

#### **DMO SOPs**

- Concept of Operations & Requirements
- Different Types of SOPs
- Working with SOPs

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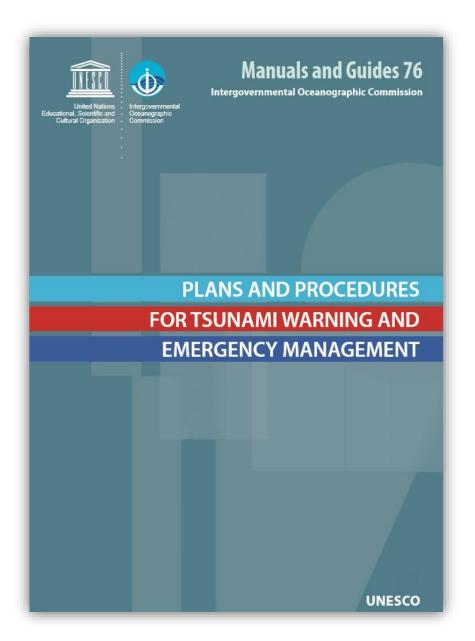
ICG Indian Ocean Tsunami Warning & Mitigation System SOP Workshops July 2023:

Standard Operating Procedures (SOPs) for

National Tsunami Warning Centres (NTWCs) and

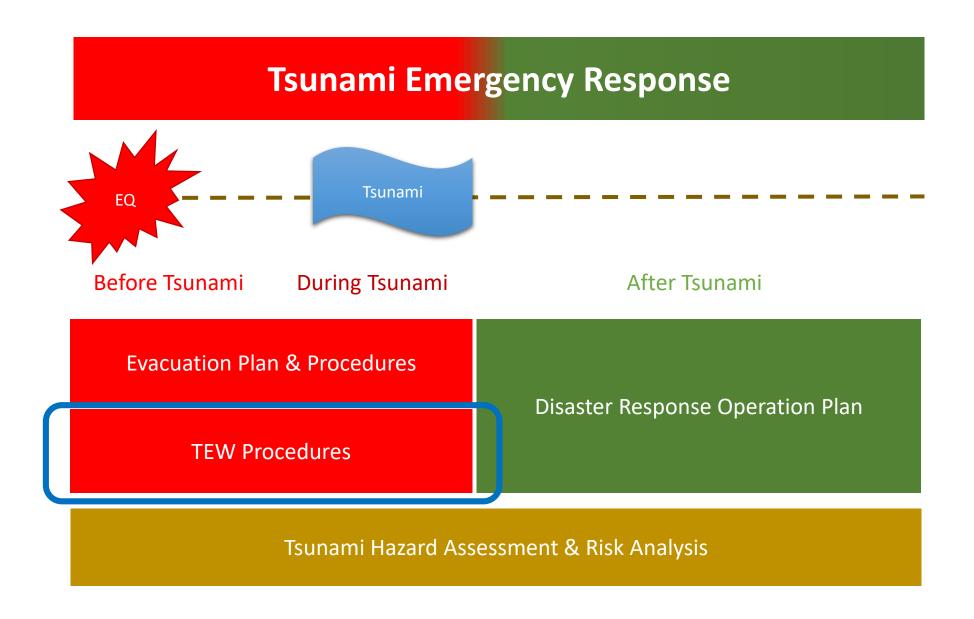
Disaster Management Organisations (DMOs)

#### Reference

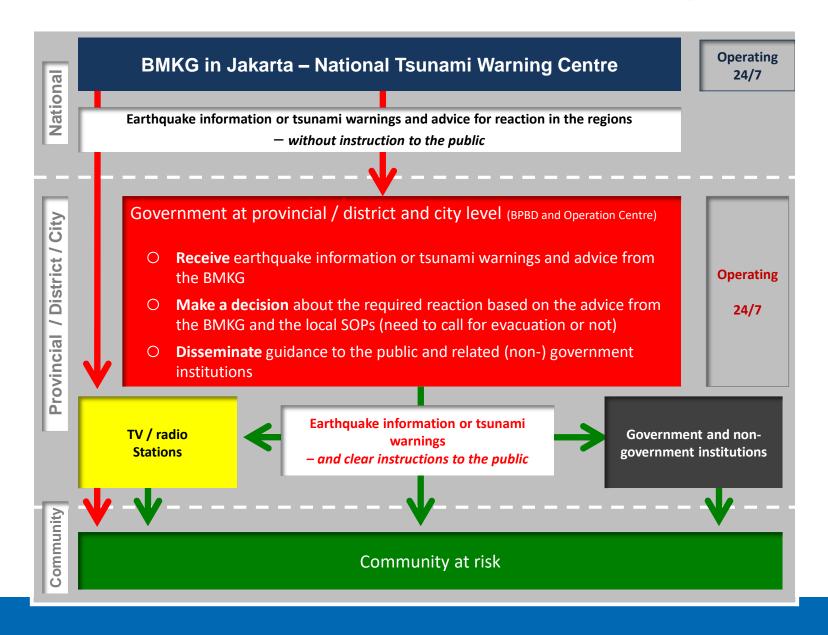




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### **Concept of Operation for DMO tsunami warning services**



## **Legal & Institutional Requirements for DMO or NTWC Tsunami Warning Services**

## Tsunami early warning services

- must operate 24/7
- need to use SOPs
- requires official delegation of authority
- need synchronization of SOPs at the national, provincial, district and municipal levels
- need cooperation between national, provinces, districts and municipalities in delivery of tsunami early warning services and guidance

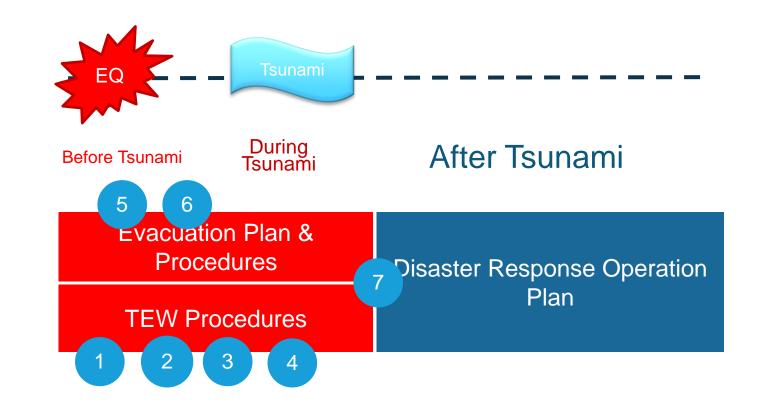
## **Importance of SOPs**

#### SOPs are

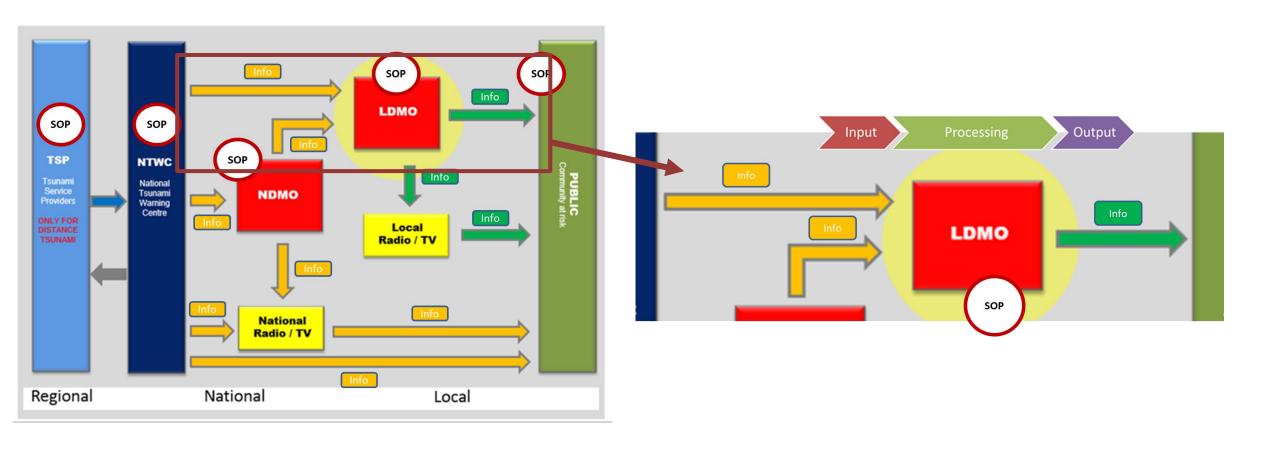
- the foundation of effective, reliable warning systems
- essential for rapid evaluation, warning and response in order to save lives
- linking communications between stakeholder in an end-to-end system. Linkages must be strong and robust or warning chain will be broken
- a "living document". SOPs should be developed, practiced and modified as necessary.

## Different types of SOPs related to Tsunami Emergency Response

- 1. SOPs for receipt of warnings and cancellation messages from the NTWC
- 2. SOPs for decision making on evacuations
- 3. SOPs for public alerting
- 4. SOPs for media arrangements
- 5. SOPs for support evacuations
- 6. SOP for traffic management
- 7. SOP for all clear and safe return

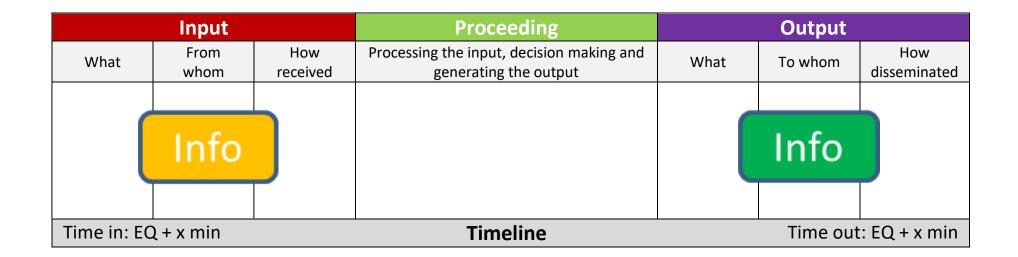


# The logic of DMO SOPs Information products are distributed and processed along the warning chain



## The logic of DMO SOPs in the warning chain





#### **Issues to consider**

## **Decision-making**

- Based on warning information provided by the NTWC
- Tsunami arrival times, determine critical decision point for each source / source region
- How long will it take for a community to evacuate?
- Use a Map & Table for easy reference
- Use Message template for easy fill-in
- Decide when authorization is required? And who will authorize?
- Essential to delegate authority for quick response

#### **Issues to consider**

## **Public Alert System Activation**

- What system for what type of message?
- Step-by-step activation guide
- Support arrangement for duty officer to inform stakeholders when activating public alert system: Emergency Services, Local Authority, Media, activate EOC, take calls

#### **Issues to consider**

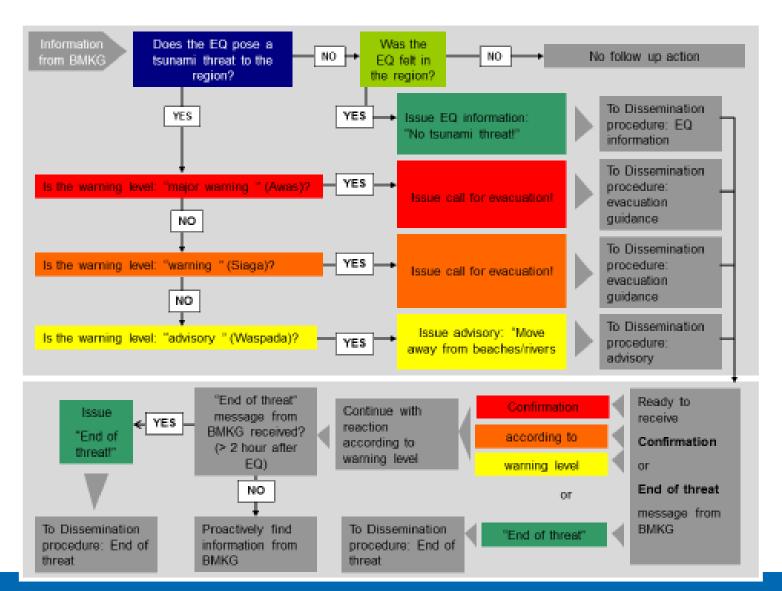
#### Safe return

- When to give 'safe to return' to the public
- Who authorises?
- What are the criteria for "safe to return" how is it determined?
- How will this be issued?

### **Example timeline for DMO SOP (distant source)**

EMA TIMELINE: DISTANT SOURCE TSUNAMI WARNING				
STEP	TIME since EQ*	ACTIVITY	ACTION AND PROCEDURES	
1	15-30 min	Receive 1 <sup>st</sup> Warning from NTWC	Consult with NTWC Assess threat Decide response	
2	35 min	Public alerting	Prepare applicable alert/message Sign-off Send alert	
3	35-50 min	Evacuation	(If applicable): Activate Evacuation Plan	
4	35-50 min	Public Info Mgmt	Activate Media arrangement Info on website Info on social media	
5	35-50 min	Activate NEOC	Request agency representatives Connect with Local EMAs Prepare communication	
6	50 min>	Manage evacuations	(If applicable): Provide shelter/welfare support On-going communication	
7	60-80 min	2 <sup>nd</sup> message from NTWC	Consult with NTWC Re-assess Communicate update	
etc.	etc.	etc.	etc.	

## **Example from Indonesia Flow chart DMO SOP**



Source: Tsunami Early Warning Service Guidebook for InaTEWS, 2012

## **Example DMO Checklist for Warning**

Checklist – Tsunami Warning	
	✓
Duty Team notified	
NTWC consulted	
Response decided	
Alert sent	
Evacuation Plan activated	
Media arrangement activated	
Website updated	
Social media updated	
NEOC activated	
Local EMAs informed	
etc.	

### **Example DMO Checklist for Evacuation**

Evacuation Checklist					
This is a simple checklist to use when doing an evacuation. Make sure to include the date, who filled out the checklist,	Date:				
and the time each task was completed by.	By:	Time:			
Tsunami message received					
Call in staff					
Activate emergency centers / Notify public safety agencies					
Sound public sirens and alarm notifications					
Initiate media notifications and evacuation announcements					
Initiate evacuation of people away from coast (Tsunami Evacuation Maps)					
Put boats/ships out to sea if wave impact time permits					
Setup road-blocks and evacuation routes					
1	1	1			

## **Working with SOPs**

#### SOPs need to be

- strictly followed to ensure a complete and effective performance
- regularly reviewed
- approved

Staff must be trained and their competency at performing the activities as per the SOP should preferably be assessed



## THANK YOU