













4th Pacific Meteorological Council Solomon Islands 14 – 17 August 2017

AGENDA ITEM 14.3: PACIFIC RESILIENCE PROJECT

Joint Presentation by Samoa And Tonga:

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Pacific Resilience Programme - PREP OBJECTIVES

- Strengthen early warning and preparedness;
- Create a framework for stronger and prioritised investments in resilience and retrofitting of keypublic assets to meet internationally recognised resilience standards; and
- Improve the post-disaster response capacity of the countries through strengthened financial resilience to disaster events.





PREP draws from

- regional strategies for DRM and CC including the Framework for Climate and Disaster Resilient Development in the Pacific, Pacific Islands Meteorological Strategy 2012–2021
- Pilot Programme for Climate Resilience (PPCR), Pacific Catastrophe Risk Assessment and Financing Initiative (PCRAFI)

Priorities aligned to

- National action plans for Disaster Risk Management and Climate Change
- Strategies for national development
- Climate Resilience Investment Programmes and Plans





Programme Description:

1. Strengthening early warning and preparedness

2. Risk Reduction and Resilient Investments

3. Disaster Risk Financing

4. Programme / ProjectManagement

Investments in EW and Preparedness

Risk reduction and resilient investment planning & preparation

Disaster risk financing instruments

Project Management

Regional TA to strengthen impact forecasting and preparedness Regional platform to support risk reduction and resilient investment planning

Development of Mutual Insurance Fund Regional
Coordination &
Programme
Management







- 1. Strengthening Early Warning and Preparedness
- 1.1. Investments in early warning and preparedness strengthen:



- (i) detection, forecasting and warning of the impact of natural hazards;
- (ii) dissemination of timely warnings to the population, including last mile communication;
- (iii) emergency preparedness and response mechanisms



- 1.2. Regional tools to support impact forecasting and preparedness
- (i) develop operational hazard models for forecasting of impacts of extreme events including tropical cyclone, storm surge, flooding at subnational level
- (ii) Strengthen preparedness and response capacity
- (iii) Support post disaster needs assessments





2. Risk Reduction and Resilient Investments

- 2.1. Risk reduction investment planning and preparation of multi-sectoral investment plans to
- (i) set clear priorities (short, med., long term) and progress indicators;
- (ii) prepare feasibility studies for selected priority investments for Phase II or financed by other donors.
- (iii) finance entry level resilient investments, such as the retrofitting of public buildings

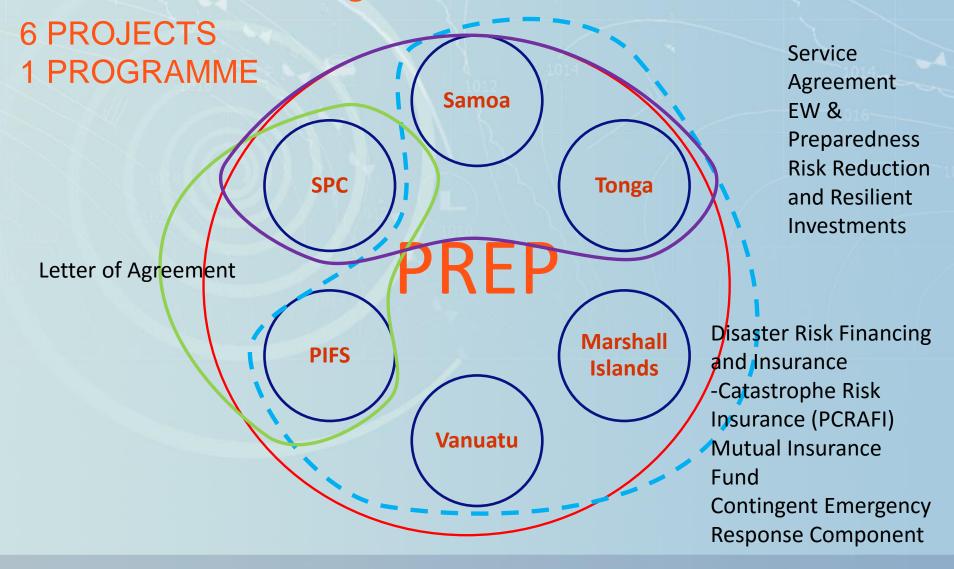


- (i) Strengthen risk data and information systems and decision support tools
- (ii) Test applications and decision support systems for resilient planning and investments at national level
- (iii) Develop an Integrated Community Based Approach for Climate and Disaster Resilience
- (iv) Innovative knowledge sharing to strengthen current investments





Pacific Resilience Programme







PREP TONGA - 16.8 Million USD



Modernization of observation infrastructure, data management system, forecasting and warning systems

Upgrade of the seismic network, including GPS for volcano and earthquake monitoring.

Upgrade of data management, communication, and ICT systems

- Marine and community communication infrastructure for Met., NEMO and NRD;
- Integrated data management systems
- Strengthening of A3Z AM Radio Station (AM Radio full coverage of Tonga)

Improvement of MHEWS,

- Computers, software, visual tools for MHEWS at TMS with interactive displays at NEMO&NRD
- Computers, software for volcanic and seismic monitoring + visualisation back up sys. at NEMO&Met.

Reconstruction/construction and refurbishment of facilities,

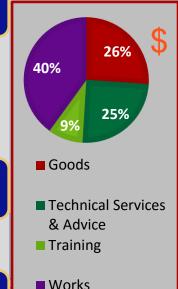
- HQ for TMS and NEMO facility;
- Island Fmergency Onerations Centers

Systems Integrator Consultant



Comp. 2 & 3 Min. of Finance

Depart.



PREP TONGA - 16.759 Million USD Arrangements Comp. 1 (68%)

Enhancement of the MHEWS Service Delivery System

Expansion of the MHEWS services to sectors

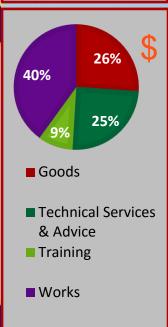
- developing, improving and operationalizing new public weather information services, such as nowcasts and drought advisory services,
- services provided on a cost-recovery basis such as advisories to the aviation
- improving the means of delivering services to communities and individuals (including more vulnerable members of the population, women, children and the elderly), incorporating the development of new mobile applications
- user feedback on the quality of services through public and sector specific surveys.

Support of MHEWS operations including introduction of impact forecasting

- developing SOPs, warning protocols and signals, operational training and drills
 - agreed with all stakeholders, including communities
- conducting vulnerability assessments for each identified hazard and for the entire country;
- introducing, piloting and evaluating impact forecasting techniques and warnings;
- Stockpiling of emergency goods to enhance preparedness and response capacity.

Comp. 1 (68%)
MEIDECC
Tonga Met.
Services
Nat. Emergency
Management
Office;
Natural
Resources
Depart.

Comp. 2 & 3 Min. of Finance



Regional TA – Strengthen Impact Forecasting and Preparedness

PREP SAMOA - 13.9 million USD

Institutional Strengthening, Capacity Building and Implementation Support

Drafting of the Samoa Meteorology Division Bill

Modernisation of observation infrastructure, data management system, forecasting and warning systems

- Upgrade of 3 AWS and Lightening Detection System incl. comms link
- Upgrade of seismic/volcanic monitoring capability and communication link
- Extension of the Seismic Operation Centre
- Telemetry link for existing river gauges to the Met. Office (real time data)
- Upgrade of data management, communication and IT systems incl. backup operational forecasting platform
- Improvement of nowcasting, coastal forecasting, seismic & drought monitoring and hydro-met. modelling

Enhancement of MHEWS Service and Preparedness Delivery System

- Expand MHEWS service to sectors including the means of dissemination to communities including women, children and people with disabilities
- Improve MHEWS service SOPs, trainings, drills, mobile applications and effectiveness surveys

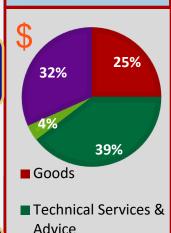
Systems Integrator Consultant

Min. of Natural Resources & Environment – Disaster Management Off. Samoa Met. Division Water

Arrangements Comp. 1 (66%)

Comp. 2 & 3 Min. of Finance

Resources Div.



■ Training

Works

Recommendations

The Meeting is invited to:

- Note the Pacific Resilience Programme, its objectives and components and how it contributes to strengthening early warning and preparedness through the implementation of multi-hazard early warning systems (MHEWS) platforms, procedures and systems in participating PICs to increase resilience to climate change and disasters;
 - the regional approach that it has taken to implement its activities building on existing capacities of participating countries' National Weather Services and National Disaster Management Offices;
- Request Pacific Meteorological Council Members to support the PREP approach as best practice in anticipation of future incoming resources for non-participating countries to implement multihazard early warning systems



