

Project Title: **Satellite Based Telecommunications System for Disaster Management and Climate Change Applications for the South Pacific Island Nations.**

Source of Proposal: Japan Telecommunication Engineering and Consulting Service Japan

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Brief Description

The Pacific Ocean Region comprise of ~30 thousand islands scattered over approximately 54 million square kilometers of ocean, Of which approx.12 thousand islands are inhabited. Most of the Pacific Island Nations are a combination of small islands having vast distances between them, and with sparse populations.

Due to geographical locations with climatic conditions, Pacific island Nations are extremely vulnerable to climate change. The region is also strongly affected by natural hazards, causing disasters that affect national and social development. The adverse effects of climate change are a threat to the sustainable development, and the long-term effects of climate change may endanger continued existence of some islands. Increased atmosphere and ocean temperatures, greater rainfall variability, as well as increased frequency and intensity of extreme weather events may cause sea levels to rise

The Pacific will be leading this process as it will be the first region in the world to fully integrate Disaster Risk Management and Climate Change into a single overarching policy framework in 2015

Considering the developments in the pacific framework, this project presents to develop optimum cost, reliable, disaster management and early warning communications system for the socio-economic development of the Pacific Islands region utilizing satellite based network.

In an effort to achieve appropriate return on investment, the same ICT infrastructure and resources for emergency telecommunications to be used for usual ICT network services including; climate change data gathering, distance education support and public awareness information transmission to ensure public safety before, during and after any disaster strikes the area.

Beneficiary Countries

South Pacific Island countries

Project Objective(s)

Telecommunication's Requirement for Pre and post Disaster

Roles of Communication System (ICT)

- To gather/transmit seismic/meteorological, climate change data
- To share information on ensuing disaster risks
- To disseminate warning message to residents

- To create Public Awareness by providing training local inhabitants through regular drills and communication

Expected Results

Capable of monitoring and control all the countries disaster information Nationwide and monitor information of the region. Availability of ICT services and applications in e-commerce, Homepage building, e-Education, Agriculture/Fisheries and Health sectors. Community people able to use internet homepage

The network system when deployed will benefit more than 80% of population and improve quality of life, by increasing level of education with improved ICT services. The project will significantly increase access to affordable ICTs in 16 countries in the region in order to facilitate a technological environment in which all people, in both urban and rural areas, are able to gain maximum benefit from the opportunities offered by ICTs.

In line with the creation of national ISPs and IXPs and increasing national and international Internet connectivity, the project will strengthen the capacity of the countries concerned by providing cost-effective access to the Internet.

Estimated Start Date

January 2015

Estimated Duration

48 months

Estimated Budget

USD 22,000,000

Main Activities

- Installation of multi hazards monitoring stations: Volcano, climate & marine environment observation;
- Construction of all necessary links from the stations to the national and regional networks;
- Enhancement & upgrading of the existing networks in areas where there is volcanic & climate monitoring facilities;
- Every national and their state (provincial) Headquarters to facilitate with equipment to monitor volcano, weather status. climate change, and marine environment observation activities;
- Reporting, documenting of successes & lessons, replication for other similar threatened settings in small island nations;
- Wide scale capacity building with training of: Chiefs, villagers, community disaster committees members and local staff in villages and in Small Island.