

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 December 2020	Next Action
Output 1	1.1 Install VHF and HF radio 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</p> <ul style="list-style-type: none"> • HF system • 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 • Education : needs HF email. 	<ul style="list-style-type: none"> • Evaluation for radios was completed, awaiting for UNDP internal approval. • Shipments from Delairco Japan KK (Japan) and Australia have arrived to Palau and handover to the end user. 	<ul style="list-style-type: none"> • ETA of the last shipment from the United States is 24 January. • Once the radios arrive to Palau, a telecom expert will check the equipment and do the programming. • Discuss with PNCC and NEMO on the installation plan. • Discuss with Delairco and National Stakeholder on training prior to the installation.

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		<ul style="list-style-type: none"> • Hospital : needs HF email • VHF system • Kayangel, Peleliu and Angaur. <p>Other equipment involves battery bank, solar panels, battery and supply charger</p>		
Output 1	1.2 Install tsunami and multi-hazard warning sirens 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.	<ul style="list-style-type: none"> • PNCC concluded the selection of the vendor for Multi-Hazard/Tsunami Early Warning Siren Systems but still in process to officially award it. 	<ul style="list-style-type: none"> • PNCC to award the bid.
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 equipment will be installed in State Government property land, and the maintenance will be done by the NWS technical officers	<ul style="list-style-type: none"> • NIWA submitted to the National Weather Service Office a first report which provides photographic documentation of all hardware and associated components that have been shipped to Palau. 	<ul style="list-style-type: none"> • Delivery of AWS to Palau. ETA February 2021 • Calibration certificates, instrument manuals and training videos will be transferred to NWSO in

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		(by using the 13 technical officers in main station and the 5 observers in the field).	<ul style="list-style-type: none"> A galvanised pipe mast section did not fit the container and NIWA and NWSO will try to source it locally. 	<p>coordination with the arrival of the equipment in Palau.</p> <ul style="list-style-type: none"> The NWSO technicians in Palau will assemble the complete station, including connecting and testing all the sensors, and communications systems in four different locations.
Output 1	1.4 Install 2 wave rider buoys to determine ocean conditions and surface wave monitoring	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. The wave rider buoys will be strategically located East sides of the country.	<ul style="list-style-type: none"> PacIOOs recieved the two acoustic releases and one deck unit from Edgetech for Palau. Both are being stored on the UH campus in a PacIOOS office. Datawell is preparing the buoys for shipment via ocean freight to Honolulu to fabricate for Palau. 	<ul style="list-style-type: none"> Expected arrival for buoys in HNL is March 2021. Narrow down the coordinates for the buoy location with additional local partners knowledgeable about local ocean conditions and instrument requirements.
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	<ul style="list-style-type: none"> Two technical conferences were organised between the company Jaggard, BDA and UNDP. 	<ul style="list-style-type: none"> UNDP to finalized the contract with the company. Bureau of Domestic Affairs to ensure PPUC increase the transformers on the site.

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		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.		<ul style="list-style-type: none"> • Survey of the site awaiting for technical workers to arrive to Palau. • Coordinate and confirm the date of the 1st field survey.
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"> • This activity has no update this month. 	<ul style="list-style-type: none"> • Meeting to be schedule with all relevant national partners (PCC, PNCC, PEA, NEMO) and telecom expert to agree on possible content.
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	<ul style="list-style-type: none"> • Red Cross, IFRC, SPC, NEMO, Omekasang and UNDP are working in the development of the methodologies for the training. 	<ul style="list-style-type: none"> • Finalize the material and session presentation for the training. • Endorse list of participants.

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		instruments currently used for data collection in humanitarian assistance.		<ul style="list-style-type: none"> • Training is scheduled in February 2021.
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> <p>computers and software, multimedia equipment, communication equipment (telephone, WIFI and fibre optic, if possible).</p>	<ul style="list-style-type: none"> • Evaluation Panel for the procurement of ICT equipment was confirmed. • Clarification on the power outline of NEMO was made among CIP, BPW, NEMO and UNDP. 	<ul style="list-style-type: none"> • Conclude evaluation of bid for ICT equipment.
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"> • Civil works under implementation. 	<ul style="list-style-type: none"> • Continue construction works for refurbishment of EOC.
Output 2	2.3 Conduct LIDAR Imagery remote sensing mapping over key and vulnerable locations.	The Office of the Palau Automated Land and Resource Information System (PALARIS) is the main counterpart to	<ul style="list-style-type: none"> • Fugro shared the first deliverable Palau Project Inception Report. 	<ul style="list-style-type: none"> • Conclude evaluation of offers for drone and GPS

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	High Resolution Digital Elevation Models (DEM) for Inhabited Coastal Areas developed	prepare a topographic map (1m resolution) for the islands of Kayangel, Babeldoab, Koror, Peleliu, Angaur, Sonsorol and Hatothobei (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"> • A Kick-off meeting with Fugro was organized on 9 December. • Drone and GPS procurement are under evaluation. • 4 Laptops and 5 desktops for PALARIS were handed over. 	<ul style="list-style-type: none"> • Official handover is schedule for 14 January.
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 storage 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). .	<ul style="list-style-type: none"> • Status 70% completed. Delivery to be extended for this unit to end January due to chassis supply matters. 	<ul style="list-style-type: none"> • Finalization of manufacturing.

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	fire trucks and first responders' vehicles)			
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"> Shipments from Delairco Japan KK (Japan) and Australia have arrived to Palau and handover to the end user. 	<ul style="list-style-type: none"> ETA of the last shipment from the United States is 24 January. Delairco team of expert to come to Palau to train MoE, PPUC and PEA for the installation of the equipment in Southwest Islands. Discuss with Delairco and National Stakeholder on training prior to the installation.
Output 3	3.2. Restoration and protection of cultural heritage sites in coastal communities rated high risk (Palau Historical Preservation Office, Vulnerability	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	<ul style="list-style-type: none"> UNDP is following up with MCCA to refund unexpended advance for the first installment. 	<ul style="list-style-type: none"> MCCA to refund the unexpended advance. Expected deliverables to be completed by March 2021 The two intervention projects are expected to be completed:

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	Assessment) – in line with Palau Climate Change Policy (PCCP) for Climate & Disaster Resilient Low Emissions Development.	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.		1) Intervention Kukau el Bad and 2) Iporu burial site in Tobi.
Output 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"> • The Elliptical tanker is 90% completed. 	<ul style="list-style-type: none"> • Inspection and shipping arrangement of the elliptical tanker.
Output 3	3.4 Supply and upgrade critical infrastructure to enhance the capacity of disaster risk management).	The Fire Department facilities will be improved. The following critical vehicles will be purchased to improve their capacity to access the areas where the monitoring equipment will be installed	<ul style="list-style-type: none"> • The construction of roofing at Koror Fire Department by BPW started. 	<ul style="list-style-type: none"> • Progress on construction of roofing at Koror Fire Department by BPW.

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		as well as to support evacuation and humanitarian assistance in case of disasters: a) NWSO pick up, b) 5 Tones pick up, c) 1 NEMO Vehicle d) 1 Boat e) Search and rescue		
Output 3	3.5 Provide food preservation to vulnerable communities	Provide food preservation to vulnerable communities	<ul style="list-style-type: none"> Activity canceled and funding relocated to purchase of Search and Rescue Equipment which was delivered. 	<ul style="list-style-type: none"> No further action required
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 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.	<ul style="list-style-type: none"> Please see 1.7 above 	<ul style="list-style-type: none"> 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"> Activity completed. 	<ul style="list-style-type: none"> Activity completed.