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# UNESCO-IOC Tsunami Ready Recognition Programme In Indian Ocean

ICG/IOTWMS 13th Meeting  
28 November – 2 December 2022

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# UNESCO/IOC Tsunami Ready and the Global Frameworks



## SAFE OCEAN

**Not oceans and shores that do not have coastal hazards (i.e- Tsunami).**

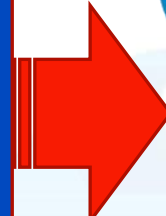
..... is coastal area and ocean that is understood, observed, can be predicted, and where the people can continue to interact with the sea and oceans for their livelihood and lifestyle without having the fear of coastal hazards (tsunamis), as they already have the awareness, knowledge, preparedness, skills, and abilities to safe themselves in case of an emergency (tsunami)



Sustainable Development Goals 2015-2030



UN Decade of Ocean Science for Sustainable Development 2021-2030



Sendai Framework for DRR 2015 - 2030



World Tsunami Awareness Day



# Tsunami Ready and UN Ocean Decade



## Statement and decision on Tsunami Ready

### Implementation Plan for the UN Decade Tsunami Programme (TOWS WG 2021)

Contribute to achieving the societal outcome of A Safe Ocean with the aim of **making 100% of communities at risk of tsunami prepared for and resilient to tsunamis by 2030 through the implementation of the UNESCO/IOC Tsunami Ready Programme**

### Tsunami Ready in Indian Ocean

The ICG/IOTWMS **encourages member states to commit to implement the UNESCO-IOC Tsunami Ready guideline and indicators** and promote open access to high-resolution near shore bathymetry and topography data for accurate inundation and evacuation mapping in support of Tsunami Ready communities *(ICG/IOTWMS Chair at the 53rd IOC EC)*

### UNESCO/IOC Tsunami Ready Recognition Programme / UNESCO/IOC Tsunami Ready (TOWS WG 2022)

- Recommended that the IOC Executive Council at its 55th session consider approving the **establishment of the UNESCO/IOC Tsunami Ready Recognition Programme (UNESCO/IOC Tsunami Ready)**
- To advise countries that are currently in the process of **implementing Tsunami Ready, to now follow the MG74** when submitting/applying for Tsunami Recognition, and that MG74 will apply for all future applications.
- Establishment of the **Tsunami Ready Coalition**.
- ICG **Tsunami Information Centres (TICs) to facilitate the UNESCO/IOC Tsunami Ready Recognition Programme** in each region.



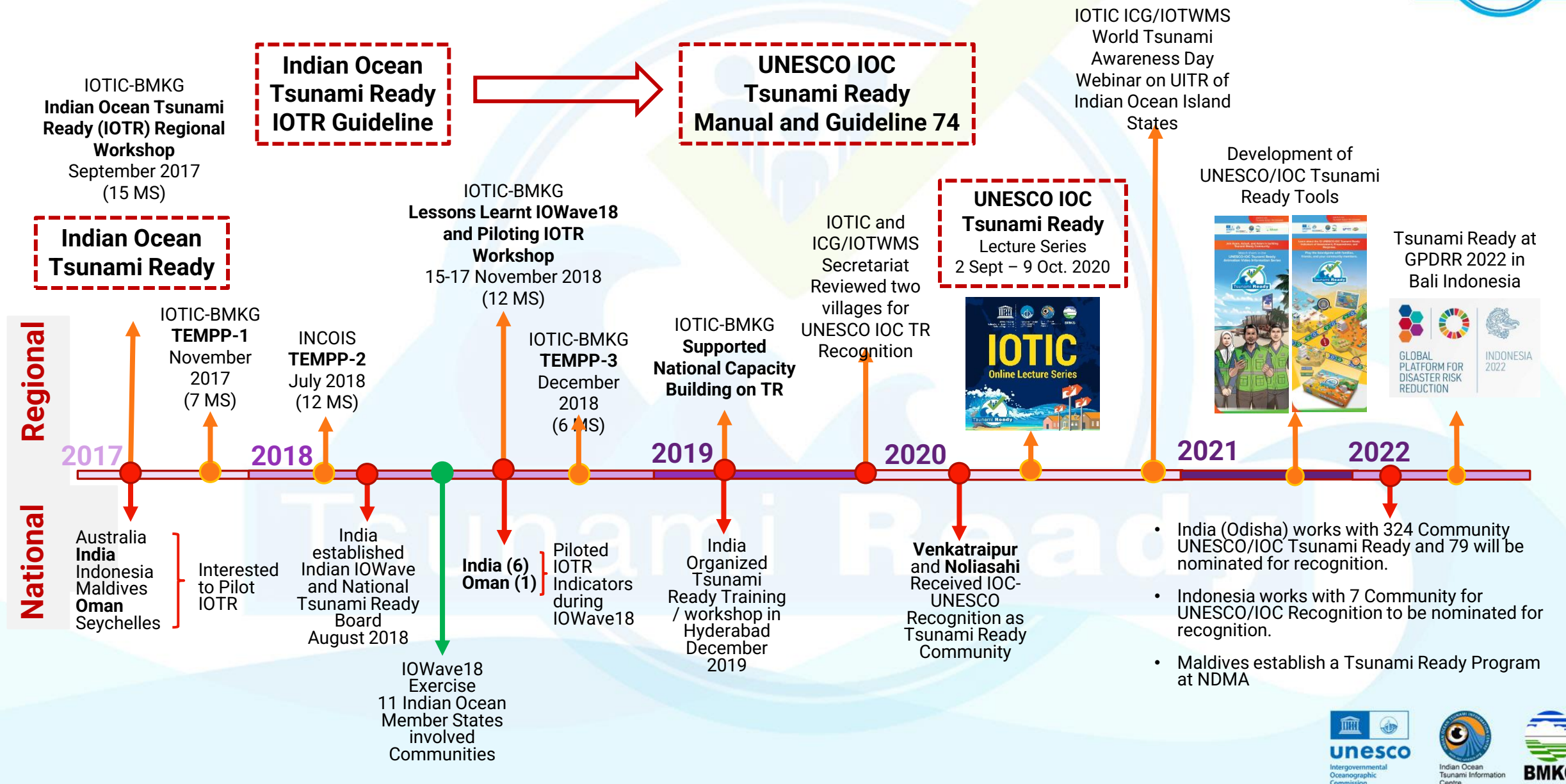
# Why Tsunami Ready ?



- An advance tsunami early warning system will not save 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.
    - 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.



# IOTIC-BMKG Tsunami Ready Programme



# IOC-UNESCO Tsunami Ready Recognition Programme



The Tsunami Ready Recognition Programme is a **voluntary international community-based** recognition programme developed by UNESCO/IOC.



It aims to **build resilient communities through awareness and preparedness strategies** that will protect life, livelihoods and property from tsunamis in different regions



## Caribbean

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

- Barbados
- St. Vincent and the Grenadines
- Trinidad and Tobago
- Honduras
- Nicaragua

## Pacific

- Honduras
- Costa Rica
- Samoa
- El Salvador

## Indian Ocean

- Venkatraipur and Noliasahi, Bali
- Tanjung Benoa, Tambakrejo, Glagah, Panggarangan, (Pangandaran, Kemadang, Kuta Mandalika) Indonesia



# IOC-UNESCO Tsunami Ready Recognition Programme



promotes the **concept of readiness through actions**  
→ **Process and Capacity** → to meet **12 key indicators** that serve as the standard for reducing tsunami risk at the community level.



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

Facilitates **tsunami preparedness as an active collaboration** of the public (community), community leaders, local and national emergency management agencies.



# IOC UNESCO Tsunami Ready Approach



- Bringing the **ownership of preparedness to the community** → Voluntary and Bottom Up.
- To ensures **structural and systematic 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.



Tsunami Ready

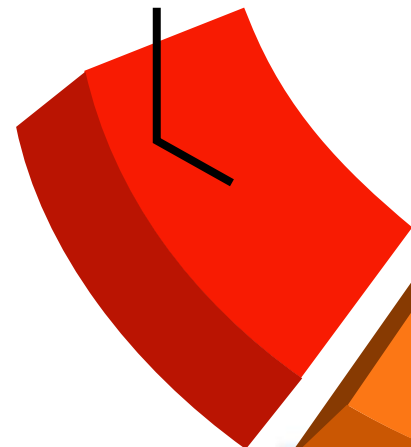


# IOC-UNESCO Tsunami Ready Recognition Programme



## COMMUNITY-BASED

Based on community performance-based programme.



## SUSTAINABLE IMPROVEMENTS

Risk assessments, early warning system, public awareness, exercises, pre-planning, preparedness actions



## SYSTEMATIC PREPAREDNESS

Aims to improve coastal community preparedness and ensures structural, systematic, and sustainable approach.



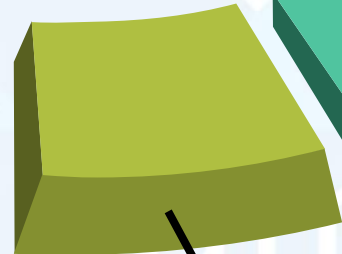
## MULTI STAKEHOLDER INVOLVEMENT

Community, Community Leaders, NTWC, NDMO, LDMO, Universities, NGOs and CSOs



## CREATE OWNERSHIP

Best practice guidelines and recognition as tsunami prepared community



April 2022

Indian Ocean Tsunami Information Centre



# Tsunami Ready “Community”



**Community → an ecosystem of society**



# UNESCO/IOC Tsunami Ready Indicators



## TSUNAMI READY INDICATORS

### 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

Understanding the  
Hazard and Risk

### 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

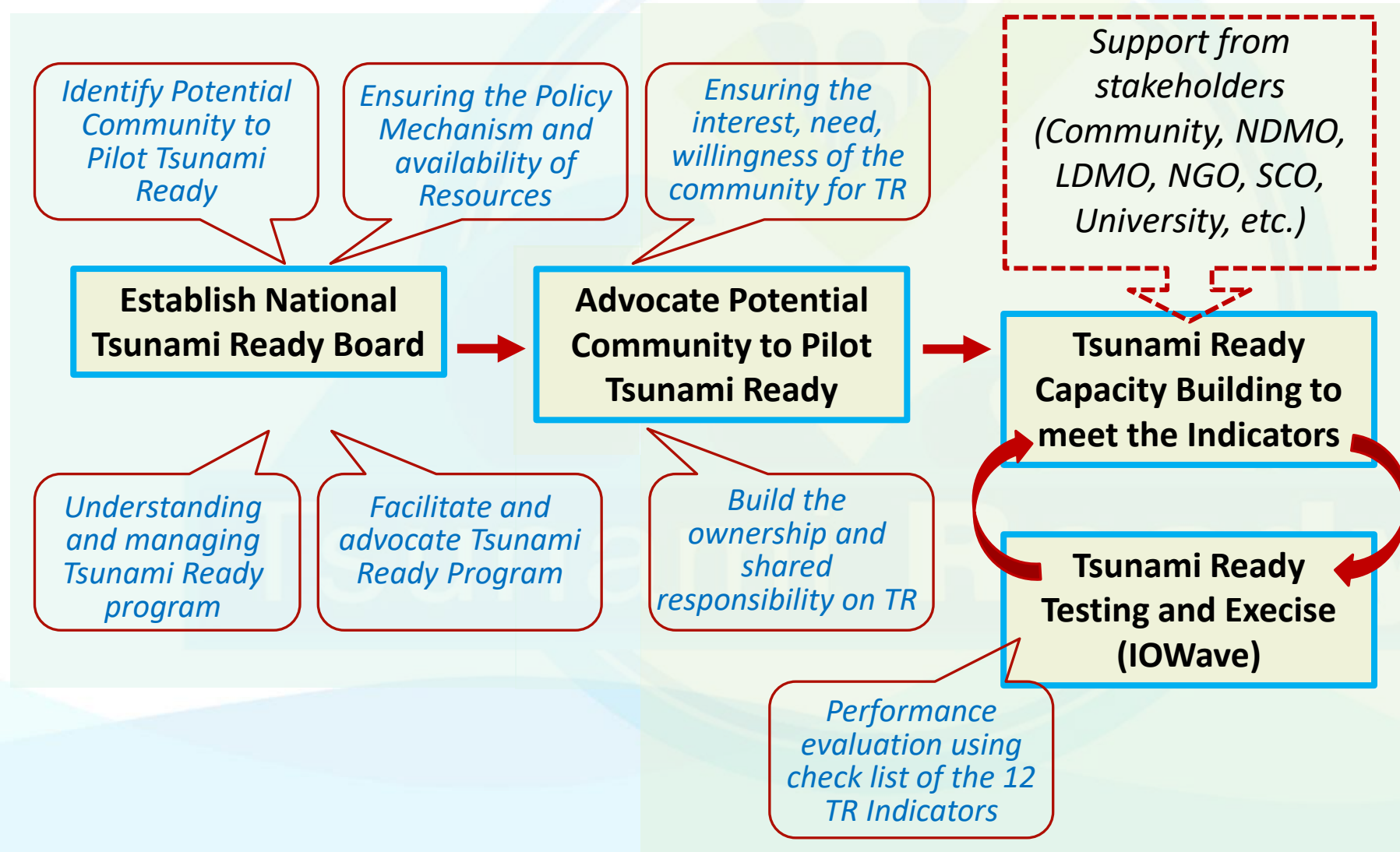
Community  
Awareness

### 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.

Planning and  
Capacity

# Implementing UNESCO-IOC Tsunami Ready Recognition Programme



# Recommendation to the ICG/IOTWMS for Consideration



1. To encourage the IO Member States to consider the implementation of IOC-UNESCO Tsunami Ready Recognition Programme to achieve the 100% Community at tsunami risk to prepared for and resilient to Tsunami in 2030.
2. To encourage the IO Member States to establish the National Tsunami Ready Board or to include the function of NTRB in existing committee the country has to start to implement the TRRP.
3. To encourage the IO Member States to engage with IOC-UNESCO IOTIC and ICG/IOTWMS secretariat in the implementation of TRRP.
4. To consider to have a Tsunami Ready National Contact in the IO Member States for easy coordination and stronger collaboration in the implementation of TRRP





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