



Capacity Assessment Validation Workshop

2024 Tsunami Preparedness Capacity Assessment in Indian and Pacific Oceans Project
Bangkok, Thailand, 4-6 September 2024

How ITU supports?

Early 
Warnings
for All

EW4All: Structure & Objectives

Pillar 1



Disaster risk knowledge

Systematically collect data and undertake risk assessments

- Are the hazards and the vulnerabilities well known by the communities?
- What are the patterns and trends in these factors?
- Are risk maps and data widely available?



Detection, observations, monitoring, analysis and forecasting of hazards

Develop hazard monitoring and early warning services

- Are the right parameters being monitored?
- Is there a sound scientific basis for making forecasts?
- Can accurate and timely warnings be generated?

Pillar 2



Preparedness and response capabilities

Build national and community response capabilities

- Are response plans up to date and tested?
- Are local capacities and knowledge made use of?
- Are people prepared and ready to react to warnings?



Warning dissemination and communication

Communicate risk information and early warnings

- Do warnings reach all of those at risk?
- Are the risks and warnings understood?
- Is the warning information clear and usable?

Pillar 4

Pillar 3

EW4All: Pillar Leads & Partners

Pillar 1  led by



Pillar 2  led by



Pillar 3  led by



Pillar 4  led by



EW4ALL Country Roll Out



Joint roll-out activities in a first cohort of 30 countries,
including 10 countries in Asia and the Pacific region

Bangladesh

Cambodia

Fiji

Kiribati

Lao PDR

Maldives

Nepal

Samoa

Solomon Islands

Tonga

Pillar 3 Checklist for core capacity assessment for formulation of national frameworks on EW4A



GOVERNANCE

Formally regulated functions, roles and responsibilities for each actor

- Legislative advocacy: functions, roles & responsibilities
- Review: WMO Register of Alerting Authorities (RAA)
- Promote: the populating of the RAA

INFRASTRUCTURE & SERVICES

LMC- the warnings reach those at risk using multichannel alert dissemination & communication

- Identify and strengthen channels
- Geo-located mobile early warning services
- Regulatory approach
- Strengthening networks and services
- Private sector partnership investment model

INCLUSIVE APPROACH

Strengthened and expanded alert dissemination and feedback channels reaching all people with actionable information

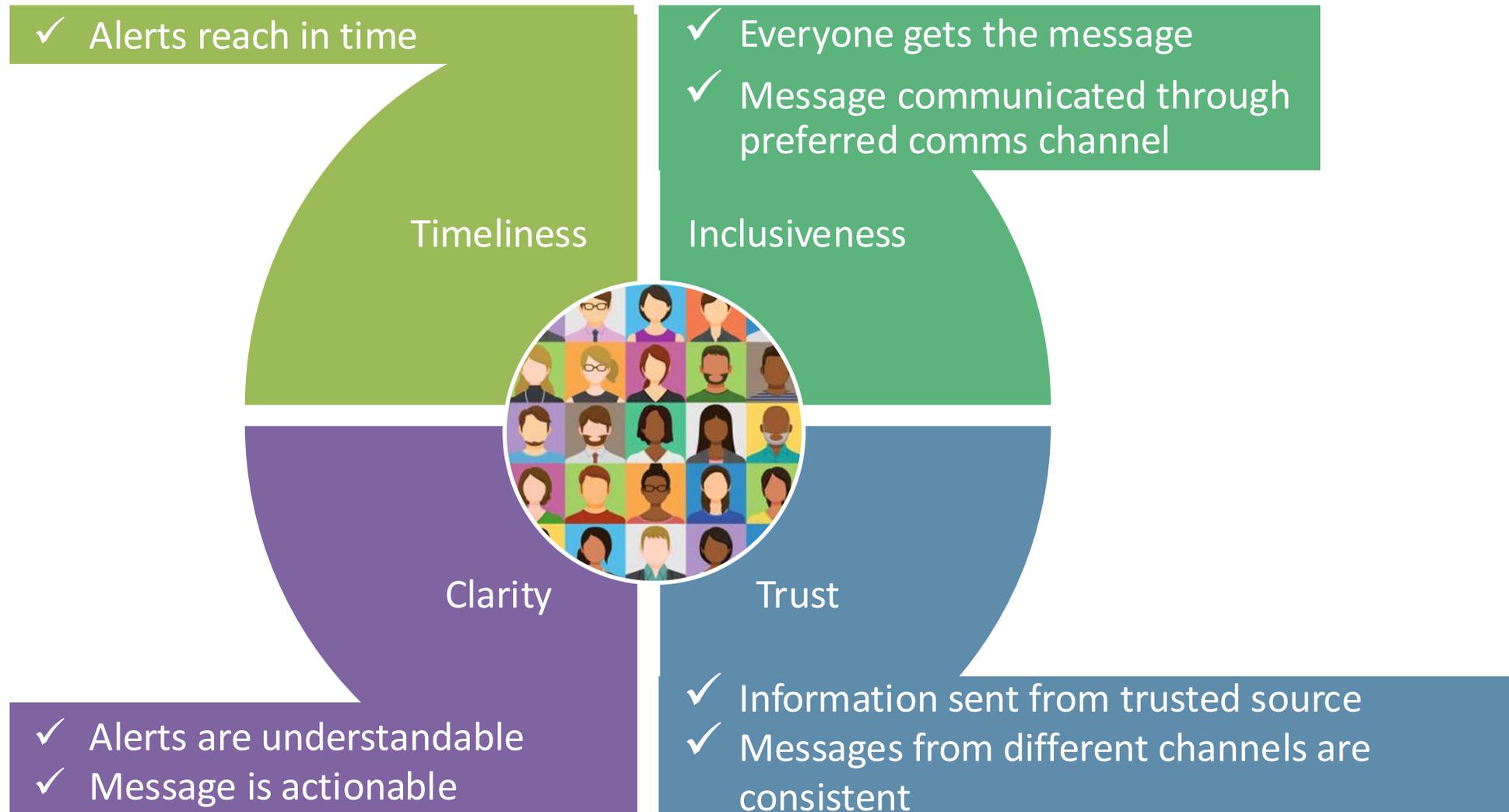
- Leverage existing Indigenous Knowledge Systems (IKS)
- Iterative feedback mechanisms
- Partnership to strengthen intermediaries
- Simplify alerts and make them actionable
- Improve communication improvement

QUALITY AND TRUST

Leverage the Common Alerting Protocol (CAP), suitable for all media and all hazards.

- A CAP Help Desk to support the adoption of standards
- CAP editor and Alert Hubs to enhance alerts
- Support CAP messages in decision making processes
- An attribution statement for redistributors
- Develop global, regional, and national dashboards

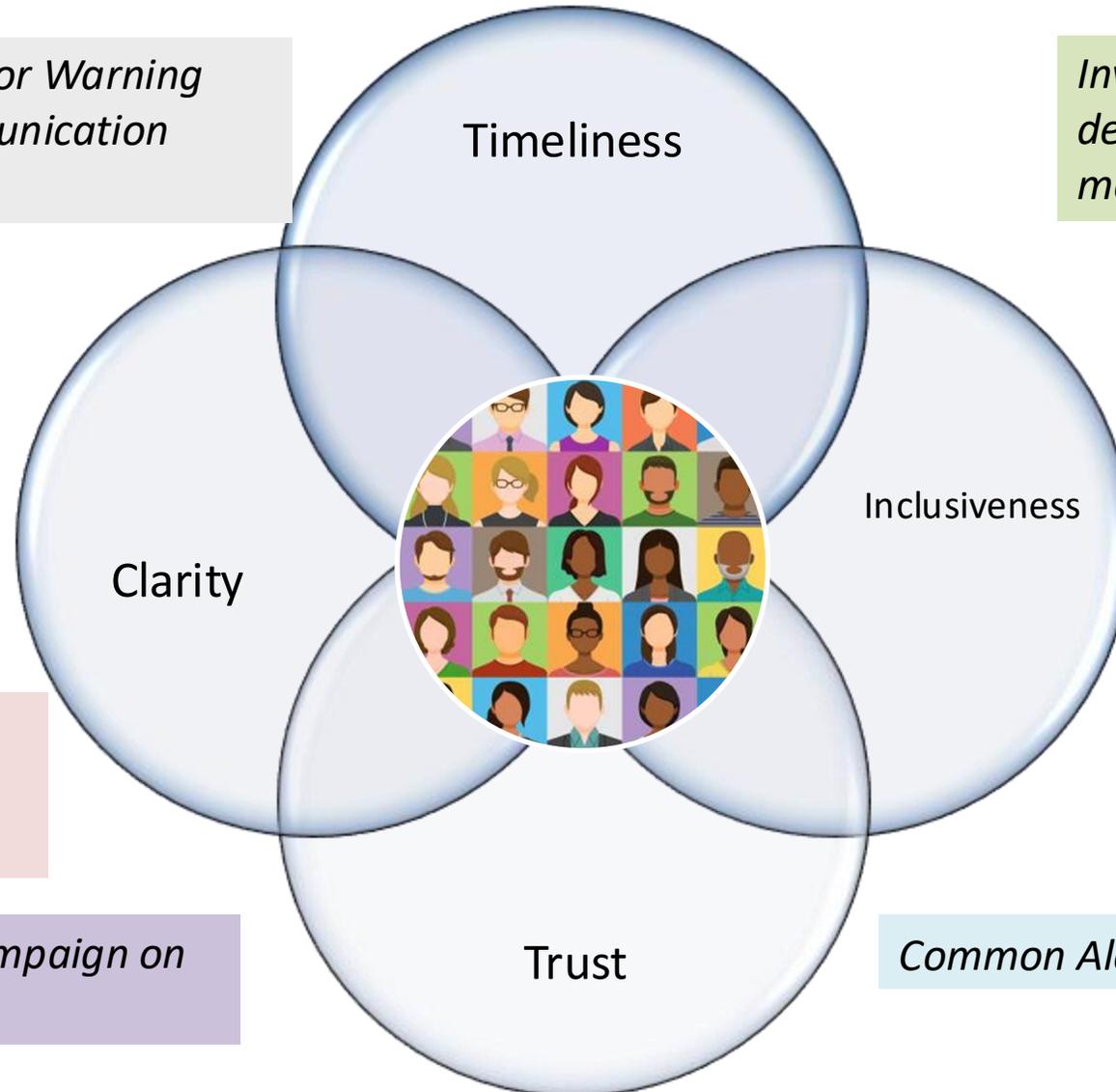
People Centric Approach - Design requirements



People Centric Approach - Solutions

Multi-channel Approach for Warning Dissemination and Communication

Involve communities in designing the warning messages



- *Last mile connectivity*
- *Cell Broadcast*

Using AI

National Emergency Telecommunication Plan

Community campaign on EWS

Common Alerting Protocol (CAP)

Pillar 3 technical assistance

1. Assessment and technical advice:

- Assess current use of different warning dissemination channels (e.g., mobile, TV, broadcast, siren, etc)
- Analyze necessary steps to be taken to implement most appropriate dissemination channels
- Support countries develop bidding document
- Advice on Common Alerting Protocol
- National Gap Analysis on Digital Infrastructure Resilience, Preparedness and ICT service affordability
- Last Mile Connectivity planning

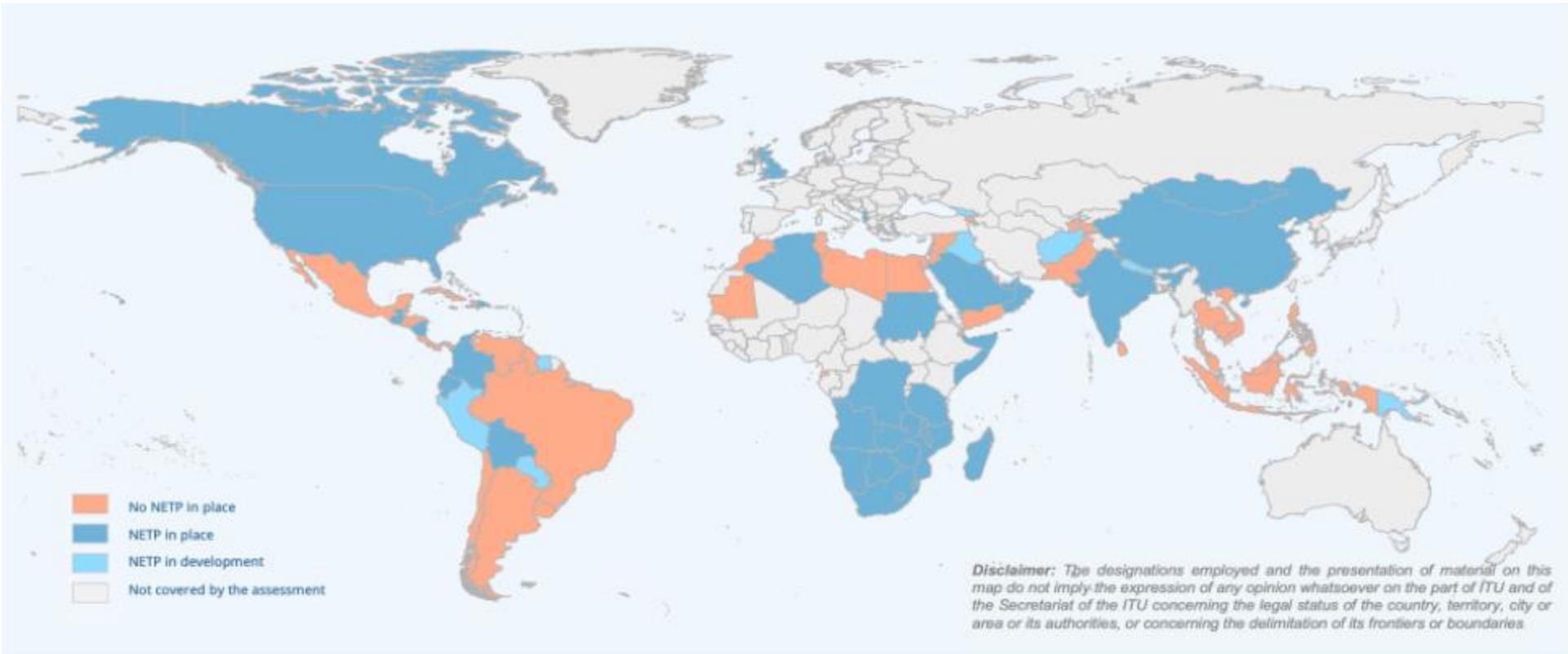
2. Economic scope

- Cost estimation of the roll-out of mobile EWS, and community-level last mile warnings targeting specific vulnerable groups
- Identify possible funding opportunities

3. Regulatory scope

- NETP preparation
- Review and assess the current legislation and SOPs, if appropriate and necessary, propose modifications to the regulatory framework

National Emergency Telecommunication Plan



About **58%** of countries have or are developing a **National Emergency Telecommunication Plan (NETP)**

...out of **100** countries covered by ITU Emergency Telecommunication Baseline Assessments (carried out in 2021-2023)

Thematic reports

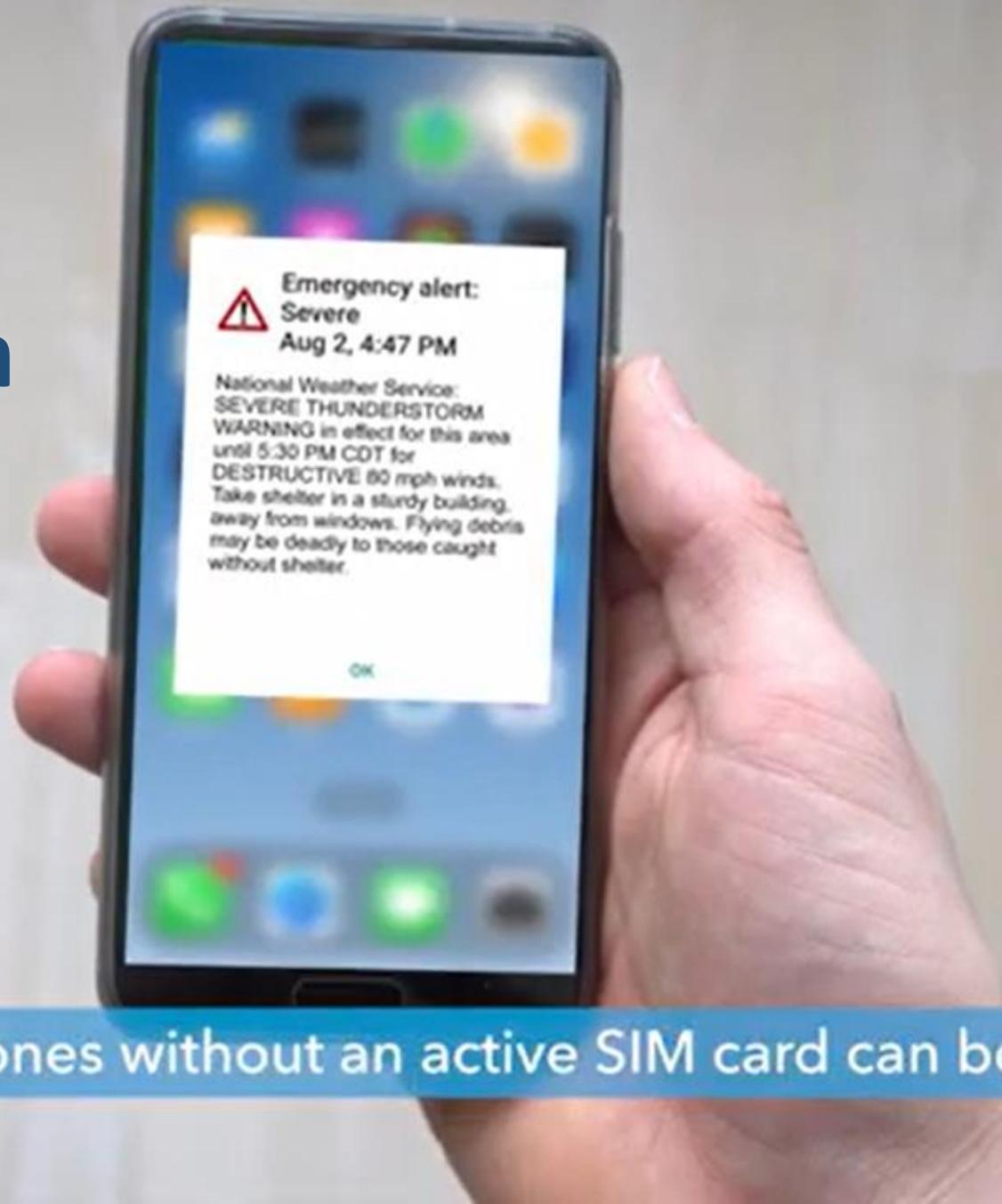
ITU Publications

ITU Guidelines for national emergency telecommunication plans





Implementation of Cell Broadcast



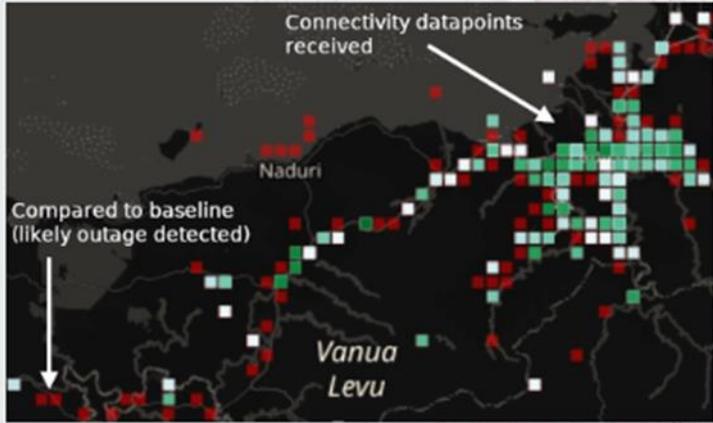
Even mobile phones without an active SIM card can be reached.

The Common Alerting Protocol (CAP) Operationalized ITU-T Recommendation X.1303.



Use of Disaster Connectivity Map (DCM)

Connectivity Indicators



Select which connectivity measurement indicator to display

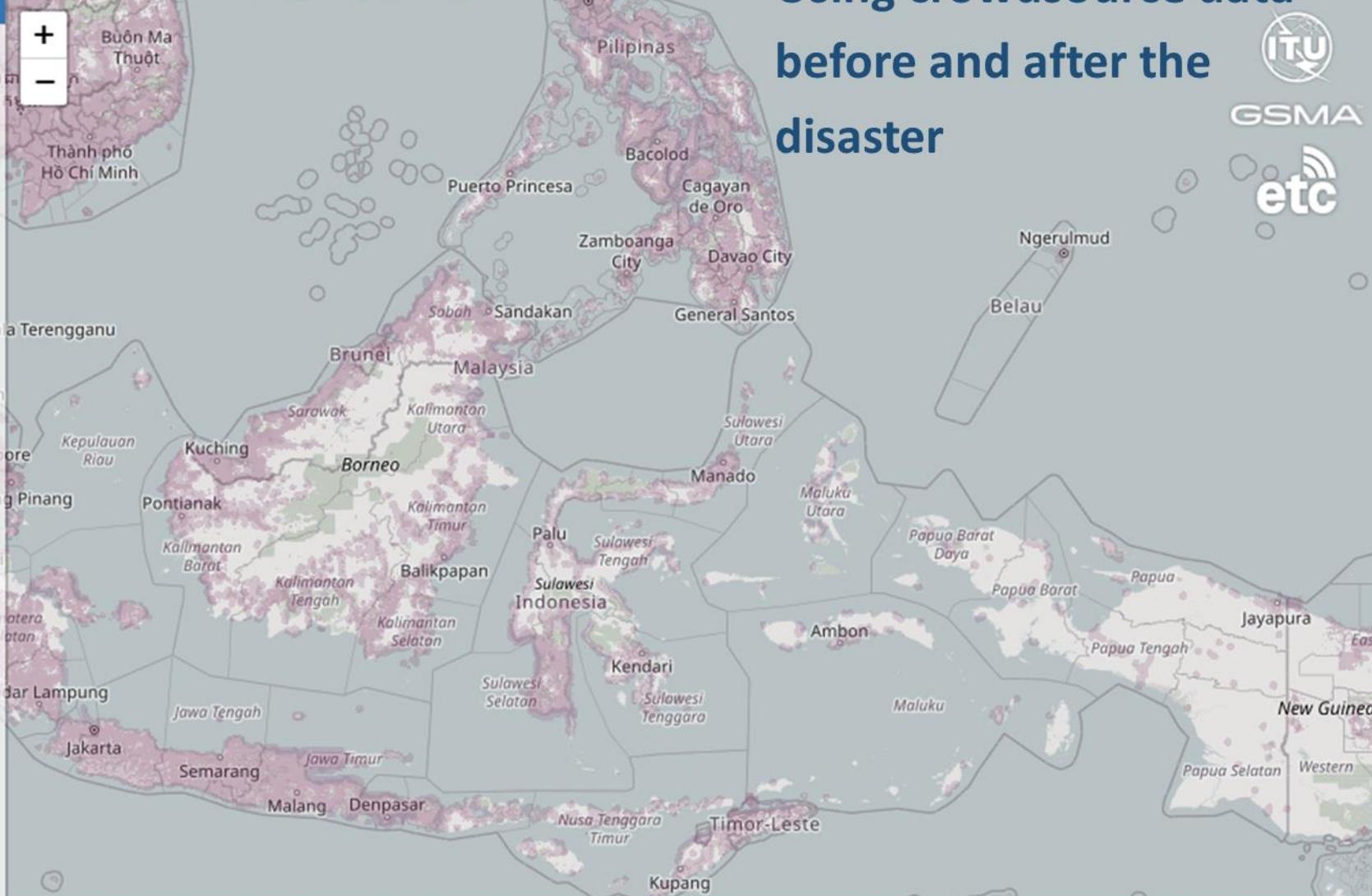
Grid: Mobile coverage detected

- Cellular coverage detected
- Cellular coverage not detected
- Quality of Service baseline

GSM coverage signal strength

- Strong
- Medium
- Weak

Disaster Connectivity Map (DCM)



Using crowdsource data before and after the disaster

Solomon Islands

Early Warnings for All (EW4All) National Consultation for Solomon Islands.

Detailed country evaluation under pillar 3 targeted current gaps in Early warning dissemination and information in Solomon islands.



Tonga

National inception workshop on EW4A in Tonga.

ITU facilitated the stakeholder engagement-based assessment of the current situation of Warning dissemination and communication in Tonga.

NETP draft provided to TONA



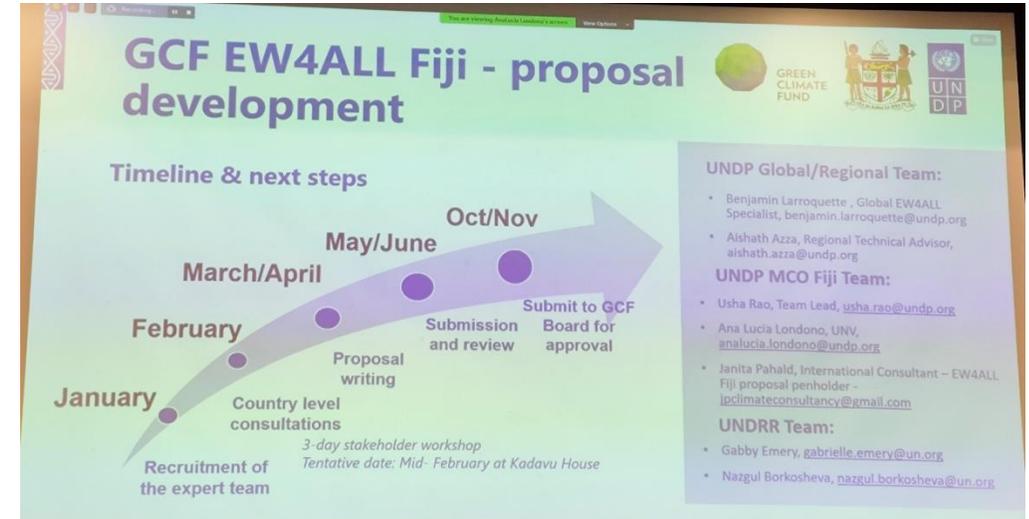
Fiji

EW4A Inception workshop was held Suva, Fiji.

ITU presented technological solutions like CB, CAP, LB-SMS, AI and data analysis.

NETP Development

Draft NETP presented along with 23 action points to be considered by ETC.



Lao PDR

Lao has finalized the roadmap of activities under EW4A

Early Warnings for All

ແຜນດຳເນີນງານການແຈ້ງເຕືອນໄພລ່ວງໜ້າສຳຫຼັບທຸກຄົນ
 ໃນ ສປປ ລາວ ແຕ່ປີ 2024 - 2027
EARLY WARNINGS FOR ALL ROAD MAP 2024-2027

ສປປ ລາວ ພຶດສະພາ 2024
 May 2024 Lao PDR

Cambodia

Pillar Gap Analysis done and inputs to framework of development of EW4A for Cambodia done.

SWOT Analysis – Pillar 3 – Dissemination & Communication

Objective: Achieve early warning systems for all in Cambodia by 2027

	Helpful to achieving the objective	Harmful to achieving the objective
	Strengths	Weaknesses
EW systems & institutions	<ul style="list-style-type: none"> Some level of experience in dissemination and comms 80% geographic coverage 1294 project for all disasters,, 1250 COVID project done by MPTC Good feedback loop information from indicator based information system for health HRF (humanitarian response forum) in cambodia 	<ul style="list-style-type: none"> Some rural, mountainous areas and temple areas are not covered by telcos Broadcast is not consumed Less coordination within departments Fisherman have lesser options to get information
	Opportunities	Threats
Overall EWS landscape	<ul style="list-style-type: none"> Cell broadcast National consolidated feedback system to hear from ground Satellite based regulations NETP and multi-channel integration MPTC should lead ET efforts Digital transformation plan by government can be used to address some weaknesses 	<ul style="list-style-type: none"> Affordability is an issue in the rural areas MPTC or TRC is not involved in disaster management through Telcos Less public information on available services Cost of dissemination of information

Maldives

Training Workshop on Inclusive EW Communication for the Maldives.

The training was organized by Regional Office for Asia and the Pacific (ROAP) of The United Nations Office for Disaster Risk Reduction (UNDRR) from 23-24 July in Male.



Nepal

National Consultation Workshop held

ITU's offering were shared, discussed and included into the draft roadmap



Bangladesh

National Consultation Workshop held

Roadmap being developed

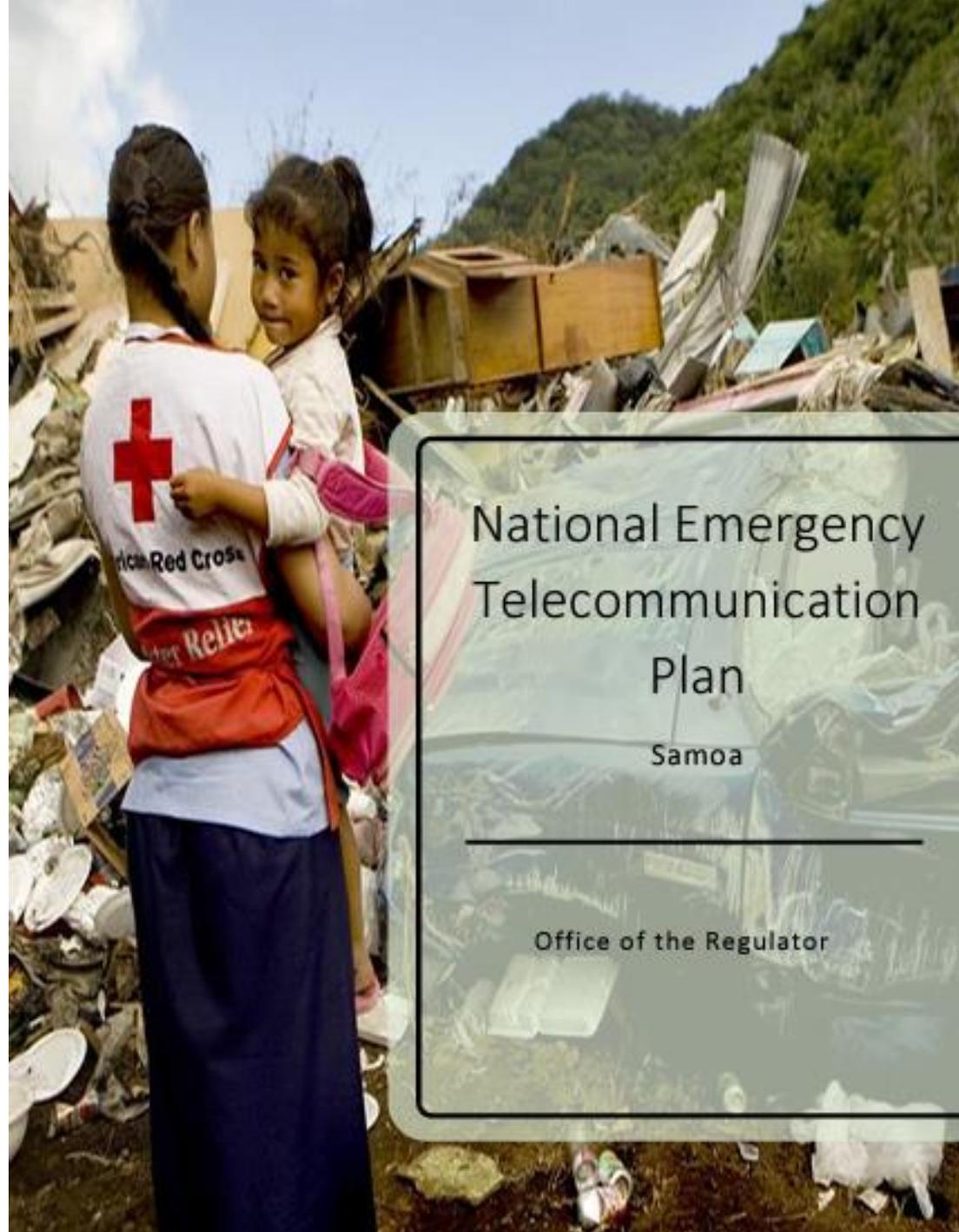


Samoa



**NATIONAL EMERGENCY
TELECOMMUNICATION PLAN
(NETP) - Samoa**

National EW4ALL
workshop is planned for
November 2024



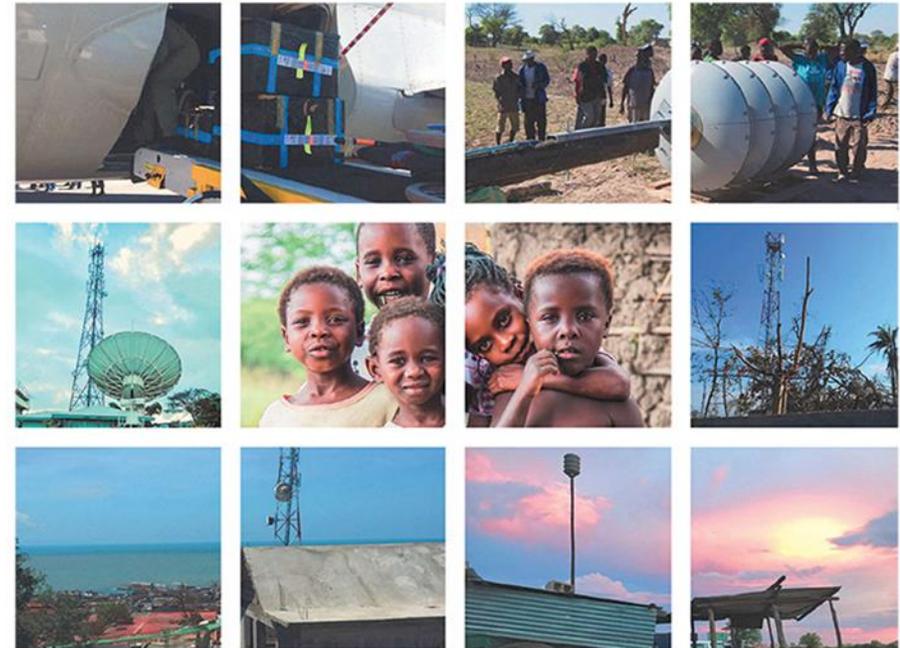
Kiribati



ETC reviewed National Emergency Telecommunications Plan (NETP) prepared by ITU

National EW4ALL workshop is planned for Q4 2024

ITU Guidelines for national emergency telecommunication plans



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THANK YOU

