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 B: Information For Tsunami Evacuation Map

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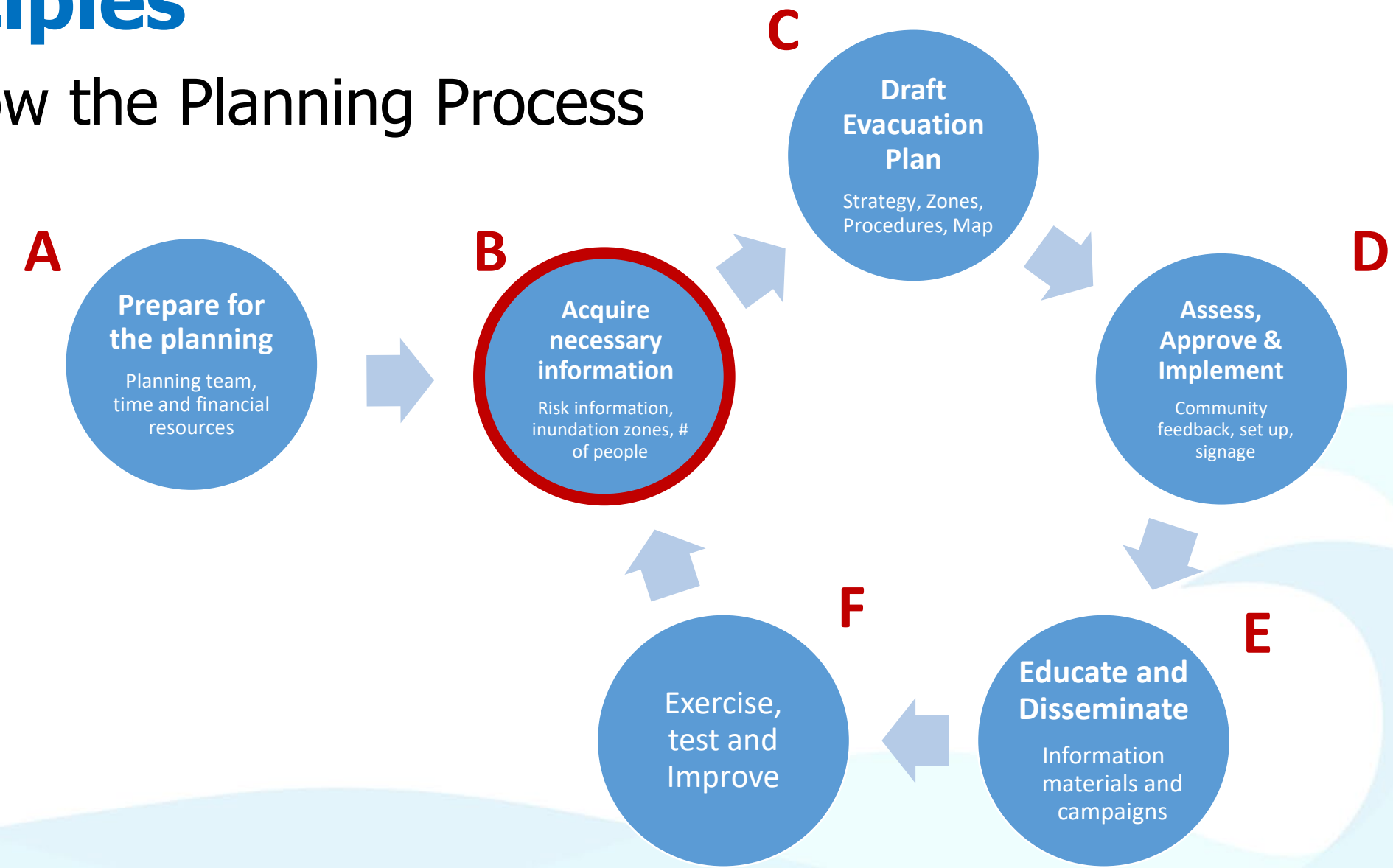
Acknowledgement:
- *Ardito M Kodijat, IOTIC IOC-UNESCO*
- *Harald Spahn, UNESCO-IOC UNESCAP Consultant*

Principles

4. Follow the Planning Process



Task for Group Work

1. Check your **inundation map** and make sure that it is well understood how it was generated, what does it show and how valid it is as a basis for the TEP
2. Discuss and agree how to **delimit the evacuation zone**. Document your arguments and conclusions
3. Draw the **boundary of the evacuation zone on the Base Map**
4. Identify **vulnerable groups and elements**. List them on a flip chart
5. Identify **further aspects** which are relevant in terms of vulnerability
6. Locate relevant vulnerable elements on the **Base Map** (as far as time allows)

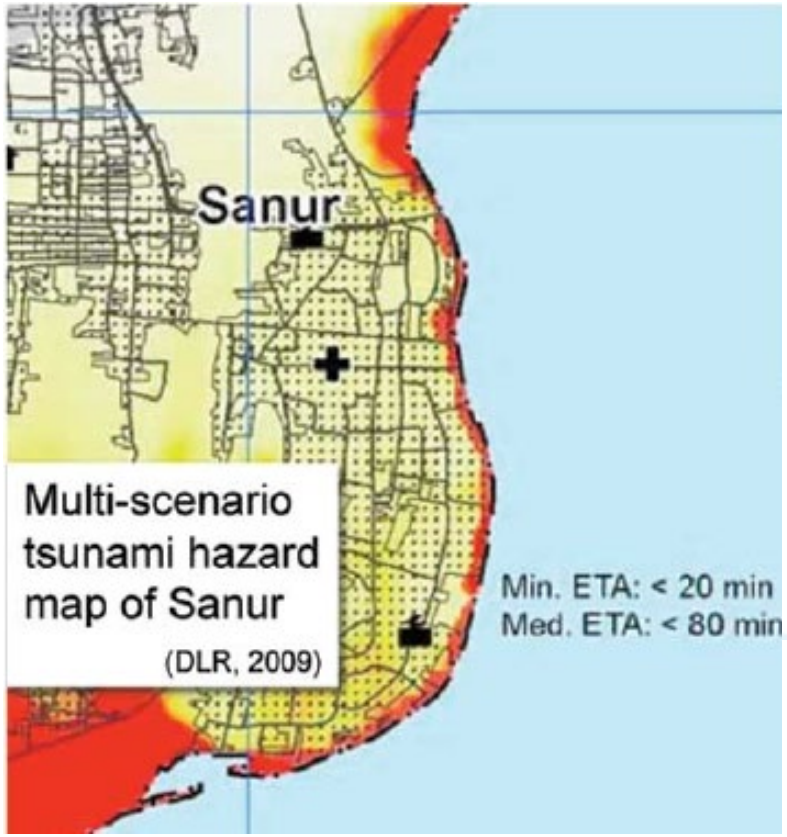
Facilitators

Facilitators	Country(ies)
Naghma Firdaus	India and Kenya
Suci Dewi Anugrah	Indonesia and Maldives
Alfath Abu Bakar	Malaysia and Oman
Admiral Musa Julius	Bangladesh and Seychelles
Vijaya Sunanda Maneela	Madagascar – Mauritius and Iran
Nora Huaia Gale	Australia and Comoros
Srinivasa Kumar Tummala	South Africa and United Arab Emirates
Ardito Marzoeki Kodijat	Sri Lanka and Timor-Leste

From Inundation Maps to Evacuation Zones

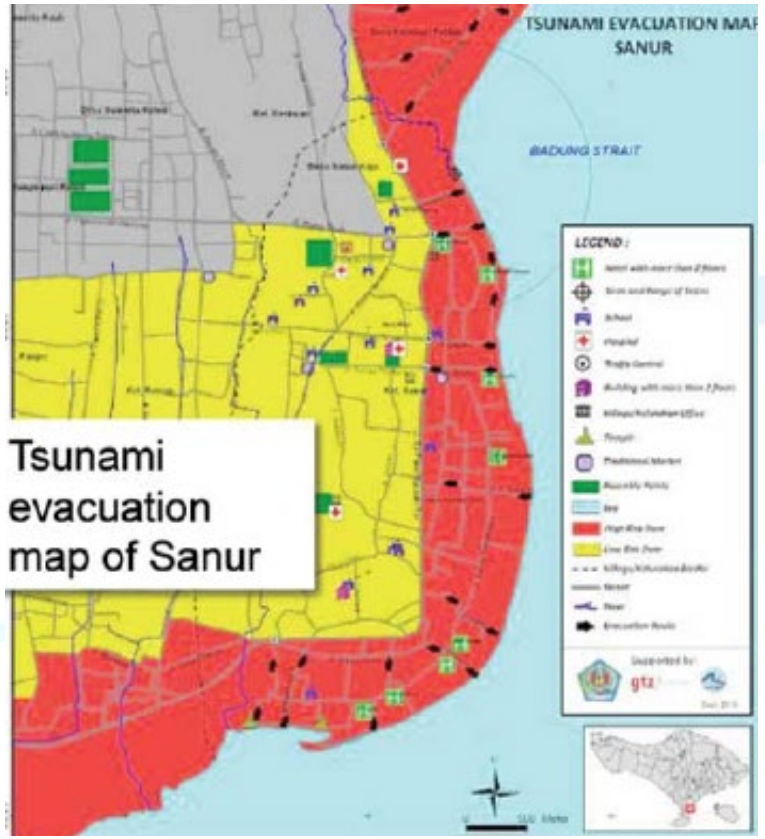
Inundation Maps

describe the **area that can be inundated**

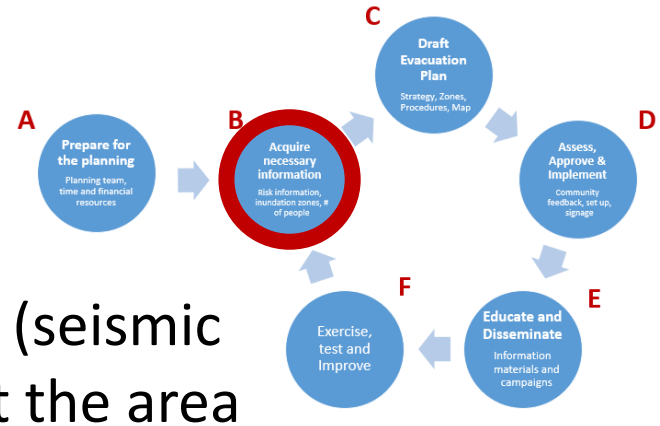


Evacuation Zones

describe the **area to be evacuated**



B. Knowing about the Hazard



Where it comes from?

Location of **tsunami source areas** (seismic and non-seismic) which can affect the area

How much time do we have?

Minimum estimated arrival times (ETA_{min}) for tsunamis of different origins

How bad can it get?

Multiple threat scenarios, including “worst case”, most probable scenario, historical events, paleo-tsunami studies and probabilistic approaches with information on wave height at coast and / or flow depth on land

Which area can be affected?

Area that can be inundated ➔ Inundation Map

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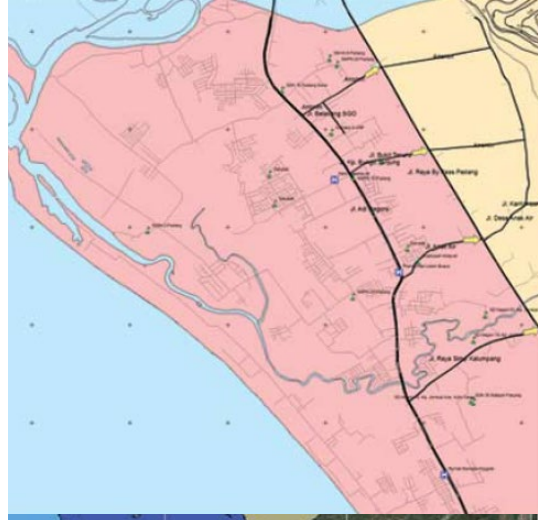
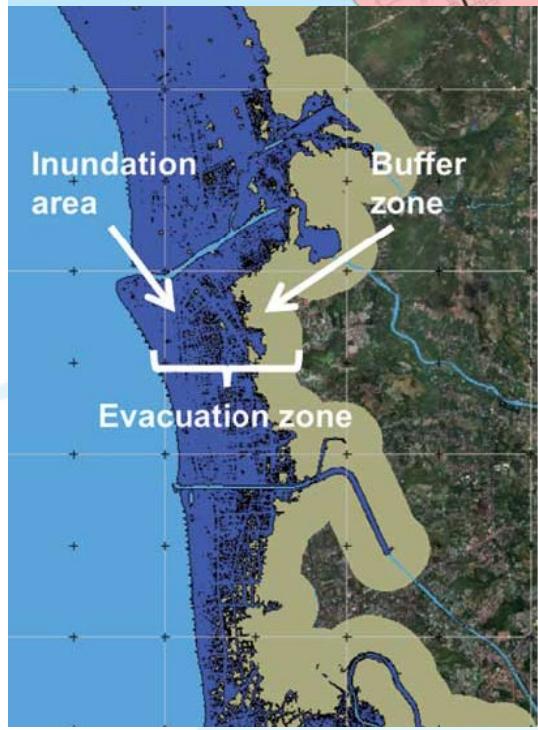
Criteria to define Evacuation Zones

- In principle it should cover **the maximum tsunami inundation area** as shown in the Inundation Map
- Draw the **boundary of the evacuation zone along well-known roads or landmarks**. Easy to remember and provide good orientation for people during evacuations
- You may decide to **extend the evacuation zone beyond the mapped inundation area for safety reasons** or as a buffer zone, especially in densely populated areas, in order to avoid traffic congestion within the hazard zone





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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