



# What is UNESCO IOC Tsunami Ready Recognition Programme

## 2.3 Framework, Background, and History

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# Global Frameworks

## Tsunami Ready In UN Ocean Decade of Ocean Science for Sustainable Development



UN Decade of  
Ocean  
Science for  
Sustainable  
Development  
2021-2030

**The Ocean  
We Need  
for the Future  
We Want**



## Societal Outcomes

- A Clean Ocean
- A Healthy and Resilient Ocean
- A Productive Ocean
- A Predicted Ocean
- **A Safe Ocean**
- An Accessible Ocean
- An Inspiring and Engaging Ocean

Enhance multi-hazard early warning services for all geophysical, ecological, biological, weather, climate and anthropogenic related ocean and coastal hazards, and mainstream community preparedness and resilience.





# 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

13 OCTOBER  
INTERNATIONAL DAY  
FOR DISASTER RISK REDUCTION



Early Warning For All ~ 2027



World Tsunami Awareness Day



# Global Frameworks



## OCEAN DECADE TSUNAMI PROGRAMME

Seeking Major Advances in SCIENCE and PREPAREDNESS

# RESILIENCE!

New observational and analysis technologies to move from a **high-uncertainty** assumption-based capability to a **low-uncertainty** dynamic-based capability

### 1. Real-time impact forecasts

with

### 2. Deep community preparedness.

Tsunami disaster impacts are minimized, enabling rapid restoration of critical infrastructure and services

Comprehensive institutional & community preparedness and capacity building efforts aimed at achieving **IOC Tsunami Ready** designation across all socio-economic categories





# Global Frameworks

**OCEAN DECADE TSUNAMI PROGRAMME**  
Seeking Major Advances in SCIENCE and PREPAREDNESS

## THE MAIN SOCIAL OUTCOME

TO MAKE  
**100%**

OF COMMUNITIES AT RISK OF  
TSUNAMI PREPARED FOR AND RESILIENT  
TO TSUNAMIS

BY  
**2030**



# History of Tsunami Ready



## • US TsunamiReady® (2001, US NWS, NTHMP)

- Guidelines for standard level of capability to mitigate, prepare for, and respond to tsunamis.
- Promote community preparedness – minimize risk through better risk assessment, planning, education, warning communications
- 16 states, territories, 211 recognized Communities, 28 Supporters (1 Dec 2025). Local, tribal govt, or facility with authority to implement

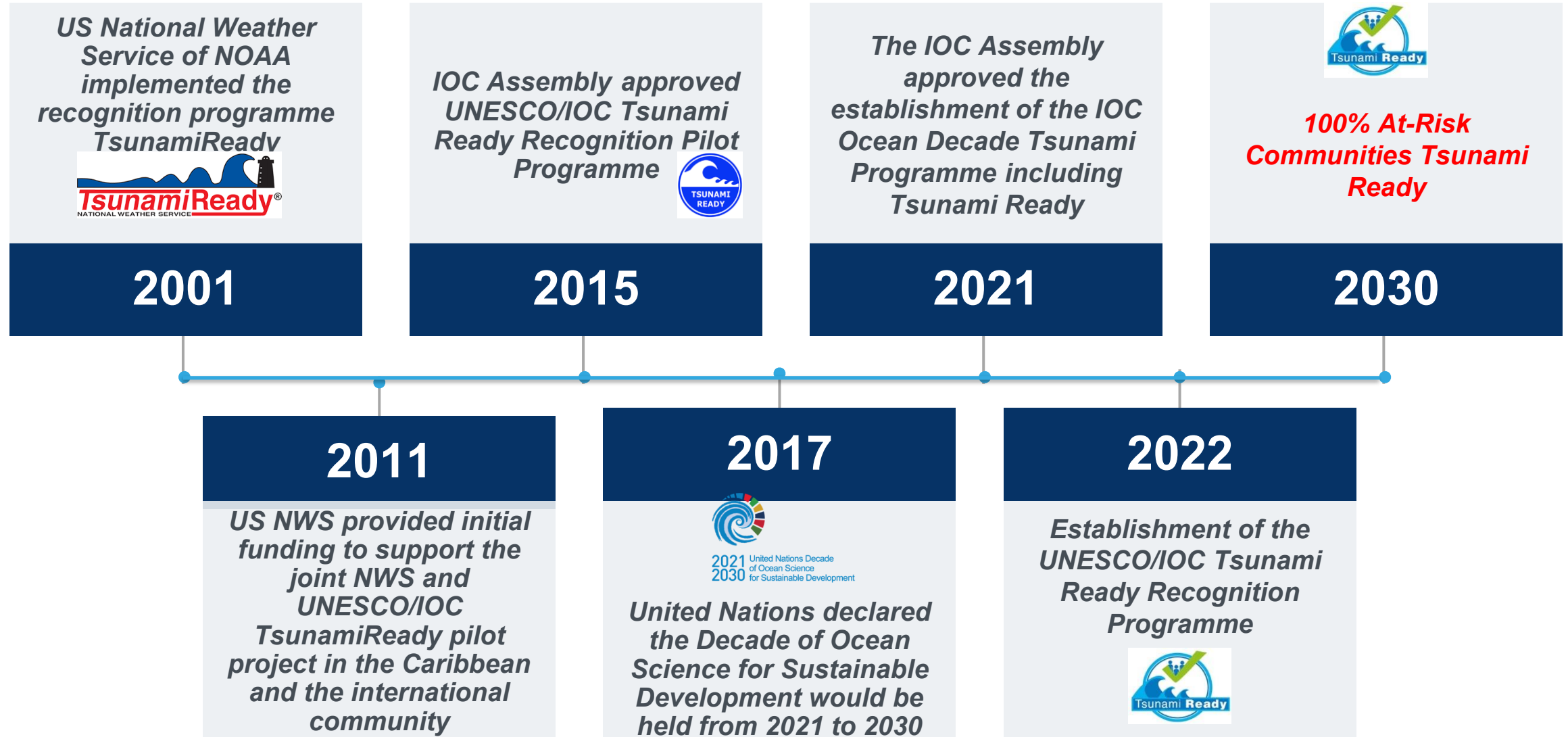


## • UNESCO IOC Tsunami Ready (2016, UNESCO IOC TOWS-IX)

- Modelled after US TsunamiReady®
- Tsunami Ready Programme Guidelines (community performance-based recognition, not certification) available for use / adaption by ICG regions (e.g., Pacific) (*adopted by ICG/CARIBE-EWS-X, May 2015*)
- Global priority to increase focus on awareness in communities and among authorities through communication, exercises, training, information, preparedness and recognition programmes



# History of the Implementation of Tsunami Ready





# Why do you need Tsunami Ready ?

*An advanced 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.*

There is a high risk of loss of life and property in coastal communities with weak or no community preparedness for tsunami emergencies

In near-field\* tsunami situations, the community needs to react and take action without official warning or guidance

If the warning chain to the community is weak or broken, the community must be prepared to take action on its own initiative

Lack of or limited focus on community preparedness leaves a community more at risk during a tsunami event



\* When a tsunami arrives in less than 1 hour from its source. Usually within a 100 – 200km range of the epicentre



# UNESCO IOC Tsunami Ready Recognition Programme

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Tsunami Ready is a community **performance-based programme** that facilitates tsunami preparedness as an **active collaboration** of the public (community), community leaders, and national and local emergency management agencies

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The main objective is to **improve coastal community preparedness** for tsunami emergencies, to minimise the loss of life, livelihoods and property, and to ensure a **structural and systematic approach** in building community preparedness



# UNESCO IOC Tsunami Ready Approach

Bring the **ownership** of preparedness to the community

Ensure **structural and systematic approach** in building community preparedness

A **collaborative effort** to achieve a level of tsunami preparedness through the fulfilment of a set of established best practice guideline and indicators

Tsunami Ready is implemented on a **voluntary basis and entails a “bottom-up” process** with the community taking the initiative to build its own capacity. This approach ensures ownership of the process that strengthens its sustainability





# Benefits of Tsunami Ready Programme

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1. **Strengthens tsunami preparedness** of coastal communities
  - Improved assessments of Hazards, Risk, Inundation, and Evacuation
  - Improved early warning systems/warning chain
  - Improved public awareness, understanding of tsunami threat and preparedness
  - Tests awareness and preparedness through regular exercises
2. Strengthens **preparedness for other hazards**
3. Improves **community planning**
4. Encourages a **consistent and sustainable approach** to disaster risk reduction
5. Contributes to the aims of the **Global Frameworks** (SDG, SFDRR)
6. International recognition from UNESCO-IOC as **Tsunami Ready Community**



# Why apply for Tsunami Ready recognition?

## Community Perspective

1. To **appreciate the effort and achievements** of the community
2. To **motivate the community to continue to improve** its level of preparedness
3. To enhance the **sustainability of preparedness** in the community
4. As **leverage to for improvement** and collaboration
5. To **motivate others** to follow the example of good practices



United Nations  
Educational, Scientific and  
Cultural Organization


Intergovernmental  
Oceanographic  
Commission

Intergovernmental Coordination Group for Indian Ocean Tsunami Warning and Mitigation System (ICG/IOTWMS)

### *Certificate of Recognition* The Community of Venkatraipur Ganjam District, Odisha, India

For successfully piloting the UNESCO-IOC Tsunami Ready Initiative  
in Venkatraipur, Ganjam District, India  
28 May 2020

  
Vladimir Ryabinin, PhD  
Assistant Director General and Executive Secretary  
UNESCO

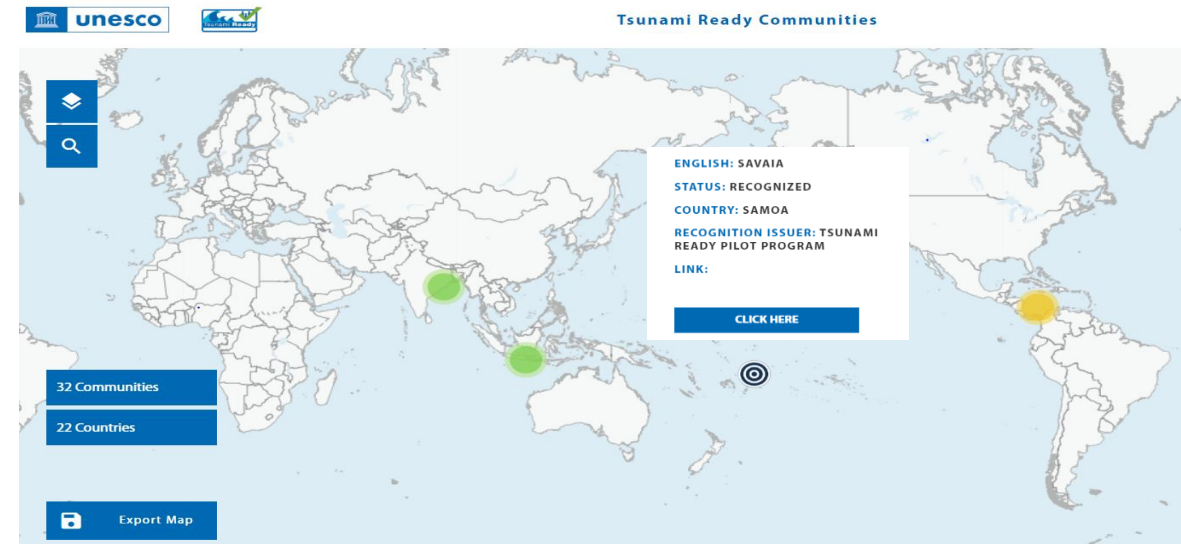
  
Dr. Satheesh Sheno, PhD  
Chair  
National Tsunami Ready Board of India

  
Prof. Dwikorita Karnawati, PhD  
Chairwoman  
UNESCO-IOC ICG/IOTWMS



# Why apply for Tsunami Ready recognition?

6. **Prestige**, as a community that has set good example of best practices and is internationally recognized as Tsunami Ready
7. Included in the **Global Map of Tsunami Ready** Communities
8. Potential **economic benefits**, in terms of increased investment and tourism





# Tsunami Ready Indicators

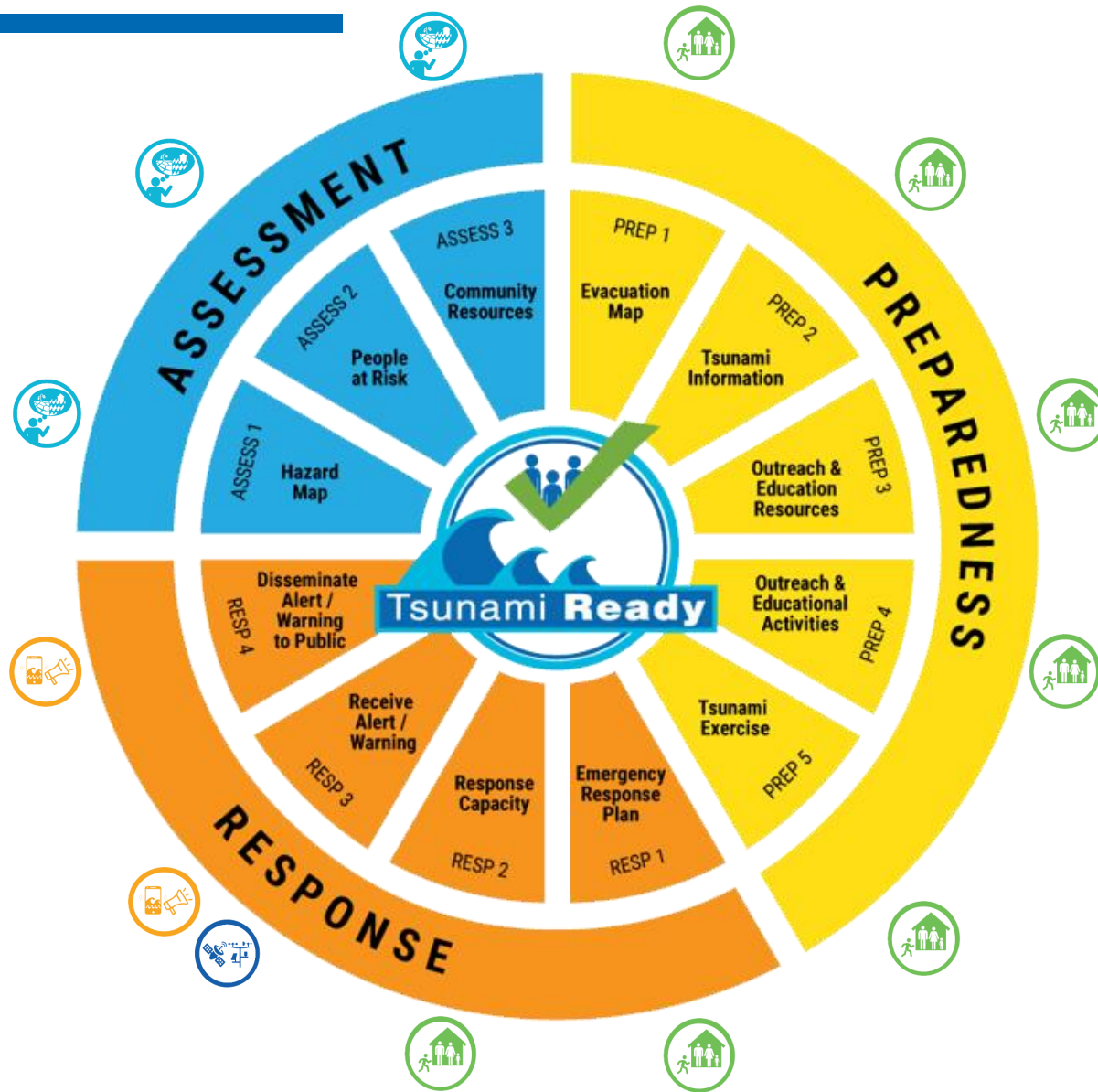
Tsunami Ready consists of 12 key indicators designed to strengthen local tsunami risk reduction capacity. The indicators are grouped into three categories:

## Assessment, Preparedness and Response

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
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
RESPONSE (RESP)	
9	RESP-1. A community tsunami emergency operations 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



# TR Indicators and the EW4All Pillars



Early  
Warnings  
for All



Disaster Risk Knowledge



Warning Detection



Warning Dissemination



Preparedness and Response



# Tsunami Ready Recognition Disclaimer

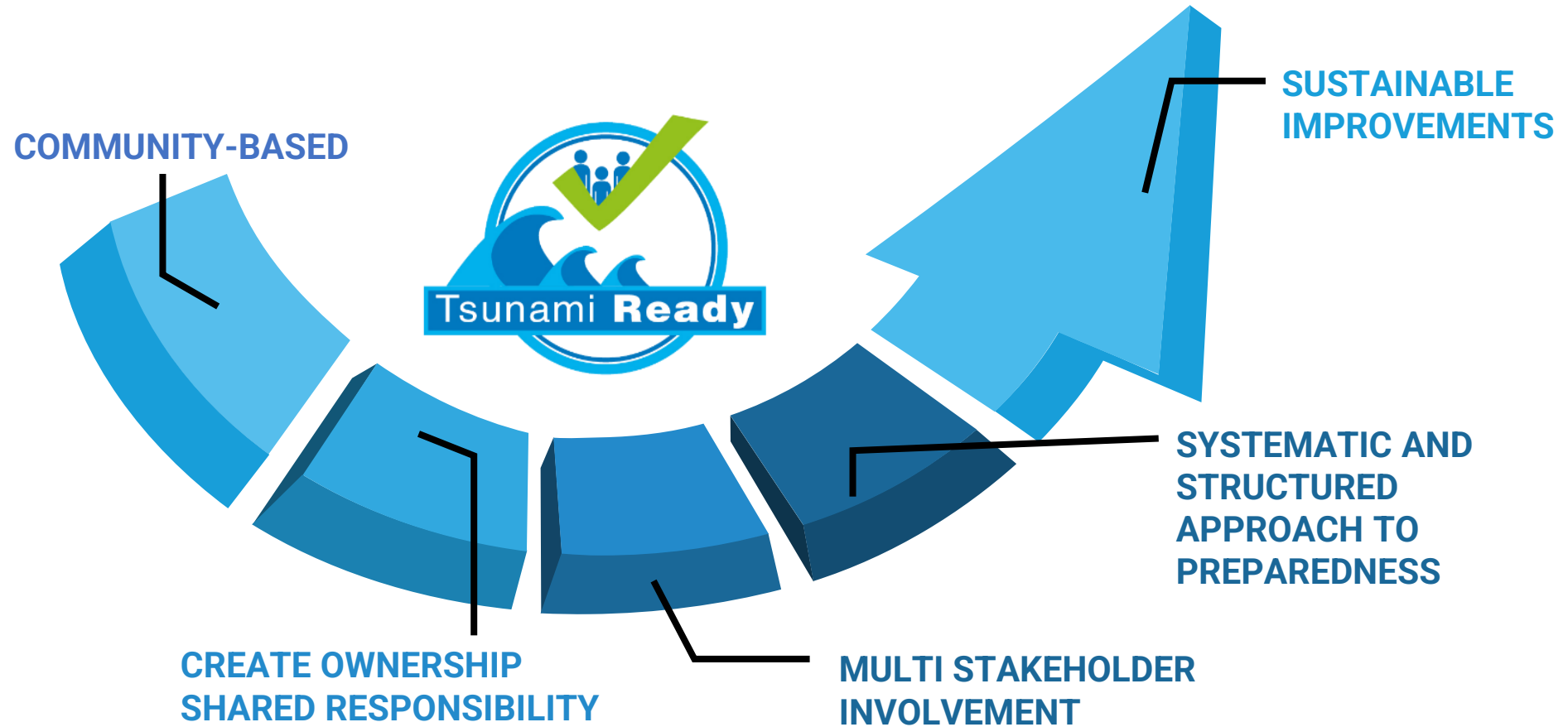
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A Tsunami Ready recognition does not imply approval or promise that a community can or will perform at a certain level in case of a tsunami. Tsunami Ready recognition does not mean that a community is tsunami proof; it is rather an acknowledgment and recognition of the measures adopted by the community to cope with their tsunami risk



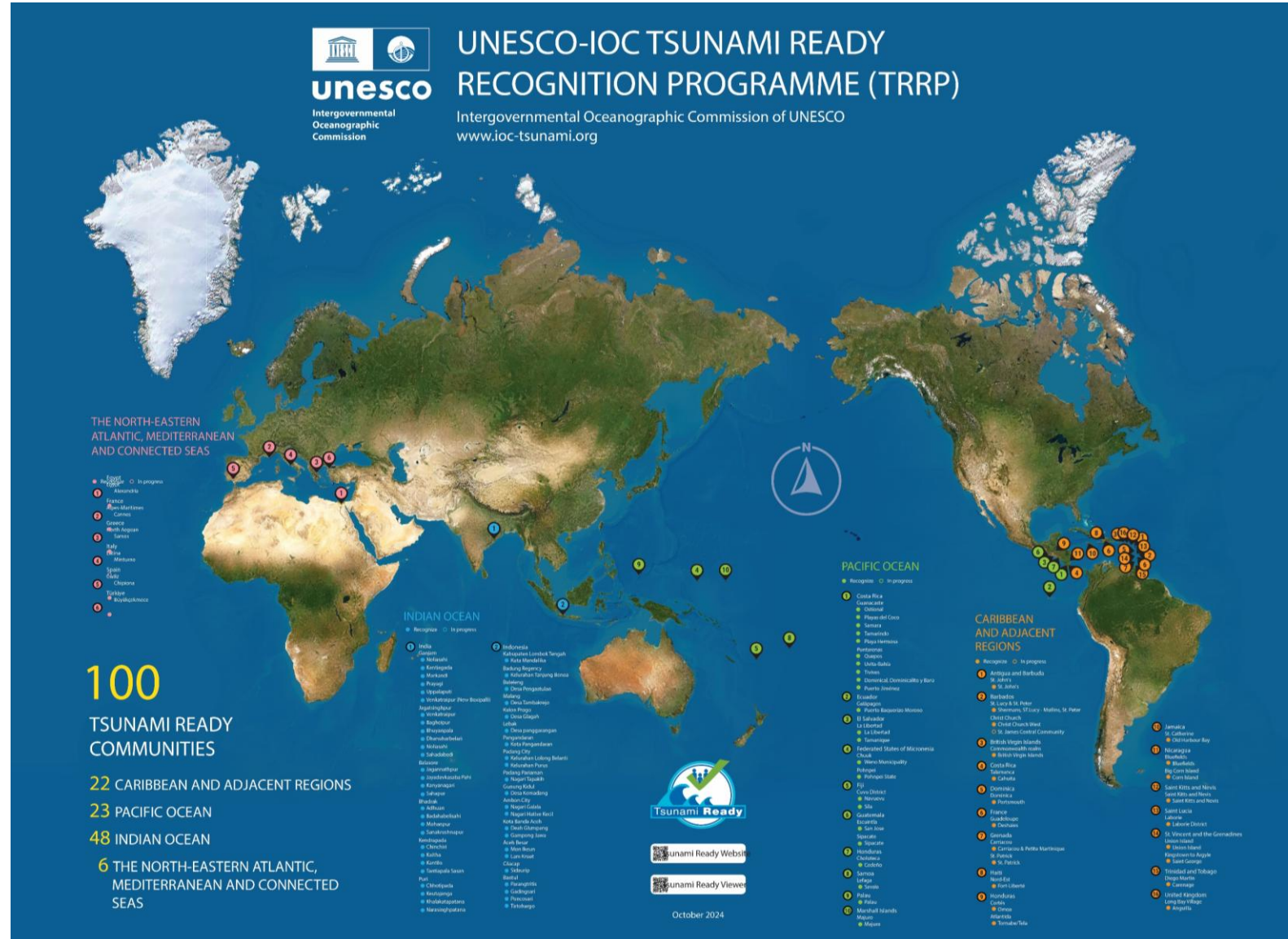
# Summary

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# UNESCO-IOC TSUNAMI READY RECOGNITION PROGRAMME





# Thank you Salamat po

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