Scaling up Early Warning Systems – Implementation Roadmap

## [NAME of Country, timeline of roadmap]

## Background

The Sustainable Development Goals and the Sendai Framework for Disaster Risk Reduction 2015-2030 identify strengthened early warning systems as a critical component of building the resilience to disasters and crises and, by extension, contributing to sustainable development.

Early warning systems (EWS) are key elements of disaster risk reduction and climate change adaptation, as they help reduce or avoid the detrimental impacts of hazardous events. To be effective, early warning systems need to be risk-informed, target communities most at risk, disseminate messages and warnings efficiently, ensure preparedness and support early action. Early warning systems must rely on a sound scientific and technical basis and focus on the most vulnerable people and sectors. This implies the adoption of a system-based approach incorporating all relevant risk factors, whether arising from the climate-hazards or social vulnerabilities, and from short-term or long-term processes.

Early warning systems include four pillars: 1) disaster risk knowledge, 2) observation, monitoring, analysis, and forecasting, 3) warning dissemination and communication and 4) preparedness and response capabilities.

Multi-sector and multi-stakeholder coordination, involvement of communities at risk, having an enabling institutional and legislative environment, clear roles and responsibilities, and adequate operational capacities, are essential for effective and consistent Early Warning Systems.

Early Warnings for All (EW4All) is a special initiative of the UN Secretary General, which aims to spearheading action to ensure every person on Earth is protected by early warning systems by 2027. Under the umbrella of EW4All, [COUNTRY] aims to scale up prior efforts and strengthen national early warning systems.

[*PLACEHOLDER for national context and background: regulations on early warning systems, existing EWS frameworks and gaps*]

## Purpose and objectives

This EWS Implementation Roadmap [TIME PERIOD] serves as a strategic guide to drive initiatives spanning national to local levels, channel investments towards enhancing Early Warning Systems for more effective Disaster Risk Reduction (DRR), and facilitate the seamless integration of comprehensive early warning mechanisms. Organizations are encouraged to incorporate these actions into their operational frameworks, aligning with their primary and supportive responsibilities. This harmonization ensures the optimal utilization of resources across the spectrum from national to local levels.

The primary objective of this Roadmap is to provide the national and local governments with a structured blueprint for fortifying a people-centric Early Warning System in [COUNTRY NAME] through targeted actions and resource allocation. This Roadmap stems from an extensive gap analysis of [COUNTRY’s] EWS, which included the application of a Minimum Core Capability Checklist in the form of [workshop / surveys / stakeholder consultations]. This roadmap presents a set of recommended actions designed to prioritize investments in EWS and DRR, in accordance with Target G of the Sendai Framework for Disaster Risk Reduction, and [reference to any relevant regional or national strategic document].

Collaboratively crafted with inputs from [list national agencies], this Roadmap was developed by [agency]. It provides a basis for coordinated efforts among diverse national and local agencies, channeling focused programming and resource allocation towards scaling up national early warning systems.

The recommendations presented herein are based on identified national gaps, priorities and needs and cover the four pillars as well as the interpillar domain of EWS:

Pillar 1: Disaster Risk Knowledge

Pillar 2: Detection, Monitoring, Analysis, and Forecasting

Pillar 3: Warning Dissemination, and Communication

Pillar 4: Preparedness and Response Capabilities

Additionally, the EWS Roadmap takes into account the interpillar domain, covering aspects around governance, stakeholder coordination, advocacy, monitoring and evaluation and financing for early warning systems. This holistic approach guarantees a comprehensive and well-rounded enhancement of [COUNTRY]’s early warning infrastructure.

## Methodology & Guiding Principles

[*If relevant, this section can provide a brief* *description of the methodology used for compiling the national implementation roadmap, including gap analysis, other foundational documents, validation, etc. This section can also highlight key principles to be prioritised when scaling up EWS, e.g. institutional buy-in and commitment to implementation, gender- and disability-responsive EWS, child and youth-sensitive EWS, inclusiveness, etc. ]*

## National Implementation Roadmap towards scaling up Early warning systems

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| PILLAR 1: DISASTER RISK KNOWLEDGE |
| Gap Identified | **Associated Output** | **Output indicator** | **Activities** | **Responsibility** | **Implementation Timeline** | **Budget, USD / LCU** | **Budget Source** |
| **Lead** | **Support** | **Year 1** | **Year 2** | **Year 3** | **Year 4** |
| *Example:* *Hazard and vulnerability assessments do not capture key vulnerability indicators* | *Example:* *Revision of hazard and vulnerability assessments methodologies* | *Example:* *Existence of hazard and vulnerability methodology capturing gender, historical, cultural indicators and climate change* | *Example:* * *Review and revision of hazard and vulnerability assessment methodologies to include age, gender, cultural and historical considerations*
 | *[Agency name]* | *[Agency name]* |  |  |  |  | *xxx* | *xxx* |
| * *Development of vulnerability assessment methodologies for critical infrastructure*
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| * *Capacity development on vulnerability assessment methodologies*
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| PILLAR 2: DETECTION, OBSERVATION, MONITORING, ANALYSIS AND FORECASTING OF HAZARDS |
| Gap Identified | **Associated Output** | **Output indicator** | **Activities** | **Responsibility** | **Implementation Timeline** | **Budget, USD / LCU** | **Budget Source** |
| **Lead** | **Support** | **Year 1** | **Year 2** | **Year 3** | **Year 4** |
|  |  |  |  | *[Agency name]* | *[Agency name]* |  |  |  |  | *xxx* | *xxx* |
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| PILLAR 3: WARNING DISSEMINATION AND COMMUNICATION |
| Gap Identified | **Associated Output** | **Output indicator** | **Activities** | **Responsibility** | **Implementation Timeline** | **Budget, USD / LCU** | **Budget Source** |
| **Lead** | **Support** | **Year 1** | **Year 2** | **Year 3** | **Year 4** |
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| PILLAR 4: PREPAREDNESS AND RESPONSE CAPABILITIES  |
| Gap Identified | **Associated Output** | **Output indicator** | **Activities** | **Responsibility** | **Implementation Timeline** | **Budget, USD / LCU** | **Budget Source** |
| **Lead** | **Support** | **Year 1** | **Year 2** | **Year 3** | **Year 4** |
|  |  |  |  | *[Agency name]* | *[Agency name]* |  |  |  |  | *xxx* | *xxx* |
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| INTER-PILLAR: GOVERNANCE, COORDINATION, ADVOCACY M&E AND FINANCING FOR EWS |
| Gap Identified | **Associated Output** | **Output indicator** | **Activities** | **Responsibility** | **Implementation Timeline** | **Budget, USD / LCU** | **Budget Source** |
| **Lead** | **Support** | **Year 1** | **Year 2** | **Year 3** | **Year 4** |
|  |  |  |  | *[Agency name]* | *[Agency name]* |  |  |  |  | *xxx* | *xxx* |
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## Implementation Structure and Approach

**Coordination mandate**

[*highlight coordination structure and official mandates for implementation*]

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**Implementing entities**

[*highlight implementing institutions and supporting partners*]

…

**Investment and funding arrangements**

[*highlight investment approach, funding streams and sources*]

…

## Monitoring and Evaluation

[*describe how monitoring and evaluation of the roadmap and activities will be conducted*]

## Annexes

[*gap analysis report and any other relevant documents*]