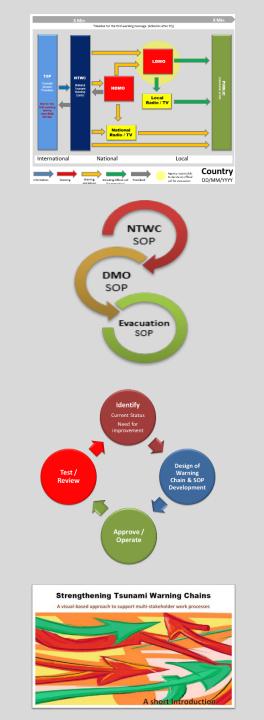


Session 8.2 Tsunami Warning Chains & SOP Development

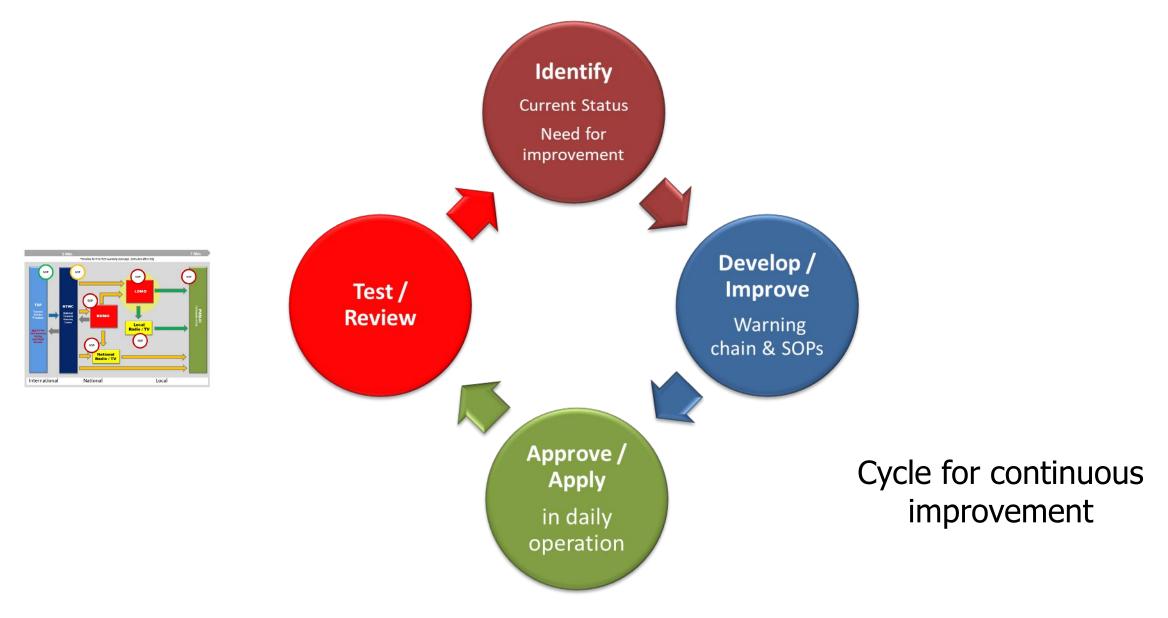
Harald Spahn
Consultant
harald.spahn@web.de

The Big Picture

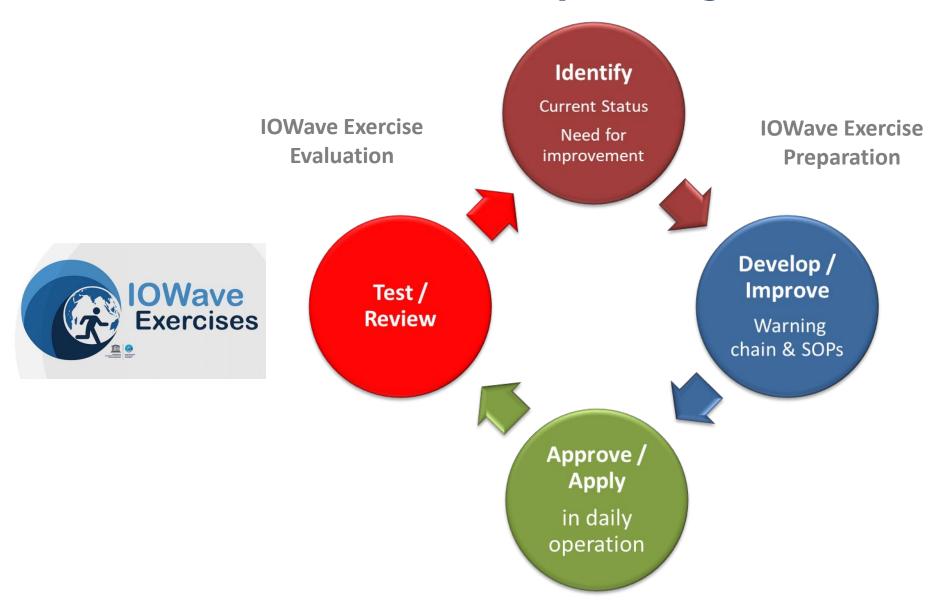
- Importance of well-designed warning chains for a functioning end-to-end warning system → further clarification / fine-tuning recommended in some MS
- To operate the warning chain, timeline-driven and integrated SOPs are essential → Deficiencies observed in N/P/LDMO and Media SOPs a topic in nearly all MS
- 3. Warning chains & SOPs need to be tested and updated on a regular basis for **continuous improvement** → Use the biannual IOWave exercises for this
- 4. The ICG IOTWMS plays an important role to support Member States on this (concepts, tools, training, exercise) → continue support, provide inputs to MS



Warning chains and SOPs should be tested, revised and improved by the Member States at regular intervals

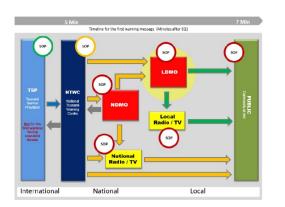


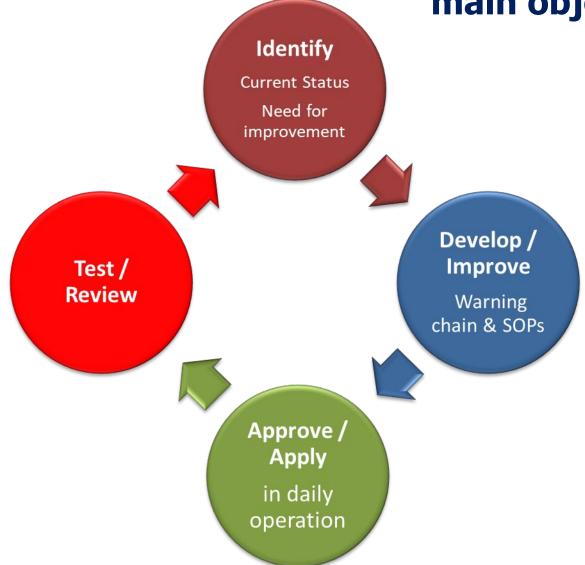
IOTWMS can support MS by integrating such reviews as a regular part of the IOWave exercises and providing the necessary guidance



Ultimately, this would also strengthen IOWave, because testing the warning processes and SOPs along the warning chains is one of the main objectives of IOWave







ICG IOTWMS Working Process in 2023 / 2024

Status Report and Specific Feedback for Country Teams (01-03/24) – both not yet shared or published

Post-IOWave Webinar to

discuss lessons learnt 12/23



Test / Review **Identify**

Current Status

Need for
improvement

Online Meetings to share current status and recommendations by consultant (06/23)

Develop / Improve

Warning chain & SOPs

Regional SOP Trainings

(blended) to strengthen
capacities and support
working processes in
Member States – WIO / EIO
in 06/23 and NWIO 07/23

Media SOP Training postponed

Approve / Apply

in daily operation

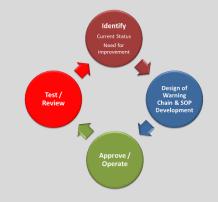
Interinstitutional working processes

by Member States to improve / consolidate warning chains and SOPs in preparation for IOWave23

How to move on in 2025?

- Promote and support the continuous improvement of warning chains and SOPs by MS (→ WGs, Secretariat) and integrate it strategically in the preparation, implementation and evaluation of IOWave25 (→ TT IOWave25)
- Share already developed references to MS: i.e. Status
 Report and Specific Feedback for Country Teams (latter on a individual basis) (→ WG, Secretariat?)
- 3. Publication of booklet on the visual based approach as a tool to strengthen tsunami warning chains as IOC UNESCO document (→ WG, Secretariat?)









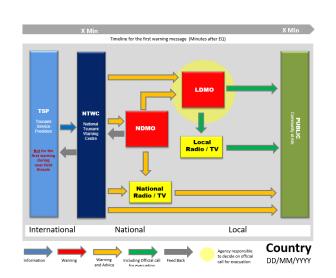
Graphics as a tool to work on Tsunami Warning Chains and SOP Development

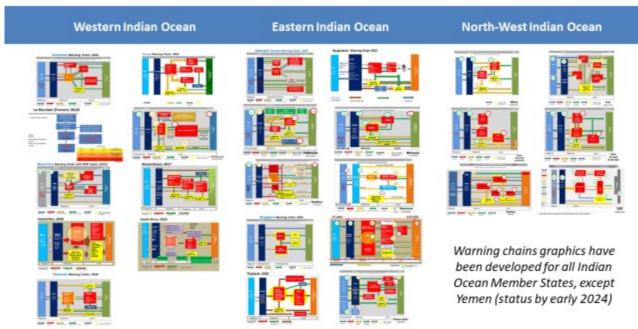
This is how it started in the SOP Workshop 2011 in Jakarta...



...and this is the template we use nowadays



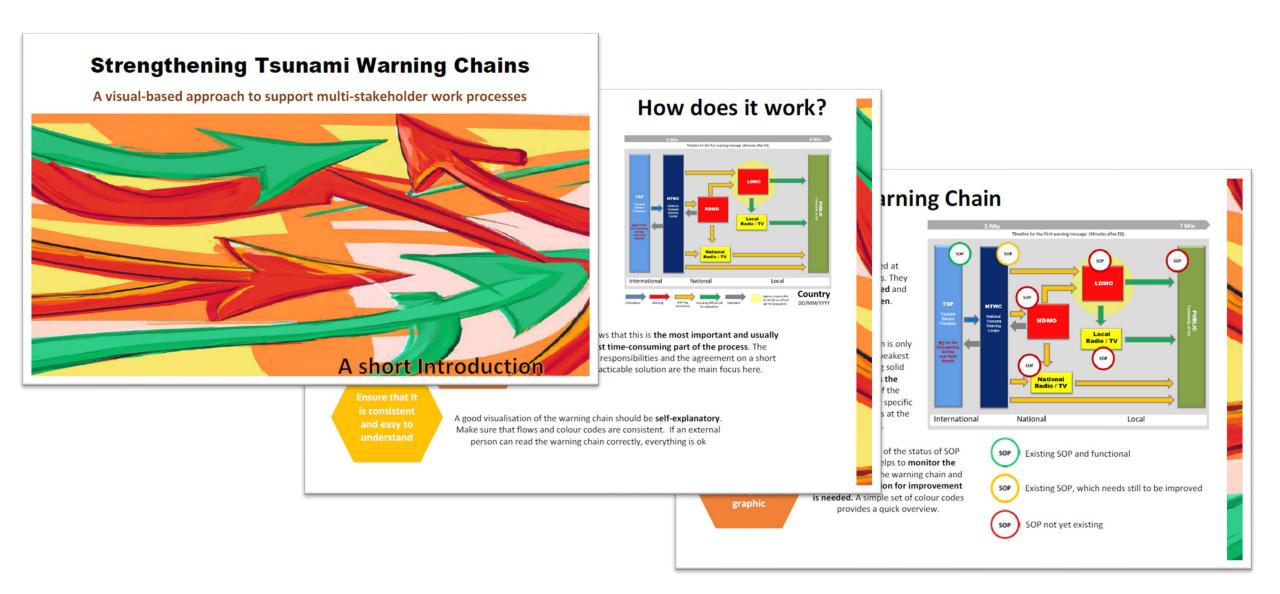




Warning chains and SOPs have so far been designed exclusively for seismically induced tsunamis. Possible non-seismic events still need to be taken into account

...applied by all Member
States, except Yemen

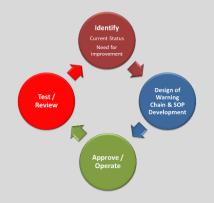
A short booklet to share the concept and experience of the visual based approach to strengthen tsunami warning chains — ready for publication

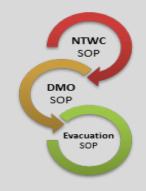


Beyond 2025?

- 1. Systematization of learnings from IOWave25 to further support the continuous improvement of warning chains and SOPs
- 2. Support the development of **N/P/LDMO** and **Media SOPs** (through piloting, maybe as part of the 2026 support?). Share sound and proven DMO SOPs among Member States
- 3. Continue the joint learning in groups of Member States from geographical regions with similar tsunami threat and warning requirements (EIO, WIO, NWIO)









THANK YOU