



Asian Conference on Disaster Reduction 2019 in Ankara, Turkey

Session 4: Development of Regional DRR Strategy for Sand and Dust Storm

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Four elements of the People-centred Early Warning System by UNISDR, 2006 as outcomes of the Third International Early Warning Conference in Bonn

RISK KNOWLEDGE

Systematically collect data and undertake risk assessments

Are the hazards and the vulnerabilities well known?
What are the patterns and trends in these factors?
Are risk maps and data widely available?

MONITORING & WARNING SERVICE

Develop hazard monitoring and early warning services

Are the right parameters being monitored?

Is there a sound scientific basis for making forecasts?

Can accurate and timely warnings be generated?

DISSEMINATION & COMMUNICATION

Communicate risk information and early warnings

Do warnings reach all of those at risk?

Are the risks and warnings understood?

Is the warning information clear and useable?

RESPONSE CAPABILITY

Build national and community response capabilities

Are response plans up to date and tested? Are local capacities and knowledge made use of? Are people prepared and ready to react to warnings?

- Know the enemy well
- Monitor the enemy and issue warning
- Disseminate and communicate the warning
- Response and Preparedness to better action

The all above elements must be understood by the public well – people-centred system

Examples of failures

- Storm surge warning was not understood
- 50 mm of precipitation might not be understood
- Hazard and risk map might not be understood
- False alarm or not (even 10 cm of tsunami is tsunami)
- Warning and evacuation order to wide area may not obtain attention of the public
- Even accurate and pinpointed warning may not lead to appropriate action unless safer places are identified
- EWS does not save economic asset

1. Do we know Sand and Dust Storm well? - Mechanism, Distribution and frequency, Impacts on society, Loss and damage data, etc.

Researchers, NDMOs, NMHSs

2. Are we able to monitor and warn sand and dust storm well? - Good tool to monitor or access to monitor, clear warning criteria, clear action oriented warning? Enough lead time? Accurate and dependable?

NMHSs

3. Dissemination and Communication - Fast enough? Pinpointed? Understandable manner?

NMHSs – NDMOs – Local governments and municipalities – communities Media

4. Response Capability – Ability to respond to warning, identification of safe places, evacuation, vulnerable groups to take care?

NDMOs – LDMOs/Municipalities – Police/Firefighters, NGOs, Community leaders, individuals, etc.

Regional strategy for national strategy National strategy for regional strategy https://www.youtube.com/watch?v=0VwnONbc1gc