCAP Project Manager Alan Resture, staff from the Department of Local Government and facilitators from the Nukufetau island community on Funafuti.

The main purpose of the mission was to facilitate ISP consultations in order (i) to mainstream and integrate climate risks, including coastal management (ii) to promote and build Falekaupule, Kaupule and community awareness and understanding on TCAP’s overall objectives, and (iii) to translate climate change risks identified in the ISP’s into micro-projects that would reduce the community’s vulnerability, hence empowering them to be more resilient, and (iv) to help translate the ISP into English language. Apart from Kaupule members & all Kaupule administrative and
clerical staff, members of civil society organisations, including youth, women, and people with disability were invited to attend the ISP consultation and review.

On 13 April, the team left Funafuti for Nukufetau. The ISP review and formulation took place from 19 April to 30 April when the high chief and Pule Kaupule signed the document. A school visit was also organized on 4 May to distribute project materials and publicized TCAP.

The first three days were spent conducting household socio-economic survey, with the purpose to document the number of occupants in each household, and their assets and economic resources. The first two days were spent on the main settlement, going from house to house interviewing heads of families. The team went on the third day to Funaota, an islet that has been designated for food security project. This is also the site of the solar project, undertaken by FASNETT.

The review consultation took a total of seven consultation days and one day for the endorsement of the new ISP. A presentation was done for the community, followed by group discussions amongst five groups: island leaders, men, women, youth (18–49 years old), and people with disability. At the end of each session, each group nominated a rapporteur to report back to the plenary. At the end of the sixth day, all strategic areas were reviewed, and the community’s views were aggregated. The new policy was developed and formulated on 27 April and verified by the community. Once agreed, the team compiled the new ISP which was signed on 30 April 2021. A total of 1,785 attendees (958 females, 816 males), participated during the course of the ISP review consultation, with an average of 149 (94 females, 80 males) attendees per session.
Following the completion of the ISP review and formulation, Capacity Development Consultant Fenua Elisaia Paul, visited Tutasi Primary School to raise awareness on TCAP and distributed project IC materials (bags, bands, & t-shirts).

Both the Project Manager Mr.Resture and Capacity Development Local Consultant Ms Paul visited the GoT-funded seawall, constructed by Hall Construction of Australia in 2017 to see the geobags and how they’ve coped with storm waves. Some of the bags were thrown off the groins, torn and ripped apart completely. Other bags were still intact but torn. At the corner of the walls, there is severe erosion happening, at both the northern and southern seawall.

While outer island communities may have a relaxed mindset, they need as much assistance as possible in terms of coping and adapting to climatic extreme events, storm surges, as well as implementing and monitoring development activities. The review of ISPs, is a way forward in assuring the communities that integrating climate change into the ISPs serves both their development needs and securing a better future for their younger generations in terms of adapting to the impacts of climate change and sea level rise.
The Song Competition productions will showcase and promote the project mainly on the 2nd output on coastal adaptation/ protections on the three island.

3 Categories for the Song Competition

1. Solo
   1st Prize $300
   2nd Prize $200
   3rd Prize $100

2. Group
   1st Prize $500
   2nd Prize $300
   3rd Prize $200

   Songs will be in Tuvalu.
   Theme: Coastal Protection

Tik tok Group Competition in English
Theme: Coastal Protection
Best Tik Tok prize $300

Environment Day 25th June 2021

The Song Competition productions will showcase and promote the project mainly on the 2nd output on coastal adaptation/ protections on the three island.

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<thead>
<tr>
<th>The Solo Prize</th>
<th>The Group Prize</th>
<th>The Tik Tok Group</th>
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<tbody>
<tr>
<td>1st prize $300</td>
<td>1st prize $500</td>
<td>The best group $300</td>
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<tr>
<td>2nd prize $200</td>
<td>2nd prize $300</td>
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<tr>
<td>3rd prize $100</td>
<td>3rd prize $200</td>
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The competition will open to residents in Tuvalu. Please contact the office for registration no later than 23rd of June by email to Puanita Ewekia - puanita.wekia@undp.org or call 68820883 for more information

TUVALU COASTAL ADAPTATION PROJECT GOAL

To reduce the vulnerability of Tuvalu to future impacts of climate change

Newsletter Editors

Puanita Taomia Ewekia | TCAP Communication Officer | Funafuti, Tuvalu | E. puanita.ewekia@undp.org

Alan Resture | TCAP Project Manager | Funafuti, Tuvalu | E. alan.resture@undp.org

Phone (688) 20883 and 20258

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