



unesco

Intergovernmental
Oceanographic
Commission

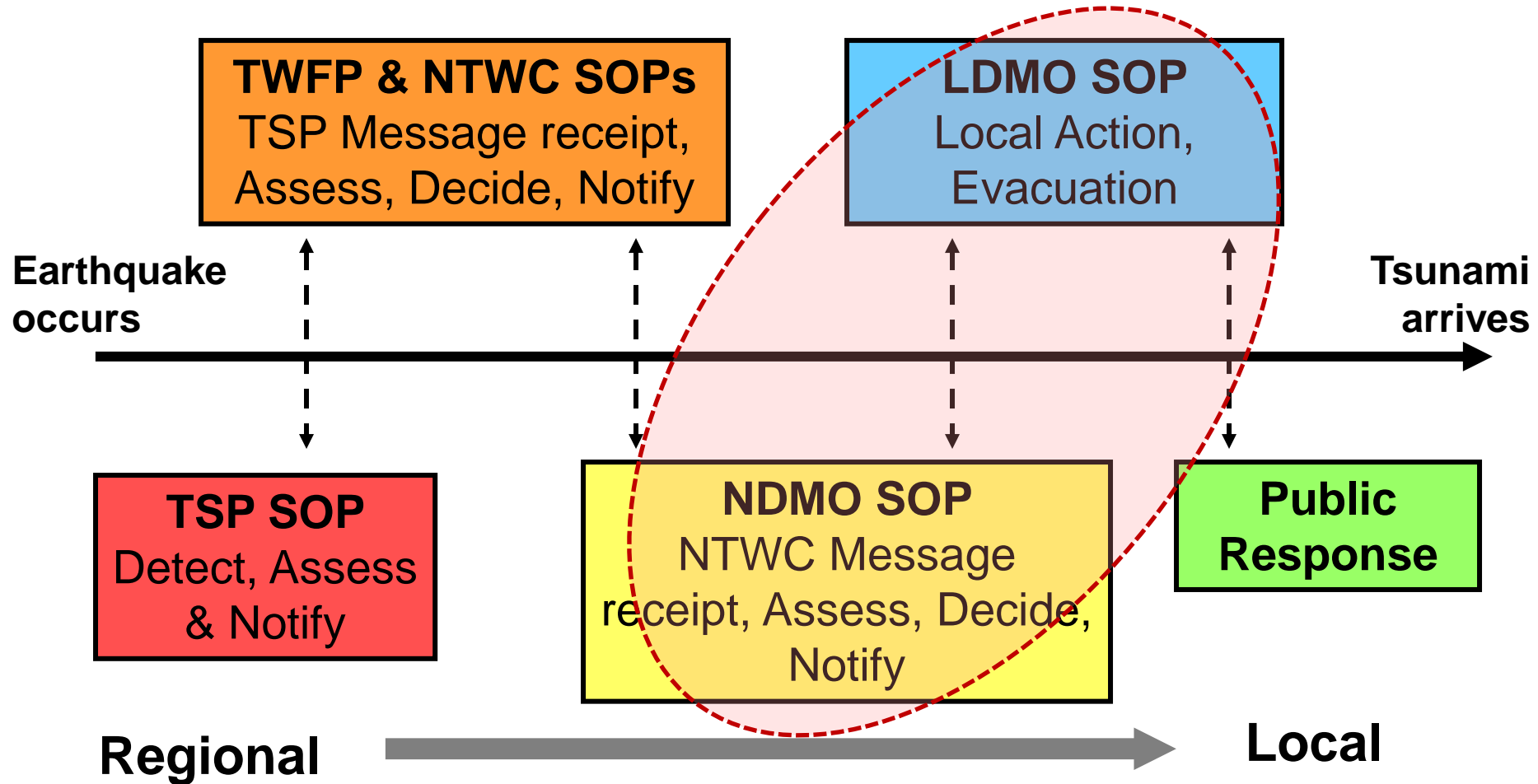
Example of DMO SOP

Ardito M Kodijat
Indian Ocean Tsunami Information Centre
UNESCO-IOC
a.kodijat@unesco.org

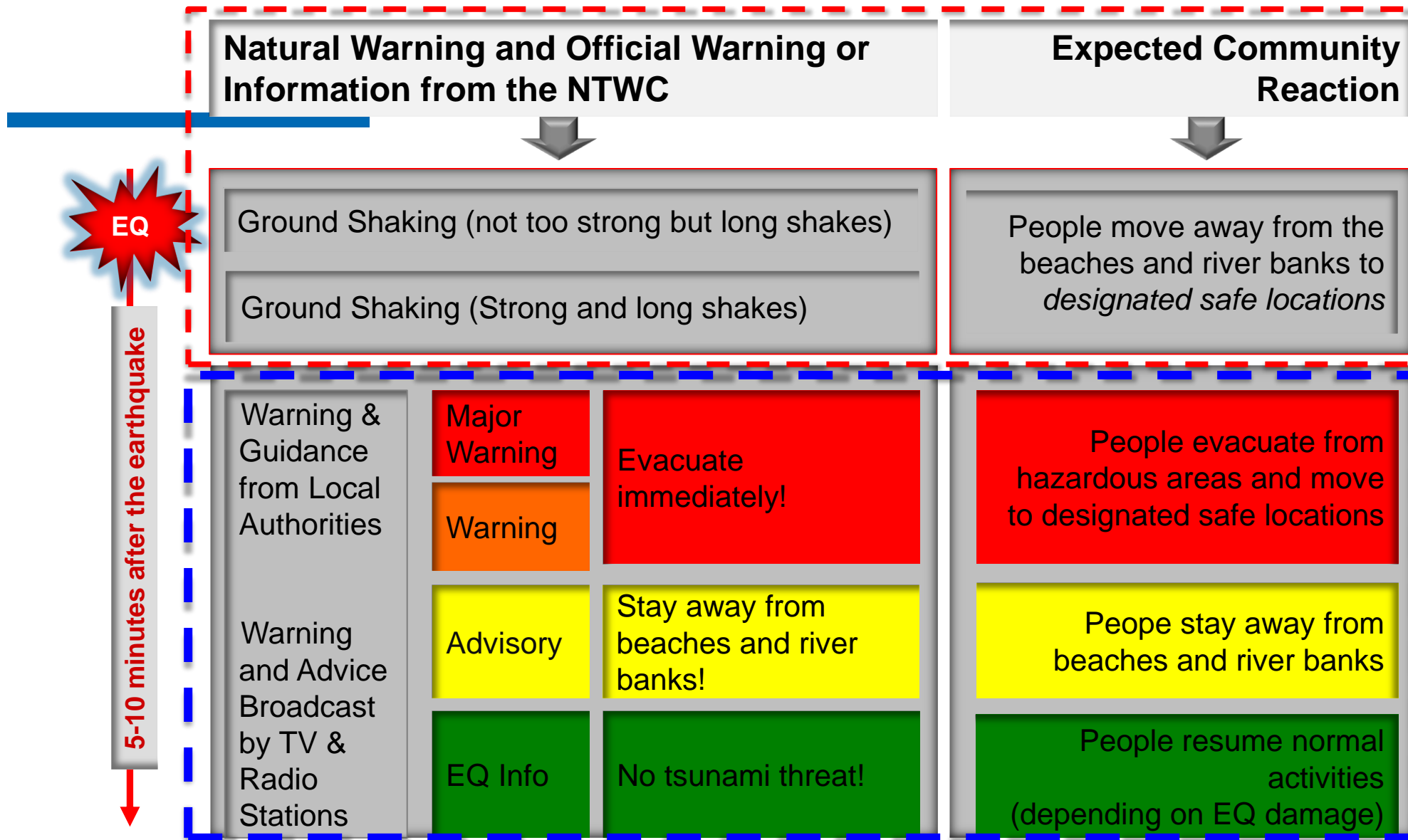


ICG Indian Ocean Tsunami Warning & Mitigation System SOP Workshops July 2023:
*Standard Operating Procedures (SOPs) for
National Tsunami Warning Centres (NTWCs) and
Disaster Management Organisations (DMOs)*

End-to-End Warning SOP – Information Flow



Source: MG76



**SOP TEMPLATE TANZANIA
EMERGENCY RESPONSE
TIMELINE-DRIVEN INFORMATION FLOW SOP**



unesco

Intergovernmental
Oceanographic
Commission

Event Description	WHEN (Time after EQ)	ACTIVITY (WHAT INFO / ACTION)	AUTHORITY (WHO IS RESPONSIBLE)	MEDIUM (HOW TO NOTIFY)	TARGET (TO WHOM)	COMMENTS
	20 min	Receive information - EQ occurrence	From TMA	Email, Phone, sms	TERT Director DMD / Executive Director DMC	
	30 min	Notify key stakeholders, standby 1	Director DMD / Executive Director DMC	Fax, Phone, sms	Key stakeholders (Police, Fire and Rescue, TRCS etc)	For information to other stakeholders – standby 1
	35 min	Share Information of EQ to LAs –be on standby 1	Director DMD / Executive Director DMC	Fax, sms and phones,	Chair of Regional, District and Shehia Disaster Mgt Committees	
	45 min	Receive update on EQ from TMA	From TMA	Email, Phone, sms	Director General TMA	
	50 min	If tsunami is not occurring, stand down.	Director DMD / Executive Director DMC	Fax, email, Phone, sms	Key stakeholders, Chair of Regional, District and Shehia	Stand down
	50 min	Possibility of Tsunami occurrence, standby 2	Director DMD / Executive Director DMC	Fax, email, Phone, sms	Regional, District, Ward disaster management committee Public and Media	Notify that tsunami has been occurred but not confirmed

Event Description	WHEN (Time after EQ)	ACTIVITY (WHAT INFO / ACTION)	AUTHORITY (WHO IS RESPONSIBLE)	MEDIUM (HOW TO NOTIFY)	TARGET (TO WHOM)	
	1:10 hrs	If tsunami will not affect Tanzania, stand down	Director DMD / Executive Director DMC	Fax, email, Phone, sms	Key stakeholders, Chair of Regional, District and Shehia Disaster Mgt Committees	
Tsunami threat confirmed to Tanzania	1.10 hrs	If tsunami threat confirmed by TMA, continue with following actions				
	1.15 hrs	Notify key stakeholders – high alert	Director DMD / Executive Director DMC	Fax, Phone, sms	Key stakeholders (Police, Fire and Rescue, TRCS etc)	Emergency Plan in action
	1.15 hrs	Activation of NEPRP/EOC and NDCS	Director DMD / Executive Director DMC	Phone, VHF radio,	Key stakeholders (Police, Fire and Rescue, TRCS, media, etc)	Set up incident command post higher ground
	1.30 hrs	Activation of shelter (public buildings, safe open ground)	Director DMD / Executive Director DMC	Phone, VHF radio, sms	Key stakeholders (TRCS Police, TPDF, Medical Services, local community etc)	Set up mattresses, food, water, other humanitarian relief
	2.00 hrs	Issue evacuation instructions	Director DMD / Executive Director DMC	Phone, VHF radio, sms	Key stakeholders (TMA, Police, Fire and Rescue, TRCS, media, etc)	Organize themselves to evacuate the public in designated area



unesco

Intergovernmental
Oceanographic
Commission

Event Description	WHEN (Time after EQ)	ACTIVITY (WHAT INFO / ACTION)	AUTHORITY (WHO IS RESPONSIBLE)	MEDIUM (HOW TO NOTIFY)	TARGET (TO WHOM)	
	2.00 hrs	Issue evacuation order for public	Director DMD / Executive Director DMC	Phone, VHF radio, sms	For general public and community at risk along the coast	Key stakeholders (Police, TPDF, KMKM, Fire and Rescue, transport sector etc) guide the evacuation of the public to higher ground
	4.30 hrs	Implementation Evacuation plan and Mass care operations	Key stakeholders (TRCS Police, TPDF, Medical Services, local community etc)	Phone, VHF radio, sms	general public and community at risk along the coast	Guided Evacuation operation
Brace up before impact	5.00 hrs	Final Checkups - Completeness of evacuation	Director DMD / Executive Director DMC	Phone, VHF radio, sms	Key stakeholders (TRCS Police, TPDF, Medical Services, local community etc)	
Impact	6.00hrs	1 st Wave arrives				
	6.30hrs	Provide updates on the Tsunami - possibility of another wave	Director DMD / Executive Director DMC	Phone, VHF radio, sms	Key stakeholders (TRCS Police, TPDF, Medical Services, local community etc)	
	6.35hrs	Rapid Needs and Damage Assessment	Director DMD / Executive Director DMC	Phone, VHF radio, sms	Key stakeholders (TRCS Police, TPDF, Medical Services, local community etc)	

Event Description	<u>WHEN</u> (Time after EQ)	ACTIVITY (WHAT INFO / ACTION)	AUTHORITY (WHO IS RESPONSIBLE)	MEDIUM (HOW TO NOTIFY)	TARGET (TO WHOM)	
Safe to Return	Several hours later	Confirmation of Last Tsunami Wave	Director DMD / Executive Director DMC	Phone, VHF radio, sms	Key stakeholders (TRCS Police, TPDF, Medical Services, local community etc)	
	As appropriate	Issue All Clear and safe return of the people	Director DMD / Executive Director DMC	Phone, VHF radio, sms	Key stakeholders (TRCS Police, TPDF, Medical Services, local community etc)	

For Decision-making

- Based on tsunami arrival times, determine critical decision point for each source / source region
 - How long will it take for a community to evacuate?
- Decide when authorisation is required? And who will authorise? Essential to delegated authority for quick response
- Use a Map & Table for easy reference
- Use Message template for easy fill-in

For Public Alert System Activation

- What system → for what type of message
- Who is responsible
- When to activate
- Step-by-step activation guide
- Support arrangement for duty officer to inform stakeholders when activating public alert system:
 - Take calls
 - Advice Emergency Services
 - Guide Local Authority
 - Inform Media
 - Etc.



unesco

Intergovernmental
Oceanographic
Commission

For Activation of Public Evacuation

- How to activate,
- Who activate and when
- Step-by-step evacuation guide
- Support arrangement for duty officer to inform stakeholders when activating evacuation:
 - Emergency Services
 - Local Authority
 - Community at risk
 - Media

For Safe to Return



unesco

Intergovernmental
Oceanographic
Commission

- When to give ‘safe to return’ to the public?
- Who authorise?
- What is the criteria for “safe to return” – how is it determined?
- How will this be issued?



unesco

Intergovernmental
Oceanographic
Commission

THANK YOU

Ardito M. Kodijat

Programme Officer

Indian Ocean Tsunami Information Centre – UNESCO/IOC

Disaster Risk Reduction and Tsunami Information Unit - UNESCO Jakarta Office

a.kodijat@unesco.org

www.iotsunami.info



Indian Ocean
Tsunami Information
Centre of IOC UNESCO