

Project: Enhancing Disaster and Climate Resilience in the Republic of Palau through improved Disaster Preparedness and Infrastructure

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Output	Activities	Activity Details	Status as of 30 Oct	Next Action
Output 1	1.1 Install VHF and HF radio (incl. of climate proofing) in key emergency operations facilities (i.e. MET, NEMO and vulnerable schools) in line with PICI Panel work plan	<p>A network of VHF and HF radio for the State Governments will be installed according to the request made by the National Emergency Management Office (NEMO).</p> <p>The network includes</p> <ul style="list-style-type: none"> VHF radio stations to allow the communication to the 13 states within the main islands, HF radio stations to communicate with the Southwestern States (State Governments, State offices in Koror and main emergency management entities). <p>The HF radio stations and VHF antennas will be marine grade and will include back up power energy supply through solar panels as well as long life batteries.</p> <p>Some latest improvements in telecommunications will be also considered (option for selective calling and email messaging) as well as additional equipment</p>	<ul style="list-style-type: none"> 7 Southern Islands have been prioritized as below considering the limited budget available. Original proposal was 16 HF and 28 VHF base stations <p>Proposed sites</p> <ul style="list-style-type: none"> Helen reef Tobi State Sonsorol state NEMO : (should have HF email) Education : needs HF email , technical support center for HF email Hospital : can do with email State Government. To consider also, if budget allows Merir island: Pulo Ana: <p>Upgrade</p>	<ul style="list-style-type: none"> Finalize VHF and HF specs Discuss on the engagement of PNCC for the installation, maintenance, etc including: 1) Considering PNCC as a vendor for VHF and HF antennas, as equipment' suppliers. In this case, UNDP or NEMO cannot share with them the technical specifications, since that means that the process will not be transparent, or 2) Considering to make a LoA with NEMO so that the installation is carried out separately by PNCC for both sirens and radios.

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		(chatty beetles, personal locator beacons and Inreach GPS).	<ul style="list-style-type: none"> NEMO would like to Kayangel, Peleliu and Angaur to have HF capability. Savu says that the repeater can play a good role. 	
Output 1	1.2 Install tsunami and multi-hazard warning sirens (incl of repeater stations) in key vulnerable locations.	The early warning systems will include 29 multi direction sirens to be installed in 13 States, according to NEMO request. The control centre for the sirens is proposed to be located at the NEMO facility. According to information provided by NWS and the decisions taken by the NEMO, the staff on duty could select only certain areas to sound the alarm or every siren at the same time. The sirens system will complement the community preparedness initiative currently under implementation by the NEMO.	<ul style="list-style-type: none"> A site visit was done by PNCC, NEMO and UNDP. During the site visit 20 towers were visited. Some of the sites were not recommended. Sirens have a maximum propagation of the sound that covers certain miles. A simulation of a maximum propagation of the sound to see what areas will be covered by siren. It was agreed that it was an advantage to use the existence infrastructure of PNCC. 	<ul style="list-style-type: none"> Specs should be delivered by middle of November. Discuss the possibility of considering PNCC vendors for sirens, as equipment' suppliers. In this case, UNDP or NEMO cannot share with them the technical specifications, since that means that the process will not be transparent
Output 1	1.3 Repair/Install Automated weather stations related equipment in key strategic and vulnerable locations both existing and non-existing	In coordination with the NWSO, five (5) automated weather stations and one (1) airport type weather station will be installed to complement the capacities to monitor weather conditions. The regular AWS will be located in Kayangel, Ngaraard, Melekeok, Koror and Peleliu States. The equipment will be installed in State Government property land, and the	<ul style="list-style-type: none"> Bid was closed in Oct 2019, currently under evaluation. 	<ul style="list-style-type: none"> Procurement process to be approved in Nov 2019.

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	according to WMO guidelines.	maintenance will be done by the NWS technical officers (by using the 13 technical officers in main station and the 5 observers in the field). The airport type AWS will be located within the NWS Office for confirmation, back up and redundancy purposes, to the information provided by the one located at the airport (which belongs to the Federal Aviation Agency).		
Output 1	1.4 Install 4 wave riders buoys in the West, South and East sides of the country	<p>The NWSO has requested to modify the original request of a DART buoy for 4 wave riders buoys (3 to be installed and one spare). Considering their proximity to the coast lines, the Waverider Buoys will enable NWSO to plan and predict level of erosion and salt water intrusion through storm damage and waves on coastal areas; and to make decisions oriented to the protection of natural ecosystems.</p> <p>The wave rider buoys will be strategically located in the West, South and East sides of the country. The information provided by these buoys will be used for inundation modelling – activity to be developed by NWSO under a UNEP /GCF project - and linked also to the LIDAR study proposed within this initiative.</p>	<ul style="list-style-type: none"> As the University of Hawaii was not able to agree on the General Terms of Condition of UNDP, we will make another partnership agreement by concluding Letter of Agreement (LOA). As the combined amount for procurement and installation/training of chatty beetles and wave riders for 3 countries exceed \$300,000, HACT micro assessment will be conducted. UNDP will start arranging such assessment and prepare the draft LOA. 	<ul style="list-style-type: none"> Conduct HACT micro assessment in Nov 2019 Draft LOA and sign once obtained the results of the HACT.

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Output 1	1.5 Reconstruction of AM Frequency Modulation Tower	The AM radio tower collapsed during Typhoon Bopha in 2012. From then on, the government radio broadcast operates only in FM, covering the area around Koror (approximately 50% of the country population). The AM radio tower to be rebuilt within this Project will expand the coverage to the entire population, including the Southwestern islands. A complete assessment report was submitted by the Department of Domestic Affairs, including the type of equipment required for the reconstruction of the AM tower, the installation of the respective equipment and the construction of a shelter (to house the AM and FM radio equipment, and a mini studio).	<ul style="list-style-type: none"> • An alternate location to place the tower has been approved and accepted. This was suggested to maximize the coverage and there is no interference on what it was seen. • For this location a lease agreement has been signed, including that area. The State has given the land to Domestic Affairs. • UNDP provided two billboards to Domestic Affairs to place them where the tower will be located. • Specs will be developed into two parts as no one company can do it all. • Construction Tower itself one • Equipment and transmitter will be another one, will have the containerized equipment room which will then be constructed into a ceiling. Provision for toilets • Domestic Affairs advocates for the inclusion of security fencing and signing (high voltage) 	<ul style="list-style-type: none"> • Specs to be delivered by the end of November
Output 1	1.6 Training course for young technicians on how to maintain the current	In order to increase current and future capacities to install, repair, maintain and manage telecommunication equipment the Project has started some discussions with the Palau Community College to develop a	<ul style="list-style-type: none"> • UNDP to explore to amend the contract with telecom expert by including training of young technician in telecommunication. 	<ul style="list-style-type: none"> • Amend the contract with the telecom expert to include additional scope of work

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	communications Infrastructure	training course for students majoring in Electronics.	<ul style="list-style-type: none"> PCC informed that only 3 students from college are suitable for the course, thus he advise to recruit possible participants with support of States Governors. 	
Output 1	1.7 Monitoring including Gender Analysis & perception assessment on the impact of the project on beneficiaries	The Bureau of Gender, Aging and Disabilities is keen to promote a participatory process within the National Emergency Committee to review the instruments currently used for data collection in humanitarian assistance. This activity is linked to the training in Gender in Humanitarian Action (GiHA) proposed in Component 3, building upon the capacities already developed in country through a training of trainers course developed by UN-Women in 2018.	<ul style="list-style-type: none"> Given the budget and constrain timeframe, the Bureau of Gender, Aging and Disabilities requested to concentrate in a national workshop that brings together national entities and civil society to strategize in Gender, humanitarian assistance and DRR. Activity 1.7 and 3.6, to be merged into one that will consist in once sole workshop. A concept note has been developed by national partners with the support of UNDP. The purpose of the workshop will be to introduce basic terms relating to gender equality and social inclusion to Palau DRR stakeholders more particularly with the implementers of UNDP DRR project. This workshop will focus on the importance of gender equality in Palau context and how it relates to DRR. How to integrate gender in preparedness, during the disaster, 	<ul style="list-style-type: none"> Revise the concept note to incorporate people with disabilities

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			<p>and post disaster work. Gender equality and Social Inclusion in Palau Context.</p> <ul style="list-style-type: none"> • UNDP contacted UNwomen and SPC to explore which of the two agencies are best place to provide specialized support. • SPC agreed to deliver the workshop. Red Cross and NEMO suggested to improve the concept note and incorporate people with disabilities. 	
Output 2	2.1 Provide appropriate and improved disaster preparedness and response equipment to NEMO (purchase of generator to complement existing one)	<p>The project will provide the National EOC with the required equipment for information management, monitoring and coordination.</p> <p>This may include:</p> <ul style="list-style-type: none"> • computers and software, • multimedia equipment, • communication equipment (telephone, WIFI and fibre optic, if possible). 	<ul style="list-style-type: none"> • UNDP Consultant (Savu) made a site visit to the EOC to revise the requested equipment by NEMO with the telecom expert. He also made a presentation to explain that upgrading can start with a basic package and work up as it progresses. • NEMOs basic request for the equipment is the following: • 6 monitors and 4 screens (2 to locate EOC and then the rest Operation Room) in various sizes. • Training for GIS and IM. • Software (To be revised open sources) 	<ul style="list-style-type: none"> • Propose list of equipment and software with estimated cost, including training in November • Specification of the necessary equipment and furniture to be finalized

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			<ul style="list-style-type: none"> • UNDP is working in identifying furniture which consist in 15 to 20 tables and 30 chairs. Additional phones. • NEMO is concerned that the extension of the building will take a lot of time and that this work may request them to move to some other place • 	
Output 2	2.2 Retrofit the National Emergency Operations Centre (NEOC) facility to meet international and functional standards.	The conference/meeting room of the NEOC will be expanded to accommodate the increasing number of representatives from the National Disaster Management Team. Moreover, an information management room will be added to the existing building.	<ul style="list-style-type: none"> • Deadline for the development of tender document by Mikael Gardner: 30 Nov . • NEMO would like the proposal #5 designed by MG. 	<ul style="list-style-type: none"> • Discuss on the cost estimation with UNDP Consultant (Mikael Gartner) and discuss on the possible adjustment if required
Output 2	2.3 Conduct LIDAR Imagery remote sensing mapping over key and vulnerable locations. High Resolution Digital Elevation Models (DEM) for Inhabited Coastal Areas developed	The Office of the Palau Automated Land and Resource Information System (PALARIS) is the main counterpart to prepare a topographic map (1m resolution) for the islands of Kayangel, Babeldoab, Koror, Peleliu, Angaur, Sonsorol and Hatohobei (for an approximate area of 415 square kilometres). The respective contract with the specialized company will include a training on the use of the LIDAR study, with emphasis on its potential for disaster risk modelling and disaster risk management.	<ul style="list-style-type: none"> • PALARIS is currently redrafting the TORs to include some of comments provided by UNDP expert, by reconsidering bathymetry data or purely terrestrial based systems. 	<ul style="list-style-type: none"> • Palaris to complete the revised TOR and discuss on the budget for other components.

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Output 2	2.4 Provide key strategic islands with containerised storage facilities to store emergency stockpiles/supplies, emergency equipment.	The project will provide the NEMO with 3 containerised storage facilities to be installed in Kayangel, Peleliu and Angaur, and two mobile warehouse facilities (tents) to be stored at the NEOC.	<ul style="list-style-type: none"> • 2 mobile storage facilities are under shipping. ETA is 15 Nov. • The bid for the 3 containerised storage facility was cancelled as the bid price exceeded the budget available. Instead, the UNDP contracted to procure additional 3 mobile storage after discussing with NEMO. 	<ul style="list-style-type: none"> • Handover of the facilities
Output 2	2.5 Appropriate equipping of emergency disaster response stations, East coast and Westcoast of Babeldaob island with response and rescue vehicles (specifically fire trucks and first responders' vehicles)	The project will procure one fire truck for the East coast and Westcoast of Babeldaob island. Specific request has been shared by the Bureau of Public Service (Ministry of Justice). The fire truck will be placed in the Melekeok Fire Department Sub-station for providing assistance to the States located in the Babeldaob Island.	<ul style="list-style-type: none"> • ITB for fire truck has been re-posted on 01 Oct 2019 with the deadline on 13th Nov. • Training on use and maintenance will be organized separately. 	<ul style="list-style-type: none"> • Evaluation on the bid in November
Output 2	2.6 Provide key disaster responders and Search & Rescue institutions with 2 portable man packs VHF radio	Provide key disaster responders and Search & Rescue institutions with 2 portable man packs HF radio	<ul style="list-style-type: none"> • A contract made for the procurement of Man packs VHF radio 	<ul style="list-style-type: none"> • Skype training once the radios are delivered. • Expected delivery late December or January 2020
Output 3	3.1 Provide emergency backup power for schools as	This will involve procurement of 3 solar panel systems to be installed in three schools of the South western islands of	<ul style="list-style-type: none"> • Discussed on the possibility to conduct energy demand survey and assessment of roof. However, it 	<ul style="list-style-type: none"> • Market research for the solar panel providers in Palau

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	evacuation centres (Low tech off grid electrical power system for three schools in Sonsorol, Pulo Anna and Hatohobei, Southern most islands).	Sonsorol, Pulo Anna and Hatohobei States. For the PEA, this project is considered a pilot initiative to then expand the provision of solar panels to all households in the mentioned islands.	<ul style="list-style-type: none"> was difficult to dispatch personnel to the site due to the limited budget available. Project team seek communication consultants for alternate advise and solution. 	<ul style="list-style-type: none"> Develop the additional TOR for Bruce contract amendment for the school solar panels
Output 3	3.2. Restoration and protection of cultural heritage sites in coastal communities rated high risk (Palau Historical Preservation Office, Vulnerability Assessment) – in line with Palau Climate Change Policy (PCCP) for Climate & Disaster Resilient Low Emissions Development.	The Bureau of Cultural and Historical Preservation is the implementing partner for the implementation of this activity. This includes the preparation of vulnerability assessments of 10 cultural heritage sites (to be developed by 4 international specialists already contacted by this Bureau) and climate risks mitigation works in 2 prioritized sites. The mitigation works are aimed to protect cultural heritage sites and will be developed considering a high level of participation of the communities in order to raise the awareness for the protection of cultural sites.	<ul style="list-style-type: none"> Boat charter was contracted for the mission to Hatochobei. The trip to Hatochobei was scheduled on 6 November. However the trip was postponed until February 24, 2020 due to the bad weather. 	Compilation of first draft of survey report; submission of draft December 30, 2019
Output 3	3.3 Procure a double function vehicle for the Fire Department, to secure water resources during droughts	A double function vehicle will be procured for the Fire Department, which can be used as fire truck but also as a 3,000 gallons water tank truck. This vehicle will have the capacity to transport water to schools, hospitals and communities affected by	<ul style="list-style-type: none"> ITB for fires truck has been re-posted on 01 Oct 2019 with the deadline on 13th Nov. Training on use and maintenance will be organized separately. 	<ul style="list-style-type: none"> Evaluation on the bid in November

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		water shortage due to droughts or any deficiency in the water system.		
Output 3	3.4 Inspect, assess and upgrade critical infrastructure conditions and upgrade needs to withstand climate change and disasters	<p>Mobilization to provide maintenance to climate monitoring systems as well as to assist population for evacuation and disaster management is one of the main difficulties experienced by emergency response entities.</p> <p>Throughout this project, the NWSO and NEMO will be provided with vehicles and boats to improve their capacity to access the areas where the monitoring equipment will be installed as well as to support evacuation and humanitarian assistance in case of disasters.</p> <p>Moreover, the Fire Department facilities (main station in Koror and sub-stations in Babeldaob islands) will be improved.</p> <p>a) NWSO pick up, b) 5 Tones pick up, c) 1 NEMO Vehicle d) 1 Boat e) Search and rescue</p>	<ul style="list-style-type: none"> • Procurement of boat was advertised with the deadline on 18 Nov. • All specs for NEMO, NWSO, Bureau of heritage vehicles have been sent to Suva for revision. • For the roofing the Fire Department is interested mainly in repaired the roofing in Koror. Since is small civil work, Palau team would like to hire a local architect and process work locally. 	<ul style="list-style-type: none"> • Finalize a tender for boat • Issue tender for vehicles
Output 3	3.5 Provide food preservation training to vulnerable	To enhance food security and nutrition capacities of communities to deal with emergencies and disasters, the project will	<ul style="list-style-type: none"> • As part of the project the Ministry of Agriculture has requested support for enhancing their 	<ul style="list-style-type: none"> • UNDP is following up with WFP

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	communities through all relevant national and state actors to enhance community resilience.	train technical officers of key institutions and organizations working at local level in food preservation methods. The intention is that families can preserve (e.g. smoking, salting, drying food) and store part of their local production to permit their use in periods of scarcity. This activity will be potentially linked to the initiative led by the Palau Red Cross related to women and humanitarian assistance, with the potential to develop a nutritionally balanced diet tailored to the capacities and habits in food consumption.	capacity to manage food security in emergency situations and UNDP may have a small budget (approx. \$20,000) to organize a training in this topic and to help them define a tailored “food basket”. UNDP thinks this may trigger a process similar to the one WFP/FAO have supported in Fiji within the Food Security cluster.	
Output 3	3.6 Conduct Integrated Gender Equality and Social Inclusion (GESI) and DRM Training of Trainers with key national and state government sectors including CSO’s that work with communities.	The Bureau of Aging, Disability, and Gender (within the Ministry of Community and Cultural Affairs) has proposed the delivery of a training in the methodology of Gender in Humanitarian Action (GiHA), considering the capacities developed in a regional training for trainers course by UN-Women. This activity will be linked to Activity 1.7 oriented to mainstream gender and social inclusion consideration in humanitarian assessment tools.	Please see 1.7 above	Please see 1.7 above
Output 3	3.7 Conduct PDNA and DRF Training of Trainers to key government sectors	•	<ul style="list-style-type: none"> The Government has provided a list of participants for PDNA/DRF training which includes the government institutions and other supportive entities that will have a 	<ul style="list-style-type: none"> Determine the possible dates and check the requirements for the training. Tentative date for the training is January 2020.

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			<p>role in the recovery of the different.</p> <ul style="list-style-type: none"> • Social sector: Housing, education, health and culture. • Infrastructure sector: Water, Power supply, transportation (i.e. roads, water and air transportation) and telecommunication • Productive sector: Agriculture (including fisheries), industry, commerce and tourism • Crosscutting sectors: Gender, governance, environment, employment & livelihoods and DRR 	<ul style="list-style-type: none"> • Prepare final list of participants.