



*Training/Workshop on  
Tsunami Evacuation Maps, Plans, and Procedures and  
the UNESCO-IOC Tsunami Ready Recognition Programme for the Indian Ocean Member States  
Hyderabad - India, 15-23 April 2025*

# **Tsunami Evacuation Maps, Plans, and Procedures**

## ***TEMPP 12: Principles in Tsunami Response Plan***

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- Ardito M Kodijat, IOTIC IOC-UNESCO
- Harald Spahn, UNESCO-IOC UNESCAP Consultant

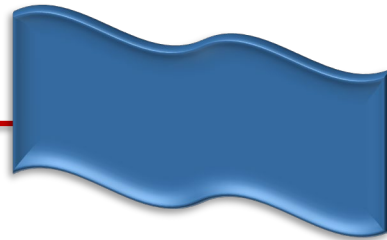
# Tsunami Evacuation Covers Time Span Before and During Tsunami → *Tsunami Contingency Plan*

***Self-Evacuation*** to safe location outside and vertical evacuation shelters inside the tsunami hazard area

***Search and Rescue*** operations, first aid, water and food supplies, allocation of temporary shelters for displaced people etc



EQ



**Before Tsunami**  
(Up to 60 min after the EQ)

**During Tsunami**  
(Up to several hours)

**After Tsunami**  
(from several hours up to several days and weeks)

**Tsunami Evacuation Plan**

**Emergency Response Plan**

**Tsunami Contingency Plan**

# Lessons learned from Transportation Industry

- What is the most dangerous transportation system ?
- What is the safest transportation System ?



- Very Strict in Standard Operating Procedures
- Routine Checking of SOP
- Always explained safety procedures
- Regular training for the responsible person
- Regular Checking of responsible person
- Everybody (involved) is concern of safety
- Strong International Law
- Oriented to provide service (Competition)

# SOP Working Definition

“ A description and procedure on agreed steps by institution (s)/ agency(ies)/ group(s)/ team(s) used in coordinating who, what, when, where and how for tsunami early warning and response”

*From Indonesia Local SOP Workshops: Capacity Building for Development of Local SOPs for Tsunami Early Warning and Response. 2006-2007*

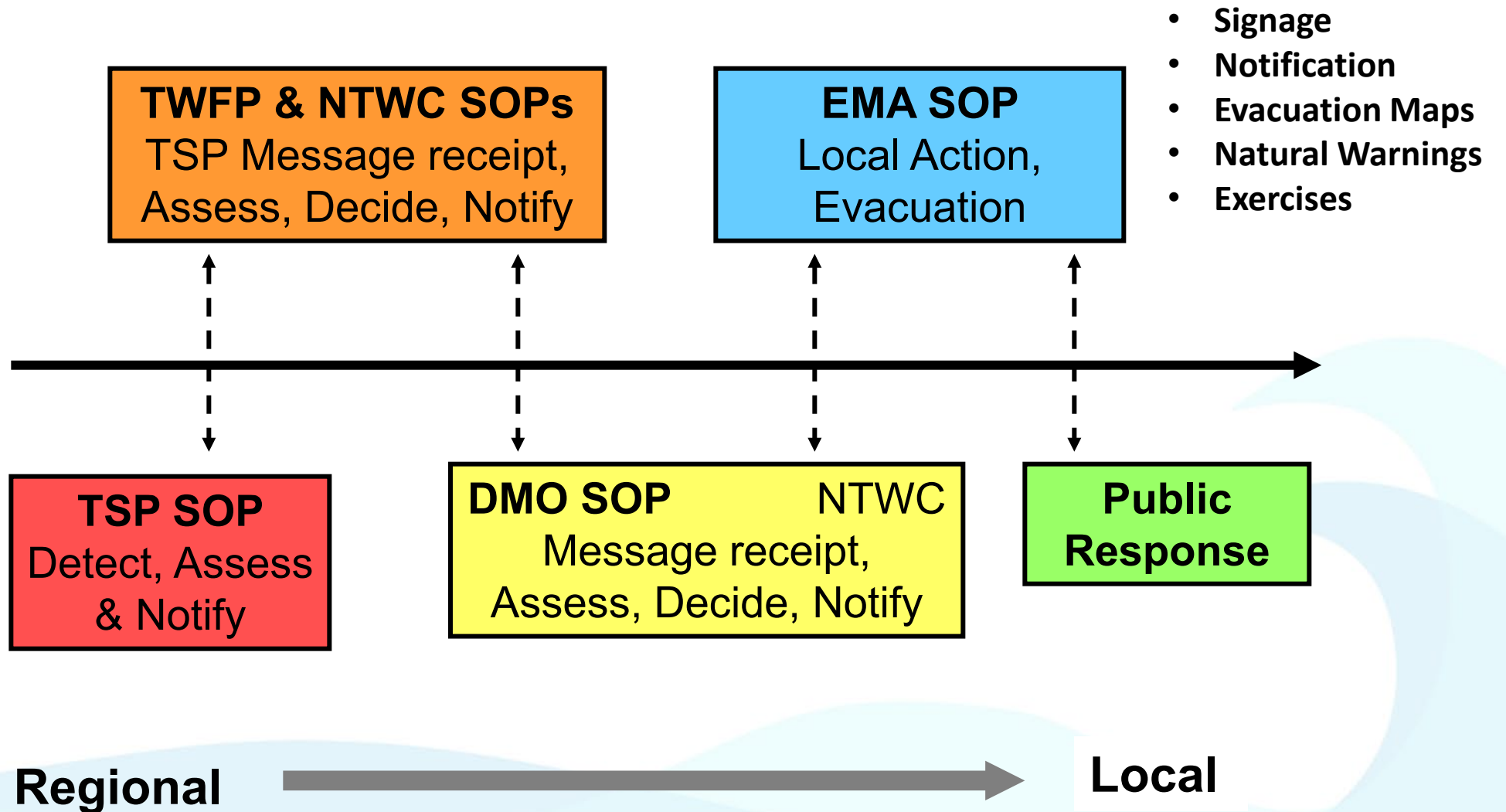
# What are SOPs?

- Set of **written instructions** for routine/repetitive organization activities. Procedure followed in an emergency.
- Detail **work processes** conducted/followed within organization.
- **Document way activities performed** for consistent conformance to system requirements and organisation's mission.

# Why are SOPs important?

- Foundation of effective, reliable warning systems
- All warning systems require SOPs, but for tsunami: **rapid** evaluation, warning and response is essential to save lives
- In an end-to-end system, communications links between stakeholders must be robust or warning chain will be broken
- SOPs should be developed, practiced and modified as necessary – a “living document”

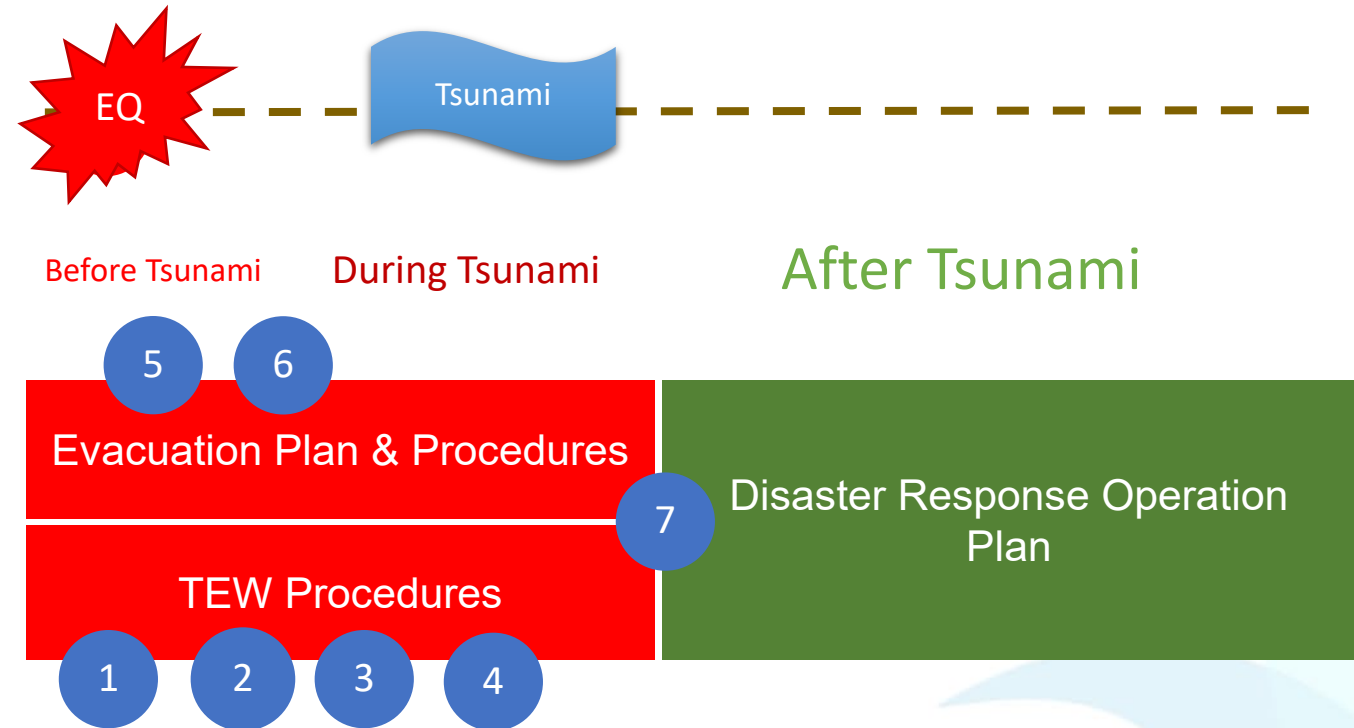
# Tsunami Warning SOPs must be coherent



# SOP Tsunami Emergency Response

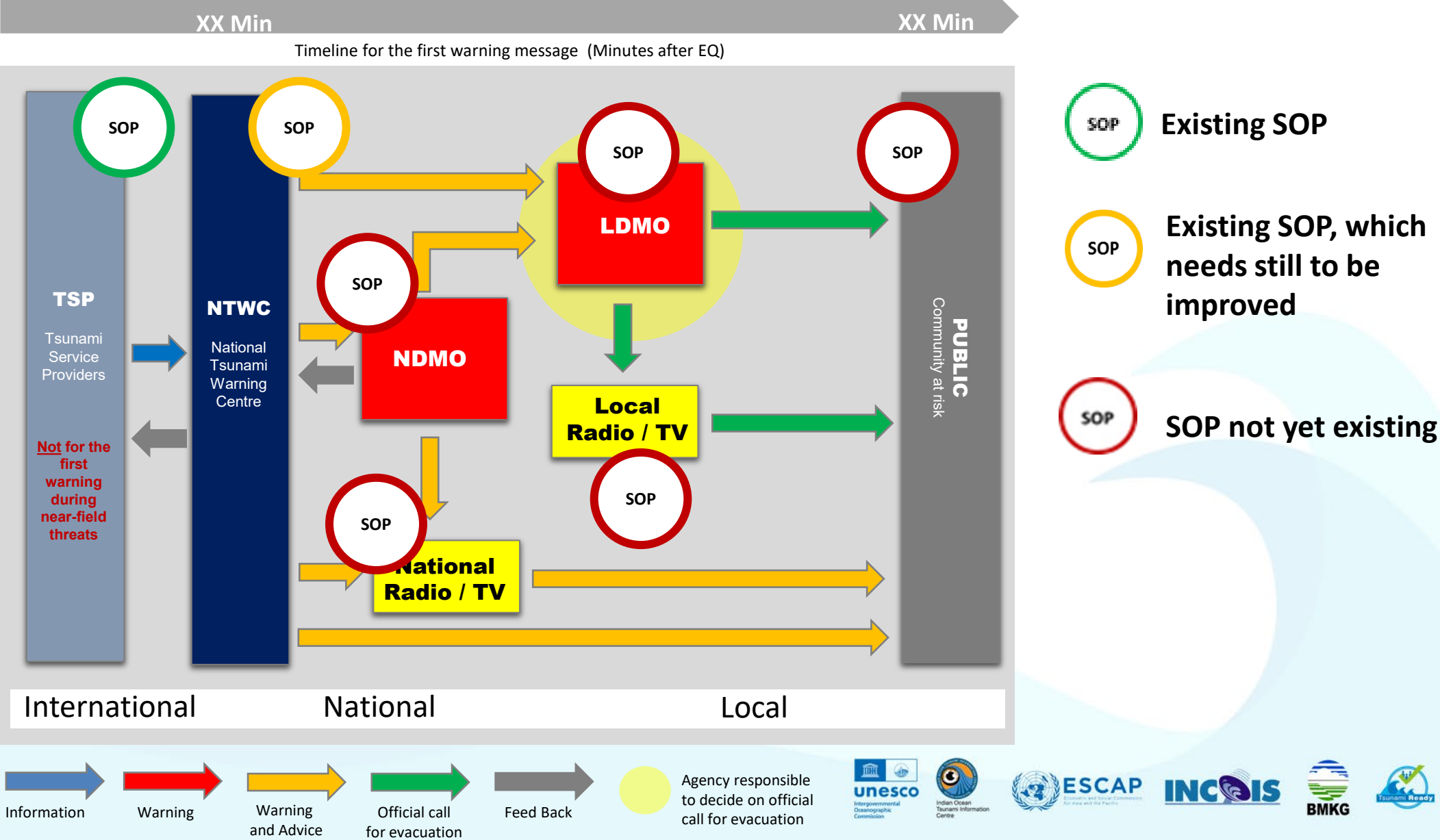
## SOPs related to the TERP at local level

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 of evacuation**
6. SOP for **traffic management**
7. SOP for **all clear and safe return**



- All warning and response systems require SOPs. In case of tsunamis the **rapid evaluation, warning and response is essential** to save lives.
- SOPs are “**living documents**” and should be developed, practiced and modified as necessary

# Operating the tsunami warning chain



# Tsunami Evacuation SOPs

## Aspects to consider

- Types and phases of evacuation
- Decision to evacuate threshold, timing, auto-evacuation
- Evacuation routes and assemble area (per-sector or neighborhood)
- Call trees and contact list
- Management of evacuation: movement controls, cordon, security
- Return

# Thank you



***IOC/UNESCO Indian Ocean Tsunami Information Centre  
IOTIC-BMKG Programme Office***

***Disaster Risk Reduction and Tsunami Information Unit  
UNESCO Jakarta Office***

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