

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 March 2020	Next Action
Output 1	1.1 Install VHF and HF radio (incl. of climate proofing) in key emergency operations facilities.	<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>Summary of the requested equipment HF system</p> <ul style="list-style-type: none"> • Tobi state : 2 sites (both w/ Email) includes the main Koror office and the remote • Sonsorol state: 2 sites (both with email) w/Koror/remote. • Helen reef: 1 HF (without HF email) • Merir island 1 HF (without HF email) • Pulo Ana 1 HF (without HF email) • NEMO : needs HF email 	<ul style="list-style-type: none"> • The mission for HACT micro assessment was dispatched in early March. The draft report was submitted. Awaiting for PNCC's review and their inputs. • The evaluation of the bids for HF and VHF radio communication equipment, and solar power, is ongoing. Awarding of contract is expected to take place in April 2020. 	<ul style="list-style-type: none"> • Finalize Technical evaluation of procurements of radios and solar panels. • Finalize HACT micro assessment to PNCC. • UNDP will make a Letter of Agreement (LOA) directly with PNCC for the installation. • Once the radios come to Palau a telecom expert will arrive and check the equipment and do the programming.

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		<ul style="list-style-type: none"> • Education : needs HF email. • Hospital : needs HF email <p>VHF system</p> <ul style="list-style-type: none"> • Kayangel, Peleliu and Angaur. • Other equipment involves battery bank, solar panels, battery supply charger 		
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 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	<ul style="list-style-type: none"> • The mission for HACT micro assessment was dispatched in early March. The draft report was submitted. Awaiting for PNCC's review and their inputs. • Telecom expert is working in proposals with technical specifications, covering main states excluding Southwestern states which requires different technologies. 	<ul style="list-style-type: none"> • Finalize HACT micro assessment to PNCC. • UNDP will make a Letter of Agreement (LOA) directly with to PNCC for procurement, training and installation. The LOA should include the detailed plan (including specification of the siren) and budget for the intended

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		preparedness initiative currently under implementation by the NEMO.		activities. <ul style="list-style-type: none"> • NEMO and PNCC to decide the scope of intervention for siren system.
Output 1	1.3 Repair/Install Automated weather stations related equipment in key strategic and vulnerable locations both existing and non-existing according to WMO guidelines.	In coordination with the NWSO, 4 automated weather stations to complement the capacities to monitor weather conditions. The regular AWS will be located in Kayangel, Melekeok, Koror and Peleliu States. The equipment will be installed in State Government property land, and the 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).	<ul style="list-style-type: none"> • The mission for HACT micro assessment was dispatched in early March. The draft report was submitted. Awaiting for NWSO's review and their inputs. • Government issued a public notice for the procurement of AWS. Bidding Period is 18 March to 7 April. 	<ul style="list-style-type: none"> • Finalize HACT micro assessment to NWSO. • UNDP will make a Letter of Agreement (LOA) directly with to NWSO. NWSO will award the work to a company. • It is expected that the bid is awarded by April 2020 following the procurement process of National Government.
Output 1	1.4 Install 4 wave rider buoys to determine ocean	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	<ul style="list-style-type: none"> • The mission for HACT micro assessment was dispatched in early March. The draft report was submitted. 	<ul style="list-style-type: none"> • Finalize HACT micro assessment to NWSO. • Finalize the LOA.

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	conditions and surface wave monitoring	the coast lines, the Wave rider Buoys will enable NWSO to plan and predict level of erosion and saltwater intrusion through storm damage and waves on coastal areas; and to make decisions oriented to the protection of natural ecosystems.	Awaiting for NWSO's review and their inputs. <ul style="list-style-type: none"> • LOA is under preparation 	
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"> • AM Broadcast System bidding was extended to 26 March 2020 (original 12 March, extended to 19 March) based on request from the bidders. 	<ul style="list-style-type: none"> • Evaluation should start once the bid closes.

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Output 1	1.6 Training course for young technicians on how to maintain the current communications Infrastructure	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 training course for students majoring in Electronics.	<ul style="list-style-type: none"> • There is no updates on this activity since Feb 2020. This activity will be delivery in conjunction with technical experts involved with the radio installation. 	<ul style="list-style-type: none"> • Conclude contract with an international consultant(s) to implement this activity. • UNDP to draft the letters to the Governors • Instructors to send her names of potential candidates. Also, if they have ideas that can be incorporated to the curriculum.
Output 1	1.7 Conduct a Protection, Gender and Social Inclusion in Disaster Risk Management training	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"> • A second preparatory Pre-workshop Preparation Meeting in Gender and Social Inclusion took place with the participation of Bureau Gender, Aging and Disabilities, PRCS, IFRC, and Omekesang was postponed due to COV19 precautionary measures. 	<ul style="list-style-type: none"> • Organisations to meet tentatively in April to defined the methodologies of the agreed agenda.

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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, <p>communication equipment (telephone, WIFI and fibre optic, if possible).</p>	<ul style="list-style-type: none"> • A local provider is working in the installation of the Generator at NEMO. 	<ul style="list-style-type: none"> • UNDP will start working with ICT expert for the equipment procurement process. • Finalize the installation of the generator. • Delivery of the furniture is expected by the end of May.
Output 2	2.2 Retrofit the National Emergency Operations Centre (NEOC) facility to meet international and functional standards.	<p>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.</p>	<ul style="list-style-type: none"> • BPW and UNDP are finalising the LoA. • BPW presented an alternative idea of expansion. Awaiting for new drawing. 	<ul style="list-style-type: none"> • Sign LoA between BPW and NEMO. • BPW to present new drawing to UNDP and Government entities for approval.
Output 2	2.3 Conduct LIDAR Imagery remote sensing mapping over key and vulnerable locations. High Resolution Digital	<p>The Office of the Palau Automated Land and Resource Information System (PALARIS) is the main counterpart to prepare a topographic map (1m</p>	<ul style="list-style-type: none"> • Evaluation of bidders is on progress 	<ul style="list-style-type: none"> • Conclude evaluation.

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	Elevation Models (DEM) for Inhabited Coastal Areas developed	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.		
Output 2	2.4 Provide key strategic islands with mobile storage facilities to store emergency stockpiles/supplies, emergency equipment.	The project will provide the NEMO with 5 mobile warehouse facilities (tents) to be stored at the NEOC.	<ul style="list-style-type: none"> Activity completed. 	<ul style="list-style-type: none"> Activity completed.
Output 2	2.5 Appropriate equipping of emergency disaster response stations, East coast and Westcoast of Babeldaob island with response and rescue vehicles (specifically	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	<ul style="list-style-type: none"> Ten months to manufacture and two for delivery. The long production lead time is mainly due to the lead time of chassis delivery from USA. 	<ul style="list-style-type: none"> UNDP is following up for the delivery schedule.

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	fire trucks and first responders' vehicles)	assistance to the States located in the Babeldaob Island.	<ul style="list-style-type: none"> Organize training on use and maintenance separately. 	
Output 2	2.6 Provide key disaster responders and Search & Rescue institutions with 2 portable man packs HF radio	Provide key disaster responders and Search & Rescue institutions with 2 portable man packs HF radio	<ul style="list-style-type: none"> Activity completed. 	<ul style="list-style-type: none"> Activity completed.
Output 3	3.1 Provide emergency backup power for schools as evacuation centres (Low tech off grid electrical power system for three schools in Sonsorol, Pulo Anna and Hatohobei, Southern most islands).	This will involve procurement of 3 solar panel systems to be installed in three schools of the South western islands of 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"> The evaluation of the bids for solar power is ongoing. Awarding of contract is expected to take place in April 2020. 	<ul style="list-style-type: none"> Finalize and sign Evaluation Report for solar panels. A sustainability plan is to be developed by MoE.
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	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	<ul style="list-style-type: none"> The trip to conduct survey in Hatochobei State was conducted from March 8 - 13, 2020. The trip provided relevant information on the level of impact of climate change on coastal sites and burial site. 	<ul style="list-style-type: none"> Implementation of the project and outcome are expected to be completed by November 2020.

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	(PCCP) for Climate & Disaster Resilient Low Emissions Development.	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"> Expected deliverables are expected to be completed by December 2020. The two intervention projects are expected to be completed by November 2020.
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 water shortage due to droughts or any deficiency in the water system.	<ul style="list-style-type: none"> Ten months to manufacture and two for delivery. The long production lead time is mainly due to the lead time of chassis delivery from USA. Organize training on use and maintenance separately. 	<ul style="list-style-type: none"> UNDP is following up for the delivery schedule.
Output 3	3.4 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	<p>The Fire Department facilities will be improved.</p> <p>Following critical vehicles will be purchase</p> <p>a) NWSO pick up, b) 5 Tones pick up,</p>	<ul style="list-style-type: none"> Construction of boat for emergencies near to completion. The Bureau of Public Works (BPW) presented a new proposal in the extension of 	<ul style="list-style-type: none"> Delivery of the boat is expected in April. BPW to start to the procurement of the construction of Palau Fire Department shed.

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	well as to support evacuation and humanitarian assistance in case of disasters.	c) 1 NEMO Vehicle d) 1 Boat	<p>the conference room and Fire Department and new drawing are being developed.</p> <ul style="list-style-type: none"> • Evaluation of procurement of vehicles has concluded, awaiting for approval. • Procurement of a radio and other accessories for the boat 	<ul style="list-style-type: none"> • Contract of procuring vehicles to be concluded.
Output 3	3.5 Purchase of Search and Rescue Equipment	Provide the Fire and Rescue Division with a Search and Rescue Equipment	<ul style="list-style-type: none"> • Search and Rescue Equipment is expected to arrive last week of June. 	<ul style="list-style-type: none"> • Delivery of Search and Rescue Equipment .
Output 3	3.6 Conduct a Protection, Gender and Social Inclusion in Disaster Risk Management training	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	<ul style="list-style-type: none"> • Please see 1.7 above. 	<ul style="list-style-type: none"> • Please see 1.7 above

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		inclusion consideration in humanitarian assessment tools.		
Output 3	3.7 Conduct PDNA and DRF Training of Trainers to key government sectors		<ul style="list-style-type: none"> • PDNA training was conducted from 3 to 7 February with participation of 18 men and 16 women. 	<ul style="list-style-type: none"> • Activity completed.