

Intergovernmental Oceanographic Commission

Tsunami Ready In Indian Ocean



Ardito M Kodijat 23-24 November 2021

Making Indian Ocean Coastal Community Tsunami Ready

Brief Introduction to UNESCO-IOC Tsunami Ready

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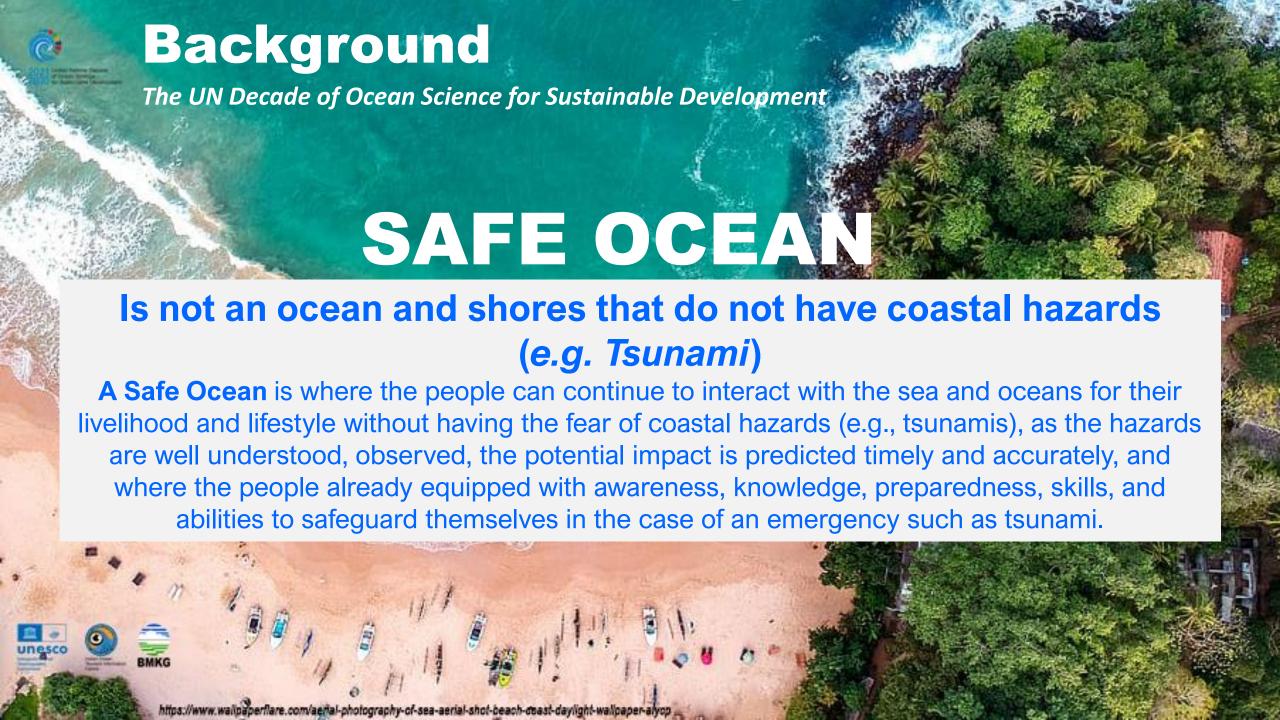
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Making Coastal Community Tsunami Ready





2021 United Nations Decade of Ocean Science for Sustainable Development

SUSTAINABLE GOALS



















Sendai

2030



Framework for

DRR 2015 -

























Why Tsunami Ready?

- An advance tsunami early warning system will not safe life if the community at risk does not have the knowledge and capacity to respond to the early warning.
- High risk of loss of life and property in coastal community with weak or no community preparedness for tsunami emergencies.



- Due to tsunami is an in-frequent event, Tsunami
 Preparedness need to be sustained within the community
 across generations
- In near field tsunami, the community need to react and take action without official warning or guidance
- Weak or broken warning chain to community.
- Lack or limited focus in community preparedness for tsunami.









What is IOC-UNESCO Tsunami Ready?



A strong end-to-end tsunami early warning and mitigation system with a particular focus on community awareness and preparedness.





Caribbean

- St. Kitts and Nevis
- Anguilla
- British Virgin Islands
- Grenada
- Haiti
- Antigua and Barbuda Nicaragua

Grenadines

Honduras

Trinidad and Tobago

 Barbados Honduras St. Vincent and the

Pacific

- Costa Rica Samoa
- El Salvador

Indian Ocean

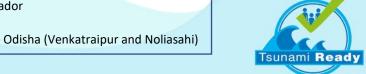
India – Odisha (Venkatraipur and Noliasahi)

26/18









IOC UNESCO Tsunami Ready Approach

- Bringing the ownership of preparedness to the community
 - → Voluntary and Bottom Up.
- To ensures structural, systematic, and Participatory approach in building community preparedness
- A collaborative effort to meet a level of tsunami preparedness through the achievement of fulfilling a set of established best practice guidelines and indicators.











IOC-UNESCO Tsunami Ready Indicators

TSUNAMI READY INDICATORS

Stage of achievement

- I ASSESSMENT (ASSESS)
- 1 **ASSESS-1**. Tsunami hazard zones are mapped and designated
- 2 **ASSESS-2**. The number of people at risk in the tsunami hazard zone is estimated
- 3 ASSESS-3. Economic, infrastructural, political, and social resources are identified
- II PREPAREDNESS (PREP)
- 4 **PREP-1**. Easily understood tsunami evacuation maps are approved.
- 5 **PREP-2**. Tsunami information including signage is publicly displayed.
- 6 PREP-3. Outreach and public awareness and education resources are available and distributed.
- 7 **PREP-4**. Outreach or educational activities are held at least 3 times a year.
- 8 PREP-5: A community tsunami exercise is conducted at least every two years
- III RESPONSE (RESP)
- 9 **RESP-1**. A community tsunami emergency response plan is approved.
- 10 **RESP-2**. The capacity to manage emergency response operations during a tsunami is in place.
- 11 **RESP-3**. Redundant and reliable means to timely receive 24-hour official tsunami alerts are in place.
- 12 **RESP-4**. Redundant and reliable means to timely disseminate 24-hour official tsunami alerts to the public are in place.









Tsunami Ready "Community"

Community → an ecosystem of society



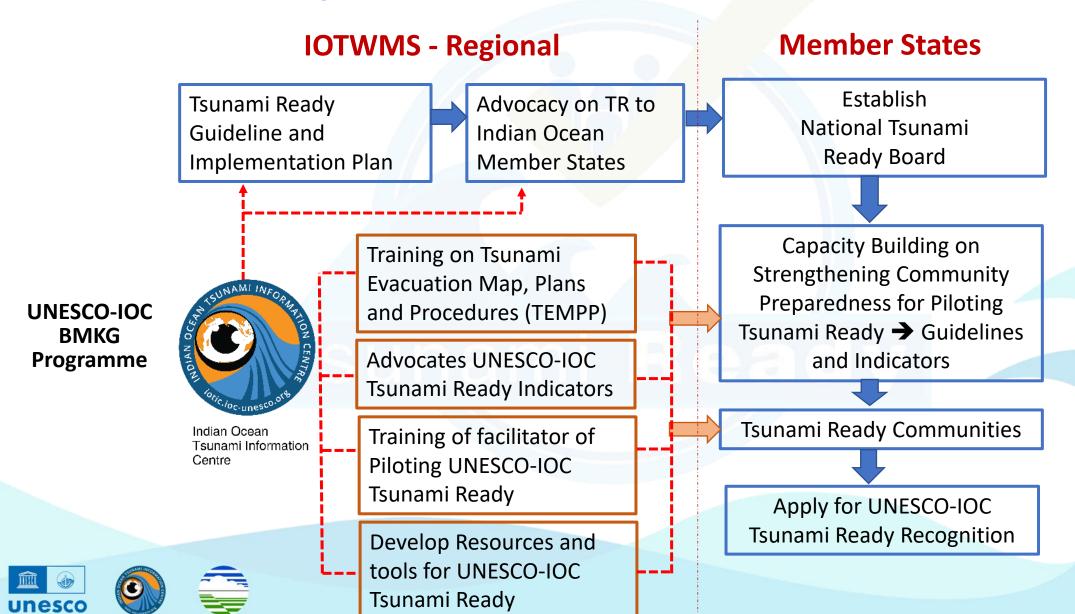








Tsunami Ready In Indian Ocean





Tsunami Ready in Indian Ocean

IOTIC was also invited to presents Tsunami Ready in several workshop and webinar on in India, Iran, and Indonesia

IOTIC-BMKG ICG/IOTWMS WTAD Webinar on UITR of **Indian Ocean UNESCO IOC Indian Ocean Island States** 5 November 2020 **Tsunami Ready Tsunami Ready IOTR Guideline Manual and Guideline 74 IOTIC-BMKG** Tsunami Ready Resources & Tools Indian Ocean Tsunami Ready **Board Game** (IOTR) Regional Workshop Video Series September 2017 **OTGA Training Course IOTIC-BMKG** (15 MS) December 2021 Lessons Learnt IOWave18 and IOTIC and ICG/IOTWMS **Indian Ocean Piloting IOTR Workshop IOTIC-BMKG Online** Secretariat Reviewed **Lecture Series** 15-17 November 2018 **Tsunami Ready** two villages for 2 Sept - 9 Oct. 2020 (12 MS) UNESCO IOC TR Recognition Regional **IOTIC-BMKG INCOIS IOTIC-BMKG IOTIC-BMKG Supported National** TEMPP-1 TEMPP-2 TEMPP-3 **Capacity Building on TR** July 2018 December 2018 November 2017 in India (12 MS) (7 MS) (6 MS) 2019 2020 2018 2021 2017 ational Australia India established India Organized India Venkatraipur and Piloted IOTR Indian IOWave and Indonesia proposed Interested to India (6) Tsunami Ready Indonesia Noliasahi Received Indicators National Tsunami 6 Tsunami Ready Pilot IOTR Training / Maldives Oman (1) during **IOC-UNESCO** Ready Board Communities workshop in **Oman** IOWave18 Recognition as August 2018 Hyderabad Seychelles Tsunami Ready December 2019 Community







IOWave18 Exercise 11 Indian Ocean Member States involved Communities



Tsunami Ready Community in Indian Ocean

Two Communities in India Recognized as Tsunami Ready Community by UNESCO-IOC



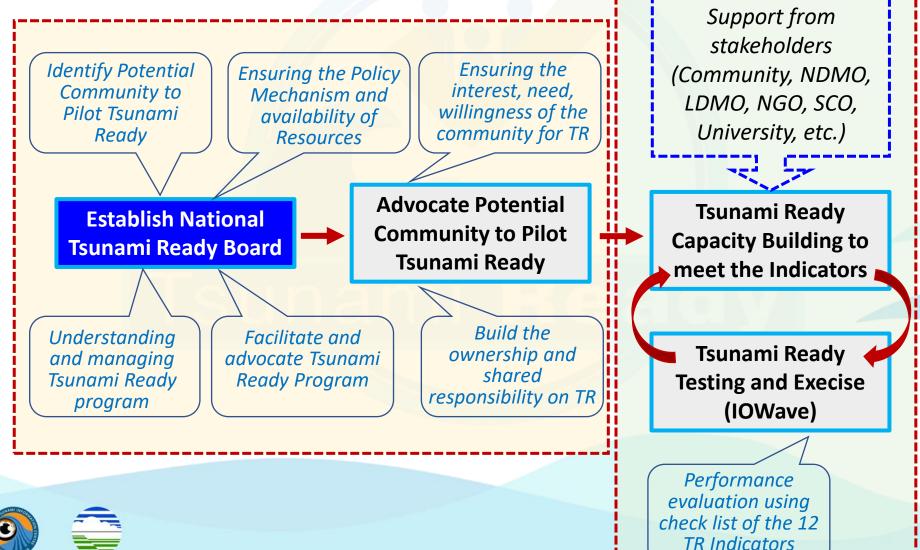
- 1. Noliasahi, Jagatsinghpur District, Odisha
- 2. Venkatraipur, Ganjam District, Odisha







Implementing Tsunami Ready at National Level



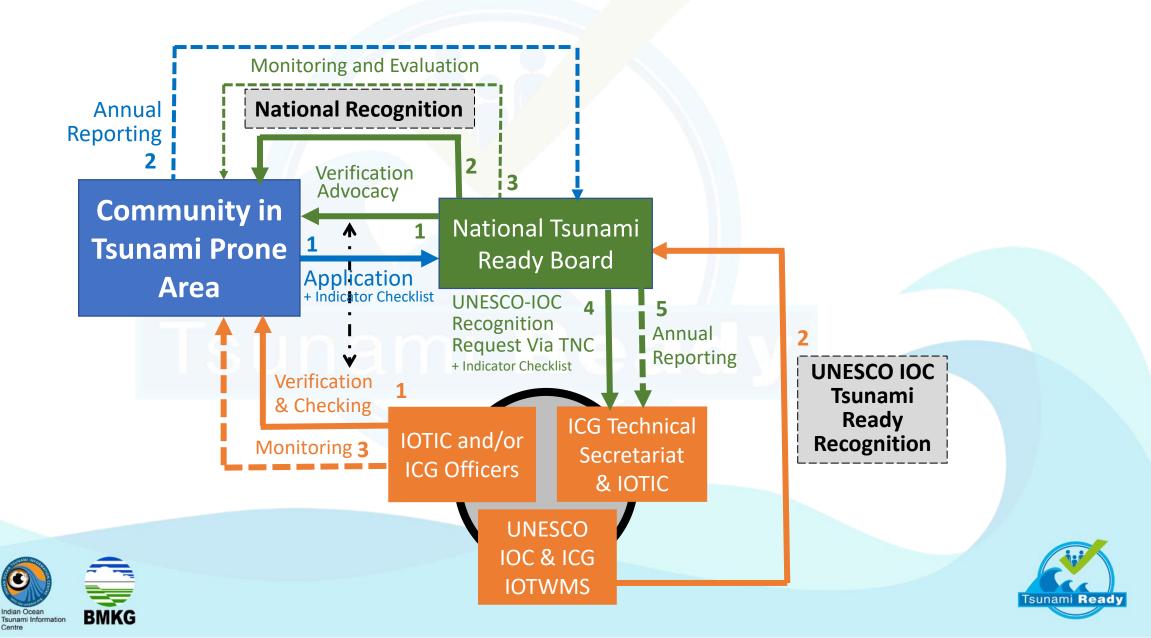








UNESCO-IOC Tsunami Ready Recognition Process



Lessons Learnt from TR in India

Reasons for Strong engagement of Odisha in implementation of TR

- 1. Strong advocacy by the UNESCO-IOC through IOTIC and IOTWMS
- 2. INCOIS the NTWC taking the lead in creating the right framework conditions for implementing TR by setting up of the NTRB
- 3. Background work already undertaken in Odisha and other coastal provinces in the past 10 years
- 4. Strong involvement of the provincial DMO and the political leadership in Odisha
- 5. Strong community ownership of DRR activities in Odisha
- 6. Opportunity to leverage financial resources









Challenges

Challenges in Implementing Tsunami Ready in Indian Ocean

- Establishment of National Tsunami Ready Board.
- Aligning with national tsunami preparedness programme and activities.
- National Priorities on Disaster Risk Reduction
 Multi-hazards and Disasters events.
- Resources needed at regional and national level for capacity building to pilot and implementation Tsunami Ready.
- Convincing the community on the importance of tsunami ready especially in transferring the shared ownership and responsibility with the community.

Challenges in Managing Tsunami Ready in Indian Ocean

- Management of recognition and renewal process → maintaining the due diligence and verification process.
- Monitoring the Sustainability

Steering Group to develop draft ToRs for a Tsunami Ready Working Group of the ICG/IOTWMS to lead and coordinate the implementation of the Tsunami Ready Programme in the Indian Ocean.

The Tsunami Ready Working Group shall work in conjunction and take technical advice from the other working groups and task teams of the ICG/IOTWMS. Member States to nominate representatives from DMOs to the Tsunami Ready Working Group to promote increased participation of disaster managers in the work of the ICG/IOTWMS

Steering Group, Secretariat, IOTIC

May 2022 (ICG XIII)









Thank you



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