



*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*

UNESCO-IOC Tsunami Ready Indicators

TRRP 06: Preparedness Indicators 1

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- Tony Elliott, IOC-UNESCO Consultant



PREP-1: Easily understood tsunami evacuation maps are developed



<https://youtu.be/wECsv3XgJ3kVideo>

+ 5:15 minutes

Objective of Evacuation ?



"Surviving a tsunami is a matter of getting out of the reach of tsunami waves and inundating waters in time"

What is your understanding of the Evacuation Zone or Evacuation Area?



The area people need to evacuate to

or

The area people need to evacuate from

PREP-1: Easily understood tsunami evacuation maps are developed

The community should have Easily understood tsunami **evacuation maps** that depict tsunami evacuation routes and assembly areas:

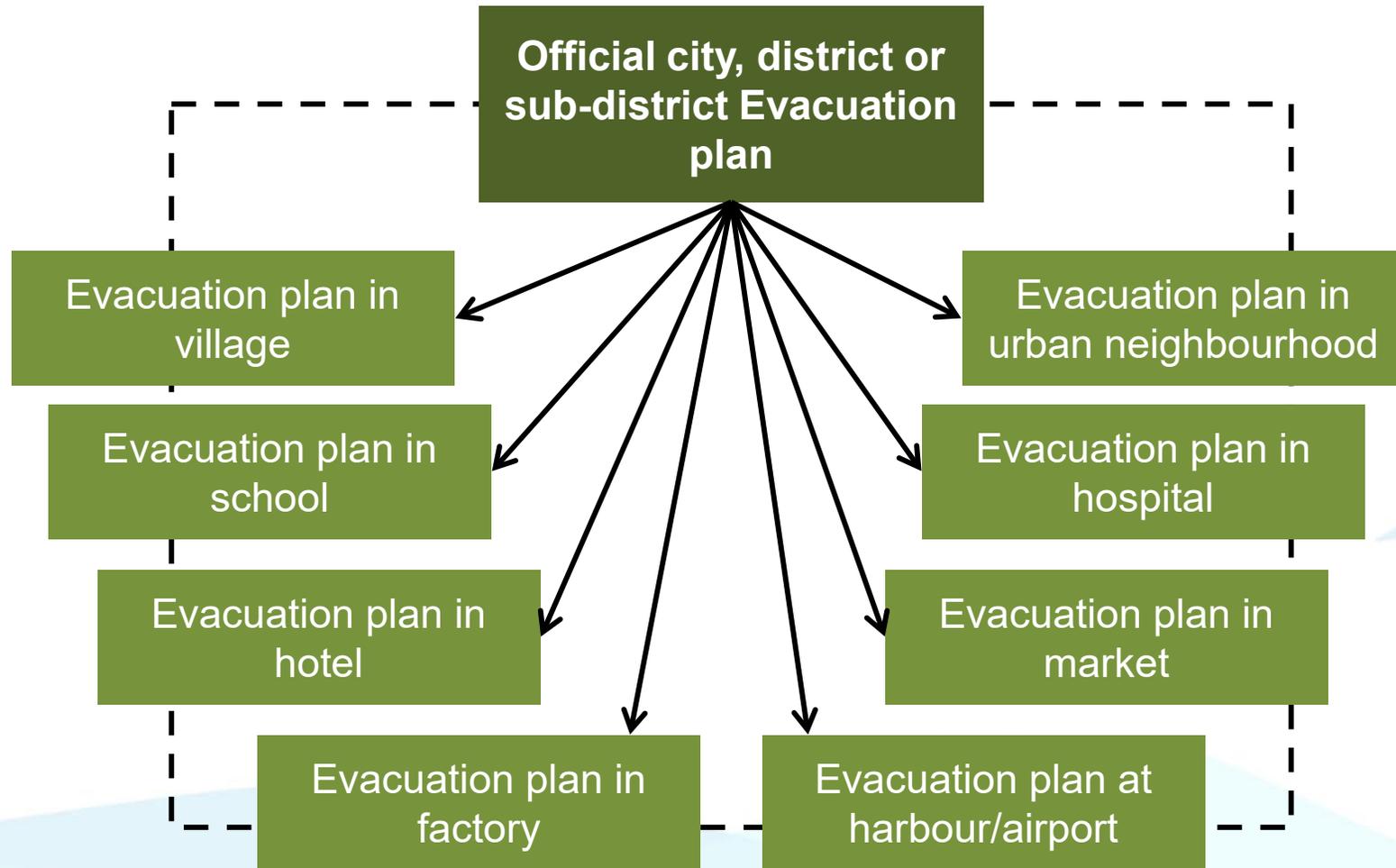
- Based on Tsunami Hazard Zone.
- Prepared with community consultation to incorporate local knowledge.
- Approved by local authorities.
- In accordance with the community's Tsunami Emergency Response Plan



Why is it Important

- **Evacuation planning is a sensitive and specialised activity because you are dealing with people's safety and security.** For this reason, it needs to be endorsed by the relevant authority that has the mandate to authorise evacuation.
- **The community needs to have ownership of the evacuation map,** so its development should be a collaborative effort including the relevant stakeholders.
- **The evacuation map should show evacuation routes and assembly areas using the tsunami hazard map as a basis for its preparation.** The community should be involved in its preparation to incorporate local knowledge.
- **The development of an evacuation map is one output from a structured evacuation planning process** that goes beyond the production of the map.

Official evacuation plans provide credible and binding references for lower levels & institutions



The Evacuation Planning Process

1. Prepare for the Planning

Mandates, Planning Team and Resource Person, Data and Information, Resource, Planning Process and Timeframe

2. Understand Your Community's Tsunami Risk

Hazard (inundation areas, ETA), Vulnerabilities, Exposure of People and Facilities, Capabilities (awareness, Knowledge, Early Warning)

5. Test, evaluate and improve your evacuation plan

Tsunami simulation exercise, means of observation and evaluation, revision of evacuation plan

4. Assess, endorse and disseminate your evacuation plan

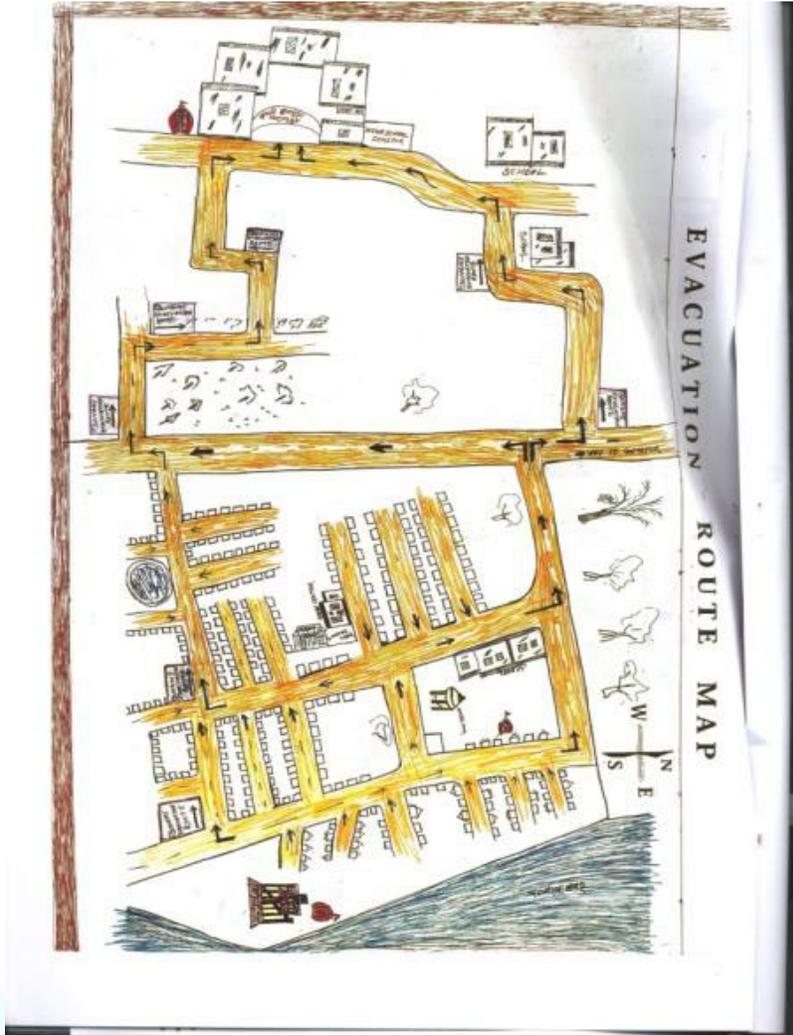
Public assessment of the plan, endorsement by local authorities, dissemination to institution and public, outreach strategy

3. Design your evacuation strategy and map

Evacuation time, evacuation zone(s), safe areas, assembly areas, mode of evacuation, evacuation shelter buildings, evacuation routes, signages, when to (self-) evacuate, support (traffic control, vulnerable facilities).



Examples



Examples

Tsunami Evacuation Procedure

- If you feel an earthquake - protect yourself
 - Don't panic!
 - Drop, cover and hold!
- After an earthquake, be aware that a tsunami may follow
 - Move away from the beach immediately as a precaution measure!
 - Look for more information through TV and Radio!
- After a strong and prolonged earthquake, evacuate immediately!
 - Don't wait for an official warning, leave the **RED ZONE** immediately if possible or look for shelter in higher buildings
 - If you are around Pratama Street, look for shelter in one of the hotels with higher floors
 - As a visitor in a hotel, please follow the instructions of hotel staff
- The sound of the siren is the official call for evacuation
 - If the siren sounds, follow the evacuation procedure as indicated above (No. 3)!

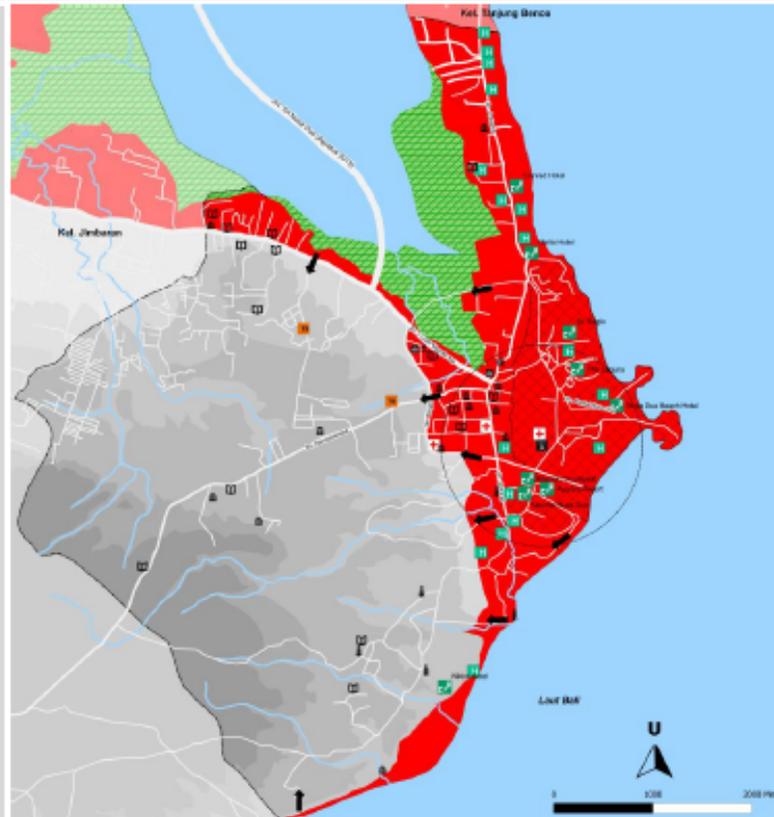
Be aware that the siren may not be heard in all areas.

After the first tsunami wave, more waves are likely to come!

Wait for an official "All Clear" message before leaving shelter

*Please note that BTDC has its own procedure

Tsunami Evacuation Map for Benoa Peta Evakuasi Tsunami di Kelurahan Benoa



Legend/Legend			
	Tsunami Risk Zone Zona Bahaya Tsunami		Safe Zone/Zona Aman
	BTDC Area Kawasan BTDC		Height of 25 m Ketinggian 25 m
	Public Vertical Evacuation Building Bangunan Evakuasi Vertikal Umum		Height of 50 m Ketinggian 50 m
	Hotel with 3 Floors or more Hotel bertingkat 3/lebih		Height of 75 m Ketinggian 75 m
	Assess by zone Tahap Berencana		Height of 100 m Ketinggian 100 m
	Hospital RS/Puskesmas		Height of 130 m Ketinggian 130 m
	School Sekolah		Height of 150 m Ketinggian 150 m
	Village Office Kantor Kelurahan		
	Siren		Community Hall Rukoh Banjar
	Public Vertical Evacuation Building Bangunan Evakuasi Vertikal Umum		Pondok Templo Pura
	Hotel with 3 Floors or more Hotel bertingkat 3/lebih		Traditional Market Pasar
	Assess by zone Tahap Berencana		Street Network Jaringan Jalan
	Hospital RS/Puskesmas		River/Sea Sungai/Laut
	School Sekolah		Administrative Border Batas Administrasi
	Village Office Kantor Kelurahan		Marigold Hutan Bakau

December / Desember 2012

Further Information / Informasi lebih lanjut:
BPBD Kabupaten Badung
Jln Raya Sempid, Margal
Telp. 0361-781108

Prosedur Evakuasi Tsunami

- Jika merasakan gempa bumi - lindungi diri anda
 - Jangan panik
 - Merunduk, berlindung dan berpegangan
- Setelah gempa bumi, sadari bahwa tsunami mungkin terjadi
 - Secepat mungkin tinggalkan daerah pantai sebagai langkah pencegahan awal
 - Carilah informasi lebih lanjut melalui TV dan Radio
- Setelah gempa bumi yang kuat dan lama, Segera Evakuasi!
 - Jangan menunggu peringatan resmi, segera tinggalkan **ZONA MERAH** jika memungkinkan atau mencari tempat berlindung yang lebih tinggi
 - Jika anda berada di sekitar Jln. Pratama, segera berlindung di bangunan bertingkat 3/lebih
 - Jika anda pengunjung, ikuti arahan dari karyawan hotel
- Bunyi sirene adalah panggilan resmi evakuasi
 - Jika sirene berbunyi, ikuti prosedur evakuasi seperti diatas (No. 3)!

Sadari bahwa mungkin bunyi sirene tidak terdengar di semua area.

Setelah gelombang pertama datang, gelombang yang lain mungkin akan menyusul.

Tunggu pemberitahuan resmi "Tsunami telah berakhir" sebelum meninggalkan tempat perlindungan

*Catatan: Ada prosedur khusus di area BTDC

Indonesia

Manual and Guide No 82



<https://unesdoc.unesco.org/ark:/48223/pf0000373019?posInSet=17&queryId=947ca611-1880-4ded-bb5a-4bd61c93c161>

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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