



Working Group 1 Tsunamis Risk, Community Awareness and Preparedness - Introduction

Dr. Weniza - BMKG
Chair
weniza@bmkg.go.id

Dr. Mahendra S. Ranganahalli - INCOIS
Vice Chair
mahendra@incois.gov.in

1st Meeting of ICG/IOTWMS Working Group 1, Jakarta, 23 July 2025

Term of References (ToR) – WG 1

Liaise with other working group(s) and task team(s) within the ICG/IOTWMS and with working groups from the other ocean basins through the TOWS-WG to:

1. Assist, develop and strengthen the overall capacity and capability of Member States in **tsunami hazard, risk assessment and mitigation, community awareness and preparedness, including for tsunamis generated by non-seismic and complex sources and multi-hazard framework.**
2. Encourage Member States to **mainstream tsunami Disaster Risk Reduction into sustainable development to help achieve resilient communities in the region.**
3. Support **implementation of IOWave Exercises.**
4. Identify areas of priority for action following **assessments, exercises, and real tsunami events.**
5. Provide **advice on user requirements and utility of tsunami warning products and services.**
6. Provide advice to and collaborate with the UNESCO-IOC Indian Ocean Tsunami Information Centre (IOTIC) on **education, awareness and preparedness including for nonseismic and complex sources.**
7. Provide **special attention to the needs of SIDS, LDCs, Africa in the work programme.**
8. Develop WG1 work plans in line with **the broad objectives of ODTP RDIP, Ocean Decade Challenge 6, EW4ALL.**
9. Promote collaboration among academia, research institutions and disaster management offices to encourage multidisciplinary and multi sectoral interaction in **ensuring tsunami risk knowledge are streamlined to risk reduction strategies.**

WG 1 Members (2024-2026)

Members (coming from 8 member states):

1. Dr. Weniza, M.Sc– Chair WG-1-Indonesia
2. Dr. Mahendra S. Ranganahalli – Vice-Chair WG-1-India
3. Dr. Gareth Davies – Australia
4. Mr. Luqman Al Zadjali – Oman
5. Mr. K.A.D.P.K. Kodippili – Sri Lanka
6. Mr. Ameer Haider Laghari – Pakistan
7. Mrs. Hidayanti.– Indonesia
8. Ms Trevi Jayanti Puspasari– Indonesia
9. Dr Khusnul Setia Wardani – Indonesia
10. Ms. Khazainani Salleh – Malaysia
11. Mr. Hadif Alshehhi - UAE
12. Mr. Ali Almehrzi - UAE
13. Mr. Khamis Alnaqbi - UAE

UNESCO-IOC

1. Dr. Srinivasa Kumar Tummala - IOTWMS Secretariat
2. Ms Nora GALE – IOTWMS Secretariat
3. Mr. Ardito M. KODIJAT – IOTIC

Invited Experts (suggested):

1. Mr. Harald Spahn – Germany
2. Prof Dilanthi Amaratunga – UK
3. Prof Richard Haigh – UK
4. Dr Aditya Gusman – Indonesia-GNS New Zealand
5. Dr. Irina Rafliana – Indonesia-Bonn Germany
6. Prof. Fatemeh – UCL-PCTWIN
7. Dr. Finn Lovohlt – GTM-PCTWIN

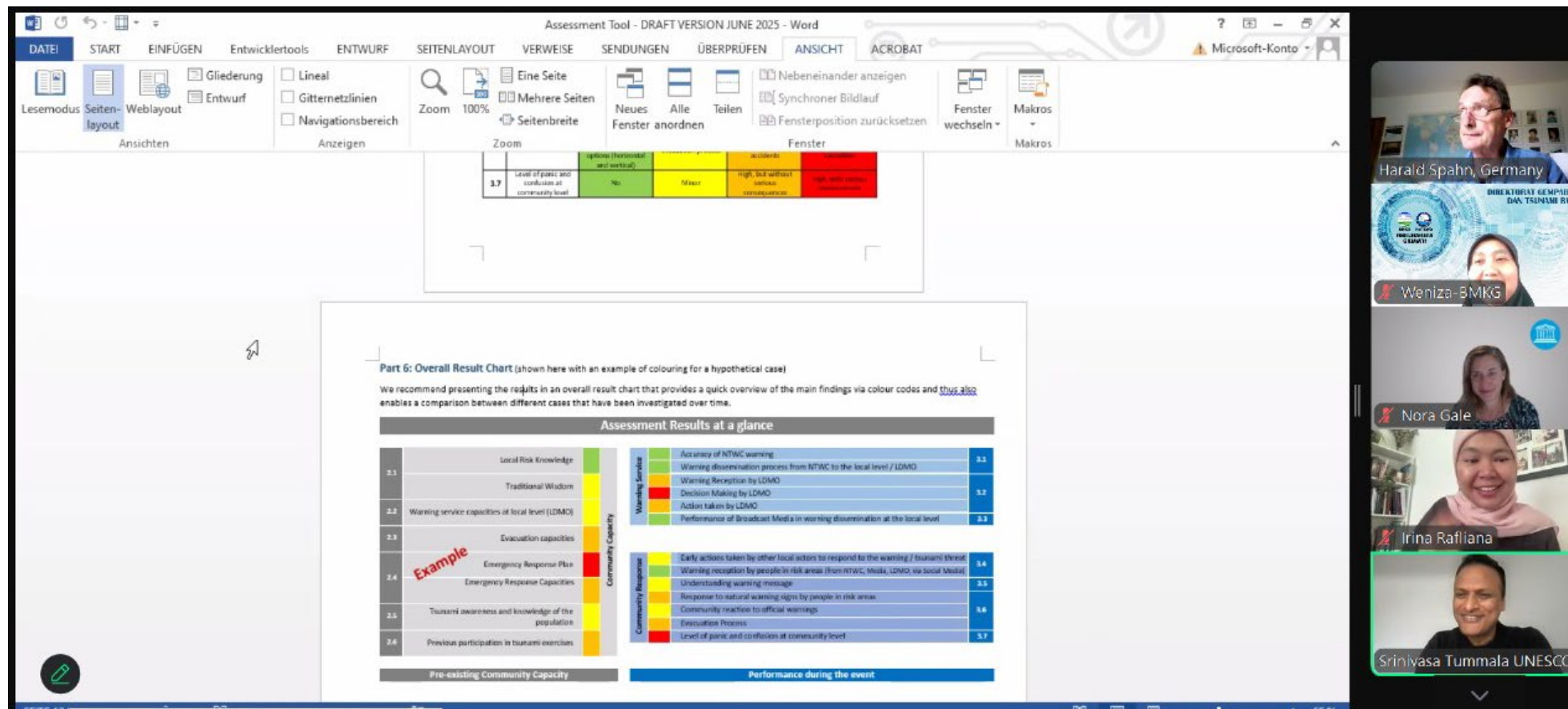
ICG/IOTWMS-XIV Recommendation to WG 1

ICG/IOTWMS was held in Banten, November 2024 with recommendation to WG 1 as follow:

1. Develop **guidelines for Tsunami Ready Critical Infrastructure** in collaboration with WG3 and share with the TOWS-WG in their next meeting.
2. **Probabilistic Tsunami Hazard Assessment** for Indian Ocean including non-seismic sources.
3. Develop **Inclusive People-Centered Early Warning DMO SOPs for near-field tsunamis**.
4. Develop **draft assessment tool for the downstream warning process**.



Discussion WG-1 and Secretariat



The screenshot displays a Microsoft Word document titled "Assessment Tool - DRAFT VERSION JUNE 2025 - Word". The document is in the "ANSICHT" (View) tab, showing a table of assessment results. The table is titled "Assessment Results at a glance" and is divided into two main sections: "Pre-existing Community Capacity" and "Performance during the event".

Pre-existing Community Capacity

Item	Score
2.1 Local Risk Knowledge	3.7
2.2 Traditional Wisdom	3.7
2.3 Warning service capacities at local level (LDMO)	3.7
2.4 Evacuation capacities	3.7
2.5 Emergency Response Plan	3.7
2.6 Emergency Response Capacities	3.7
2.7 Tsunami awareness and knowledge of the population	3.7
2.8 Previous participation in tsunami exercises	3.7

Performance during the event

Item	Score
3.1 Accuracy of NTWC warning	3.1
3.2 Warning dissemination process from NTWC to the local level / LDMO	3.2
3.3 Warning Reception by LDMO	3.2
3.4 Decision Making by LDMO	3.2
3.5 Action taken by LDMO	3.2
3.6 Performance of Broadcast Media in warning dissemination at the local level	3.2
3.7 Early actions taken by other local actors to respond to the warning / tsunami threat	3.7
3.8 Warning reception by people in risk areas (from NTWC, Media, LDMO, via social Media)	3.8
3.9 Understanding warning message	3.9
3.10 Response to natural warning signs by people in risk areas	3.10
3.11 Community reaction to official warnings	3.11
3.12 Evacuation Process	3.12
3.13 Level of panic and confusion at community level	3.13

The video conference overlay on the right shows five participants: Harald Spahn, Germany; Weniza-BMKG; Nora Gale; Irina Rafliana; and Srinivasa Tummala UNESCO...

Online meeting on June 10, 2025

Recommendation of 19th Meeting of the ICG/IOTWMS Steering Group

- Review the draft booklet on ‘Strengthening Tsunami Warning Chains - A visual-based approach to support multi-stakeholder work processes’ for adoption as an IOTWMS document and put up to the TT-DMP for possible adoption as a global document [Action: Working Group 1]
- Formulate a framework to determine how the proposed assessment tool for the downstream warning process may complement and align with existing surveys and tools [Action: Working Group 1]

WG 1 Work Plan Discussion and Action 2024 - 2026

1. Tsunami Warning Chains and Standard Operating Procedure Development in Indian Ocean Countries.

- Warning chain – Referring to IOWave25 and Consulting report
- Warning Chain Booklet

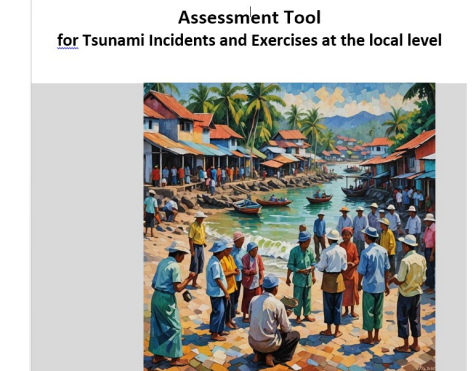
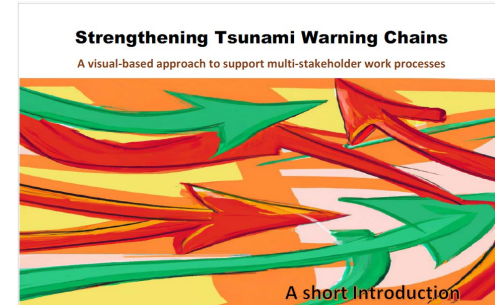
2. Draft [Assessment Tool](#) for Tsunami Incidents and Exercises at the local level

3. Capacity Development [guidelines for Tsunami Ready Critical Infrastructure](#)

4. [PTHA Workshop online \(2026\)](#) : Updating Probabilistic Tsunami Hazard Assessment including Non-seismic Tsunami Hazard Assessment

Liaise Activities with other working group

- [Preserving Past Tsunamis in Collaboration with IOTIC \(2025 & 2026\)](#) -- IOTIC
- [TEMPP training in Collaboration with IOTIC and All Working Groups \(Hyderabad, April 2025\)](#) – WG 3
- [SOP Workshop in Collaboration with Working Group 2 \(2026\)](#) – WG 2
- [Inclusive People Center Early Warning System SOP in the Face of Near Field Tsunami Risk](#) – has been recommended for further global guideline “UNESCO IOC guide”



THANK YOU