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# Phase 2c Objectives and Plans

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Launch of Project Phase 2c:  
“Strengthening tsunami early warning in the North-West Indian Ocean region through regional cooperation”  
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# Strengthening tsunami early warning in the North-West Indian Ocean region through regional cooperation

## Aims

### *Phase 1: US\$ 147,470*

- 1) Better understanding of the tsunami risk knowledge to inform and underpin warning and mitigation systems in the NWIO to enable appropriate and effective community responses to the tsunami threat.
- 2) Improvement of warning services at NTWC level and the organization of the national warning chains to assure timely warnings.

### *Phase-2a:*

1. Finalisation of some Phase-1 remaining activities in tsunami risk knowledge and strengthening of national tsunami warning chains

### *Phase-2b:*

2. Gap analysis and development of guidance on tsunami inundation mapping and evacuation planning in the NWIO region

*Project Cost US\$ 280.442,-*

### *Phase-2c: US\$ 298.834,-*

*(Incl. Remaining Phase 2ab USD 58.834)*

- 1) Training in development of tsunami inundation maps and evacuation plans to facilitate effective community responses to the threat from near-field and far-field tsunamis.

### *Phase-3: To be proposed*

- 1) Implement Tsunami Ready Recognition Programme (or similar national initiative) in each country.

# Goals of Phase 2c

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1. Development of hazard and inundation mapping capabilities by enhancing capacities in tsunami modelling.
2. Development of evacuation planning capabilities in line with the requirement for communities to effectively respond to the threat from near-field and far-field tsunamis.

# Objective Phase 2c

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Training in development of tsunami inundation maps and evacuation plans to facilitate effective community responses to the threat from near-field and far-field tsunamis.

# Expected Outcomes Phase 2c

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- **Increased capacities and knowledge on tsunami and inundation modelling and mapping** in the participating countries
- **Improved databases for tsunami forecasting** at NTWC level
- **Increased coverage of areas with scientifically robust inundation maps for the threat of tsunami**, as well as information for risk-sensitive planning
- **Tested and approved tsunami evacuation plans in selected pilot areas** providing references for further up-scaling
- **National mechanism and capability to support the development of evacuation plans at community level** in remaining tsunami prone areas in line with the requirements of the UNESCO/IOC Tsunami Ready Programme

# Outputs of Phase 2c

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- 1. Regional training workshop for members of the NWIO Regional Working Group on Tsunami Inundation Modelling and Mapping (RWG-TIMM).**
- 2. Regional training workshop for selected participants from the National Working Groups on Tsunami Evacuation Planning (NWG-TEPs) of the member countries to build the required capacities to facilitate and provide technical expertise for evacuation planning processes at local level**
- 3. Implementation and backstopping during the evacuation planning and implementation processes in pilot communities to help strengthen capacities of the national facilitators, and to assure quality in the processes and outputs.**

# Performance Indicators for Phase 2c

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- 1. Detailed reports on training provided on inundation mapping and evacuation planning, including community inundation and evacuation maps**
- 2. Detailed reports on the testing of the developed evacuation plans (one pilot community per country) in a tsunami drill for each community**

# Activity Output 5.1 Regional blended (face to face and virtual) training workshop on inundation mapping

*Capacity development utilising NWIO Regional Working Group Tsunami Inundation Modelling and Mapping (NWIO RWG-TIMM) to utilise unified approach developed in Phase 2a to develop inundation maps for identified pilot areas.*

Four (4) days regional blended (face to face and virtual) training workshop in location TBD

- IOC Facilitator/Coordinator/Technical Assistant: 1 Person
- Representatives of the NWIO RWG-TIMM: 2 from each country = 6 Persons
- Representatives of the NWIO RWG Chair or Task Team MSZ: 1 Person
- Representative of the ICG/IOTWMS WG1 or WG3 Chair: 1 Person
- Trainer / Facilitator: 1 Person
- Facilitation for Regional SOP Workshop (Venue and Meeting Package)

International Consultant

- External Facilitator/Consultant/Technical Assistant
- Travel to Workshop

National Consultant (India, Iran, Pakistan)

- National Facilitator/Consultant/Technical Assistant : 3 persons
- Travel to Workshop (1 person each country)



# Activity Output 5.2 Regional face-to-face training workshop on evacuation planning

*Regional training workshop to build the required capacities to facilitate and provide technical expertise for evacuation planning processes at local level.*

## Four (4) days regional training workshop in location TBD

- IOC Facilitators/Coordinators/Technical Assistants: 2 Persons
- Representatives of the National Working Groups Tsunami Evacuation Planning: 5 from each country = 15 Persons
- Representative of the NWIO WG Chair: 1 Person
- Representative of the ICG/IOTWMS WG3 Chair: 1 Person
- Facilitator and Translator (Farsi): 2 Persons
- Facilitation for Regional SOP Workshop (Venue and Meeting Package)

## International Consultant

- External Facilitator/Consultant/Technical Assistant
- Travel to Workshop

## National Consultants (India, Iran, Pakistan)

- National Facilitator/Consultant/Technical Assistant (1 person each country = 3 persons)
- Travel to Workshop (1 person each country = 3 persons)

# Activity Output 5.3 National Implementation and backstopping during the evacuation planning processes in pilot communities

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*Backstopping support during the national evacuation planning processes in pilot communities and systematization of experiences feedback for possible adaptations of the methodology.*

## International Consultants

- International Consultant backstop national inundation mapping
- International Consultant backstop national evacuation planning

## National Consultants (3 - India, Iran, Pakistan)

- National Facilitator/Consultant/Technical Assistant
- In country travel and organisation 1 national meeting each.

Translation of MG 74 (Tsunami Ready) to Farsi:

Translation of MG 82 (Preparing For Community Tsunami Evacuation) to Farsi and Urdu

# Activity Output 6

## Project Monitoring and Evaluation

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*External Consultant for final project evaluation.*

### **Activities**

#### International Consultant

- External Facilitator/Consultant/Technical Assistant
- Travel to Perth 3 days.

# Schedule

Objectives	2023			2024								
	Oct	Nov	Dec	Jan	Feb	March	April	May	Jun	Jul	Aug	Sept
<b>5. Training in development of tsunami inundation maps and evacuation plans to facilitate effective community responses to the threat from near-field tsunamis.</b>												
<b>5.0. Engage Internatioal and National Consultants:</b>												
Engage International: Inundation Modeling		1st week										
Engage National Consultants: Inundation Modeling				1st week								
Engage Internatioal: evacuation planning		1st week										
Engage National Consultants: evacuation planning				1st week								
<b>5.1. Regional training workshop on Tsunami Inundation Modelling and Inundation Mapping</b>												
Virtual coordination and meetings with Regional Working Group TIMM (RWG-TIMM)												
Regional Workshop on Tsunami Inundation Modelling and Mapping in UAE or Oman						1st week						
Prepare inundation maps for Pilot Areas												
<b>5.2. Regional training workshop for evacuation planning processes at local level</b>												
Virtual coordination and meetings with National Working Groups Tsunami Evacuation Planning (NWG-TEP)												
Regional training workshop on evacuation planning in Oman						1st week						
<b>5.3 National implementation and backstopping during evacuation planning processes in pilot communities</b>												
Engage Consultant for translation MG74 (Tsunami Ready) and MG 82 Tsunami Evacuation		1st week										
Contracting for translation layout and printing of MG74 and MG82				2nd week								
Evacuation plans prepared for Pilot Communities												
Tsunami drills for Pilot Communities (To be discussed and agreed with National Stakeholders)											Drill	
<b>6. Project Evaluation</b>												
Engage consultants								1st week				
Complete NWIO Project Phase 2a 2b 2c evaluation report												
<b>Project Reporting</b>												
6 month reporting to ESCAP												

  

Project work and preparation activities	Virtual Coordination Meeting with National Working Group	Preparation for Consultant solicitation	Contractual engagement with Consultant	Consultant working period	Workshop Preparation	Events: Workshops (Date to be decided)	Backstopping Period	Project Reporting
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	Current End of Project	Proposed End of Project
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# Status of Phase 2c

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- LoA has been signed
- Waiting for Amendment to:
  - Include remaining budget of Phase 2ab
  - Ending Phase 2c to be in September
- Disbursement of the First Instalment.

# THANK YOU

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