



# ADRC

Asian Disaster Reduction Center (ADRC)



T.C. İÇİŞLERİ BAKANLIĞI  
AFET VE ACİL DURUM  
YÖNETİMİ BAŞKANLIĞI

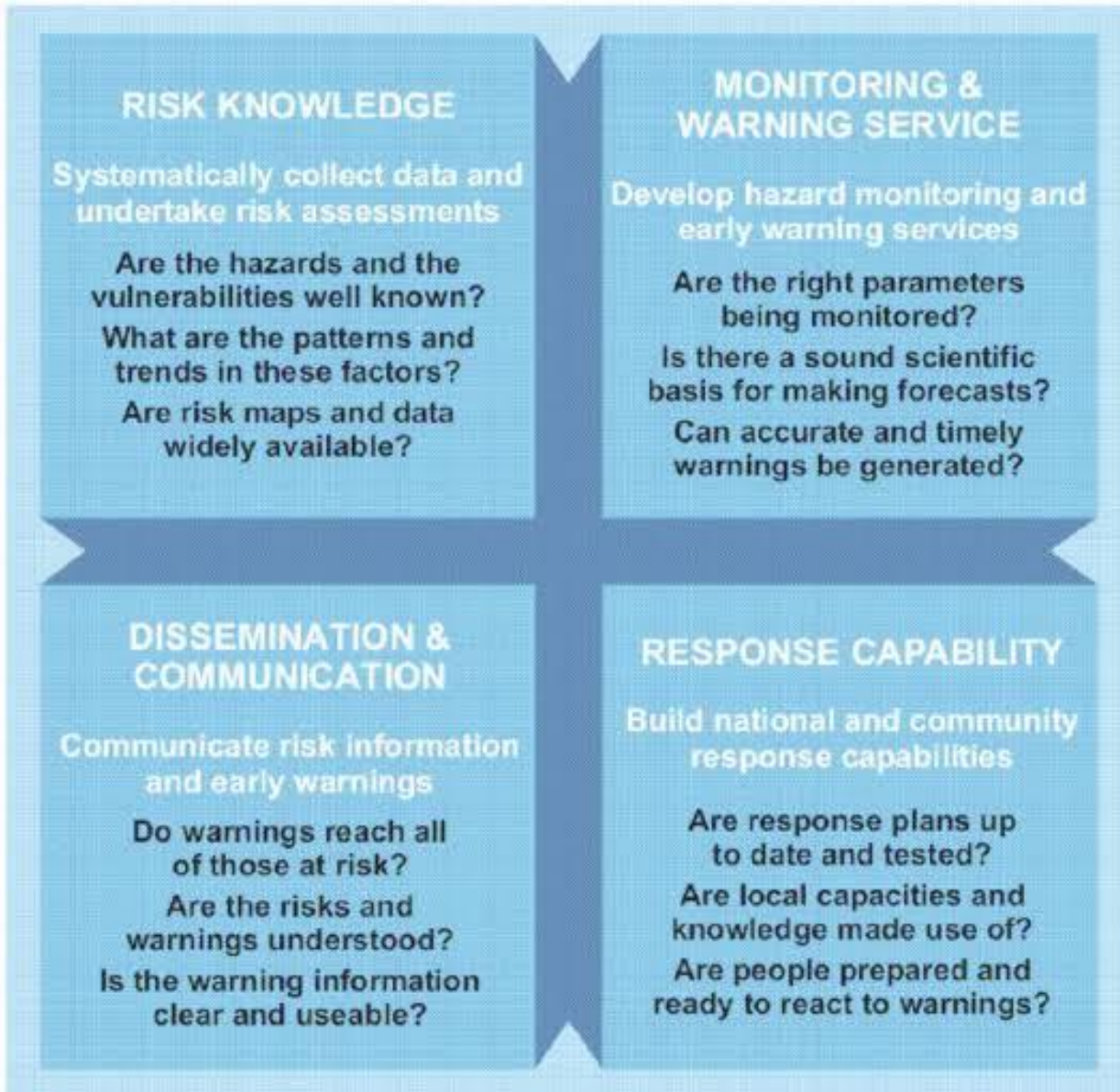
**Asian Conference on Disaster Reduction 2019 in Ankara, Turkey**

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

Co-chair: Yuichi Ono, Professor, International Research Institute of Disaster Science  
at Tohoku University, Sendai, Japan

Co-chair: Muhammet Maruf Yaman, Vice Chief of Cabinet, AFAD, Turkey

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



- 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>