



Early Warning systems in context of the Sendai Framework

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Early warning and disaster risk reduction
Early warning and Sendai Framework 2015-2030
UNISDR work on early warning

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What the numbers say:

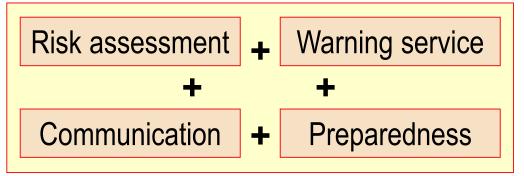
314 billion



Disaster Risk Reduction 2015 Sendai Japan



Four components of systematic people-centred early warning systems



Organised three International Early Warning Conferences (1998, 2003, 2006)

- Concerted effort to strengthen tsunami warning systems
- Global Review of Early Warning System (2008)
- **•** EW systems reviewed by countries against Hyogo Framework





Hyogo Framework for Action Monitor

130 countries' self-assessment every two years Analysis of findings in the Global Assessment Report

Level of Progress

The levels of progress will enable a self-assessment of the extent to which the policies, programmes and initiatives are sustainable in achieving the indicated risk reduction objectives.

- 1 Minor progress with few signs of forward action in plans or policy
- o 2 Some progress, but without systematic policy and/or institutional commitment
- 3 Institutional commitment attained, but achievements are neither comprehensive nor substantial
- 4 Substantial achievement attained but with recognized limitations in capacities and resources
- o 5 Comprehensive achievement with sustained commitment and capacities at all levels

KEY QUESTION AND MEANS OF VERIFICATION:

Do risk prone communities receive timely and understandable warnings of impending hazard events? Yes/ No

- Early warnings acted on effectively Local level preparedness
- Communication systems and protocols used and applied
- Active involvement of media in early warning dissemination

Global Assessment Report on Disaster Risk Reduction



Costs and benefits of early warning systems

David Rogers and Vladimir Tsirkunov

2010







Findings of the reviews related to EW

- Often isolated and technically based, not people centred, with weaknesses in preparedness and response
- Often not well integrated into policy and not part of risk management approach
- Some hazards and vulnerabilities not well covered
- Lack of capacities in LDCs and SIDS
- Fragmented mechanisms for international coordination and action



2015 Sendai Japan



Key challenges

- Criteria for indicators of effectiveness EWS
- Link early warnings to risk analysis broadening hazardoriented approaches to understanding related vulnerabilities?
- Build and sustain political commitment, cost-effectiveness
- Strengthen coordination among various national and local actors?
- Strengthen international (and regional) early warning coordination



Third UN World Conference on Disaster Risk Reduction (WCDRR) 14-18 March 2015, Sendai, Japan





Sendai Framework Scope

- Adds biological and man-made hazards to HFA scope
- "The framework applies to the risk of small-scale and large-scale, frequent and infrequent, sudden and slow-onset disasters, caused by natural or **man-made hazards** as well as related environmental, technological and **biological** hazards and risks." (paragraph 15)

Reduce

Increase

Mortality/

global population 2020-2030 Average << 2005-2015 Average

Affected people/

global population 2020-2030 Average << 2005-2015 Average

Economic loss/

global GDP 2030 Ratio << 2015 Ratio

Damage to critical infrastructure & disruption of basic services 2030 Value << 2015 Value Countries with national & local DRR strategies 2020 Value >> 2015 Value

International cooperation to developing countries 2030 Value >> 2015 Value

Availability and access to multi-hazard early warning systems & disaster risk information and assessments 2030 Value >> 2015 Value





Priorities moving forward

Assist the Open Ended Working Group on Indicators and Terminology on Disaster Risk Reduction define the mechanisms for measuring EW effectiveness (Sendai, Climate change, Sustainable development)

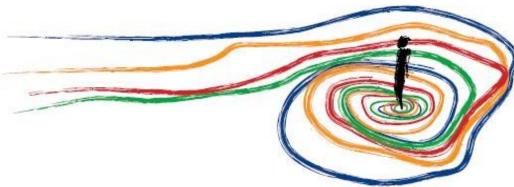
Build the monitoring system for countries to report on progress on early warnings

 Strengthen global and regional networks of practitioners (INMEWHS, ICMEHS)

CREWS launched to accelerate implementation in LDCs and SIDS



Thank you



For more information, please visit: <u>http://www.wcdrr.org</u> <u>http://www.preventionweb.net</u> <u>http://www.unisdr.org</u>



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