







SEVENTH MEETING OF THE PACIFIC METEOROLOGICAL COUNCIL (PMC-7)



### Agenda item: 10.5 VanKIRAP



## Update on the Vanuatu Climate Information Services for Resilient Development Planning Project

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### **Purpose of the Paper**

1. To provide update on the activities, progress and achievements of the Vanuatu Climate Information Services for Resilient Development Planning (VanKIRAP) project.









## **Background**

- 1. The Climate Information Services for Resilient Development Planning in Vanuatu project, locally known in Bislama as the Vanuatu Infomesen blong redy, adapt mo protekt (VanKIRAP) project, is a USD\$18 million Government of Vanuatu initiative, funded by the Green Climate Fund (GCF) through SPREP as the accredited entity (AE). The project implementation is led by the Vanuatu Meteorology and Geo- hazards Department (VMGD) with support from SPREP, APCC, CSIRO and BOM. The project lifespan is from 2018 to 2025.
- 2. The project is <u>using science</u> to <u>better prepare</u> Vanuatu's policy makers and local communities in the last mile for a changing climate.
- 3. VanKIRAP <u>builds on and complement</u> the previous and current activities in Vanuatu such as the Republic of Korea Pacific Islands Climate Prediction Services (ROKPI CliPS Phases 1 and 2), Pacific Australia Adaptation to Climate Change Science and Adaptation Planning (PACCSSAP), Next-Generation Climate Projection for the Pacific (Next Gen) project, and the Climate and Ocean Support Program for the Pacific (COSPPac).









## **Objectives**

- 1. The VanKIRAP project embarks to institute a paradigm shift to standardize the use of science-based climate information. This is seen as a necessary base to underpin awareness raising and long-term policy planning around climate change.
- 2. This project <u>expands</u> the use of Climate Information Services (CIS) in five targeted climate sensitive sectors: **tourism, agriculture, infrastructure, water management** and **fisheries** identified in the Vanuatu Framework for Climate Services.
- 3. Specific project goals include building technical capacity to harness and manage climate data, developing practical CIS tools, fostering their use and disseminating tailored climate information.
- 4. Total budget = USD 18 million grant from the Green Climate Fund, a flagship project for SPREP and VMGD.









## **Update**

- Total grant funding (GCF) = USD\$ 18 million
- Co-financing (Vanuatu Government) = USD\$ 3,682,000 million
- Total disbursement received = USD\$15 million
- Remaining funds with GCF = USD\$3 million
- Remaining cornerstone activity for FY2024 to FY2025, Weather Radar System = USD \$3.19 million.









### **Update**

- 1. The project has strengthened the Vanuatu weather and climate observations network with the installation of 8 automatic weather stations (AWSs) and 8 automatic raingauges (ARGs) in partnership with NIWA.
- 2. A new ocean monitoring network (6 ocean buoys) has been established to monitor sea surface temperature, wave heights and direction to support ocean services. The new network complements the sea level monitoring gauges in Port Vila, Luganville, Tanna and Malekula.
- Basic hydrology functions of the Vanuatu Water Resources Department re-established through the installation of a river monitoring gauge at the Sarakata river in Luganville, Santo, Sanma Province and building the technical capacity of DoWR with a Tideda hydro database and standard operating procedures.
- 4. A network of groundwater monitoring sensors have been installed within the Sarakata river catchment with telemetry capability to stream near-real-time data to the Tideda database.
- 5. A citizen science program for schools has been established to monitor and collect rainfall observations and traditional knowledge data in 30 locations in Tanna, Malekula and Ambae.
- 6. To enhance the capacity of the infrastructure sector, the project has supplied the Vanuatu Public Works Department with a DJI Matrice 300 drone aircraft with LIDAR and photogrammetry capability. The project is now collecting LIDAR data with two NZ certified drone pilots. •









# TailOred System of Climate Services for AgRiculture: The OSCAR System



#### Mobile version



### Lite version



(https://oscar.gov.vu/)

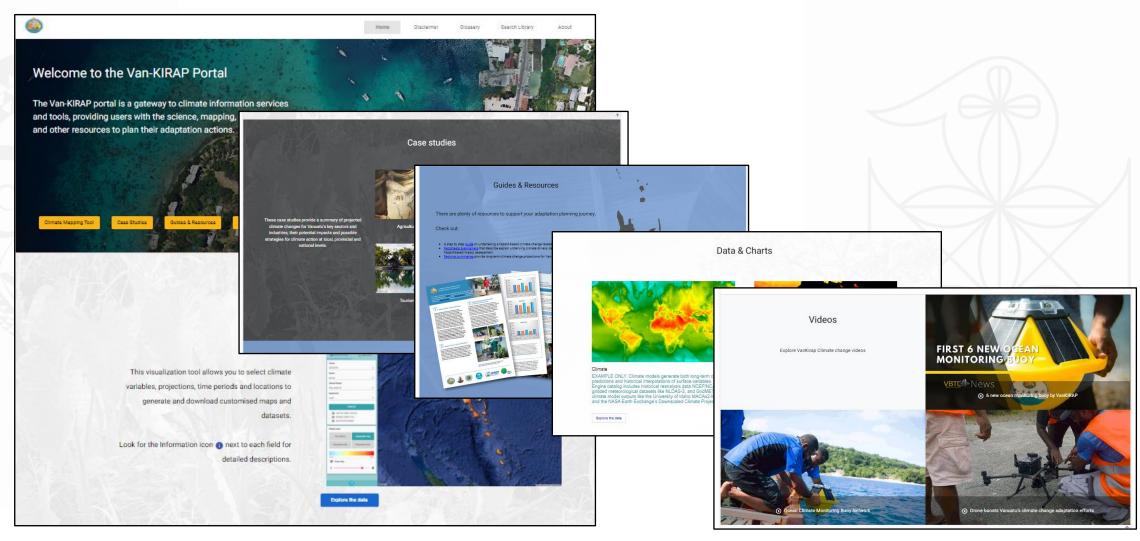








### Vanuatu Climate Futures Portal



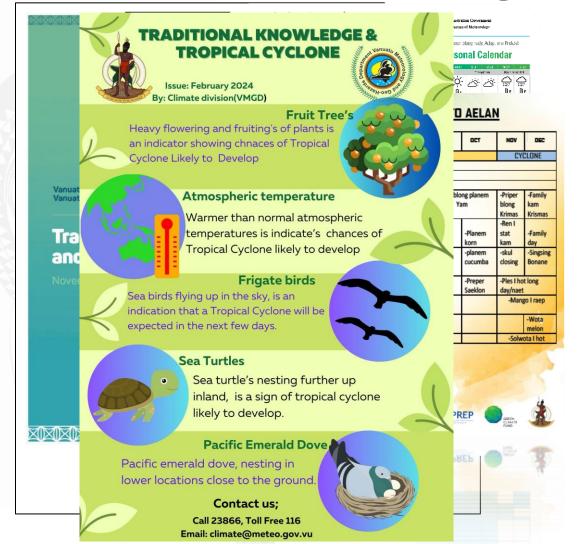








### **Traditional Knowledge**



- Traditional Knowledge Strategy
- National TK Indicator booklet
- TK Indicators Climate relationship guide
- Provincial TK calendars (6)
- Community TK calendars
- ClimateWatch App (Citizen Science), Eng|Bislama, 20 TK Indicators and Guides
- Come to our CW App Side Event on Wednesday 18 Sep 2024, evening walk along the Warwick trail.









### **Recommendations:**

### The Meeting is invited to:

- Note the update and the significant progress made by the VanKIRAP project.
- **Acknowledge** the leadership demonstrated by the Vanuatu Meteorology and Geohazards Department and delivery partners for their work in the implementation of the VanKIRAP project and outcomes.
- Recommend that the project lessons learnt, and cutting-edge CIS tools developed for Vanuatu can be replicated and upscaled in a VanKIRAP Phase 2 under the One Pacific Programme (OPP) to benefit other NMHSs.