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Intergovernmental
Oceanographic
Commission

OTGA Tsunami Ready Training

ICG/IOTWMS WG-1 Meeting
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With acknowledgment to
Tony ELLIOTT (Consultant)

OTGA Tsunami Ready Training

Course and Module Breakdown

3 Course breakdown

3 Types of modules

	Introduction to Tsunami Ready and the Indicators	Implementing Tsunami Ready	Facilitating Tsunami Ready
Tsunami Ready for Decision Makers <i>(Gov Officials, NDMO, DDMO, NTWC)</i>			
Tsunami Ready for Community <i>(Community Leader, Community DRM, NGO, DDMO)</i>	4 x lectures: # hours Training program (Incl. Quiz)	2 x lectures: # hours Training program (Incl. Quiz)	
Tsunami Ready for Facilitators <i>(Community DRM, NGOs, Students, Youth groups, DDMO)</i>		2 x lectures: # hours Training program (Incl. Quiz)	4 x lectures: # hours Training program (Incl. Quiz)

	Introduction to Tsunami Ready	Tsunami Ready Indicators	Implementing Tsunami Ready	Facilitating Tsunami Ready
Tsunami Ready for Decision Makers <i>(Gov Officials, NDMO, DDMO, NTWC)</i>				
Tsunami Ready for Community <i>(Community Leader, Community DRM, NGO, DDMO)</i>	2 x lectures: # hours Training program (Incl. Quiz)	2 x lectures: # hours Training program (Incl. Quiz)	2 x lectures: # hours Training program (Incl. Quiz)	
Tsunami Ready for Facilitators <i>(Community DRM, NGOs, Students, Youth groups, DDMO)</i>				4 x lectures: # hours Training program (Incl. Quiz)



OTGA Tsunami Tsunami Ready Training

Module 1 Tsunami Ready for Decision Makers

Training for Government Officials i.e. from National or Local Disaster Management Offices, National Tsunami Warning Centres, Focal Points, and Donors

- 2 Courses (Course 1 - 2)
- 4 Lectures (Lecture 1 – 4)
- Approximately 4 x 45 minutes

Module 2 Tsunami Ready for Community

Training for Community leaders, Non-Governmental Organizations (NGOs), Civil Society Organizations (CSOs), Academics and Scientists, Community members, Private, Business, Tourism sectors, etc.

- 3 Courses (Course 1 - 3)
- 6 Lectures (Lecture 1 – 6)
- Approximately 6 x 45 minutes

Module 3 Tsunami Ready for Facilitators

Training for Disaster Risk Reduction Facilitators for Disaster risk reduction workers and volunteers who are interested in assisting the community in capacity building for tsunami preparedness, etc.

- 4 Courses (Course 1 - 4)
- 10 Lectures (Lecture 1 – 10)
- Approximately 12 x 45 minutes

	Introduction to Tsunami Ready and the Indicators	Implementing Tsunami Ready	Facilitating Tsunami Ready
Tsunami Ready for Decision Makers <i>(Gov Officials, NDMO, DDMO, NTWC)</i>			
Tsunami Ready for Community <i>(Community Leader, Community DRM, NGO, DDMO)</i>	4 x lectures: # hours Training program (Incl. Quiz)	2 x lectures: # hours Training program (Incl. Quiz)	
Tsunami Ready for Facilitators <i>(Community DRM, NGOs, Students, Youth groups, DDMO)</i>			4 x lectures: # hours Training program (Incl. Quiz)

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Course Objectives

Introduction to
Tsunami Ready
&
Tsunami Ready
Indicators

- **What is Tsunami Ready**
- **Why is it important**
- **What is the benefit of implementing Tsunami Ready**
- **What are the indicators**
- **Why are these indicators**

Implementing
Tsunami Ready

- **What do community do to start to implement Tsunami Ready**
- **Who are the stakeholder and the technical organization**
- **How to approach the organizations**

Facilitating
Tsunami Ready

- **What does each of these indicator means and the relation of each indicators**
- **How to work on each of the Indicators**

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Course Lectures

Course 1
Introduction to
Tsunami Ready
&
Tsunami Ready
Indicators



Lecture 1: What is Tsunami Ready and what are the benefits to the Community?

+ 1 x 45 minutes (25 slides)

Lecture 2: What is the process for implementing Tsunami Ready?

+ 1 x 45 minutes (28 slides)

Lecture 3: Overview of the Tsunami Ready Indicators

+ 1 x 45 minutes (21 slides)

Lecture 4: How do the indicators relate to each other and the community?

+ 1 x 45 minutes (22 slides)

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Course 2 Implementing Tsunami Ready

- Lecture 5: How does a community start to implement Tsunami Ready?
+ 1 x 45 minutes (24 slides)
- Lecture 6: Who are the stakeholders and technical organisations involved?
+ 1 x 45 minutes (12 slides)

Course 3 Facilitating Tsunami Ready

- Lecture 7: How to achieve the indicators – ASSESSMENT
+ 1 x 45 minutes (32 slides)
- Lecture 8: How to achieve the indicators – PREPAREDNESS
+ 2 x 45 minutes (96 slides)
- Lecture 9: How to achieve the indicators – RESPONSE
+ 1 x 60 minutes (52 slides)
- Lecture 10: Engaging the community in a participatory approach
+ 1 x 60 minutes (51 slides)

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Examples of the PPT Slides Lecture 1: What is Tsunami Ready and what are the benefits to the Community



1. Course 1: Introduction to Tsunami Ready
Lecture 1: What is Tsunami Ready and what are the benefits to the Community?

2. Introduction
Tsunami are caused by geological events such as sea earthquakes, tsunamis and volcanic eruptions.
Tsunami can cause a surge of water that can reach several metres high and travel for thousands of kilometres across the open ocean.
Tsunami are not just waves with water moving in and out of the beach.
Tsunami can be very dangerous and can cause significant damage to coastal communities and infrastructure.
Tsunami can be very dangerous and can cause significant damage to coastal communities and infrastructure.

3. What Causes Tsunamis?
Most tsunamis are caused by sudden movement of the seafloor, caused by earthquakes, volcanic eruptions and landslides.
Tsunami can also be caused by meteorite impacts.
Tsunami are not just waves with water moving in and out of the beach.
Tsunami can be very dangerous and can cause significant damage to coastal communities and infrastructure.

4. Tsunami propagation
Tsunami propagation speed is directly proportional to the depth of the water. Tsunami travel faster in deep water.
Tsunami propagation speed is directly proportional to the depth of the water. Tsunami travel faster in deep water.
Tsunami propagation speed is directly proportional to the depth of the water. Tsunami travel faster in deep water.

5. Tsunami inundation
Tsunami inundation is the horizontal 'flooding' of the coastal zone.
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Tsunami inundation is the horizontal 'flooding' of the coastal zone.

6. Where do Tsunamis Occur?
Tsunami can be generated in all oceans, inland seas and large bodies of water.
The vast majority are generated in the Pacific Ocean.
The deadliest tsunami is recorded having occurred in the Indian Ocean in December 2004.
The deadliest tsunami is recorded having occurred in the Indian Ocean in December 2004.

7. End to End Tsunami Warning System
An end-to-end tsunami warning system is designed to detect the generation of tsunamis, assess the risk of tsunamis, issue warnings to the public and provide information on the status of the warning system.
An end-to-end tsunami warning system is designed to detect the generation of tsunamis, assess the risk of tsunamis, issue warnings to the public and provide information on the status of the warning system.

8. Response starts with Preparedness
Preparedness is the first step in the tsunami response process.
Preparedness is the first step in the tsunami response process.
Preparedness is the first step in the tsunami response process.

9. Global coordination by UNESCO IOC
UNESCO IOC established an international coordination group for the Tsunami Warning System in the Pacific, following the 1992 earthquake and tsunami in Chile in 1992.
UNESCO IOC established an international coordination group for the Tsunami Warning System in the Pacific, following the 1992 earthquake and tsunami in Chile in 1992.

10. Global Network of Tsunami Warning and Mitigation Systems
The global network of tsunami warning and mitigation systems consists of several regional systems.
The global network of tsunami warning and mitigation systems consists of several regional systems.

11. Recap
Tsunami are sea level events which travel faster than tsunamis.
Tsunami are sea level events which travel faster than tsunamis.
Tsunami are sea level events which travel faster than tsunamis.

12. The UNESCO IOC Tsunami Ready Recognition Programme
Tsunami Ready is a community performance-based programme for tsunami preparedness, to ensure the safety of the community and property, and to ensure a structured and systematic approach to building community preparedness.
Tsunami Ready is a community performance-based programme for tsunami preparedness, to ensure the safety of the community and property, and to ensure a structured and systematic approach to building community preparedness.

13. History of Tsunami Ready Programme
The history of the tsunami ready programme is marked by several key milestones.
The history of the tsunami ready programme is marked by several key milestones.

14. Tsunami Ready in UN Ocean Decade of Ocean Science for Sustainable Development
Tsunami Ready is a key component of the UN Ocean Decade of Ocean Science for Sustainable Development.
Tsunami Ready is a key component of the UN Ocean Decade of Ocean Science for Sustainable Development.

15. Tsunami Ready in Global Platforms
SAFE OCEAN
SAFE OCEAN
SAFE OCEAN

16. UNESCO IOC Tsunami Ready Approach
Being the starting point of preparations for tsunami ready is the first step in the tsunami response process.
Being the starting point of preparations for tsunami ready is the first step in the tsunami response process.

17. Tsunami Ready Indicators
Tsunami Ready consists of 14 indicators, which are divided into four categories: Preparedness, Response, Recovery and Resilience.
Tsunami Ready consists of 14 indicators, which are divided into four categories: Preparedness, Response, Recovery and Resilience.

18. Why do you need Tsunami Ready?
An end-to-end tsunami warning system will not be effective if the community of risk does not have the knowledge and capacity to respond to the early warning.
An end-to-end tsunami warning system will not be effective if the community of risk does not have the knowledge and capacity to respond to the early warning.

19. Benefits of Tsunami Ready Programme
1. Strengthen tsunami preparedness of coastal communities.
2. Improved preparedness of schools, hospitals, and businesses.
3. Improved early warning warning systems.
4. Improved public awareness and understanding of tsunami risk and preparedness.
5. Improved community planning.
6. Strengthened community resilience to disaster risk reduction.
7. Contribution to the goals of the Sustainable Development Goals (SDGs).
8. International recognition from UNESCO IOC as Tsunami Ready Community.

20. Why apply for Tsunami Ready recognition?
1. To improve the effectiveness and resilience of the community.
2. To include the community in the tsunami response process.
3. To improve the sustainability of the community.
4. To improve the resilience of the community.
5. To improve the resilience of the community.

21. Benefits of UNESCO IOC Tsunami Ready Recognition
1. Knowledge as a community that has met and exceeded the standards of the tsunami ready programme and is internationally recognized as Tsunami Ready.
2. Included in the global map of Tsunami Ready communities.
3. Potential economic benefits, as a result of improved preparedness and resilience.
4. International recognition from UNESCO IOC as Tsunami Ready Community.

22. Tsunami Ready Disclaimer
A Tsunami Ready recognition does not imply approval or guarantee 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.

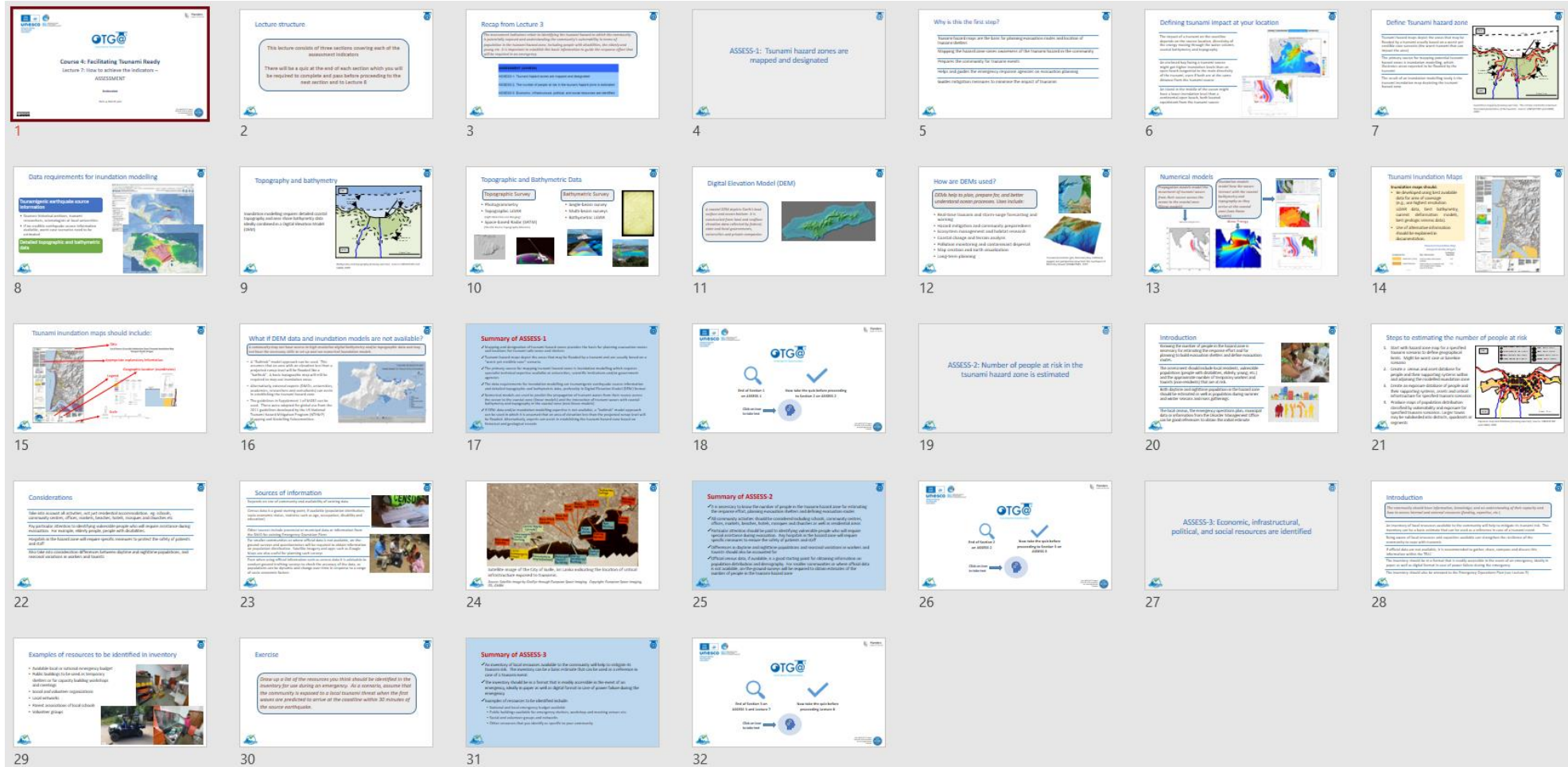
23. Tsunami Ready in different regions
26 Communities / 18 Countries
Caribbean
• St. Kitts and Nevis
• Anguilla
• British Virgin Islands
• Guadeloupe
• Haiti
• Antigua and Barbuda
Pacific
• Tonga
• Cook Islands
• Samoa
• Niue
Indian Ocean
• Mauritius
• Maldives
• Sri Lanka

24. Summary
Tsunami Ready is a community performance-based programme that facilitates preparedness for tsunami response.
Tsunami Ready is a community performance-based programme that facilitates preparedness for tsunami response.

25. End of Lecture 1
Now take the quiz before proceeding to Lecture 2

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Examples of the PPT Slides Lecture 7: How to achieve the indicators – ASSESSMENT

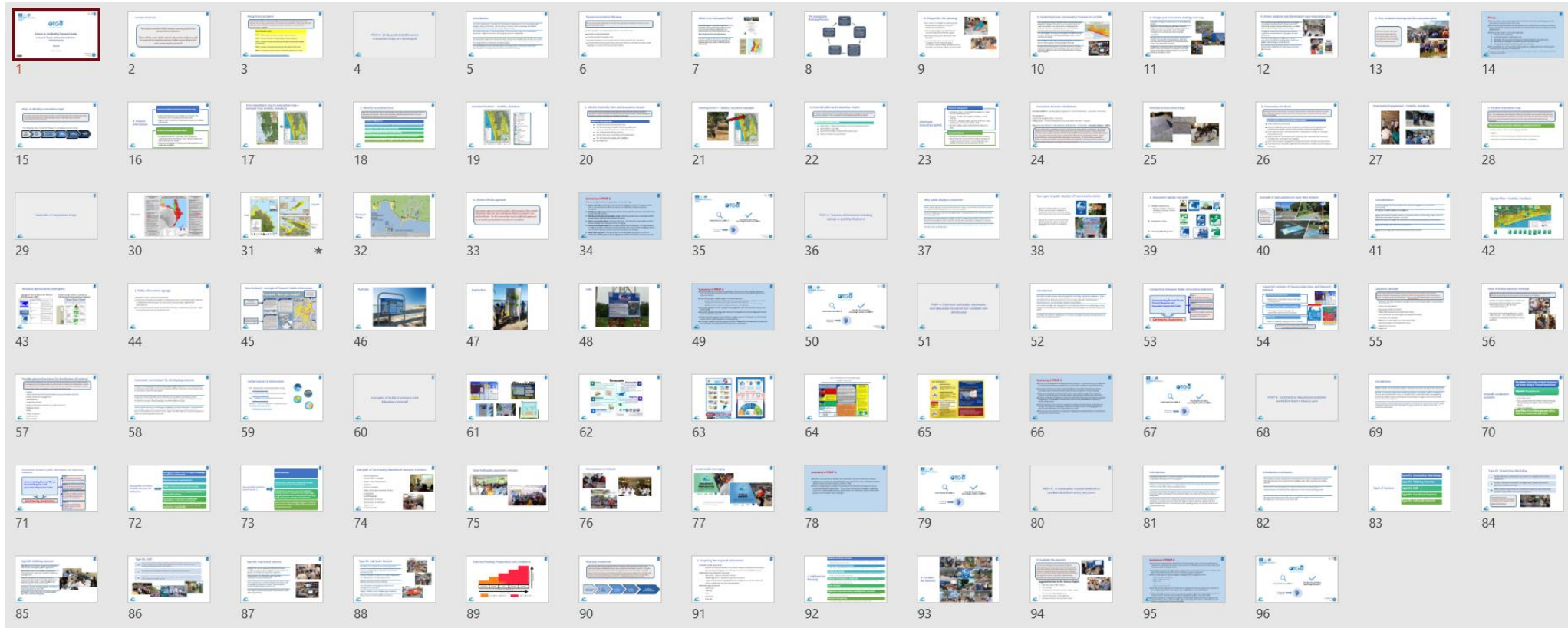


The grid contains 30 numbered PPT slides, each with a small blue icon in the top right corner. The slides are arranged in a 5x6 grid:

- 1: Course 4: Facilitating Tsunami Ready - Lecture 7: How to achieve the indicators – ASSESSMENT
- 2: Lecture structure
- 3: Recap from Lecture 3
- 4: ASSESS-1: Tsunami hazard zones are mapped and designated
- 5: Why is this the first step?
- 6: Defining tsunami impact at your location
- 7: Define Tsunami hazard zone
- 8: Data requirements for inundation modelling
- 9: Topography and bathymetry
- 10: Topographic and Bathymetric Data
- 11: Digital Elevation Model (DEM)
- 12: How are DEMs used?
- 13: Numerical models
- 14: Tsunami Inundation Maps
- 15: Tsunami inundation maps should include:
- 16: What if DEM data and inundation models are not available?
- 17: Summary of ASSESS 1
- 18: OTGA logo and a flowchart showing 'Check our progress' and 'How are you before proceeding to ASSESS 2?'
- 19: ASSESS-2: Number of people at risk in the tsunami hazard zone is estimated
- 20: Introduction to ASSESS-2
- 21: Steps to estimating the number of people at risk
- 22: Considerations for ASSESS-2
- 23: Sources of information for ASSESS-2
- 24: Summary of ASSESS 2
- 25: OTGA logo and a flowchart showing 'Check our progress' and 'How are you before proceeding to ASSESS 3?'
- 26: ASSESS-3: Economic, infrastructural, political, and social resources are identified
- 27: Introduction to ASSESS-3
- 28: Introduction to ASSESS-3 (continued)
- 29: Examples of resources to be identified in inventory
- 30: Exercise for ASSESS-3
- 31: Summary of ASSESS 3
- 32: OTGA logo and a flowchart showing 'Check our progress' and 'How are you before proceeding to ASSESS 4?'

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Examples of the PPT Slides Lecture 8: How to achieve the indicators – Preparedness



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Follow Up on TR OTGA Training Course

1. Consult with Tsunami Unit and OTGA
2. Consult with Tsunami Ready Experts
3. Intro / Course information slides (after the cover): Objective of the lecture and what they will learn from this lecture
4. Link to references, i.e. articles, videos, news
5. Voice over by lecturer
 1. Narration for each slides
 2. Recording the video – voice for each slides
6. Quizzes



Thank you

Acknowledgements:

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**UNESCO-IOC Indian Ocean Tsunami Information Centre
IOTIC-BMKG Programme Office**

**Disaster Risk Reduction and Tsunami Information Unit
UNESCO Jakarta Office**

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