

## TABLE ONE

## **BALI "PLAN OF ACTION"**

Key Strategies	Action Item	Suggested Action / Timeline
5. Enhance national and regional efforts in	5.1 Member countries are encouraged to use	Need clarification on broadband.
improving the infrastructure and use of ICT	broadband to enhance the dissemination of	Wireless broadband is recommended as
for public safety and disaster management	disaster warnings.	compared with fixed line.
including disaster preparedness, relief and		
recovery efforts.		Recognizing difference technologies in
		different countries and integrate these into
		effective use of the system.
		Create recommendation/resolution to keep PPDR spectrum.
		Take into account accessibilities for people disabilities. (use W3C accessibility guidelines)
		Other technologies such as broadcast radio, loudspeakers can be applied. The focus shall not be limited to only Broadband.
		Broadband infrastructure is required. Require funding assistance.
		Simple means are required now and broadband can come later.
		Assess the reliability of wireless broadband

More a govern into the storeho commu manage regiona best pra- countri Create disaster anyone all disa Provide email b (Yahoc cellpho cellpho	an APT portal for public access. All r mgmt orgs are linked here so that e in Region 3 can access one portal for aster info. e the government an easy way to do an proadcast to all ISPs and email servers b, Gmail, etc), twitter, etc when required e the government an easy way to do a one SMS/text broadcast to all ones in the affected area when required a Recommendation or Resolution to PDR (narrow, wide and broadband)
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5.2 Member countries to strengthen disaster	Exclusive availability to emergency staff.
preparedness and effective use of broadband	Service providers should be able to flag
infrastructure in disaster communications at	emergency.
national and regional levels.	
	Licensing structure provision infrastructure for
	disaster communication and to enable
	emergency service to gain access to.
	More training course should be conducted by
	APT to help the countries in mastering of the
	new technology. Awareness of ICT for
	disaster management among the average
	citizens is important. Against this, APT is
	requested to launch social experiment and
	pilot project towards this.
	Have a dedicated government-owned
	broadband network
	Promote more cooperation and agreements
	among neighboring countries with common
	disasters
5.3 Member countries to consider the	Baseline framework should be developed by
development of national emergency ICT	APT and there should be commitment from
plans.	the countries to implement.
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	National emergency ICT plan to be developed.
	internet entergeneg ver plan to ee aeveropea.
	The plan should be developed to give full
	consideration of security, robustness of the
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	<ul> <li>system, the traditional technology and appropriateness of the system.</li> <li>APT to consider program to provide consultancy in developing plan for HRD.</li> <li>For those countries who have plans, share and promote them to those countries that don't have them</li> <li>For those countries who don't have plans, go create them!</li> <li>APT could provide a basic emergency ICT plan as a template for countries to start building from</li> </ul>
5.4 APT to establish ties with national and regional disaster management agencies in strengthening member countries disaster preparedness, relief and recovery efforts.	APT should catalogue what available and identify leading expertise in the region. APT should strengthen its ties with ITU, ESCAP and other agencies, especially within the framework of the Interagency Working Group on ICT where APT is co-convening, and other existing initiatives in the region. APEC, ASEAN, PITA, ADRC, ADPC etc should be also partners for APT.

	5.5 APT to disseminate the information and assist in human resource development on disaster mitigation, preparedness, management and communication.	Create a directory, organized by disasters, of all disaster mgmt agencies for reference Create a directory of equipment suppliers and their support numbers for immediate support APT to continue the program and activities on Disaster Management. Engage the leading expertise to provide HRD/Technical support. More training workshops should be organized by APT to support the establishment of the proposed database, so that the APT members could help the enrichment of the base and possible setting up of branch database at the national level. Create more workshops, training, etc for poorer countries Create an APT website for reference materials Create procedures and share
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## TABLE TWO

## Workshop on Disaster Management/Emergency Communications Recommendations

Issue	Suggested Action
Alerting Methods	Undertake a survey of systems in use including cost, advantages, disadvantages, protocols/guidelines for use then disseminate in a useful format but promote need for multi-modality.
	Common number/Common siren-sound/common sign to be used.
	Use of low tech equipment to complement the high tech equipment.
	Emergency Communications: one shall be look into the possibility of using multimodal (IP-based). CAP and alerting method adopted by ITU are part of multimodal system.
	APT should organize technology workshops in the future in venues close to the alerting centers such as national warning centers, community emergency response units so that people get more exposure to such facilities.
	APT to make assessment of existing warning systems in various countries.
	Need for accessibility for people with disabilities. Planning should include relevant community organisations
	APT to list out the available methods and technologies and related database shall be created.
	Simple to complicated system/low cost to highly sophisticated system to be studied for

	DCMS. (database)
	APT or similar body could release a request for information to the market to identify low cost, low tech warning solutions suited to developing countries.
Organizational	Developing communication infrastructure.
Organisational	More coordination between international bodies with similar.
	Do stocktake of overlaps in focus, resolutions, etc.
	Sharing information, i.e., database
	Intra-regional cooperation and exchange of expertise between countries.
	To compile a compendium of best practices in emergency communications together with other organizations to reduce cost and produce greater impact.
	One contact point or group should be assigned to manage information on DMCS.
	Too many organizations work on the same thing. It is advised to combine the effort.
lafra atruatura	Based on different approach/grades of systems available, HRD
Infrastructure	Recognize the communication infrastructure as part of critical infrastructure and risk management process.
	Identify the unified/common technologies such as Heli-SAT.

	Consider actions to construct resilience infrastructure.
	Need regional kits when infrastructure damages. Satellite and cellular interoperability is essential.
	Need preposition satellite phone in remote location. Continue to monitor emerging technology and promote low cost option.
Tachaology	Prime technology is radio/wireless methods, WiFi/SAT/WiMAX/Trunked Radio/GRN
Technology	APT to help disseminate the adaptable technology available in the region to the member countries.
	GRN is to be considered.
	Construct the common database for demand and supply of DMCS. Survey and study state of the art technology and low technology including broadband available to DMCS.
	New Zealand's document provides stocktake of various product. APT to conduct survey to member countries to take stock of what available in the region.
	To consider document related to public notification
Policy/Regulation	Policies should be inclusive of all part of communities when planning disaster management. Escalate to higher levels.
	Develop appropriate standard.
	APT to run training courses for those countries in the preparation of emergency communication plans and strategies. APT to disseminate more information for the better

	ratification of the Tampere Convention
	Radio spectrum allocation for PPDR.
	Support Pacific ICT resource center to play role in legislative act regarding emergency warning.
	Useful to combine telecommunications focus with broader emergency arrangement.
Others	Identify appropriate countries/regions/cities to run trials of prototype systems – categoriseby geographic features, population, isolation, type of communications reliant on.More information sharing among APT member countries
Others	More information sharing among AP1 member countries
	Make use of support system, i.e., training, Human resources.
	Information sharing and cooperation between APT and other organizations like ESCAP< ITU, ASEAN.
	Focus on communications and preparedness and response is important.
	Also need a focus on prevention activities
	Distinguish communications between agency and public alerting although noting link.
	Public alerting only as good as situational awareness to allow warning and response of community and agency to alert.
	Educating on awareness and preparedness and training.