



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

TEMPP 03: Principles in Tsunami Evacuation Planning



Naghma Firdaus
UNESCO-IOC UNESCO Consultant
India

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- Ardito M Kodijat, IOTIC IOC-UNESCO
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What is an Evacuation Plan?



1. Get prepared, long before anything happens

- Study the evacuation map and get familiar with the evacuation procedures
- Discuss procedures within your family and neighbourhood
- Participate in drills and information events
- If you are a visitor to Bali, please check with your hotel for procedures

2. If you feel an earthquake, protect yourself

- Don't panic!
- Drop, cover and hold!

After an earthquake, be aware that a tsunami may follow

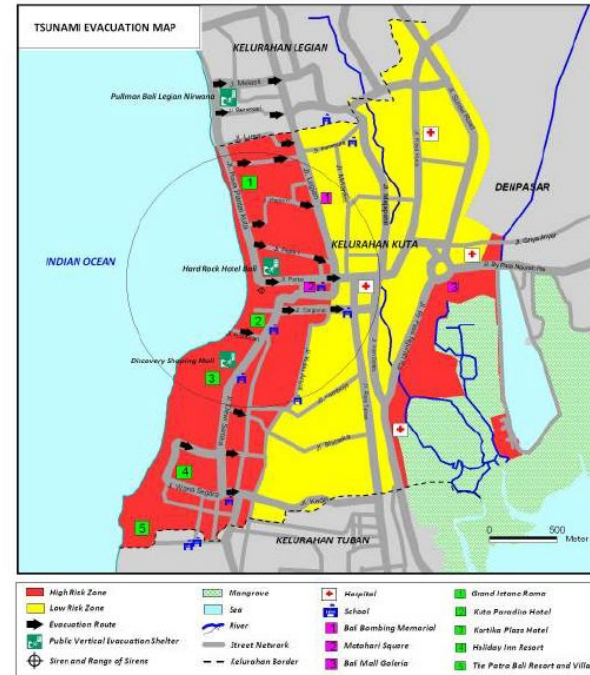
- Move away from the beach immediately as a precautionary measure!
- After strong and prolonged ground shaking, don't wait for an official warning. Leave the **RED ZONE** immediately!
- Listen to announcements from the local authorities and the radio for further information. Pay attention to the siren!

The sound of the siren is the official call for evacuation

- When the siren sounds, evacuate the **RED ZONE** immediately, or look for shelter in higher buildings!
- If you are in the **YELLOW ZONE**, seek shelter on higher floors
- If you are a visitor in a hotel, follow the instructions of hotel staff

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

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



Tsunami Evacuation Plan for Sanur, Bali

A Documentation of the Process and Results of Tsunami Evacuation Planning

developed by
Evacuation Planning Working Group of Sanur Denpasar

with support from
District Government of Denpasar
BPBD Denpasar
Bali Hotel Association (BHA)
The Indonesian Red Cross, Bali Chapter
Kelurahan and villages authorities
Sanur Development Foundation
Facilitation and technical advisory by
GTZ IS - GTEWS



Actors of Evacuation Planning



Who has to be involved in the planning?
All relevant stakeholders starting from the Community, local government, universities, NGOs,...

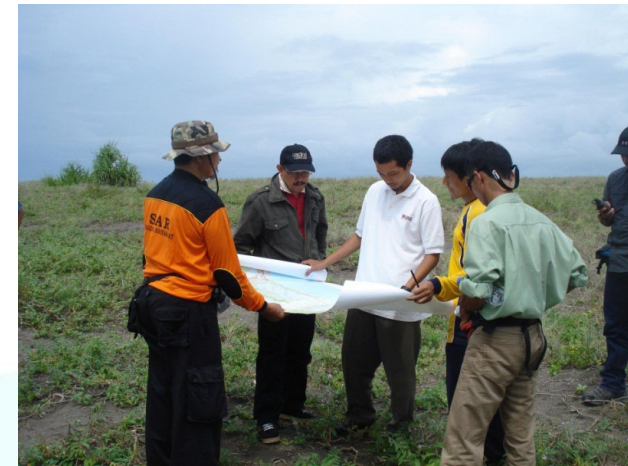
Who should be aware of the evacuation plan?
Everyone in the community



Principles

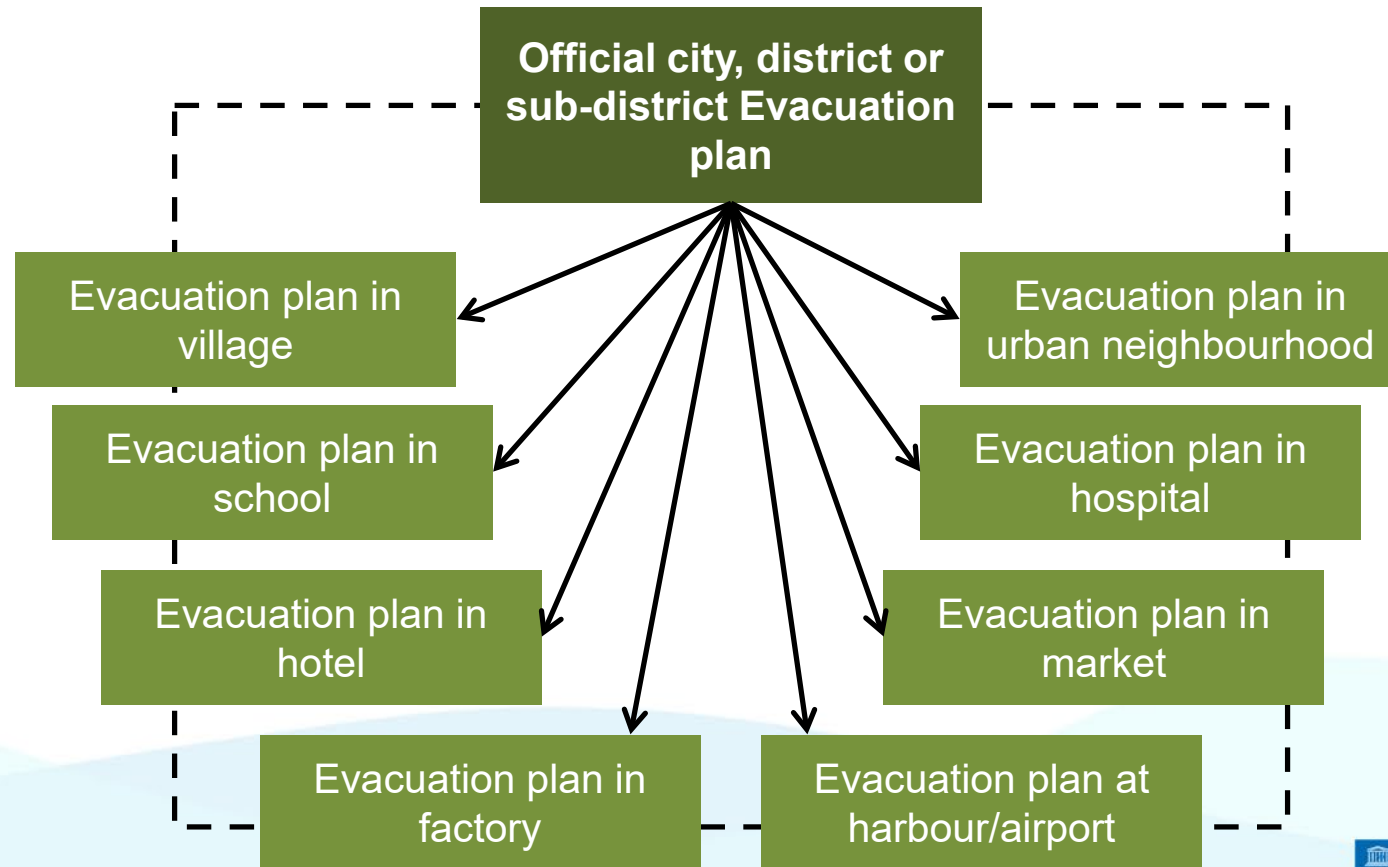
1. Evacuation planning requires a good understanding of the community's risk

- Inundation Map
- Historical record / information
- Community information
- Dangerous area and critical facilities
- Infrastructure and location information
- People with special needs / supports
- ...



Principles

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



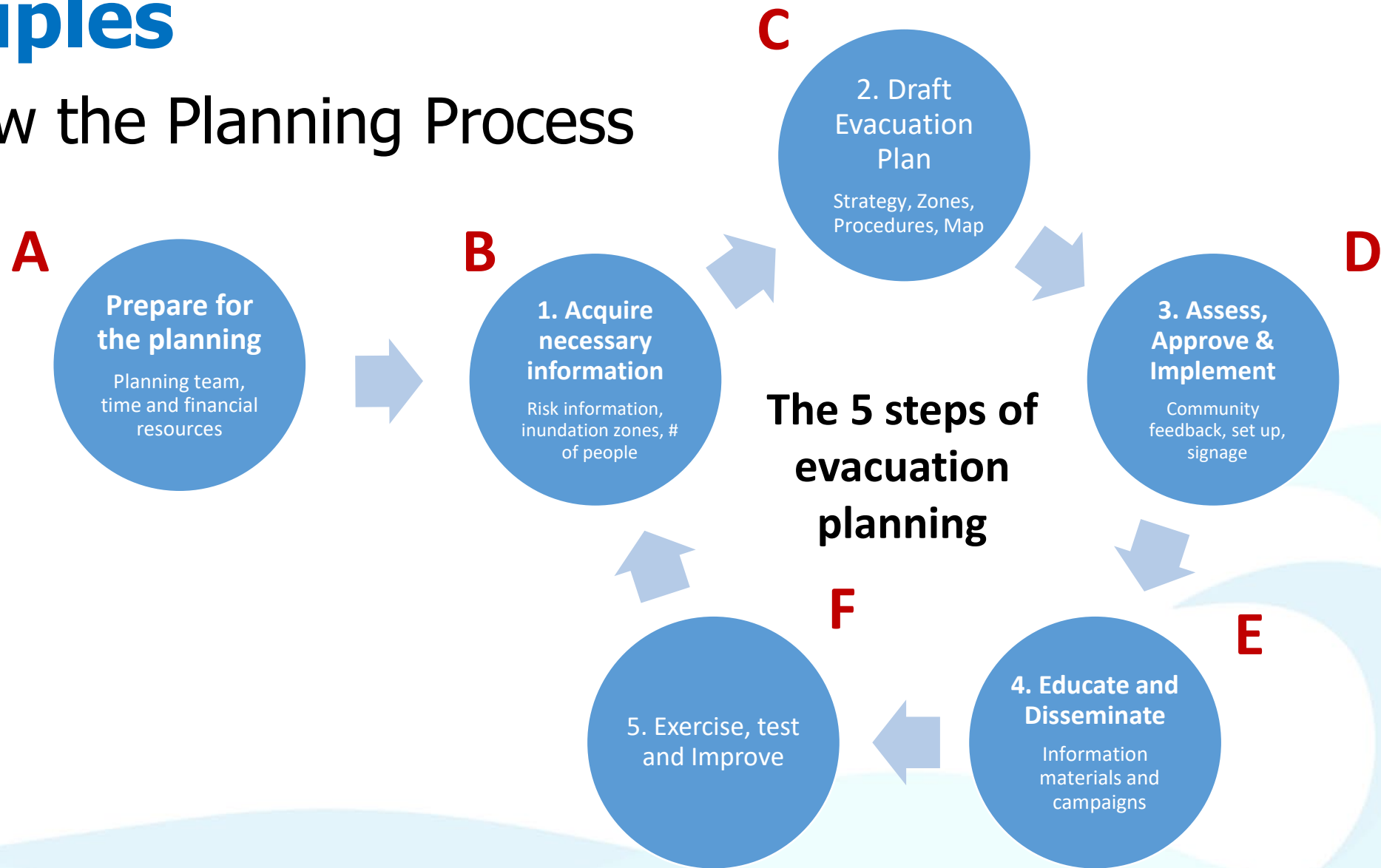
Principles

3. Evacuation Plans must be tailored to specific local condition



Principles

4. Follow the Planning Process



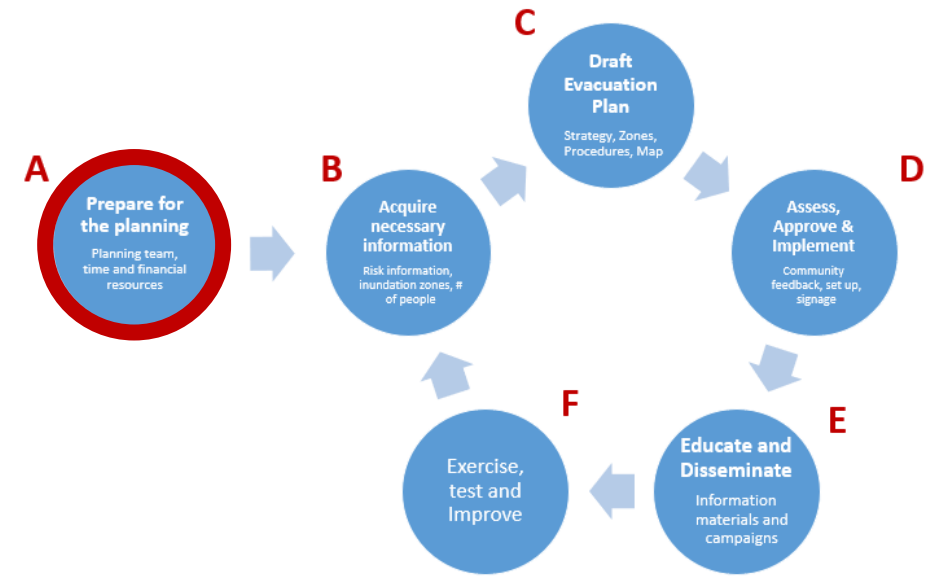
Process

1. Prepare for the planning

Topic to be discussed:

- Mandates,
- Planning team and resource person,
- Data and information,
- Funding resource,
- Planning process and timeframe

 **Work Plan**

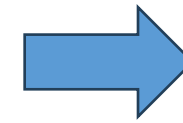


Process

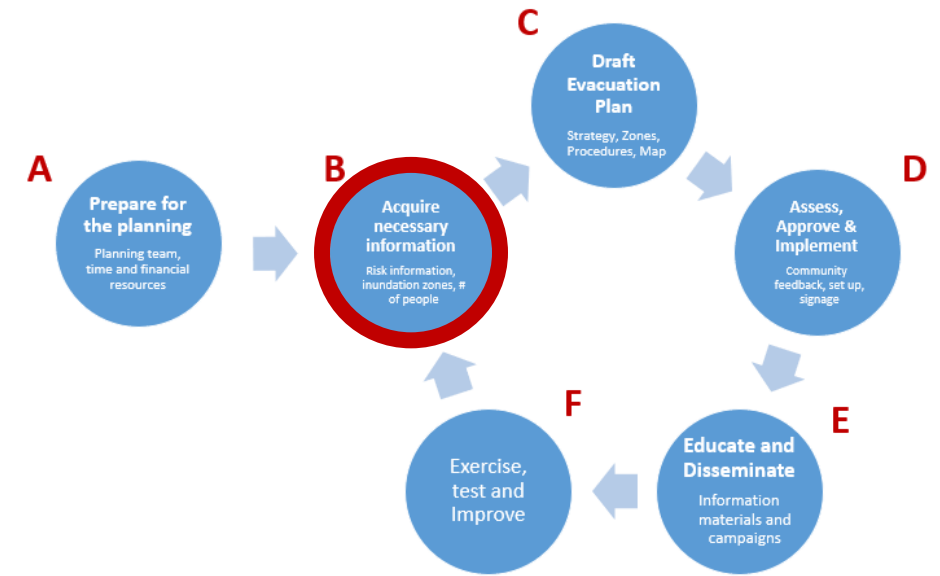
2. Acquire necessary information

Understand the community's tsunami risk

- Hazard:
Inundation area and arrival time.
- Vulnerability:
 - Physical exposure of population and facility,
 - capability to evacuate,
 - preparedness and readiness to evacuate,
 - early warning system,
 - Potential evacuation routes and shelter,
 - high risk areas. etc.



**Maps, Data
inventory,
Assessment
report**

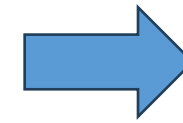


Process

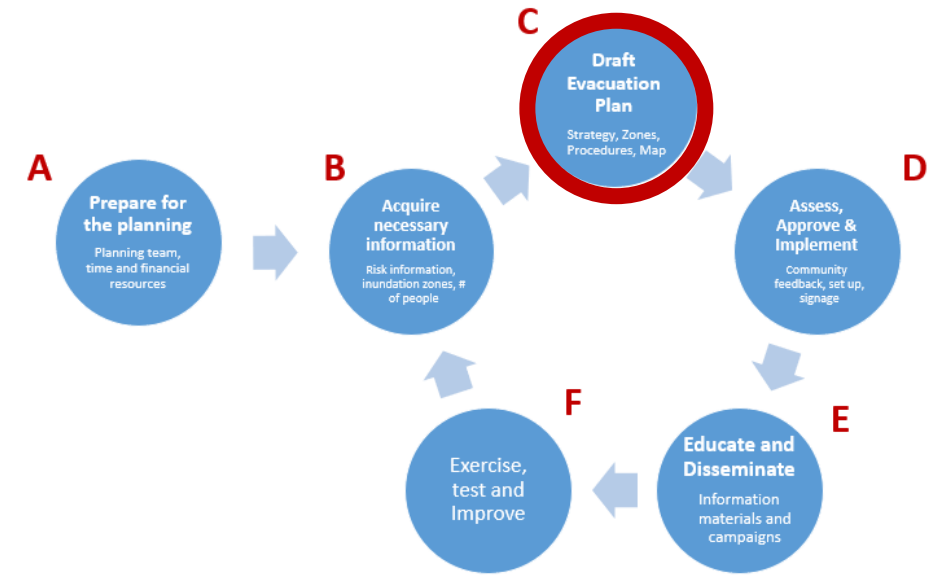
3. Draft Evacuation Plan

Design evacuation strategy and Map.

- Evacuation Strategy:
 - Evacuation time,
 - Evacuation zone(s),
 - Assembly areas and designated area,
 - Mode of evacuation,
 - Evacuation shelter buildings,
 - Evacuation routes,
 - When to evacuate (self evacuation)
- Support during evacuation:
 - Traffic management,
 - Vulnerable facilities,
 - Evacuation signages.



Preliminary evacuation plan documents that includes map, strategy and recommendation, and draft public evacuation plan



Process

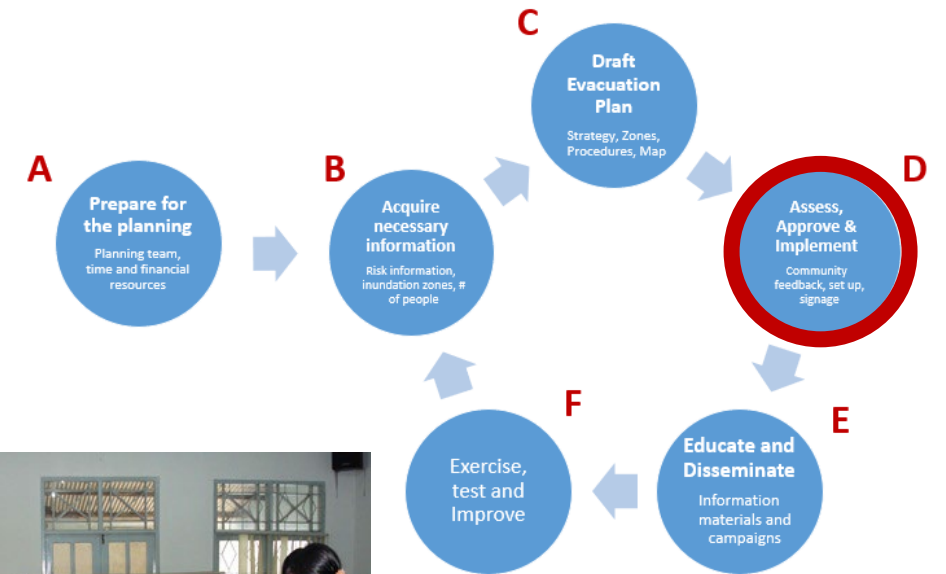
4. Assess and Approve

Public assessment of the plan, review on site, endorsement by authorities, acceptance by the community



Plan to test, evaluate, and improve the evacuation plan

Plan to get official endorsement of the evacuation plan



Tsunami Evacuation Procedure	Tsunami Evacuation Map for Kuta Peta Evakuasi Tsunami di Kuta	Prosedur Evakuasi Tsunami
<ol style="list-style-type: none"> Get prepared - long before anything happens <ul style="list-style-type: none"> Study the evacuation map and get familiar with the evacuation procedures Discuss procedures with your family and neighborhood Participate in drills and information events As a visitor to Bali: please check with your hotel for procedures If you feel an earthquake - protect yourself <ul style="list-style-type: none"> Drop, cover and hold! After an earthquake, be aware that a tsunami may follow <ul style="list-style-type: none"> Move away from the beach immediately as a measure of precaution! After strong and longer lasting ground shaking, don't wait for an official warning. Leave the RED ZONE immediately Listen to announcements from local authorities and the radio for further information. Pay attention to the siren The sound of the siren is the official call for evacuation <ul style="list-style-type: none"> When the siren sounds, evacuate the RED ZONE immediately and look for shelter in higher buildings! If you are in the YELLOW ZONE, go for shelter in higher floors As a visitor in a hotel, follow the instructions of hotel staff <p>After the first tsunami wave, more waves are likely to come!</p> <p>Wait for an official "All Clear" message before leaving shelter</p>		<ol style="list-style-type: none"> Bersiap-siap sejak jauh hari sebelum sesuatu terjadi <ul style="list-style-type: none"> Pelajari peta evakuasi dan kenal dengan baik prosedur evakuasi Bahas prosedur bersama-sama dengan keluarga dan tetangga Berpartisipasi dalam latihan dan penyuluhan Untuk para pelancong di Bali, agar mencari tahu prosedur hotel anda Jika merasakan gempa bumi - lindungi diri anda <ul style="list-style-type: none"> Jangan panik Menunduk, berlutut dan berspegangan Setelah gempa bumi, sadar bahwa tsunami kemungkinan akan menyusul terjadi <ul style="list-style-type: none"> Segera tinggalkan daerah pantai sebagai langkah kewaspadaan Sekali merasakan getaran yang kuat dan lama, jangan menunggu pengumuman resmi. Segera tinggalkan ZONA MERAH Dengarkan pengumuman dari aparat daerah dan status radio untuk informasi selanjutnya. Perhatikan suara sirine! Suara Sirine adalah panggilan resmi untuk segera evakuasi <ul style="list-style-type: none"> Jika suara sirine berdentang, bergas evakuasi dari ZONA MERAH atau mencari tempat berlindung sementara di gedung yang lebih tinggi! Jika anda berada di ZONA KUNING, bergas menuju tempat berlindung, mungkin ke lantai atas Para pelancong yang berada di hotel, ikuti instruksi dari staf hotel <p>Setelah gelombang pertama datang, gelombang yang lain mungkin akan menyusul</p> <p>Tunggu pesan resmi "Tsunami telah berakhir" sebelum meninggalkan tempat perlindungan</p>

Process

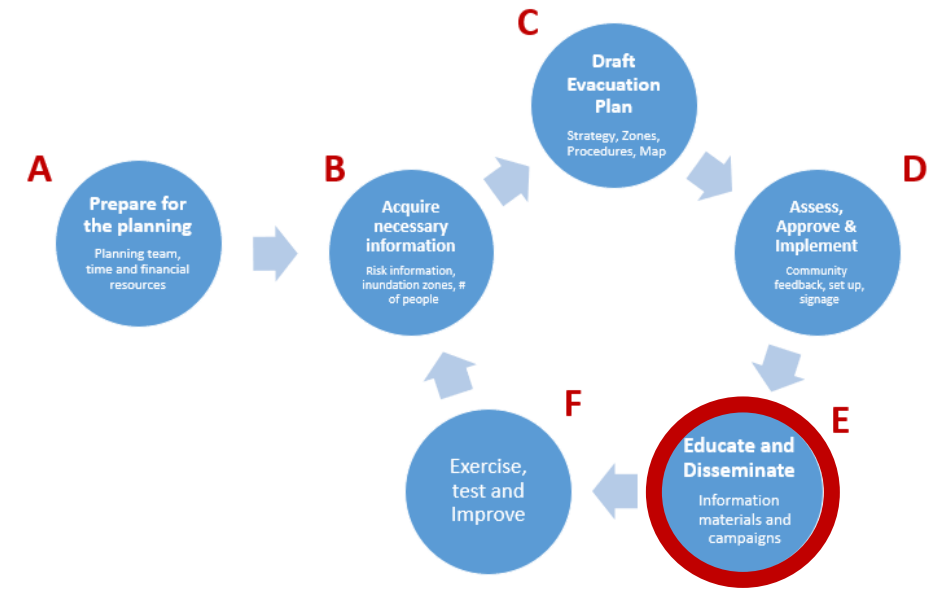
5. Educate and Disseminate

Information materials and campaigns and dissemination to institutions, public, and conduct outreach activity



Plan to roll out the tsunami evacuation plan

Public education plan or the tsunami evacuation plan



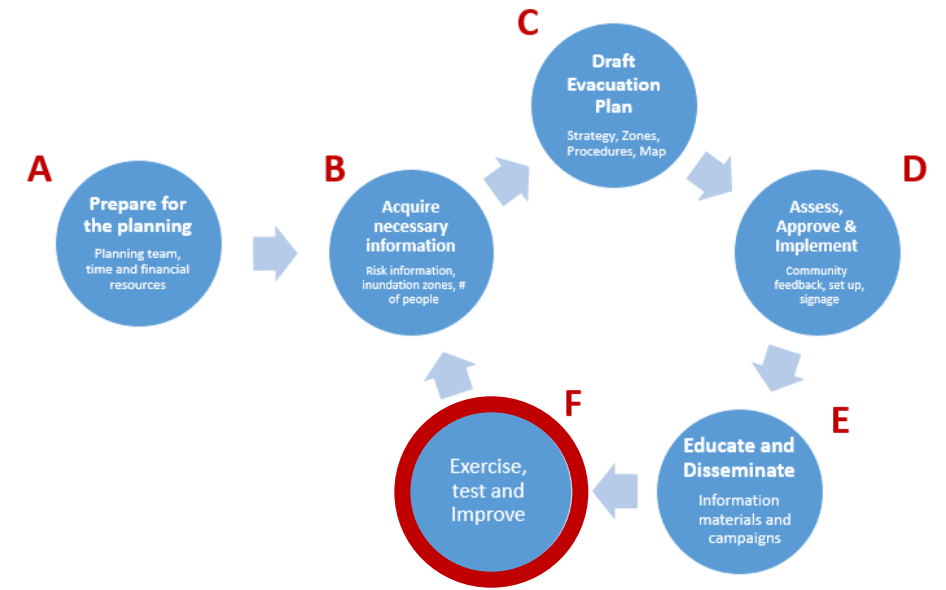
Process

6. Exercise, test and Improve

Tsunami exercises as means of observation and evaluation. Revision, update, and improvement of the evacuation plan.



Review and continuous improvement plan



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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